

2017 Valuation Handbook

International Industry Cost of Capital

Semi-annual Update

Market Results Through September 2017

Duff & Phelps

Company and GICS List

Note: This document provides a list of the companies used to perform the analyses published in the *2017 Valuation Handbook – International Industry Cost of Capital Semi-annual Update* (data through September 30, 2017). The information herein is specific to the *2017 Valuation Handbook – International Industry Cost of Capital Semi-annual Update* (data through September 30, 2017), and is not applicable to any other book, update, or document.

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Duff & Phelps produces one book that focuses on U.S. capital markets performance data (i.e., the history of returns of the capital markets in the U.S. from 1926 to the present). This resource, the *Stocks, Bonds, Bills, and Inflation® (SBBi®) Yearbook*, has been published for over 30 years.^{i.1} The *SBBi Yearbook* does not provide extensive valuation data or methodology.^{i.2}

The six books are:^{i.3}

U.S. and International Valuation Theory and Data

- *Cost of Capital: Applications and Examples (5th edition)*
- *Valuation Handbook – U.S. Guide to Cost of Capital*
- *Valuation Handbook – U.S. Industry Cost of Capital*
- *Valuation Handbook – International Guide to Cost of Capital*
- *Valuation Handbook – International Industry Cost of Capital*

U.S. Capital Markets Performance Data

- *Stocks, Bonds, Bills, and Inflation (SBBi) Yearbook*

All six Duff & Phelps books are published by John Wiley & Sons (Hoboken, NJ). Each of the six books is summarized in the following sections.

To learn more about cost of capital issues, and to ensure that you are using the most recent Duff & Phelps Recommended ERP, visit www.duffandphelps.com/CostofCapital.

^{i.1} "Stocks, Bonds, Bills, and Inflation" and "SBBi" are registered trademarks of Morningstar, Inc. All rights reserved. Used with permission.

^{i.2} Morningstar previously published two "Ibbotson SBBi" yearbooks: (i) The *SBBi "Classic" Yearbook*, which is now produced by Duff & Phelps and published by John Wiley & Sons as the "SBBi Yearbook" starting in 2016 (the word "Classic" was dropped from the title), and (ii) the *SBBi "Valuation" Yearbook*, which was discontinued by Morningstar in 2013. The former *SBBi Valuation Yearbook* was replaced by the *Valuation Handbook – U.S. Guide to Cost of Capital*, also produced by Duff & Phelps and published by John Wiley & Sons, starting in 2014.

^{i.3} In 2014, 2015, and 2016 the four books comprising the Valuation Handbook series were named as follows: *Valuation Handbook – Guide to Cost of Capital*, *Valuation Handbook – Industry Cost of Capital*, *International Valuation Handbook – Guide to Cost of Capital*, and *International Valuation Handbook – Industry Cost of Capital*. Starting with the 2017 Valuation Handbook editions, the names of the four books were changed to: *Valuation Handbook – U.S. Guide to Cost of Capital*, *Valuation Handbook – U.S. Industry Cost of Capital*, *Valuation Handbook – International Guide to Cost of Capital*, and *Valuation Handbook – International Industry Cost of Capital*, respectively. For simplicity, in all 2017 books, intra-year updates, marketing materials, online tools, etc., the new names are used (even when referring to pre-2017 editions).

Cost of Capital: Applications and Examples 5th edition

The authoritative, comprehensive overview of valuation theory, best practices, and proper use of data. This book puts an emphasis on practical application.

To learn more about the latest theory and practice in cost of capital estimation, see *Cost of Capital: Applications and Examples* 5th edition, by Shannon P. Pratt and Roger J. Grabowski (John Wiley & Sons, Inc., 2014).

The *Cost of Capital: Applications and Examples* 5th edition is a one-stop shop for background and current thinking on the development and uses of rates of return on capital. This book contains expanded materials on estimating the basic building blocks of the cost of equity capital, the risk-free rate, and equity risk premium, plus in-depth discussion of the volatility created by the 2008 financial crisis, the subsequent recession and uncertain recovery, and how those events have fundamentally changed how we need to interpret the inputs to the models we use to develop these estimates.

The *Cost of Capital: Applications and Examples* 5th edition includes case studies providing comprehensive discussion of cost of capital estimates for valuing a business and damages calculations for small and medium-sized businesses, cross-referenced to the chapters covering the theory and data. This book puts an emphasis on practical application. To that end, this updated edition provides readers with exclusive access to a companion website filled with supplementary materials, allowing you to continue to learn in a hands-on fashion long after closing the book.

The *Cost of Capital: Applications and Examples* has been published since 1998, and is updated every three to four years. The 6th edition of this book is scheduled to be available in early 2018.

"Shannon Pratt and Roger Grabowski have produced a remarkably comprehensive review of the subject...it is a work that valuation practitioners, CFOs, and others will find an invaluable reference".

– **Professor Richard Brealey**, Emeritus Professor of Finance, London Business School (from the Foreword)

"Estimating the cost of capital is critical in determining the valuation of assets, in evaluating the capital structure of corporations, and in estimating the long-run expected return of investments. Shannon Pratt and Roger Grabowski have the most thorough text on the subject, not only providing various estimation methods, but also numerous ways to use the cost of capital".

– **Professor Roger G. Ibbotson**, Professor Emeritus of Finance at the Yale School of Management, Chairman and Chief Investment Officer of Zebra Capital LLC, and former Chairman and founder of Ibbotson Associates, now part of Morningstar, Inc.

Valuation Handbook – U.S. Guide to Cost of Capital

This annual book includes the U.S. cost of capital data inputs (equity risk premia, size premia, industry risk premia, risk premia over the risk-free rate, risk-free rates) that were previously published in the Morningstar/Ibbotson *Stocks, Bonds, Bills, and Inflation (SBBi) Valuation Yearbook* and the Duff & Phelps *Risk Premium Report*.

The *Valuation Handbook – U.S. Guide to Cost of Capital* can be used to develop cost of equity capital estimates (using both the build-up method and CAPM) for an individual business, business ownership interest, security, or intangible asset. This book includes many examples for using the data properly.

The *Valuation Handbook – U.S. Guide to Cost of Capital* has been published since 2014, and is updated annually with data through December 31 of the previous year (e.g., the *2014 Valuation Handbook – U.S. Guide to Cost of Capital* is "data through" December 31, 2013; the *2015 Valuation Handbook – U.S. Guide to Cost of Capital* is "data through" December 31, 2014, etc.). This book includes three optional intra-year quarterly updates (March, June, and September).

Valuation Handbook – U.S. Industry Cost of Capital

This annual book provides industry-level cost of capital estimates (cost of equity capital, cost of debt capital, and weighted average cost of capital, or WACC), plus detailed industry-level statistics for sales, market capitalization, capital structure, various levered and unlevered beta estimates (e.g., ordinary-least squares (OLS) beta, sum beta, peer group beta, downside beta, etc.), valuation (trading) multiples, financial and profitability ratios, equity returns, aggregate forward-looking earnings-per share (EPS) growth rates, and more. Over 300 critical industry-level data points are calculated for approximately 180 U.S. industries (depending on data availability). Industries are organized by standard industrial classification (SIC) code.

The *Valuation Handbook – U.S. Industry Cost of Capital* can be used to benchmark, augment, and support the analyst's own custom analysis of the industry in which a subject business, business ownership interest, security, or intangible asset resides.

The *Valuation Handbook – U.S. Industry Cost of Capital* has been published since 2014, and is updated annually with data through March 31 of the current year (e.g., the *2014 Valuation Handbook – U.S. Industry Cost of Capital* is "data through" March 31, 2014; the *2015 Valuation Handbook – U.S. Industry Cost of Capital* is "data through" March 31, 2015, etc.). This book includes three optional intra-year quarterly updates (June, September, and December).

Valuation Handbook – International Guide to Cost of Capital

This annual book provides country-level equity risk premia (ERPs), relative volatility (RV) factors, and country risk premia (CRPs).

This book can be used to estimate country-level cost of equity capital globally, for up to 188 countries, from the perspective of investors based in any one of up to 56 countries (depending on data availability).

The *Valuation Handbook – International Guide to Cost of Capital* has been published since 2014, and is updated annually with data through December of the previous year and March of the current year (e.g., the *2014 Valuation Handbook – International Guide to Cost of Capital* is “data through” December 31, 2013 and March 31, 2014; the *2015 Valuation Handbook – International Guide to Cost of Capital* is “data through” December 31, 2014 and March 31, 2015, etc.). This book includes one optional semi-annual update with data through June and September.

“Measuring the impact of country risk in determining the international cost of capital is one of the most vexing issues in finance. Any company doing international cost of capital estimation must, at minimum, consult the Valuation Handbook – International Guide to Cost of Capital”.

– **Campbell R. Harvey**, Professor of International Business at the Fuqua School of Business, Duke University

Valuation Handbook – International Industry Cost of Capital

This annual book provides the same type of rigorous industry-level analysis published in the U.S.-centric *Valuation Handbook – U.S. Industry Cost of Capital*, on a global scale.

This book includes industry-level analyses for four global economic areas: (i) the “World”, (ii) the European Union, (iii) the Eurozone, and (iv) the United Kingdom.^{i.4} Industries in the book are identified by their Global Industry Classification Standard (GICS) code. Each of the four global economic area's industry analyses are presented in three currencies: (i) the euro (€ or EUR), (ii) the British pound (£ or GBP), and (iii) the U.S. Dollar (\$ or USD).

This annual book provides industry level cost of capital estimates (cost of equity capital, cost of debt capital, and weighted average cost of capital, or WACC), plus detailed industry-level statistics for sales, market capitalization, capital structure, various levered and unlevered beta estimates (e.g., ordinary-least squares (OLS) beta, sum beta, peer group beta, downside beta, etc.), valuation (trading) multiples, financial and profitability ratios, equity returns, aggregate forward-looking earnings-per share (EPS) growth rates, and more. Over 300 critical industry-level data points are calculated for each industry (depending on data availability). Industries are organized by global industry classification standard (GICS) code.

^{i.4} In the *Valuation Handbook – International Industry Cost of Capital*, “World” companies are defined as companies that (i) are components of the MSCI ACWI IMI, and (ii) satisfy the rigorous screening requirements that are employed to define the company sets used therein.

The *Valuation Handbook – International Industry Cost of Capital* can be used to benchmark, augment, and support the analyst's own custom analysis of the industry in which a subject business, business ownership interest, security, or intangible asset resides.

The *Valuation Handbook – International Industry Cost of Capital* has been published since 2015, and is updated annually with data through March 31 of the current year (e.g., the *2015 Valuation Handbook – International Industry Cost of Capital* is "data through" March 31, 2015; the *2016 Valuation Handbook – International Industry Cost of Capital* is "data through" March 31, 2016, etc.). This book includes one optional semi-annual update with data through September.

Stocks, Bonds, Bills, and Inflation (SBBI) Yearbook

This annual book has been the definitive annual resource for historical U.S. capital markets performance data for over 30 years.

Starting with the 2016 edition, the *Stocks, Bonds, Bills, and Inflation (SBBI) Yearbook* is now produced by Duff & Phelps and published by John Wiley & Sons. The *SBBI Yearbook* was previously published by Morningstar, Inc. under the name "*Ibbotson Stocks, Bonds, Bills, and Inflation (SBBI) Classic Yearbook*".^{i.5}

This book includes returns, index values, and statistical analyses of U.S. large company stocks, small company stocks, long-term corporate bonds, long-term government bonds, intermediate-term government bonds, U.S. Treasury bills, and inflation from January 1926 to present (monthly).

Anyone serious about investments or investing needs an appreciation of capital market history. Such an appreciation, which can be gained from this book, is equally valuable to the individual and institutional investor, practitioners and scholars in finance, economics, and business; portfolio strategists; and security analysts seeking to benchmark their own investment performance. The *SBBI Yearbook* is a thinking person's guide to using historical data to understand the financial markets and make decisions.

^{i.5} The *SBBI Yearbook* was published by Morningstar, Inc. from 2007 through 2015, and by Ibbotson Associates in years prior to 2007.

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Introduction

The hardcover *2017 Valuation Handbook – International Industry Cost of Capital* is published with data through March 31, 2017, and includes one intra-year Semi-annual Update (data through September 30, 2017).¹

The *2017 Valuation Handbook – International Industry Cost of Capital* provides industry-level cost of capital estimates (cost of equity, cost of debt, and weighted average cost of capital, or WACC), plus detailed industry-level statistics for sales, market capitalization, capital structure, various levered and unlevered beta estimates (e.g., ordinary-least squares (OLS) beta, sum beta, peer group beta, downside beta, etc.), valuation (trading) multiples, financial and profitability ratios, equity returns, aggregate forward-looking earnings-per-share (EPS) growth rates, and more. The information and statistics in the *2017 Valuation Handbook – International Industry Cost of Capital* can be used by the analyst to (i) benchmark, (ii) augment, and (iii) support his or her own custom analysis of the industry in which a subject business, business ownership interest, security, or intangible asset resides.

The information in the *2017 Valuation Handbook – International Industry Cost of Capital* Semi-annual update, "Company and GICS List" (this document) is a list of the companies used in the four global areas (the World, the European Union, the Eurozone, and the United Kingdom) presented in the *2017 Valuation Handbook – International Industry Cost of Capital* Semi-annual update (data through March 2017). The industry analyses included in each of the four global areas covered in this book are, in turn, separately calculated and presented in each of the following three currencies: (i) the euro (€ or EUR), (ii) the British pound Sterling (£ or GBP), and (iii) the U.S. dollar (\$) or USD). As such, the information herein is specific to the *2017 Valuation Handbook – International Industry Cost of Capital* Semi-annual update (data through September 2017), and is not applicable to any other book, update, or document.

¹ Semi-annual Updates are optional, and are not sold separately.

Company and GICS Lists

The company screening process used for identifying the main set of “healthy” companies used for the analyses presented in the *2017 Valuation Handbook – International Industry Cost of Capital* mimics the screening process employed in the Risk Premium Report Study Exhibits that are published in the *Valuation Handbook – U.S. Guide to Cost of Capital*.²

The set of companies remaining after this screening process (i) are “seasoned” companies in that they have been traded for several years, (ii) have been selling at least a minimal quantity of product or services, and (iii) have been able to achieve a degree of positive cash flow from operations. The last step in this screening process is identifying “pure play” companies. Pure play companies are defined here as those companies that derive at least 75% of their overall revenue from a single GICS code. The companies identified in this process (“Main Set”) are used in the analyses to calculate the “Median”, “GICS Composite”, “Large Composite”, and “Small Composite” metrics for each industry (data availability allowing). Please note that “high-financial-risk” companies (“High-Financial-Risk Set”) are identified and analyzed separately. A list of companies included in the High-Financial-Risk Set analyses is presented in Appendices: D, F, H, J, L, N, P, and R.

Note that the respective company sets for each of the four areas, in each of the three currencies, are identical (only the currency changes, not the constituency of the company set). For example, in the *2017 Valuation Handbook – International Industry Cost of Capital*, the same 4,978 companies in the main set of “World” companies in € EUR are the same 4,978 companies in the main set of “World” companies in £ GBP and \$ USD. This is also true for the company sets in the EU, the Eurozone, and the United Kingdom.

For a detailed discussion of the company set selection process employed in the *2017 Valuation Handbook – International Industry Cost of Capital* and its Semi-annual update, please refer to the section entitled “Company Screening Process” in that book.

² The *Valuation Handbook – U.S. Guide to Cost of Capital* includes the data previously published in the Morningstar/Ibbotson *Stocks, Bonds, Bills, and Inflation (S&P) Valuation Yearbook* and the Duff & Phelps *Risk Premium Report*. The *Valuation Handbook – U.S. Guide to Cost of Capital* can be used to develop cost of equity capital estimates for an individual business, business ownership interest, security, or intangible asset. To purchase copies of the *Valuation Handbook – U.S. Guide to Cost of Capital*, or other Duff & Phelps valuation data resources published by John Wiley & Sons, please go to: www.wiley.com/go/ValuationHandbooks.

Appendix A:

Industry by GICS Code

The industries analyzed in the *2017 Valuation Handbook – International Industry Cost of Capital* Semi-annual Update (data through September 30, 2017) are presented in Appendix A by GICS code.

2017 Valuation Handbook – International Industry Cost of Capital (data through September 30, 2017); Company and GICS List

10	Energy	255030	Multiline Retail
1010	Energy	255040	Specialty Retail
101010	Energy Equipment & Services	30	Consumer Staples
101020	Oil, Gas & Consumable Fuels	3010	Food & Staples Retailing
15	Materials	301010	Food & Staples Retailing
1510	Materials	3020	Food, Beverage & Tobacco
151010	Chemicals	302010	Beverages
151020	Construction Materials	302020	Food Products
151030	Containers & Packaging	302030	Tobacco
151040	Metals & Mining	3030	Household & Personal Products
151050	Paper & Forest Products	303010	Household Products
20	Industrials	303020	Personal Products
2010	Capital Goods	35	Health Care
201010	Aerospace & Defense	3510	Health Care Equipment & Services
201020	Building Products	351010	Health Care Equipment & Supplies
201030	Construction & Engineering	351020	Health Care Providers & Services
201040	Electrical Equipment	351030	Health Care Technology
201050	Industrial Conglomerates	3520	Pharmaceuticals, Biotechnology & Life Sciences
201060	Machinery	352010	Biotechnology
201070	Trading Companies & Distributors	352020	Pharmaceuticals
2020	Commercial & Professional Services	352030	Life Sciences Tools & Services
202010	Commercial Services & Supplies	40	Financials
202020	Professional Services	4010	Banks
2030	Transportation	401010	Banks
203010	Air Freight & Logistics	401020	Thrifts & Mortgage Finance
203020	Airlines	4020	Diversified Financials
203030	Marine	402010	Diversified Financial Services
203040	Road & Rail	402020	Consumer Finance
203050	Transportation Infrastructure	402030	Capital Markets
25	Consumer Discretionary	402040	Mortgage Real Estate Investment Trusts (REITs)
2510	Automobiles & Components	4030	Insurance
251010	Auto Components	403010	Insurance
251020	Automobiles	45	Information Technology
2520	Consumer Durables & Apparel	4510	Software & Services
252010	Household Durables	451010	Internet Software & Services
252020	Leisure Products	451020	IT Services
252030	Textiles, Apparel & Luxury Goods	451030	Software
2530	Consumer Services	4520	Technology Hardware & Equipment
253010	Hotels, Restaurants & Leisure	452010	Communications Equipment
253020	Diversified Consumer Services	452020	Technology Hardware, Storage & Peripherals
2540	Media	452030	Electronic Equipment, Instruments & Components
254010	Media	4530	Semiconductors & Semiconductor Equipment
2550	Retailing	453010	Semiconductors & Semiconductor Equipment
255010	Distributors	50	Telecommunication Services
255020	Internet & Direct Marketing Retail	5010	Telecommunication Services

501010	Diversified Telecommunication Services
501020	Wireless Telecommunication Services
55	Utilities
5510	Utilities
551010	Electric Utilities
551020	Gas Utilities
551030	Multi-Utilities
551040	Water Utilities
551050	Independent Power and Renewable Electricity Producers
60	Real Estate
6010	Real Estate
601010	Equity Real Estate Investment Trusts (REITs)
601020	Real Estate Management & Development

Appendix B:

Industry List by Industry Name (alphabetical)

The industries analyzed in the *2017 Valuation Handbook – International Industry Cost of Capital* Semi-annual Update (data through September 30, 2017) are presented in alphabetical order in Appendix B.

2017 Valuation Handbook – International Industry Cost of Capital (data through September 30, 2017); Company and GICS List

Aerospace & Defense	201010	Health Care Equipment & Supplies	351010
Air Freight & Logistics	203010	Health Care Providers & Services	351020
Airlines	203020	Health Care Technology	351030
Auto Components	251010	Hotels, Restaurants & Leisure	253010
Automobiles	251020	Household & Personal Products	3030
Automobiles & Components	2510	Household Durables	252010
Banks	4010	Household Products	303010
Banks	401010	Independent Power and Renewable Electricity Producers	551050
Beverages	302010	Industrial Conglomerates	201050
Biotechnology	352010	Industrials	20
Building Products	201020	Information Technology	45
Capital Goods	2010	Insurance	4030
Capital Markets	402030	Insurance	403010
Chemicals	151010	Internet & Direct Marketing Retail	255020
Commercial & Professional Services	2020	Internet Software & Services	451010
Commercial Services & Supplies	202010	IT Services	451020
Communications Equipment	452010	Leisure Products	252020
Construction & Engineering	201030	Life Sciences Tools & Services	352030
Construction Materials	151020	Machinery	201060
Consumer Discretionary	25	Marine	203030
Consumer Durables & Apparel	2520	Materials	15
Consumer Finance	402020	Materials	1510
Consumer Services	2530	Media	2540
Consumer Staples	30	Media	254010
Containers & Packaging	151030	Metals & Mining	151040
Distributors	255010	Mortgage Real Estate Investment Trusts (REITs)	402040
Diversified Consumer Services	253020	Multiline Retail	255030
Diversified Financial Services	402010	Multi-Utilities	551030
Diversified Financials	4020	Oil, Gas & Consumable Fuels	101020
Diversified Telecommunication Services	501010	Paper & Forest Products	151050
Electric Utilities	551010	Personal Products	303020
Electrical Equipment	201040	Pharmaceuticals	352020
Electronic Equipment, Instruments & Components	452030	Pharmaceuticals, Biotechnology & Life Sciences	3520
Energy	10	Professional Services	202020
Energy	1010	Real Estate	60
Energy Equipment & Services	101010	Real Estate	6010
Equity Real Estate Investment Trusts (REITs)	601010	Real Estate Management & Development	601020
Financials	40	Retailing	2550
Food & Staples Retailing	3010	Road & Rail	203040
Food & Staples Retailing	301010	Semiconductors & Semiconductor Equipment	4530
Food Products	302020	Semiconductors & Semiconductor Equipment	453010
Food, Beverage & Tobacco	3020	Software	451030
Gas Utilities	551020	Software & Services	4510
Health Care	35	Specialty Retail	255040
Health Care Equipment & Services	3510	Technology Hardware & Equipment	4520

Technology Hardware, Storage & Peripherals	452020
Telecommunication Services	50
Telecommunication Services	5010
Textiles, Apparel & Luxury Goods	252030
Thrifts & Mortgage Finance	401020
Tobacco	302030
Trading Companies & Distributors	201070
Transportation	2030
Transportation Infrastructure	203050
Utilities	55
Utilities	5510
Water Utilities	551040
Wireless Telecommunication Services	501020

Appendix C:

Companies (Main Set) in Each Industry, by GICS Code, in World

In Appendix C, a listing of companies in the main set of “healthy” companies for each GICS code in the World region in the *2017 Valuation Handbook – International Industry Cost of Capital* Semi-annual Update (data through September 30, 2017) is presented.

GICS 10

Aegis Logistics Limited	Hilong Holding Limited	PTT Exploration and Production Public Company Limited
AltaGas Ltd.	Hindustan Petroleum Corporation Limited	PTT Public Company Limited
Amerisur Resources PLC	HollyFrontier Corporation	Public Joint Stock Company Rosneft Oil Company
Anton Oilfield Services Group	Honghua Group Limited	Public Joint Stock Company Transneft
ARC Resources Ltd.	Husky Energy Inc.	Qatar Gas Transport Company Limited (Nakilat) Q.S.C.
Atwood Oceanics, Inc.	Idemitsu Kosan Co.,Ltd.	QGEP Participações S.A.
Banpu Public Company Limited	Imperial Oil Limited	Repsol, S.A.
Bharat Petroleum Corporation Limited	Inpex Corporation	REX American Resources Corporation
Birchcliff Energy Ltd.	Itochu Enex Co.,Ltd.	Royal Dutch Shell plc
Bonterra Energy Corp	Japan Petroleum Exploration Co., Ltd.	RPC, Inc.
BP p.l.c.	John Wood Group PLC	San-Ai Oil Co., Ltd.
Cabot Oil & Gas Corporation	JXTG Holdings, Inc.	Schlumberger Limited
Caltex Australia Limited	Keyera Corp.	ShawCor Ltd.
Cameco Corporation	Kinder Morgan, Inc.	Shinko Plantech Co., Ltd.
Canadian Natural Resources Limited	Kunlun Energy Company Limited	Showa Shell Sekiyu K.K.
CARBO Ceramics Inc.	Lubelski Wegiel Bogdanka S.A.	Siamgas and Petrochemicals Public Company Limited
Cenovus Energy Inc.	Marathon Oil Corporation	Sinanen Holdings Co Ltd
CES Energy Solutions Corp.	Marathon Petroleum Corporation	Sinopec Kantons Holdings Limited
Chevron Corporation	Matrix Service Company	SK Gas Co., Ltd.
China Coal Energy Company Limited	MODEC, Inc.	SK Innovation Co., Ltd.
China Petroleum & Chemical Corp.	MOL Magyar Olaj- es Gazipari Nyilvanosan Mukodo Reszvenytarsasag	Snam S.p.A.
China Shenhua Energy Company Limited	Mullen Group Ltd.	SOCO International plc
CNOOC Limited	Murphy Oil Corporation	S-Oil Corporation
Coal India Limited	NACCO Industries, Inc.	Subsea 7 S.A.
ConocoPhillips	Naphtha Israel Petroleum Corp. Ltd.	Suncor Energy Inc.
Continental Resources, Inc.	National Oilwell Varco, Inc.	Surgutneftegas Open Joint Stock Company
Cosan S.A. Indústria e Comércio	Natural Gas Services Group, Inc.	Técnicas Reunidas, S.A.
CVR Energy, Inc.	Newpark Resources, Inc.	Tenaris S.A.
Delek US Holdings, Inc.	Oil and Natural Gas Corporation Limited	TGS-NOPEC Geophysical Company ASA
Dialog Group Berhad	Oil Search Limited	Thai Oil Public Company Limited
Diamond Offshore Drilling, Inc.	Oil States International, Inc.	The New Zealand Refining Company Limited
Dril-Quip, Inc.	OMV Aktiengesellschaft	The Williams Companies, Inc.
Ecopetrol S.A.	ONEOK, Inc.	Total Energy Services Inc.
Empresas Copec S.A.	PAO NOVATEK	Tourmaline Oil Corp.
Enagás, S.A.	PAO TMK	Toyo Kanetsu Kabushiki Kaisha
Enbridge Inc.	Parkland Fuel Corporation	TransCanada Corporation
Enerflex Ltd.	Pason Systems Inc.	Türkiye Petrol Rafinerileri A.S.
Ensign Energy Services Inc.	Patterson-UTI Energy, Inc.	Ultrapar Participações S.A.
EOG Resources, Inc.	Pembina Pipeline Corporation	Valero Energy Corporation
EQT Corporation	PetroChina Company Limited	Vermilion Energy Inc.
Etablissements Maurel & Prom S.A.	Peyto Exploration & Development Corp	Whitecap Resources Inc.
Euronav NV	Phillips 66	Woodside Petroleum Ltd
Exmar NV	PJSC LUKOIL	
Exxaro Resources Limited	PT Adaro Energy Tbk	
Exxon Mobil Corporation	PT Indo Tambangraya Megah Tbk	
Formosa Petrochemical Corporation	PT United Tractors Tbk	
Freehold Royalties Ltd.		
Hankook Shell Oil Co.,Ltd.		
Helmerich & Payne, Inc.		

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Yanzhou Coal Mining
Company Limited
Yinson Holdings Berhad

Formosa Petrochemical
Corporation
Freehold Royalties Ltd.
Hankook Shell Oil Co.,Ltd.
Helmerich & Payne, Inc.
Hilong Holding Limited
Hindustan Petroleum
Corporation Limited
HollyFrontier Corporation
Honghua Group Limited
Husky Energy Inc.
Idemitsu Kosan Co.,Ltd.
Imperial Oil Limited
Inpex Corporation
Itochu Enex Co.,Ltd.

PT Indo Tambangraya
Megah Tbk
PT United Tractors Tbk

GICS 1010

Aegis Logistics Limited
AltaGas Ltd.
Amerisur Resources PLC
Anton Oilfield Services
Group
ARC Resources Ltd.
Atwood Oceanics, Inc.
Banpu Public Company
Limited
Bharat Petroleum
Corporation Limited
Birchcliff Energy Ltd.
Bonterra Energy Corp
BP p.l.c.
Cabot Oil & Gas
Corporation
Caltex Australia Limited
Cameco Corporation
Canadian Natural
Resources Limited
CARBO Ceramics Inc.
Cenovus Energy Inc.
CES Energy Solutions Corp.
Chevron Corporation
China Coal Energy
Company Limited
China Petroleum &
Chemical Corp.
China Shenhua Energy
Company Limited
CNOOC Limited
Coal India Limited
ConocoPhillips
Continental Resources, Inc.
Cosan S.A. Indústria e
Comércio
CVR Energy, Inc.
Delek US Holdings, Inc.
Dialog Group Berhad
Diamond Offshore Drilling,
Inc.
Dril-Quip, Inc.
Ecopetrol S.A.
Empresas Copec S.A.
Enagás, S.A.
Enbridge Inc.
Enerflex Ltd.
Ensign Energy Services Inc.
EOG Resources, Inc.
EQT Corporation
Etablissements Maurel &
Prom S.A.
Euronav NV
Exmar NV
Exxaro Resources Limited
Exxon Mobil Corporation

Japan Petroleum
Exploration Co., Ltd.
John Wood Group PLC
JXTG Holdings, Inc.
Keyera Corp.
Kinder Morgan, Inc.
Kunlun Energy Company
Limited
Lubelski Wegiel Bogdanka
S.A.
Marathon Oil Corporation
Marathon Petroleum
Corporation
Matrix Service Company
MODEC, Inc.
MOL Magyar Olaj- es
Gazipari Nyilvanosan
Mukodo Reszvenytarsasag
Mullen Group Ltd.
Murphy Oil Corporation
Naphtha Israel Petroleum
Corp. Ltd.
National Oilwell Varco, Inc.
Natural Gas Services
Group, Inc.
Newpark Resources, Inc.
Oil and Natural Gas
Corporation Limited
Oil Search Limited
Oil States International, Inc.
OMV Aktiengesellschaft
ONEOK, Inc.
PAO NOVATEK
PAO TMK
Parkland Fuel Corporation
Pason Systems Inc.
Patterson-UTI Energy, Inc.
Pembina Pipeline
Corporation
PetroChina Company
Limited
Peyto Exploration &
Development Corp
Phillips 66
PJSC LUKOIL
PT Adaro Energy Tbk

PTT Exploration and
Production Public
Company Limited
PTT Public Company
Limited
Public Joint Stock
Company Rosneft Oil
Company
Public Joint Stock
Company Transneft
Qatar Gas Transport
Company Limited (Nakilat)
Q.S.C.
QGEP Participações S.A.
Repsol, S.A.
REX American Resources
Corporation
Royal Dutch Shell plc
RPC, Inc.
San-Ai Oil Co., Ltd.
Schlumberger Limited
ShawCor Ltd.
Shinko Plantech Co., Ltd.
Showa Shell Sekiyu K.K.
Siamgas and
Petrochemicals Public
Company Limited
Sinanen Holdings Co Ltd
Sinopec Kantons Holdings
Limited
SK Gas Co., Ltd.
SK Innovation Co., Ltd.
Snam S.p.A.
SOCO International plc
S-Oil Corporation
Subsea 7 S.A.
Suncor Energy Inc.
Surgutneftegas Open Joint
Stock Company
Técnicas Reunidas, S.A.
Tenaar S.A.
TGS-NOPEC Geophysical
Company ASA
Thai Oil Public Company
Limited
The New Zealand Refining
Company Limited
The Williams Companies,
Inc.
Total Energy Services Inc.
Tourmaline Oil Corp.
Toyo Kanetsu Kabushiki
Kaisha
TransCanada Corporation
Türkiye Petrol Rafinerileri
A.S.
Ultrapar Participações S.A.
Valero Energy Corporation
Vermilion Energy Inc.
Whitecap Resources Inc.

Woodside Petroleum Ltd
 Yanzhou Coal Mining
 Company Limited
 Yinson Holdings Berhad

Canadian Natural
 Resources Limited
 Cenovus Energy Inc.
 Chevron Corporation
 China Coal Energy
 Company Limited
 China Petroleum &
 Chemical Corp.
 China Shenhua Energy
 Company Limited
 CNOOC Limited
 Coal India Limited
 ConocoPhillips
 Continental Resources, Inc.
 Cosan S.A. Indústria e
 Comércio
 CVR Energy, Inc.
 Delek US Holdings, Inc.
 Ecopetrol S.A.
 Empresas Copec S.A.
 Enagás, S.A.
 Enbridge Inc.
 EOG Resources, Inc.
 EQT Corporation
 Etablissements Maurel &
 Prom S.A.
 Euronav NV
 Exmar NV
 Exxaro Resources Limited
 Exxon Mobil Corporation
 Formosa Petrochemical
 Corporation
 Freehold Royalties Ltd.
 Hankook Shell Oil Co.,Ltd.
 Hindustan Petroleum
 Corporation Limited
 HollyFrontier Corporation
 Husky Energy Inc.
 Idemitsu Kosan Co.,Ltd.
 Imperial Oil Limited
 Inpex Corporation
 Itochu Enex Co.,Ltd.
 Japan Petroleum
 Exploration Co., Ltd.
 JXTG Holdings, Inc.
 Keyera Corp.
 Kinder Morgan, Inc.
 Kunlun Energy Company
 Limited
 Lubelski Wegiel Bogdanka
 S.A.
 Marathon Oil Corporation
 Marathon Petroleum
 Corporation
 MOL Magyar Olaj- es
 Gazipari Nyilvanosan
 Mukodo Reszvenytarsasag
 Murphy Oil Corporation
 Naphtha Israel Petroleum
 Corp. Ltd.

Oil and Natural Gas
 Corporation Limited
 Oil Search Limited
 OMV Aktiengesellschaft
 ONEOK, Inc.
 PAO NOVATEK
 Parkland Fuel Corporation
 Pembina Pipeline
 Corporation
 PetroChina Company
 Limited
 Peyto Exploration &
 Development Corp
 Phillips 66
 PJSC LUKOIL
 PT Adaro Energy Tbk
 PT Indo Tambangraya
 Megah Tbk
 PT United Tractors Tbk
 PTT Exploration and
 Production Public
 Company Limited
 PTT Public Company
 Limited
 Public Joint Stock
 Company Rosneft Oil
 Company
 Public Joint Stock
 Company Transneft
 Qatar Gas Transport
 Company Limited (Nakilat)
 Q.S.C.
 QGEP Participações S.A.
 Repsol, S.A.
 REX American Resources
 Corporation
 Royal Dutch Shell plc
 San-Ai Oil Co., Ltd.
 Showa Shell Sekiyu K.K.
 Siamgas and
 Petrochemicals Public
 Company Limited
 Sinanen Holdings Co Ltd
 Sinopec Kantons Holdings
 Limited
 SK Gas Co., Ltd.
 SK Innovation Co., Ltd.
 Snam S.p.A.
 SOCO International plc
 S-Oil Corporation
 Suncor Energy Inc.
 Surgutneftegas Open Joint
 Stock Company
 Thai Oil Public Company
 Limited
 The New Zealand Refining
 Company Limited
 The Williams Companies,
 Inc.
 Tourmaline Oil Corp.
 TransCanada Corporation
 Türkiye Petrol Rafinerileri
 A.S.

GICS 101010

Anton Oilfield Services
 Group
 Atwood Oceanics, Inc.
 CARBO Ceramics Inc.
 CES Energy Solutions Corp.
 Dialog Group Berhad
 Diamond Offshore Drilling,
 Inc.
 Dril-Quip, Inc.
 Enerflex Ltd.
 Ensign Energy Services Inc.
 Helmerich & Payne, Inc.
 Hilong Holding Limited
 Honghua Group Limited
 John Wood Group PLC
 MODEC, Inc.
 Mullen Group Ltd.
 National Oilwell Varco, Inc.
 Natural Gas Services
 Group, Inc.
 Newpark Resources, Inc.
 Oil States International, Inc.
 PAO TMK
 Pason Systems Inc.
 Patterson-UTI Energy, Inc.
 RPC, Inc.
 Schlumberger Limited
 ShawCor Ltd.
 Shinko Plantech Co., Ltd.
 Subsea 7 S.A.
 Técnicas Reunidas, S.A.
 Tenaris S.A.
 TGS-NOPEC Geophysical
 Company ASA
 Total Energy Services Inc.
 Toyo Kanetsu Kabushiki
 Kaisha
 Yinson Holdings Berhad

GICS 101020

Aegis Logistics Limited
 AltaGas Ltd.
 Amerisur Resources PLC
 ARC Resources Ltd.
 Banpu Public Company
 Limited
 Bharat Petroleum
 Corporation Limited
 Birchcliff Energy Ltd.
 Bonterra Energy Corp
 BP p.l.c.
 Cabot Oil & Gas
 Corporation
 Caltex Australia Limited
 Cameco Corporation

Ultrapar Participações S.A.
 Valero Energy Corporation
 Vermilion Energy Inc.
 Whitecap Resources Inc.
 Woodside Petroleum Ltd
 Yanzhou Coal Mining
 Company Limited

Braskem S.A.
 Brickworks Limited
 Buzzi Unicem SpA
 C.I. Takiron Corporation
 Cabot Corporation
 Calgon Carbon Corporation
 Canfor Corporation
 Carpenter Technology
 Corporation
 CCL Industries Inc.
 Celanese Corporation
 Cemertir Holding S.p.A.
 Cementos Argos S.A.
 Centerra Gold Inc.
 Century Plyboards (India)
 Limited
 Century Textiles and
 Industries Limited
 CF Industries Holdings, Inc.
 Chase Corporation
 CHC Resources
 Corporation
 Cheng Loong Corporation
 China BlueChemical Ltd
 China General Plastics
 Corporation
 China Gold International
 Resources Corp. Ltd.
 China Metal Products Co.,
 Ltd.
 China Steel Chemical
 Corporation
 Chugoku Marine Paints,
 Ltd.
 Çimsa Çimento Sanayi ve
 Ticaret Anonim Sirketi
 Clariant AG
 Commercial Metals
 Company
 Companhia Siderúrgica
 Nacional
 Compañía de Minas
 Buenaventura S.A.A.
 Compass Minerals
 International, Inc.
 Coromandel International
 Limited
 CPMC Holdings Limited
 Croda International plc
 Da Ming International
 Holdings Limited
 Daicel Corporation
 Daiken Corporation
 Dainichiseika Color &
 Chemicals Mfg. Co., Ltd.
 Dalmia Bharat Limited
 Deltic Timber Corporation
 Denka Company Limited
 Dhanuka Agritech Limited
 DIC Corporation
 Dominion Diamond
 Corporation

Domtar Corporation
 Dongjin Semichem Co., Ltd.
 Dongwha Enterprise Co.,
 Ltd.
 DS Smith Plc
 E.I.D.- Parry (India) Limited
 Eagle Materials Inc.
 Eastman Chemical
 Company
 Elementis plc
 EMS-Chemie Holding AG
 ENCE Energia y Celulosa,
 S.A.
 Eregli Demir ve Çelik
 Fabrikalari T.A.S.
 Essel Propack Limited
 Eternal Materials Co., Ltd.
 Eugene Corporation
 Everlight Chemical
 Industrial Corporation
 Feng Hsin Steel Co.,Ltd
 Ferrexpo Plc
 First Quantum Minerals
 Ltd.
 FMC Corporation
 Foosung Co., Ltd.
 Formosa Chemicals & Fibre
 Corporation
 Formosa Plastics
 Corporation
 Formosan Rubber Group
 Inc.
 Fortescue Metals Group
 Limited
 FP Corporation
 Franco-Nevada
 Corporation
 Fresnillo PLC
 Frutarom Industries Ltd.
 Fufeng Group Limited
 Fuji Seal International, Inc.
 Fujimori Kogyo Co., Ltd.
 Fuso Chemical Co.,Ltd.
 Gerdau S.A.
 Gloria Material Technology
 Corp.
 Godrej Industries Limited
 Grand Pacific
 Petrochemical Corporation
 Graphic Packaging Holding
 Company
 Grasim Industries Limited
 Great China Metal Ind. Co.,
 Ltd.
 Greatview Aseptic
 Packaging Co.
 Greenply Industries Limited
 Grupo Argos S.A.
 Grupo México, S.A.B. de
 C.V.
 Gübre Fabrikalari T.A.S.
 Gujarat Fluorochemicals
 Limited

GICS 15

Aarti Industries Limited
 ACC Limited
 Acerinox, S.A.
 Adelaide Brighton Limited
 African Rainbow Minerals
 Limited
 Agrium Inc.
 Aichi Steel Corporation
 Air Liquide, société
 anonyme
 Air Products and
 Chemicals, Inc.
 AK Holdings, Inc.
 Akçansa Çimento Sanayi
 ve Ticaret A.S.
 Akzo Nobel India Limited
 Akzo Nobel N.V.
 Albemarle Corporation
 Alexandria Mineral Oils
 Company
 Altri, S.G.P.S., S.A.
 Ambuja Cements Limited
 Amcor Limited
 American Vanguard
 Corporation
 AngloGold Ashanti Limited
 Anhui Conch Cement
 Company Limited
 Antofagasta plc
 Arkema S.A.
 Asahi Holdings, Inc.
 Asahi Kasei Corporation
 Ashland Global Holdings
 Inc.
 Asia Cement (China)
 Holdings Corporation
 Asia Cement Corporation
 Asia Polymer Corporation
 Asian Paints Limited
 Assore Limited
 Aurubis AG
 Avery Dennison
 Corporation
 Ball Corporation
 BASF India Limited
 BASF SE
 Bayer CropScience Limited
 Bemis Company, Inc.
 BHP Billiton Limited
 BillerudKorsnäs AB (publ)
 Boliden AB
 Boral Limited
 Boryszew S.A.

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Gujarat Narmada Valley Fertilizers & Chemicals Limited	KisWire Ltd.	Nine Dragons Paper (Holdings) Limited
Gurit Holding AG	Klabın S.A.	Nippon Denko Co., Ltd.
H&R GmbH & Co. KGaA	Koatsu Gas Kogyo Co., Ltd.	Nippon Light Metal Holdings Company, Ltd.
H.B. Fuller Company	Kolon Industries, Inc.	Nippon Paint Holdings Co., Ltd.
Hanil Cement. Co., Ltd.	Konishi Co., Ltd.	Nippon Paper Industries Co., Ltd.
Hankuk Carbon Co., Ltd.	Korea Petrochemical Ind. Co., Ltd.	Nippon Shokubai Co., Ltd.
Hansol Chemical Co., Ltd.	Korea Zinc Co., Ltd.	NIPPON STEEL & SUMITOMO METAL CORP
Haynes International, Inc.	Kraton Corporation	Nittetsu Mining Co., Ltd.
Hecla Mining Company	Kukdo Chemical Co., Ltd.	Norbord Inc.
HeidelbergCement India Limited	Kumho Petrochemical Co., Ltd.	Northern Star Resources Limited
Hexpol AB (Publ)	Kumiai Chemical Industry Co., Ltd.	Novozymes A/S
Hindalco Industries Limited	Kyoei Steel Ltd.	Nucor Corporation
Hitachi Chemical Company, Ltd.	Labrador Iron Ore Royalty Corp.	Nufarm Limited
Hitachi Metals, Ltd.	Lafarge Malaysia Berhad	Nutrien Ltd.
Ho Tung Chemical Corp.	LafargeHolcim Ltd	NV Bekaert SA
Hokuetsu Kishu Paper Co., Ltd.	LCY Chemical corp.	OceanaGold Corporation
Huabao International Holdings Limited	Lee and Man Paper Manufacturing Limited	Oeneo SA
Huaxin Cement Co., Ltd.	Lenzing Aktiengesellschaft	Oji Holdings Corporation
Huchems Fine Chemical Corporation	Linde Aktiengesellschaft	Olin Corporation
Huhtamäki Oyj	Lock&Lock Co., Ltd.	Omnia Holdings Limited
Huntsman Corporation	Long Chen Paper Co., Ltd.	Orica Limited
Hyundai Steel Company	Lotte Chemical Corporation	Oriental Union Chemical Corporation
Iluka Resources Limited	Lotte Fine Chemical Co., Ltd.	Osaka Soda Co., Ltd.
Imerys SA	Louisiana-Pacific Corporation	Osaka Steel Co., Ltd.
Incitec Pivot Limited	Lucara Diamond Corp.	Owens-Illinois, Inc.
Indorama Ventures Public Company Limited	Lundin Mining Corporation	OZ Minerals Limited
Industrias Peñoles, S.A.B. de C.V.	Marshalls plc	P. H. Glatfelter Company
Innophos Holdings, Inc.	Martin Marietta Materials, Inc.	Packaging Corporation of America
Innospec Inc.	Maruichi Steel Tube Ltd.	PAO Severstal
Interfor Corporation	Materion Corporation	Papeles y Cartones de Europa, S.A.
International Paper Company	Mercer International Inc.	Perusahaan Perseroan (Persero) PT Aneka Tambang Tbk
Intertape Polymer Group Inc.	Methanex Corporation	Petkim Petrokimya Holding Anonim Sirketi
Ishihara Sangyo Kaisha, Ltd.	Metsä Board Oyj	Petra Diamonds Limited
Israel Chemicals Ltd.	Midas Holdings Limited	Petronas Chemicals Group Berhad
J.K. Cement Limited	Mineral Resources Limited	PI Industries Limited
JK Lakshmi Cement Limited	Minerals Technologies Inc.	PJSC PhosAgro
Johnson Matthey Plc	Miquel y Costas & Miquel, S.A.	Poongsan Holdings Corporation
JSP Corporation	Mitsubishi Gas Chemical Company, Inc.	Posco Chemtech Company Ltd.
JSR Corporation	Mitsubishi Steel Mfg. Co., Ltd.	PPC Ltd
JSW Steel Limited	Mitsui Chemicals, Inc.	PPG Industries, Inc.
K+S Aktiengesellschaft	MOIL Limited	Praxair, Inc.
Kaiser Aluminum Corporation	Mondi plc	PT Holcim Indonesia Tbk
Kansai Nerolac Paints Limited	Monsanto India Limited	PT Indocement Tunggal Prakarsa Tbk
Kansai Paint Co., Ltd.	Mpact Limited	PT Semen Indonesia (Persero) Tbk
Kanto Denka Kogyo Co., Ltd.	Namhae Chemical Corporation	
Kemira Oyj	Neenah, Inc.	
Kirkland Lake Gold Ltd.	Nevsun Resources Ltd.	
Kisco Corp.	Newmont Mining Corporation	
	Nickel Asia Corporation	
	Nihon Nohyaku Co., Ltd.	

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PT Timah (Persero) Tbk	Songwon Industrial Co., Ltd.	Toyo Seikan Group Holdings, Ltd.
Public Joint Stock Company ALROSA	Sonoco Products Company	Tredegar Corporation
Public Joint Stock Company Mining and Metallurgical Company Norilsk Nickel	Soulbrain Co.,Ltd.	TSRC Corporation
Qatar National Cement Company (Q.P.S.C.)	Southern Copper Corporation	Tubacex, S.A.
Quaker Chemical Corporation	Ssangyong Cement Industrial Co., Ltd.	Tung Ho Steel Enterprise Corporation
Rallis India Limited	Steel Dynamics, Inc.	UACJ Corporation
Randgold Resources Limited	Stella Chemifa Corporation	Ube Industries, Ltd.
Regis Resources Limited	Stella-Jones Inc.	UltraTech Cement Limited
Reliance Steel & Aluminum Co.	Stepan Company	UNID Company Ltd.
Rengo Co., Ltd.	Sto SE & Co. KGaA	Universal Cement Corporation
Resolute Mining Limited	Stora Enso Oyj	UPC Technology Corporation
Rio Tinto plc	STP&I Public Company Limited	UPL Limited
RPC Group Plc	Sumitomo Metal Mining Co., Ltd.	UPM-Kymmene Oyj
RPM International Inc.	Sumitomo Osaka Cement Co., Ltd.	USI Corporation
Sakai Chemical Industry Co., Ltd.	Sumitomo Seika Chemicals Company Limited	Vale S.A.
Sakata INX Corporation	SunCoke Energy, Inc.	Vicat SA
Sam Kwang Glass Co., Ltd.	Synthomer plc	Victrex plc
San Fang Chemical Industry Co., Ltd.	Synthos S.A.	Vinati Organics Limited
Sandfire Resources NL	Ta Chen Stainless Pipe Co., Ltd.	Voestalpine AG
Sanyo Chemical Industries Ltd.	Taekwang Industrial Co., Ltd.	Vulcan Materials Company
Sanyo Special Steel Co., Ltd.	Taiwan Cement Corp.	W. R. Grace & Co.
Saracen Mineral Holdings Limited	Taiwan Fertilizer Co., Ltd.	Wacker Chemie AG
Schweitzer-Mauduit International, Inc.	Taiwan Hon Chuan Enterprise Co., Ltd.	West Fraser Timber Co. Ltd.
SeAH Besteel Corporation	Taiwan Styrene Monomer Corporation	Western Forest Products Inc.
SeAH Steel Corporation	Taiyo Holdings Co., Ltd.	WestRock Company
Sekisui Plastics Co., Ltd.	Taiyo Nippon Sanso Corporation	Wheaton Precious Metals Corp.
SEMAFO Inc.	Takasago International Corporation	Winpak Ltd.
Shandong Chenming Paper Holdings Limited	Teck Resources Limited	Wonik Materials Co., Ltd.
Shin-Etsu Polymer Co.,Ltd.	Tenma Corporation	W-SCOPE Corporation
Shinkong Synthetic Fibers Corporation	The India Cements Limited	Yamato Kogyo Co., Ltd.
Shougang Fushan Resources Group Limited	The Navigator Company, S.A.	YC Inox Co., Ltd.
Sidi Kerir Petrochemicals Co.	The Pack Corporation	Yeong Guan Energy Technology Group Co., Ltd.
Sika AG	The Ramco Cements Limited	YFY Inc.
Silgan Holdings Inc.	The Scotts Miracle-Gro Company	Yieh Phui Enterprise Co., Ltd.
Sinopec Shanghai Petrochemical Company Limited	The Siam Cement Public Company Limited	Yip's Chemical Holdings Limited
SK Discovery Co., Ltd.	Titan Cement Company S.A.	Yodogawa Steel Works, Ltd.
SK Materials Co., Ltd.	Toagosei Co., Ltd.	Youlchon Chemical Co.,Ltd.
SKC Co., Ltd.	Tokushu Tokai Paper Co., Ltd.	Yung Chi Paint & Varnish Mfg. Co.,Ltd
Smurfit Kappa Group plc	Tokyo Ohka Kogyo Co., Ltd.	ZEON Corporation
Sociedad Química y Minera de Chile S.A.	Ton Yi Industrial Corp.	Zhaojin Mining Industry Company Limited
Soda Sanayii A.S.	Tosoh Corporation	Zignago Vetro S.p.A.
Solvay SA	Toyo Ink SC Holdings Co., Ltd.	Zijin Mining Group Company Limited
	Toyo Kohan Co., Ltd.	
		GICS 1510
		Aarti Industries Limited
		ACC Limited
		Acerinox, S.A.
		Adelaide Brighton Limited

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African Rainbow Minerals Limited	Centerra Gold Inc.	Essel Propack Limited
Agrium Inc.	Century Plyboards (India) Limited	Eternal Materials Co., Ltd.
Aichi Steel Corporation	Century Textiles and Industries Limited	Eugene Corporation
Air Liquide, société anonyme	CF Industries Holdings, Inc.	Everlight Chemical Industrial Corporation
Air Products and Chemicals, Inc.	Chase Corporation	Feng Hsin Steel Co.,Ltd
AK Holdings, Inc.	CHC Resources Corporation	Ferrexpo Plc
Akçansa Çimento Sanayi ve Ticaret A.S.	Cheng Loong Corporation	First Quantum Minerals Ltd.
Akzo Nobel India Limited	China BlueChemical Ltd	FMC Corporation
Akzo Nobel N.V.	China General Plastics Corporation	Foosung Co., Ltd.
Albemarle Corporation	China Gold International Resources Corp. Ltd.	Formosa Chemicals & Fibre Corporation
Alexandria Mineral Oils Company	China Metal Products Co., Ltd.	Formosa Plastics Corporation
Altri, S.G.P.S., S.A.	China Steel Chemical Corporation	Formosan Rubber Group Inc.
Ambuja Cements Limited	Chugoku Marine Paints, Ltd.	Fortescue Metals Group Limited
Amtcor Limited	Çimsa Çimento Sanayi ve Ticaret Anonim Sirketi	FP Corporation
American Vanguard Corporation	Clariant AG	Franco-Nevada Corporation
AngloGold Ashanti Limited	Commercial Metals Company	Fresnillo PLC
Anhui Conch Cement Company Limited	Companhia Siderúrgica Nacional	Frutarom Industries Ltd.
Antofagasta plc	Compañía de Minas Buenaventura S.A.A.	Fufeng Group Limited
Arkema S.A.	Compass Minerals International, Inc.	Fuji Seal International, Inc.
Asahi Holdings, Inc.	Coromandel International Limited	Fujimori Kogyo Co., Ltd.
Asahi Kasei Corporation	CPMC Holdings Limited	Fuso Chemical Co.,Ltd.
Ashland Global Holdings Inc.	Croda International plc	Gerdau S.A.
Asia Cement (China) Holdings Corporation	Da Ming International Holdings Limited	Gloria Material Technology Corp.
Asia Cement Corporation	Daicel Corporation	Godrej Industries Limited
Asia Polymer Corporation	Daiken Corporation	Grand Pacific Petrochemical Corporation
Asian Paints Limited	Dainichiseika Color & Chemicals Mfg. Co., Ltd.	Graphic Packaging Holding Company
Assore Limited	Dalmia Bharat Limited	Grasim Industries Limited
Aurubis AG	Deltic Timber Corporation	Great China Metal Ind. Co., Ltd.
Avery Dennison Corporation	Denka Company Limited	Greatview Aseptic Packaging Co.
Ball Corporation	Dhanuka Agritech Limited	Greenply Industries Limited
BASF India Limited	DIC Corporation	Grupo Argos S.A.
BASF SE	Dominion Diamond Corporation	Grupo México, S.A.B. de C.V.
Bayer CropScience Limited	Domtar Corporation	Gübre Fabrikalari T.A.S.
Bemis Company, Inc.	Dongjin Semichem Co., Ltd.	Gujarat Fluorochemicals Limited
BHP Billiton Limited	Dongwha Enterprise Co., Ltd.	Gujarat Narmada Valley Fertilizers & Chemicals Limited
BillerudKorsnäs AB (publ)	DS Smith Plc	Gurit Holding AG
Boliden AB	Eagle Materials Inc.	H&R GmbH & Co. KGaA
Boral Limited	Eastman Chemical Company	H.B. Fuller Company
Boryszew S.A.	Elementis plc	Hanil Cement. Co., Ltd.
Braskem S.A.	EMS-Chemie Holding AG	Hankuk Carbon Co., Ltd.
Brickworks Limited	ENCE Energía y Celulosa, S.A.	Hansol Chemical Co., Ltd.
Buzzi Unicem SpA	Eregli Demir ve Çelik Fabrikalari T.A.S.	Haynes International, Inc.
C.I. Takiron Corporation		Hecla Mining Company
Cabot Corporation		HeidelbergCement India Limited
Calgon Carbon Corporation		Hexpol AB (Publ)
Canfor Corporation		Hindalco Industries Limited
Carpenter Technology Corporation		
CCL Industries Inc.		
Celanese Corporation		
Cementir Holding S.p.A.		
Cementos Argos S.A.		

2017 Valuation Handbook – International Industry Cost of Capital (data through September 30, 2017); Company and GICS List

Hitachi Chemical Company, Ltd.	Kyoei Steel Ltd.	Northern Star Resources Limited
Hitachi Metals, Ltd.	Labrador Iron Ore Royalty Corp.	Novozymes A/S
Ho Tung Chemical Corp.	Lafarge Malaysia Berhad	Nucor Corporation
Hokuetsu Kishu Paper Co., Ltd.	LafargeHolcim Ltd	Nufarm Limited
Huabao International Holdings Limited	LCY Chemical corp.	Nutrien Ltd.
Huaxin Cement Co., Ltd.	Lee and Man Paper Manufacturing Limited	NV Bekaert SA
Huchems Fine Chemical Corporation	Lenzing Aktiengesellschaft	OceanaGold Corporation
Huhtamäki Oyj	Linde Aktiengesellschaft	Oeneo SA
Huntsman Corporation	Lock&Lock Co., Ltd.	Oji Holdings Corporation
Hyundai Steel Company	Long Chen Paper Co., Ltd.	Olin Corporation
Iluka Resources Limited	Lotte Chemical Corporation	Omnia Holdings Limited
Imerys SA	Lotte Fine Chemical Co., Ltd.	Orica Limited
Incitec Pivot Limited	Louisiana-Pacific Corporation	Oriental Union Chemical Corporation
Indorama Ventures Public Company Limited	Lucara Diamond Corp.	Osaka Soda Co., Ltd.
Industrias Peñoles, S.A.B. de C.V.	Lundin Mining Corporation	Osaka Steel Co., Ltd.
Innophos Holdings, Inc.	Marshalls plc	Owens-Illinois, Inc.
Innospec Inc.	Martin Marietta Materials, Inc.	OZ Minerals Limited
Interfor Corporation	Maruichi Steel Tube Ltd.	P. H. Glatfelter Company
International Paper Company	Materion Corporation	Packaging Corporation of America
Intertape Polymer Group Inc.	Mercer International Inc.	PAO Severstal
Ishihara Sangyo Kaisha, Ltd.	Methanex Corporation	Papeles y Cartones de Europa, S.A.
Israel Chemicals Ltd.	Metsä Board Oyj	Perusahaan Perseroan (Persero) PT Aneka Tambang Tbk
J.K. Cement Limited	Midas Holdings Limited	Petkim Petrokimya Holding Anonim Sirketi
JK Lakshmi Cement Limited	Mineral Resources Limited	Petra Diamonds Limited
Johnson Matthey Plc	Minerals Technologies Inc.	Petronas Chemicals Group Berhad
JSP Corporation	Miquel y Costas & Miquel, S.A.	PI Industries Limited
JSR Corporation	Mitsubishi Gas Chemical Company, Inc.	PJSC PhosAgro
JSW Steel Limited	Mitsubishi Steel Mfg. Co., Ltd.	Poongsan Holdings Corporation
K+S Aktiengesellschaft	Mitsui Chemicals, Inc.	Posco Chemtech Company Ltd.
Kaiser Aluminum Corporation	MOIL Limited	PPC Ltd
Kansai Nerolac Paints Limited	Mondi plc	PPG Industries, Inc.
Kansai Paint Co., Ltd.	Monsanto India Limited	Praxair, Inc.
Kanto Denka Kogyo Co., Ltd.	Mpact Limited	PT Holcim Indonesia Tbk
Kemira Oyj	Namhae Chemical Corporation	PT Indocement Tunggul Prakarsa Tbk
Kirkland Lake Gold Ltd.	Neenah, Inc.	PT Semen Indonesia (Persero) Tbk
Kisico Corp.	Nevsun Resources Ltd.	PT Timah (Persero) Tbk
KisWire Ltd.	Newmont Mining Corporation	Public Joint Stock Company ALROSA
Klabin S.A.	Nickel Asia Corporation	Public Joint Stock Company Mining and Metallurgical Company Norilsk Nickel
Koatsu Gas Kogyo Co., Ltd.	Nihon Nohyaku Co., Ltd.	Qatar National Cement Company (Q.P.S.C.)
Kolon Industries, Inc.	Nine Dragons Paper (Holdings) Limited	Quaker Chemical Corporation
Konishi Co., Ltd.	Nippon Denko Co., Ltd.	Rallis India Limited
Korea Petrochemical Ind. Co., Ltd.	Nippon Light Metal Holdings Company, Ltd.	Randgold Resources Limited
Korea Zinc Co., Ltd.	Nippon Paint Holdings Co., Ltd.	Regis Resources Limited
Kraton Corporation	Nippon Paper Industries Co., Ltd.	
Kukdo Chemical Co., Ltd.	Nippon Shokubai Co., Ltd.	
Kumho Petrochemical Co., Ltd.	NIPPON STEEL & SUMITOMO METAL CORP	
Kumiai Chemical Industry Co., Ltd.	Nittetsu Mining Co., Ltd.	
	Norbord Inc.	

2017 Valuation Handbook – International Industry Cost of Capital (data through September 30, 2017); Company and GICS List

Reliance Steel & Aluminum Co.	STP&I Public Company Limited	Corporation
Rengo Co., Ltd.	Sumitomo Metal Mining Co., Ltd.	UPL Limited
Resolute Mining Limited	Sumitomo Osaka Cement Co., Ltd.	UPM-Kymmene Oyj
Rio Tinto plc	Sumitomo Seika Chemicals Company Limited	USI Corporation
RPC Group Plc	SunCoke Energy, Inc.	Vale S.A.
RPM International Inc.	Synthomer plc	Vicat SA
Sakai Chemical Industry Co., Ltd.	Synthos S.A.	Victrex plc
Sakata INX Corporation	Ta Chen Stainless Pipe Co., Ltd.	Vinati Organics Limited
Sam Kwang Glass Co., Ltd.	Taekwang Industrial Co., Ltd.	Voestalpine AG
San Fang Chemical Industry Co., Ltd.	Taiwan Cement Corp.	Vulcan Materials Company
Sandfire Resources NL	Taiwan Fertilizer Co., Ltd.	W. R. Grace & Co.
Sanyo Chemical Industries Ltd.	Taiwan Hon Chuan Enterprise Co., Ltd.	Wacker Chemie AG
Sanyo Special Steel Co., Ltd.	Taiwan Styrene Monomer Corporation	West Fraser Timber Co. Ltd.
Saracen Mineral Holdings Limited	Taiyo Holdings Co., Ltd.	Western Forest Products Inc.
Schweitzer-Mauduit International, Inc.	Taiyo Nippon Sanso Corporation	WestRock Company
SeAH Besteel Corporation	Takasago International Corporation	Wheaton Precious Metals Corp.
SeAH Steel Corporation	Teck Resources Limited	Winpak Ltd.
Sekisui Plastics Co., Ltd.	Tenma Corporation	Wonik Materials Co., Ltd.
SEMAFO Inc.	The India Cements Limited	W-SCOPE Corporation
Shandong Chenming Paper Holdings Limited	The Navigator Company, S.A.	Yamato Kogyo Co., Ltd.
Shin-Etsu Polymer Co.,Ltd.	The Pack Corporation	YC Inox Co., Ltd.
Shinkong Synthetic Fibers Corporation	The Ramco Cements Limited	Yeong Guan Energy Technology Group Co., Ltd.
Shougang Fushan Resources Group Limited	The Scotts Miracle-Gro Company	YFY Inc.
Sidi Kerir Petrochemicals Co.	The Siam Cement Public Company Limited	Yieh Phui Enterprise Co., Ltd.
Sika AG	Titan Cement Company S.A.	Yip's Chemical Holdings Limited
Silgan Holdings Inc.	Toagosei Co., Ltd.	Yodogawa Steel Works, Ltd.
Sinopec Shanghai Petrochemical Company Limited	Tokushu Tokai Paper Co., Ltd.	Youlchon Chemical Co.,Ltd.
SK Discovery Co., Ltd.	Tokyo Ohka Kogyo Co., Ltd.	Yung Chi Paint & Varnish Mfg. Co.,Ltd
SK Materials Co., Ltd.	Ton Yi Industrial Corp.	ZEON Corporation
SKC Co., Ltd.	Tosoh Corporation	Zhaojin Mining Industry Company Limited
Smurfit Kappa Group plc	Toyo Ink SC Holdings Co., Ltd.	Zignago Vetro S.p.A.
Sociedad Química y Minera de Chile S.A.	Toyo Kohan Co., Ltd.	Zijin Mining Group Company Limited
Soda Sanayii A.S.	Toyo Seikan Group Holdings, Ltd.	
Solvay SA	Tredegar Corporation	
Songwon Industrial Co., Ltd.	TSRC Corporation	
Sonoco Products Company	Tubacex, S.A.	
Soulbrain Co.,Ltd.	Tung Ho Steel Enterprise Corporation	
Southern Copper Corporation	UACJ Corporation	
Ssangyong Cement Industrial Co., Ltd.	Ube Industries, Ltd.	
Steel Dynamics, Inc.	UltraTech Cement Limited	
Stella Chemifa Corporation	UNID Company Ltd.	
Stella-Jones Inc.	Universal Cement Corporation	
Stepan Company	UPC Technology	
Sto SE & Co. KGaA		
Stora Enso Oyj		

GICS 151010

Aarti Industries Limited
 Agrium Inc.
 Air Liquide, société anonyme
 Air Products and Chemicals, Inc.
 AK Holdings, Inc.
 Akzo Nobel India Limited
 Akzo Nobel N.V.
 Albemarle Corporation
 Alexandria Mineral Oils Company
 American Vanguard Corporation
 Ashland Global Holdings Inc.
 Asia Polymer Corporation
 Asian Paints Limited
 BASF India Limited

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BASF SE	Huabao International Holdings Limited	PPG Industries, Inc.
Bayer CropScience Limited	Huchems Fine Chemical Corporation	Praxair, Inc.
Braskem S.A.	Huntsman Corporation	Quaker Chemical Corporation
C.I. Takiron Corporation	Incitec Pivot Limited	Rallis India Limited
Cabot Corporation	Indorama Ventures Public Company Limited	RPM International Inc.
Calgon Carbon Corporation	Innophos Holdings, Inc.	Sakai Chemical Industry Co., Ltd.
Celanese Corporation	Innospec Inc.	Sakata INX Corporation
CF Industries Holdings, Inc.	Ishihara Sangyo Kaisha, Ltd.	San Fang Chemical Industry Co., Ltd.
Chase Corporation	Israel Chemicals Ltd.	Sanyo Chemical Industries Ltd.
China BlueChemical Ltd	JSP Corporation	Sekisui Plastics Co., Ltd.
China General Plastics Corporation	JSR Corporation	Shin-Etsu Polymer Co.,Ltd.
China Steel Chemical Corporation	Kansai Nerolac Paints Limited	Shinkong Synthetic Fibers Corporation
Chugoku Marine Paints, Ltd.	Kansai Paint Co., Ltd.	Sidi Kerir Petrochemicals Co.
Clariant AG	Kanto Denka Kogyo Co., Ltd.	Sika AG
Coromandel International Limited	Kemira Oyj	Sinopec Shanghai Petrochemical Company Limited
Croda International plc	Koatsu Gas Kogyo Co., Ltd.	SK Discovery Co., Ltd.
Daicel Corporation	Kolon Industries, Inc.	SK Materials Co., Ltd.
Dainichiseika Color & Chemicals Mfg. Co., Ltd.	Konishi Co., Ltd.	Soda Sanayii A.S.
Denka Company Limited	Korea Petrochemical Ind. Co., Ltd.	Solvay SA
Dhanuka Agritech Limited	Kraton Corporation	Songwon Industrial Co., Ltd.
DIC Corporation	Kukdo Chemical Co., Ltd.	Soulbrain Co.,Ltd.
Dongjin Semichem Co., Ltd.	Kumho Petrochemical Co., Ltd.	Stella Chemifa Corporation
Eastman Chemical Company	Kumiai Chemical Industry Co., Ltd.	Stepan Company
Elementis plc	LCY Chemical corp.	Sumitomo Seika Chemicals Company Limited
EMS-Chemie Holding AG	Lenzing Aktiengesellschaft	Synthomer plc
Eternal Materials Co., Ltd.	Linde Aktiengesellschaft	Synthos S.A.
Everlight Chemical Industrial Corporation	Lotte Chemical Corporation	Taekwang Industrial Co., Ltd.
FMC Corporation	Lotte Fine Chemical Co., Ltd.	Taiwan Fertilizer Co., Ltd.
Foosung Co., Ltd.	Methanex Corporation	Taiwan Styrene Monomer Corporation
Formosa Chemicals & Fibre Corporation	Mitsubishi Gas Chemical Company, Inc.	Taiyo Holdings Co., Ltd.
Formosan Rubber Group Inc.	Mitsui Chemicals, Inc.	Taiyo Nippon Sanso Corporation
Frutarom Industries Ltd.	Monsanto India Limited	Takasago International Corporation
Fufeng Group Limited	Namhae Chemical Corporation	Tenma Corporation
Fujimori Kogyo Co., Ltd.	Nihon Nohyaku Co., Ltd.	The Scotts Miracle-Gro Company
Fuso Chemical Co.,Ltd.	Nippon Paint Holdings Co., Ltd.	Toagosei Co., Ltd.
Godrej Industries Limited	Nippon Shokubai Co., Ltd.	Tokyo Ohka Kogyo Co., Ltd.
Grand Pacific Petrochemical Corporation	Novozymes A/S	Tosoh Corporation
Gübre Fabrikalari T.A.S.	Nufarm Limited	Toyo Ink SC Holdings Co., Ltd.
Gujarat Fluorochemicals Limited	Nutrien Ltd.	TSRC Corporation
Gujarat Narmada Valley Fertilizers & Chemicals Limited	Olin Corporation	UNID Company Ltd.
Gurit Holding AG	Orica Limited	UPC Technology Corporation
H&R GmbH & Co. KGaA	Oriental Union Chemical Corporation	UPL Limited
H.B. Fuller Company	Osaka Soda Co., Ltd.	USI Corporation
Hankuk Carbon Co., Ltd.	Petkim Petrokimya Holding Anonim Sirketi	Victrex plc
Hansol Chemical Co., Ltd.	Petronas Chemicals Group Berhad	Vinati Organics Limited
Hexpol AB (Publ)	PI Industries Limited	W. R. Grace & Co.
Hitachi Chemical Company, Ltd.	PJSC PhosAgro	
Ho Tung Chemical Corp.		

Wacker Chemie AG
 Wonik Materials Co., Ltd.
 W-SCOPE Corporation
 Yip's Chemical Holdings Limited
 Yung Chi Paint & Varnish Mfg. Co.,Ltd
 ZEON Corporation

The India Cements Limited
 The Ramco Cements Limited
 Titan Cement Company S.A.
 UltraTech Cement Limited
 Universal Cement Corporation
 Vicat SA
 Vulcan Materials Company

Asahi Holdings, Inc.
 Assore Limited
 Aurubis AG
 BHP Billiton Limited
 Boliden AB
 Boryszew S.A.
 Carpenter Technology Corporation
 Centerra Gold Inc.

GICS 151020

ACC Limited
 Adelaide Brighton Limited
 Akçansa Çimento Sanayi ve Ticaret A.S.
 Ambuja Cements Limited
 Anhui Conch Cement Company Limited
 Asia Cement (China) Holdings Corporation
 Asia Cement Corporation
 Boral Limited
 Brickworks Limited
 Buzzi Unicem SpA
 Cementir Holding S.p.A.
 Cementos Argos S.A.
 CHC Resources Corporation
 Çimsa Çimento Sanayi ve Ticaret Anonim Sirketi
 Dalmia Bharat Limited
 Eagle Materials Inc.
 Eugene Corporation
 Grupo Argos S.A.
 Hanil Cement. Co., Ltd.
 HeidelbergCement India Limited
 Huaxin Cement Co., Ltd.
 Imerys SA
 J.K. Cement Limited
 JK Lakshmi Cement Limited
 Lafarge Malaysia Berhad
 LafargeHolcim Ltd
 Marshalls plc
 Martin Marietta Materials, Inc.
 Posco Chemtech Company Ltd.
 PPC Ltd
 PT Holcim Indonesia Tbk
 PT Indocement Tunggal Prakarsa Tbk
 PT Semen Indonesia (Persero) Tbk
 Qatar National Cement Company (Q.P.S.C.)
 Ssangyong Cement Industrial Co., Ltd.
 Sto SE & Co. KGaA
 Sumitomo Osaka Cement Co., Ltd.
 Taiwan Cement Corp.

GICS 151030

Amcor Limited
 Ball Corporation
 Bemis Company, Inc.
 BillerudKorsnäs AB (publ)
 CCL Industries Inc.
 Cheng Loong Corporation
 CPMC Holdings Limited
 DS Smith Plc
 Essel Propack Limited
 FP Corporation
 Fuji Seal International, Inc.
 Graphic Packaging Holding Company
 Great China Metal Ind. Co., Ltd.
 Greatview Aseptic Packaging Co.
 Huhtamäki Oyj
 International Paper Company
 Intertape Polymer Group Inc.
 Lock&Lock Co., Ltd.
 Mpact Limited
 Oeneo SA
 Owens-Illinois, Inc.
 Packaging Corporation of America
 Rengo Co., Ltd.
 RPC Group Plc
 Sam Kwang Glass Co., Ltd.
 Silgan Holdings Inc.
 Smurfit Kappa Group plc
 Sonoco Products Company
 Taiwan Hon Chuan Enterprise Co., Ltd.
 The Pack Corporation
 Toyo Seikan Group Holdings, Ltd.
 Winpak Ltd.
 Youlchon Chemical Co.,Ltd.
 Zignago Vetro S.p.A.

GICS 151040

Acerinox, S.A.
 African Rainbow Minerals Limited
 Aichi Steel Corporation
 AngloGold Ashanti Limited
 Antofagasta plc

China Gold International Resources Corp. Ltd.
 China Metal Products Co., Ltd.
 Commercial Metals Company
 Companhia Siderúrgica Nacional
 Compañía de Minas Buenaventura S.A.A.
 Compass Minerals International, Inc.
 Da Ming International Holdings Limited
 Dominion Diamond Corporation
 Eregli Demir ve Çelik Fabrikalari T.A.S.
 Feng Hsin Steel Co.,Ltd
 Ferrexpo Plc
 First Quantum Minerals Ltd.
 Fortescue Metals Group Limited
 Franco-Nevada Corporation
 Fresnillo PLC
 Gerdau S.A.
 Gloria Material Technology Corp.
 Grupo México, S.A.B. de C.V.
 Haynes International, Inc.
 Hecla Mining Company
 Hindalco Industries Limited
 Hitachi Metals, Ltd.
 Hyundai Steel Company
 Iluka Resources Limited
 Industrias Peñoles, S.A.B. de C.V.
 JSW Steel Limited
 Kaiser Aluminum Corporation
 Kirkland Lake Gold Ltd.
 Kisco Corp.
 KisWire Ltd.
 Korea Zinc Co., Ltd.
 Kyoei Steel Ltd.
 Labrador Iron Ore Royalty Corp.
 Lucara Diamond Corp.
 Lundin Mining Corporation
 Maruichi Steel Tube Ltd.
 Materion Corporation

Midas Holdings Limited
 Mineral Resources Limited
 Mitsubishi Steel Mfg. Co., Ltd.
 MOIL Limited
 Nevsun Resources Ltd.
 Newmont Mining Corporation
 Nickel Asia Corporation
 Nippon Denko Co., Ltd.
 Nippon Light Metal Holdings Company, Ltd.
 NIPPON STEEL & SUMITOMO METAL CORP
 Nittetsu Mining Co., Ltd.
 Northern Star Resources Limited
 Nucor Corporation
 NV Bekaert SA
 OceanaGold Corporation
 Osaka Steel Co., Ltd.
 OZ Minerals Limited
 PAO Severstal
 Perusahaan Perseroan (Persero) PT Aneka Tambang Tbk
 Petra Diamonds Limited
 Poongsan Holdings Corporation
 PT Timah (Persero) Tbk
 Public Joint Stock Company ALROSA
 Public Joint Stock Company Mining and Metallurgical Company Norilsk Nickel
 Randgold Resources Limited
 Regis Resources Limited
 Reliance Steel & Aluminum Co.
 Resolute Mining Limited
 Rio Tinto plc
 Sandfire Resources NL
 Sanyo Special Steel Co., Ltd.
 Saracen Mineral Holdings Limited
 SeAH Besteel Corporation
 SeAH Steel Corporation
 SEMAFO Inc.
 Shougang Fushan Resources Group Limited
 Southern Copper Corporation
 Steel Dynamics, Inc.
 STP&I Public Company Limited
 Sumitomo Metal Mining Co., Ltd.
 SunCoke Energy, Inc.
 Ta Chen Stainless Pipe Co., Ltd.

Teck Resources Limited
 Toyo Kohan Co., Ltd.
 Tubacex, S.A.
 Tung Ho Steel Enterprise Corporation
 UACJ Corporation
 Vale S.A.
 Voestalpine AG
 Wheaton Precious Metals Corp.
 Yamato Kogyo Co., Ltd.
 YC Inox Co., Ltd.
 Yeong Guan Energy Technology Group Co., Ltd.
 Yieh Phui Enterprise Co., Ltd.
 Yodogawa Steel Works, Ltd.
 Zhaojin Mining Industry Company Limited
 Zijin Mining Group Company Limited

GICS 151050

Altri, S.G.P.S., S.A.
 Canfor Corporation
 Century Plyboards (India) Limited
 Daiken Corporation
 Deltic Timber Corporation
 Domtar Corporation
 Dongwha Enterprise Co., Ltd.
 ENCE Energía y Celulosa, S.A.
 Greenply Industries Limited
 Hokuetsu Kishu Paper Co., Ltd.
 Interfor Corporation
 Lee and Man Paper Manufacturing Limited
 Long Chen Paper Co., Ltd.
 Louisiana-Pacific Corporation
 Mercer International Inc.
 Metsä Board Oyj
 Miquel y Costas & Miquel, S.A.
 Mondi plc
 Neenah, Inc.
 Nine Dragons Paper (Holdings) Limited
 Nippon Paper Industries Co., Ltd.
 Norbord Inc.
 Oji Holdings Corporation
 P. H. Glatfelter Company
 Schweitzer-Mauduit International, Inc.
 Shandong Chenming Paper Holdings Limited
 Stella-Jones Inc.
 The Navigator Company,

S.A.
 Tokushu Tokai Paper Co., Ltd.
 UPM-Kymmene Oyj
 West Fraser Timber Co. Ltd.
 Western Forest Products Inc.
 YFY Inc.

GICS 20

A. O. Smith Corporation
 A.P. Møller - Mærsk A/S
 AAON, Inc.
 AAR Corp.
 AB Volvo (publ)
 Abertis Infraestructuras, S.A.
 ABM Industries Incorporated
 Aboitiz Equity Ventures, Inc.
 AcBel Polytech Inc.
 ACCO Brands Corporation
 ACS, Actividades de Construcción
 Acuity Brands, Inc.
 Adani Enterprises Limited
 Adani Ports and Special Economic Zone Limited
 Adecco Group AG
 Advan Co., Ltd.
 AECOM
 Aecon Group Inc.
 Aegean Airlines S.A.
 Aegion Corporation
 Aeon Delight Co., Ltd.
 Aéroports de Paris SA
 AeroVironment, Inc.
 ÅF AB (publ)
 AGCO Corporation
 Aggreko plc
 AIA Engineering Limited
 Aichi Corporation
 Aida Engineering, Ltd.
 Air Arabia PJSC
 Air China Limited
 Air New Zealand Limited
 Air Transport Services Group, Inc.
 AirAsia Berhad
 Airbus SE
 Aircastle Limited
 Airports of Thailand Public Company Limited
 AirTAC International Group
 Alamo Group Inc.
 Alfa Laval AB (publ)
 Allcargo Logistics Limited
 Allegiant Travel Company
 ALS Limited
 Alstom SA
 Amada Holdings Co., Ltd.
 Amadeus FiRe AG

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Amara Raja Batteries Limited	Berli Jucker Public Company Limited	China Airlines, Ltd.
AMERCO	Bertrandt	China Communications Construction
American Railcar Industries, Inc.	Aktiengesellschaft BES Engineering Corporation	China Everbright International Limited
American Woodmark Corporation	Bharat Heavy Electricals Limited	China High Speed Transmission Equipment Group Co., Ltd.
ANA Holdings Inc.	Biesse S.p.A.	China Lesso Group Holdings Limited
Andritz AG	Bilfinger SE	China Merchants Port Holdings Company Limited
ANEST IWATA Corporation	Bird Construction Inc.	China Railway Construction Corp.
Anhui Expressway Company Limited	Bizlink Holding Inc.	China Railway Group Limited
Ansaldo STS S.p.A.	Blue Dart Express Limited	China Singyes Solar Technologies Holdings Limited
Apogee Enterprises, Inc.	Blue Label Telecoms Limited	China State Construction International Holdings Limited
Applied Industrial Technologies, Inc.	Bobst Group SA	China Yuchai International Limited
ARCADIS NV	Bodycote plc	Chiyoda Corporation
Arcam AB (publ)	Boer Power Holdings Limited	Chongqing Machinery & Electric Co., Ltd.
ArcBest Corporation	Bollore	Chu Kong Shipping Enterprises
Armstrong World Industries, Inc.	Bossard Holding AG	Chudenko Corporation
Asahi Diamond Industrial Co., Ltd.	Brambles Limited	CIMC Enric Holdings Limited
Asahi Glass Co., Ltd.	Brenntag AG	CIMIC Group Limited
Ashok Leyland Limited	Brunel International N.V.	Cintas Corporation
Ashoka Buildcon Limited	Bucher Industries AG	CIRCOR International, Inc.
Ashtead Group plc	Budimex SA	CITIC Limited
ASSA ABLOY AB (publ)	Bunka Shutter Co., Ltd.	CKD Corporation
Assystem SA	Bunzl plc	Clean Harbors, Inc.
Astaldi S.p.A.	Burckhardt Compression Holding AG	Cleanaway Company Limited
Astec Industries, Inc.	Bureau Veritas SA	Colfax Corporation
ASTM S.p.A.	Burkhalter Holding AG	Columbus McKinnon Corporation
Astronics Corporation	Byucksan Corporation	Comfort Systems USA, Inc.
Atlantia S.p.A.	C.H. Robinson Worldwide, Inc.	ComfortDelGro Corporation Limited
Atlas Air Worldwide Holdings, Inc.	Cabcharge Australia Limited	Compagnie de Saint-Gobain S.A.
Atlas Copco AB	CAE Inc.	Compagnie d'Entreprises CFE SA
ATS Automation Tooling Systems Inc.	Canadian National Railway Company	COMSYS Holdings Corporation
Auckland International Airport Limited	Canadian Pacific Railway Limited	Concentric AB (publ)
Aurizon Holdings Limited	Cargotec Corporation	Concord New Energy Group Limited
Austral Limited	Carillion plc	Consolidated Infrastructure Group Limited
AviChina Industry & Technology Company Limited	Caterpillar Inc.	Construcciones y Auxiliar de Ferrocarriles, S.A.
Axon Enterprise, Inc.	CB Industrial Product Holding Berhad	Container Corporation of India Limited
Babcock International Group plc	CCR S.A.	Continental Holdings Corporation
Badger Daylighting Ltd.	Cebu Air, Inc.	
BAE Systems plc	Central Japan Railway Company	
Bangkok Aviation Fuel Serv.	CENTROTEC Sustainable AG	
Barnes Group Inc.	Cera Sanitaryware Limited	
BBA Aviation plc	CEWE Stiftung & Co. KGaA	
Beacon Roofing Supply, Inc.	CG Power and Industrial Solutions Limited	
Beijing Capital International Airport Company Limited	CH. Karnchang Public Company Limited	
BEML Limited	Changchai Company, Limited	
Benefit One Inc.	Chart Industries, Inc.	
Berendsen plc	Chemring Group plc	
Bergman & Beving AB		

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Copart, Inc.	Elanders AB (publ)	Gecoss Corporation
Cosel Co., Ltd.	Elbit Systems Ltd.	Genesee & Wyoming Inc.
Costain Group plc	Electra Ltd	Getlink
Covanta Holding Corporation	Embraer S.A.	Giken Ltd.
Covenant Transportation Group	EMCOR Group, Inc.	GL Events
Cramo Oyj	Encore Wire Corporation	Glory Ltd.
Crane Co.	EnerSys	GP Strategies Corporation
CSBC Corporation, Taiwan	Engineers India Limited	Graco Inc.
CSX Corporation	en-japan inc.	Granite Construction Incorporated
CTCI Corporation	Ennis, Inc.	Great Lakes Dredge & Dock Corporation
CWT Limited	EnPro Industries, Inc.	Greaves Cotton Limited
Daelim Industrial Co., Ltd.	Equifax Inc.	Griffon Corporation
Dai Nippon Printing Co., Ltd.	Essendant Inc.	Groupe CRIT SA
DAIHEN Corporation	eTEC E&C Limited	Grupo Aeroméxico, S.A.B. de C.V.
Daiho Corporation	EVA Airways Corp.	Grupo Aeroportuario del Centro Norte, S. A. B. de C. V.
Daikin Industries,Ltd.	Evergreen Intl. Storage & Trans.	Grupo Aeroportuario del Pacífico, S.A.B. de C.V.
Daiseki Co.,Ltd.	Exchange Income Corporation	Grupo Aeroportuario del Sureste, S. A. B. de C. V.
Daiwa Industries Ltd.	Exco Technologies Limited	Guangdong Yueyun Transportation Company Limited
Dalian Refrigeration Company Limited	Expeditors International of Washington, Inc.	Gujarat Pipavav Port Limited
Danieli & C. Officine Meccaniche S.p.A.	Experian plc	Gunnebo AB
Dart Group plc	Exponent, Inc.	GWA Group Limited
Dassault Aviation SA	Fanuc Corporation	H&E Equipment Services, Inc.
Dätwyler Holding Inc.	Fastenal Company	Haitian International Holdings Limited
Dawonsys Co.,Ltd.	FedEx Corporation	Haldex AB (publ)
Deere & Company	Feintool International Holding AG	Hamburger Hafen und Logistik Aktiengesellschaft
Deluxe Corporation	Fenner PLC	Hanjin Transportation Co., Ltd.
Denyo Co., Ltd.	Ferrovial, S.A.	Hanwa Co., Ltd.
Derichebourg	Finning International Inc.	Hanwha Techwin Co., Ltd.
Deutsche Lufthansa Aktiengesellschaft	Firstgroup plc	Hap Seng Consolidated Berhad
Deutsche Post AG	Flowserve Corporation	Harbin Electric Company Limited
DEUTZ Aktiengesellschaft	FLSmith & Co. A/S	Harim Holdings Co., Ltd.
DFDS A/S	Flughafen Zürich AG	Harmonic Drive Systems Inc.
DMCI Holdings, Inc.	Fluor Corporation	Harris Corporation
DMG Mori Aktiengesellschaft	Force Motors Limited	Haulotte Group SA
DMG Mori Co., Ltd.	Forrester Research, Inc.	Havells India Limited
Donaldson Company, Inc.	Forward Air Corporation	Hawaiian Holdings, Inc.
Dongkuk Structures & Construction	Foshan Electrical and Lighting Co., Ltd.	Hays plc
dormakaba Holding AG	Franklin Electric Co., Inc.	Hazama Ando Corporation
Dover Corporation	Fudo Tetra Corporation	Healthcare Services Group, Inc.
Downer EDI Limited	Fuji Machine Mfg. Co., Ltd.	Heartland Express, Inc.
DP World Limited	Fujitec Co.,Ltd.	Heidrick & Struggles International, Inc.
DSV A/S	Fukuda Corporation	Herman Miller, Inc.
DXP Enterprises, Inc.	Fukushima Industries Corp.	Hexagon Composites ASA
Dycom Industries, Inc.	Fukuyama Transporting Co., Ltd.	Hexcel Corporation
Dynasty Ceramic Public Company Ltd	Funai Soken Holdings Incorporated	
easyJet plc	Furukawa Electric Co., Ltd.	
Ebara Corporation	G4S plc	
Echo Global Logistics, Inc.	Gateway Distriparks Limited	
EcoRodovias Infraestrutur e Logística S.A.	GATX Corporation	
Eicher Motors Limited	GE Power India Limited	
Eiffage SA	GE T&D India Limited	
El Al Israel Airlines Ltd	GEA Group Aktiengesellschaft	
	Geberit AG	

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Hibiya Engineering, Ltd.	Itab Shop Concept AB	Kingspan Group plc
Hino Motors, Ltd.	Itoki Corporation	Kinik Company
Hirata Corporation	IWG PLC	Kintetsu World Express, Inc.
Hisaka Works, Ltd.	J.B. Hunt Transport Services, Inc.	Kirby Corporation
Hitachi Construction Machinery Co., Ltd.	JAC Recruitment Co., Ltd.	KITZ Corporation
Hitachi Transport System, Ltd.	Jacobs Engineering Group Inc.	Knoll, Inc.
Hitachi Zosen Corporation	Jacquet Metal Service SA	Kolon Corporation
Hiwin Technologies Corp.	JAMCO Corporation	Komatsu Ltd.
HNA Infrastructure Company Limited	Japan Airlines Co., Ltd.	Komax Holding AG
HNI Corporation	Japan Airport Terminal Co., Ltd.	Komori Corporation
HOCHTIEF Aktiengesellschaft	Japan Pulp and Paper Company Limited	KONE Oyj
HomeServe plc	Jardine Matheson Holdings Limited	Konecranes Plc
Hong Leong Industries Berhad	Jardine Strategic Holdings Limited	Korea Aerospace Industries, Ltd.
Hoshizaki Corporation	JGC Corporation	Korea Electric Terminal Co., Ltd.
Howden Joinery Group Plc	Jiangsu Expressway Company Limited	Korn/Ferry International
Hub Group, Inc.	John Bean Technologies Corporation	Krones AG
Hubbell Incorporated	Johnson Electric Holdings Limited	Kubota Corporation
Huber+Suhner AG	JSL S.A.	Kuehne + Nagel International AG
Huntington Ingalls Industries, Inc.	JTEKT Corporation	Kumagai Gumi Co., Ltd.
Hy-Lok Corporation, Ltd.	Jungheinrich Aktiengesellschaft	Kung Long Batteries Industrial Co.
Hyundai Corporation	Jvm Co., Ltd.	Kuroda Electric Co., Ltd.
Hyundai Engineering & Construction Co., Ltd.	Kadant Inc.	Kyodo Printing Co., Ltd.
I.M.A. Industria Macchine Automatiche S.p.A.	Kajaria Ceramics Limited	Kyokuto Kaihatsu Kogyo Co., Ltd.
ID Logistics Group SA	Kajima Corporation	Kyowa Exeo Corporation
IDEC Corporation	Kalpataru Power Transmission Limited	Kyudenko Corporation
IHI Corporation	Kaman Corporation	Kyung Dong Navien Co., Ltd.
IHS Markit Ltd.	Kamei Corporation	Lakshmi Machine Works Limited
Iino Kaiun Kaisha, Ltd.	Kamigumi Co., Ltd.	Landstar System, Inc.
iMarketKorea Inc.	Kanamoto Company Ltd.	Legrand SA
IMI plc	Kandenko Co., Ltd.	LG Hausys Ltd.
Implenia AG	Kansas City Southern	LG International Corp.
Inaba Denki Sangyo Co.,Ltd.	Kardex AG	Lincoln Electric Holdings, Inc.
INDUS Holding AG	Kato Works Co., Ltd.	Lindab International AB
Industries Qatar Q.S.C.	KEC International Limited	Lindsay Corporation
Indutrade AB (publ)	Keikyu Corporation	Lisi S.A.
InnerWorkings, Inc.	Keisei Electric Railway Co., Ltd.	LIXIL Group Corporation
Insperty, Inc.	Keller Group plc	Localiza Rent a Car S.A.
Insteel Industries, Inc.	Kelly Services, Inc.	Lockheed Martin Corporation
Interface, Inc.	Kennametal Inc.	Lonking Holdings Limited
International Container Terminal Services, Inc.	KEPCO Engineering & Construction Company, Inc.	Loomis AB (publ)
Interpump Group S.p.A.	KEPCO Plant Service & Engineering Co., Ltd.	LS Corp.
Interserve plc	Kerry TJ Logistics Company Limited	LSIS Co., Ltd.
Intertek Group plc	Kier Group plc	Mabuchi Motor Co., Ltd.
Int'l Consolidated Airlines	Kimball International, Inc.	Maeda Corporation
Invicta Holdings Limited	Kinden Corporation	Maeda Kosen Co., Ltd.
Ioche-Maxion S.A.	King Slide Works Co., Ltd.	MAEDA ROAD CONSTRUCTION Co., Ltd.
IRB Infrastructure Developers Limited		Magellan Aerospace Corporation
IS DongSeo Co., Ltd.		Makino Milling Machine Co., Ltd.
Iseki & Co., Ltd.		Makita Corporation
Isgec Heavy Engineering Limited		

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Malaysia Airports Holdings Berhad	Nichiha Corporation	Park-Ohio Holdings Corp.
MAN SE	Nihon Trim Co., Ltd.	Patrick Industries, Inc.
Manitou BF SA	Nikkon Holdings Co., Ltd.	Penta-Ocean Construction Co., Ltd.
ManpowerGroup Inc.	Nippo Corporation	Per Aarsleff Holding A/S
Marcopolo S.A.	Nippon Densetsu Kogyo Co., Ltd.	Pfeiffer Vacuum Technology AG
Marten Transport, Ltd.	Nippon Express Co., Ltd.	PGT Innovations, Inc.
Marubeni Corporation	Nippon Kanzai Co., Ltd.	Pilot Corporation
Maruzen Showa Unyu Co., Ltd.	NIPPON PARKING DEVELOPMENT Co.,Ltd.	Piraeus Port Authority S.A.
MasTec, Inc.	Nippon Steel & Sumikin Bussan Corp	Pitney Bowes Inc.
Matson, Inc.	Nippon Thompson Co., Ltd.	Ponsse Oyj
Max Co., Ltd.	Nishimatsu Construction Co., Ltd.	Posco Daewoo Corporation
Meggitt PLC	Nishio Rent All Co., Ltd.	Powell Industries, Inc.
Meitec Corporation	Nissin Corporation	Prestige International Inc.
Melrose Industries PLC	Nissin Electric Co.,Ltd.	Programmed Maintenance Services Limited
Mercury Systems, Inc.	Nitta Corporation	Promotora y Operadora de Infraestructura, S. A. B. de C. V.
Metso Corporation	Nitto Kohki Co., Ltd.	Prosegur Compañía de Seguridad
MinebeaMitsumi Inc.	NKT A/S	Proto Labs, Inc.
MISC Berhad	NOMURA Co., Ltd.	Prysmian S.p.A.
Mitie Group plc	Nordex SE	PT Adhi Karya (Persero) Tbk
Mitsubishi Heavy Industries, Ltd.	Norfolk Southern Corporation	PT AKR Corporindo Tbk
Mitsubishi Logistics Corporation	Noritz Corporation	Pt Jasa Marga (Persero) Tbk
Mitsubishi Pencil Co., Ltd.	NORMA Group SE	PT Pembangunan Perumahan (Persero) Tbk
Mitsuboshi Belting Ltd.	Northgate plc	PT Wijaya Karya (Persero) Tbk
Mitsui Engineering & Shipbuilding Co., Ltd.	Northrop Grumman Corporation	QinetiQ Group Plc
Miura Co., Ltd.	Norwegian Air Shuttle ASA	Quanex Building Products Corporation
Mobile Mini, Inc.	NS United Kaiun Kaisha, Ltd.	Quanta Services, Inc.
Monadelphous Group Limited	NTN Corporation	Qube Holdings Limited
MonotaRO Co., Ltd.	NWS Holdings Limited	Raito Kogyo Co., Ltd.
Moog Inc.	Obara Group Incorporated	Ramirent Oyj
Morita Holdings Corporation	Obayashi Corporation	Randstad Holding NV
Morneau Shepell Inc.	OHB SE	RATIONAL Aktiengesellschaft
Mota-Engil, SGPS, S.A.	Oiles Corporation	Raubex Group Limited
MSA Safety Incorporated	Okabe Co., Ltd.	Raytheon Company
MSC Industrial Direct Co., Inc.	Okamura Corporation	RBC Bearings Incorporated
MTU Aero Engines AG	Okuma Corporation	Rechi Precision Co., Ltd.
Mueller Water Products, Inc.	Old Dominion Freight Line, Inc.	Redde plc
Muhibbah Engineering (M) Bhd.	On Assignment, Inc.	Regal Beloit Corporation
Multi-Color Corporation	Orbital ATK, Inc.	Relia, Inc.
Murray & Roberts Holdings Limited	Organo Corporation	RELX PLC
MYR Group Inc.	Orient Overseas (Int'l) Ltd	Republic Services, Inc.
Nabtesco Corporation	OSG Corporation	Resources Connection, Inc.
Nagoya Railroad Co., Ltd.	Oshkosh Corporation	Rexel S.A.
Namura Shipbuilding Co., Ltd.	OSJB Holdings Corporation	Rieter Holding AG
National Central Cooling Company PJSC	Österreichische Post AG	Ritchie Bros. Auctioneers Incorporated
National Express Group PLC	Otokar Otomotiv ve Savunma Sanayi A.S.	Riverstone Holdings Limited
NCC Limited	OUTSOURCING Inc.	Roadrunner Transportation Systems, Inc.
NCI Building Systems, Inc.	PACCAR Inc	Robert Half International Inc.
New Flyer Industries Inc.	PageGroup plc	
NICHIDEN Corporation	Panalpina World Transport (Holding) Ltd.	
	Park24 Co., Ltd.	
	Parker-Hannifin Corporation	

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Rockwell Collins, Inc.	Singapore Technologies Engineering Ltd	TAV Havalimanlari Holding A.S.
Rollins, Inc.	Sinko Industries Ltd.	Team, Inc.
Rolls-Royce Holdings plc	Sino-Thai Engineering and Construction Public Company Limited	TECO Electric & Machinery Co., Ltd.
Roper Technologies, Inc.	Sinotrans Limited	Teikoku Sen-i Co., Ltd.
Royal Boskalis	Sinotruk (Hong Kong) Limited	Tekken Corporation
Westminster N.V.	Sintokogio,Ltd.	Teledyne Technologies Incorporated
RPS Group plc	SITC Int'l Holdings Co. Ltd.	Teleperformance SE
Rush Enterprises, Inc.	SK Holdings Co., Ltd.	Tennant Company
Russel Metals Inc.	Skanska AB (publ)	Terex Corporation
Ryanair Holdings plc	SKP Resources Bhd	Tetra Tech, Inc.
Ryder System, Inc.	SMC Corporation	TFI International Inc.
Ryobi Limited	SNC-Lavalin Group Inc.	Thales S.A.
S&T Dynamics Co. Ltd.	Società Iniziative Autostradali e Servizi S.p.A.	The Advisory Board Company
S-1 Corporation	Sodick Co., Ltd.	The Boeing Company
Saab AB (publ)	Sohgo Security Services Co.,Ltd.	The Brink's Company
Safran SA	Solar A/S	The Go-Ahead Group plc
Saia, Inc.	Somany Ceramics Limited	The Gorman-Rupp Company
Sakai Moving Service Co.,Ltd.	Sotetsu Holdings, Inc.	The Greenbrier Companies, Inc.
Salfacorp S.A.	Southwest Airlines Co.	The Manitowoc Company, Inc.
Salini Impregilo S.p.A.	Spirax-Sarco Engineering plc	The Middleby Corporation
Samsung Heavy Industries Co., Ltd.	Spirit AeroSystems Holdings, Inc.	THE NIPPON ROAD Co., Ltd.
Samyung Trading Co., Ltd.	Sporton International Inc.	The Sumitomo Warehouse Co., Ltd.
San Shing Fastech Corp.	SPX Corporation	The Weir Group PLC
Sanki Engineering Co., Ltd.	Stagecoach Group plc	Thermax Limited
Sankyu Inc.	Stanley Black & Decker, Inc.	THK Co., Ltd.
Sanwa Holdings Corporation	Stantec Inc.	Tianjin Capital Environmental Protection Group Company Limited
Sanyo Denki Co., Ltd.	Steelcase Inc.	Tianjin Port Development Holdings Limited
SAS AB (publ)	Stericycle, Inc.	Timken India Limited
Sato Holdings Corporation	Stolt-Nielsen Limited	TKH Group N.V.
Schindler Holding AG	Sulzer Ltd	TOA Corporation
Schneider Electric S.E.	Sumitomo Densetsu Co., Ltd.	TOCALO Co., Ltd.
Schweiter Technologies AG	Sumitomo Heavy Industries, Ltd.	Toenec Corporation
sebang Co., Ltd.	Sun Hydraulics Corporation	Tokyu Construction Co., Ltd.
Seino Holdings Co., Ltd.	Sung Kwang Bend Co.,Ltd.	Tokyu Corporation
Sekisui Jushi Corporation	Sweco AB (publ)	Toppan Forms Co., Ltd.
Sembcorp Marine Ltd	Sydney Airport Limited	Toromont Industries Ltd.
Seven Group Holdings Limited	Syncmold Enterprise Corp.	Toshiba Machine Co., Ltd.
SGS SA	Synergie SE	Toshiba Plant Systems & Services Corporation
Shanghai Jin Jiang Intl Industrial	Tadano Ltd.	Tosho Printing Company, Limited
Shanghai Prime Machinery Company Limited	Taewoong Co.,Ltd	Totetsu Kogyo Co., Ltd.
Shenzhen Expressway Company Limited	Taihei Dengyo Kaisha, Ltd.	Toto Ltd.
Shenzhen International Holdings Limited	Taikisha Ltd.	Tox Free Solutions Limited
Shima Seiki Mfg., Ltd.	Taisei Corporation	Toyo Construction Co., Ltd.
Shimizu Corporation	Taiwan Shin Kong Security Co.,Ltd.	Trakya Cam Sanayii A.S.
Shin Zu Shing Co., Ltd.	Takara Standard Co.,Ltd.	Trancom Co., Ltd.
ShinMaywa Industries, Ltd.	Takasago Thermal Engineering Co., Ltd.	Transcontinental Inc.
SHO-BOND Holdings Co.,Ltd.	Takeuchi Mfg. Co., Ltd.	Transurban Group
Siemens Limited	Takuma Co., Ltd.	Travis Perkins plc
Simpson Manufacturing Co., Inc.	Tanseisha Co., Ltd.	
Singapore Airlines Limited		
Singapore Post Limited		

Trex Company, Inc.	Werner Enterprises, Inc.	Alfa Laval AB (publ)
Trinity Industries, Inc.	WESCO International, Inc.	Alstom SA
TrueBlue, Inc.	Westinghouse Air Brake Technologies Corporation	Amada Holdings Co., Ltd.
Trusco Nakayama Corporation	WestJet Airlines Ltd.	Amara Raja Batteries Limited
Tsubakimoto Chain Co.	Wilson Bayly Holmes-Ovcon Limited	American Railcar Industries, Inc.
Tsugami Corporation	Wisdom Marine Lines Co., Limited	American Woodmark Corporation
Tsukishima Kikai Co., Ltd.	WSP Global Inc.	Andritz AG
Tsurumi Manufacturing Co., Ltd.	Xiamen International Port Co., Ltd	ANEST IWATA Corporation
Türk Hava Yollari Anonim Ortakligi	Xxentria Technology Materials Co.	Applied Industrial Technologies, Inc.
Türkiye Sise Ve Cam Fabrikalari A.S.	Xylem Inc.	ARCADIS NV
Tutor Perini Corporation	Yahagi Construction Co.,Ltd.	Arcam AB (publ)
UEM Edgenta Berhad	Yamabiko Corporation	Armstrong World Industries, Inc.
Ultra Electronics Holdings plc	Yamato Holdings Co., Ltd.	Asahi Diamond Industrial Co., Ltd.
U-Ming Marine Transport Corp.	Yamazen Corporation	Asahi Glass Co., Ltd.
UniFirst Corporation	Yangzijiang Shipbuilding (Holdings) Ltd.	Ashok Leyland Limited
Union Pacific Corporation	Yokogawa Bridge Holdings Corp.	Ashoka Buildcon Limited
Union Tool Co.	Yuexiu Transport Infrastructure Limited	Ashtead Group plc
Unique Engineering And Construction Public Company Limited	Yumeshin Holdings Co.,Ltd.	ASSA ABLOY AB (publ)
United Continental Holdings, Inc.	Yungtay Engineering Co., Ltd.	Astaldi S.p.A.
United Integrated Services Co., Ltd.	Yurtec Corporation	Astec Industries, Inc.
United Parcel Service, Inc.	Yusen Logistics Co.,Ltd.	Astronics Corporation
United Rentals, Inc.	Yushin Precision Equipment Co., Ltd.	Atlas Copco AB
Universal Forest Products, Inc.	Zardoya Otis, S.A.	ATS Automation Tooling Systems Inc.
Universal Logistics Holdings, Inc.	Zhejiang Expressway Co., Ltd.	Austral Limited
US Ecology, Inc.	Zodiac Aerospace	AviChina Industry & Technology Company Limited
USG Corporation		Axon Enterprise, Inc.
Vanachai Group Public Company Limited		Badger Daylighting Ltd.
Vestas Wind Systems A/S		BAE Systems plc
Viad Corp		Barnes Group Inc.
VINCI SA		Beacon Roofing Supply, Inc.
VTG Aktiengesellschaft		BEML Limited
W.W. Grainger, Inc.		Bergman & Beving AB
Wabash National Corporation		Berli Jucker Public Company Limited
WABCO Holdings Inc.		BES Engineering Corporation
Wacker Neuson SE		Bharat Heavy Electricals Limited
WageWorks, Inc.		Biesse S.p.A.
Wajax Corporation		Bird Construction Inc.
Wallenius Wilhelmsen Logistics ASA		Bizlink Holding Inc.
Walter Meier AG		Bobst Group SA
Wan Hai Lines Ltd.		Bodycote plc
Wärtsilä Oyj Abp		Boer Power Holdings Limited
Waste Management, Inc.		Bossard Holding AG
Watsco, Inc.		Brenntag AG
Watts Water Technologies, Inc.		Bucher Industries AG
WCT Holdings Berhad		Budimex SA
WEG S.A.		Bunka Shutter Co., Ltd.
		Bunzl plc
		Burckhardt Compression Holding AG

GICS 2010

A. O. Smith Corporation
AAON, Inc.
AAR Corp.
AB Volvo (publ)
Aboitiz Equity Ventures, Inc.
AcBel Polytech Inc.
ACS, Actividades de Construcción
Acuity Brands, Inc.
Adani Enterprises Limited
Advan Co., Ltd.
AECOM
Aecon Group Inc.
Aegion Corporation
AeroVironment, Inc.
AGCO Corporation
AIA Engineering Limited
Aichi Corporation
Aida Engineering, Ltd.
Airbus SE
Aircastle Limited
AirTAC International Group
Alamo Group Inc.

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Burkhalter Holding AG	Construcciones y Auxiliar de Ferrocarriles, S.A.	Fudo Tetra Corporation
Byucksan Corporation	Continental Holdings Corporation	Fuji Machine Mfg. Co., Ltd.
CAE Inc.	Cosel Co., Ltd.	Fujitec Co.,Ltd.
Cargotec Corporation	Costain Group plc	Fukuda Corporation
Caterpillar Inc.	Cramo Oyj	Fukushima Industries Corp.
CB Industrial Product Holding Berhad	Crane Co.	Furukawa Electric Co., Ltd.
CENTROTEC Sustainable AG	CSBC Corporation, Taiwan	GATX Corporation
Cera Sanitaryware Limited	CTCI Corporation	GE Power India Limited
CG Power and Industrial Solutions Limited	CWT Limited	GE T&D India Limited
CH. Karnchang Public Company Limited	Daelim Industrial Co., Ltd.	GEA Group
Changchai Company, Limited	DAIHEN Corporation	Aktiengesellschaft
Chart Industries, Inc.	Daiho Corporation	Geberit AG
Chemring Group plc	Daikin Industries,Ltd.	Gecoss Corporation
China Communications Construction	Daiwa Industries Ltd.	Giken Ltd.
China High Speed Transmission Equipment Group Co., Ltd.	Dalian Refrigeration Company Limited	Glory Ltd.
China Lesso Group Holdings Limited	Danieli & C. Officine Meccaniche S.p.A.	Graco Inc.
China Railway Construction Corp.	Dassault Aviation SA	Granite Construction Incorporated
China Railway Group Limited	Dätwyler Holding Inc.	Great Lakes Dredge & Dock Corporation
China Singyes Solar Technologies Holdings Limited	Dawonsys Co.,Ltd.	Greaves Cotton Limited
China State Construction International Holdings Limited	Deere & Company	Griffon Corporation
China Yuchai International Limited	Denyo Co., Ltd.	GWA Group Limited
Chiyoda Corporation	DEUTZ Aktiengesellschaft	H&E Equipment Services, Inc.
Chongqing Machinery & Electric Co., Ltd.	DMCI Holdings, Inc.	Haitian International Holdings Limited
Chudenko Corporation	DMG Mori Aktiengesellschaft	Haldex AB (publ)
CIMC Enric Holdings Limited	Donaldson Company, Inc.	Hanwha Techwin Co., Ltd.
CIMIC Group Limited	Dongkuk Structures & Construction	Hap Seng Consolidated Berhad
CIRCOR International, Inc.	dormakaba Holding AG	Harbin Electric Company Limited
CITIC Limited	Dover Corporation	Harim Holdings Co., Ltd.
CKD Corporation	Dycom Industries, Inc.	Harmonic Drive Systems Inc.
Colfax Corporation	Dynasty Ceramic Public Company Ltd	Harris Corporation
Columbus McKinnon Corporation	Ebara Corporation	Haulotte Group SA
Comfort Systems USA, Inc.	Eicher Motors Limited	Havells India Limited
Compagnie de Saint-Gobain S.A.	Eiffage SA	Hazama Ando Corporation
Compagnie d'Entreprises CFE SA	Elbit Systems Ltd.	Hexagon Composites ASA
COMSYS Holdings Corporation	Electra Ltd	Hexcel Corporation
Concentric AB (publ)	Embraer S.A.	Hibiya Engineering, Ltd.
Concord New Energy Group Limited	Encore Wire Corporation	Hino Motors, Ltd.
Consolidated Infrastructure Group Limited	EnerSys	Hirata Corporation
	Engineers India Limited	Hisaka Works, Ltd.
	EnPro Industries, Inc.	Hitachi Construction Machinery Co., Ltd.
	eTEC E&C Limited	Hitachi Zosen Corporation
	Exco Technologies Limited	Hiwin Technologies Corp.
	Fanuc Corporation	HOCHTIEF Aktiengesellschaft
	Fastenal Company	Hong Leong Industries Berhad
	Feintool International Holding AG	Hoshizaki Corporation
	Fenner PLC	Howden Joinery Group Plc
	Finning International Inc.	Hubbell Incorporated
	Flowserve Corporation	Huber+Suhner AG
	Fluor Corporation	Huntington Ingalls Industries, Inc.
	Force Motors Limited	Hy-Lok Corporation, Ltd.
	Foshan Electrical and Lighting Co., Ltd.	Hyundai Corporation
	Franklin Electric Co., Inc.	

Hyundai Engineering & Construction Co., Ltd.	Kingspan Group plc	Monadelphous Group Limited
I.M.A. Industria Macchine Automatiche S.p.A.	Kinik Company	MonotaRO Co., Ltd.
IDEC Corporation	KITZ Corporation	Moog Inc.
IHI Corporation	Kolon Corporation	Morita Holdings Corporation
iMarketKorea Inc.	Komatsu Ltd.	Mota-Engil, SGPS, S.A.
IMI plc	Komax Holding AG	MSC Industrial Direct Co., Inc.
Implenia AG	Komori Corporation	Mueller Water Products, Inc.
Inaba Denki Sangyo Co.,Ltd.	KONE Oyj	Muhibbah Engineering (M) Bhd.
INDUS Holding AG	Korea Aerospace Industries, Ltd.	Murray & Roberts Holdings Limited
Industries Qatar Q.S.C.	Korea Electric Terminal Co., Ltd.	MYR Group Inc.
Indutrade AB (publ)	Krones AG	Nabtesco Corporation
Insteel Industries, Inc.	Kubota Corporation	Namura Shipbuilding Co., Ltd.
Interpump Group S.p.A.	Kumagai Gumi Co., Ltd.	National Central Cooling Company PJSC
Invicta Holdings Limited	Kung Long Batteries Industrial Co.	NCC Limited
Iochepe-Maxion S.A.	Kuroda Electric Co., Ltd.	NCI Building Systems, Inc.
IRB Infrastructure Developers Limited	Kyokuto Kaihatsu Kogyo Co., Ltd.	New Flyer Industries Inc.
IS DongSeo Co., Ltd.	Kyowa Exeo Corporation	NICHIDEN Corporation
Iseki & Co., Ltd.	Kyudenko Corporation	Nichiha Corporation
Isgec Heavy Engineering Limited	Kyung Dong Navien Co., Ltd.	Nihon Trim Co., Ltd.
Jacobs Engineering Group Inc.	Lakshmi Machine Works Limited	Nippo Corporation
Jacquet Metal Service SA	Legrand SA	Nippon Densetsu Kogyo Co., Ltd.
JAMCO Corporation	LG Hausys Ltd.	Nippon Steel & Sumikin Bussan Corp
Japan Pulp and Paper Company Limited	Lincoln Electric Holdings, Inc.	Nippon Thompson Co., Ltd.
Jardine Matheson Holdings Limited	Lindab International AB	Nishimatsu Construction Co., Ltd.
Jardine Strategic Holdings Limited	Lindsay Corporation	Nishio Rent All Co., Ltd.
JGC Corporation	Lisi S.A.	Nissin Electric Co.,Ltd.
John Bean Technologies Corporation	LIXIL Group Corporation	Nitta Corporation
Johnson Electric Holdings Limited	Lockheed Martin Corporation	Nitto Kohki Co., Ltd.
JTEKT Corporation	Lonking Holdings Limited	NKT A/S
Jungheinrich Aktiengesellschaft	LS Corp.	Nordex SE
Jvm Co., Ltd.	LSIS Co., Ltd.	Noritz Corporation
Kadant Inc.	Mabuchi Motor Co., Ltd.	NORMA Group SE
Kajaria Ceramics Limited	Maeda Corporation	Northrop Grumman Corporation
Kajima Corporation	Maeda Kosen Co., Ltd.	NTN Corporation
Kalpataru Power Transmission Limited	MAEDA ROAD CONSTRUCTION Co., Ltd.	NWS Holdings Limited
Kaman Corporation	Magellan Aerospace Corporation	Obayashi Corporation
Kamei Corporation	Makino Milling Machine Co., Ltd.	OHB SE
Kanamoto Company Ltd.	Makita Corporation	Oiles Corporation
Kandenko Co., Ltd.	MAN SE	Okabe Co., Ltd.
Kardex AG	Manitou BF SA	Okuma Corporation
Kato Works Co., Ltd.	Marcopolo S.A.	Orbital ATK, Inc.
KEC International Limited	Marubeni Corporation	Organo Corporation
Keller Group plc	MasTec, Inc.	OSG Corporation
Kennametal Inc.	Meggitt PLC	Oshkosh Corporation
KEPCO Engineering & Construction Company, Inc.	Mercury Systems, Inc.	OSJB Holdings Corporation
Kinden Corporation	Metso Corporation	Otokar Otomotiv ve Savunma Sanayi A.S.
King Slide Works Co., Ltd.	Mitsubishi Heavy Industries, Ltd.	PACCAR Inc
	Mitsuboshi Belting Ltd.	Parker-Hannifin Corporation
	Mitsui Engineering & Shipbuilding Co., Ltd.	

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Park-Ohio Holdings Corp.	Shanghai Prime Machinery Company Limited	The Boeing Company
Patrick Industries, Inc.	Shima Seiki Mfg., Ltd.	The Gorman-Rupp Company
Penta-Ocean Construction Co., Ltd.	Shimizu Corporation	The Greenbrier Companies, Inc.
Per Aarsleff Holding A/S	Shin Zu Shing Co., Ltd.	The Manitowoc Company, Inc.
Pfeiffer Vacuum Technology AG	ShinMaywa Industries, Ltd.	The Middleby Corporation
PGT Innovations, Inc.	SHO-BOND Holdings Co.,Ltd.	THE NIPPON ROAD Co., Ltd.
Ponsse Oyj	Siemens Limited	The Weir Group PLC
Posco Daewoo Corporation	Simpson Manufacturing Co., Inc.	Thermax Limited
Powell Industries, Inc.	Singapore Technologies Engineering Ltd	THK Co., Ltd.
Proto Labs, Inc.	Sinko Industries Ltd.	Timken India Limited
Prysmian S.p.A.	Sino-Thai Engineering and Construction Public Company Limited	TKH Group N.V.
PT Adhi Karya (Persero) Tbk	Sinotruk (Hong Kong) Limited	TOA Corporation
PT AKR Corporindo Tbk	Sintokogio,Ltd.	TOCALO Co., Ltd.
PT Pembangunan Perumahan (Persero) Tbk	SK Holdings Co., Ltd.	Toenec Corporation
PT Wijaya Karya (Persero) Tbk	Skanska AB (publ)	Tokyu Construction Co., Ltd.
QinetiQ Group Plc	SKP Resources Bhd	Toromont Industries Ltd.
Quanex Building Products Corporation	SMC Corporation	Toshiba Machine Co., Ltd.
Quanta Services, Inc.	SNC-Lavalin Group Inc.	Toshiba Plant Systems & Services Corporation
Raito Kogyo Co., Ltd.	Sodick Co., Ltd.	Totetsu Kogyo Co., Ltd.
Ramirent Oyj	Solar A/S	Toto Ltd.
RATIONAL Aktiengesellschaft	Somany Ceramics Limited	Toyo Construction Co., Ltd.
Raubex Group Limited	Spirax-Sarco Engineering plc	Trakya Cam Sanayii A.S.
Raytheon Company	Spirit AeroSystems Holdings, Inc.	Travis Perkins plc
RBC Bearings Incorporated	SPX Corporation	Trex Company, Inc.
Rechi Precision Co., Ltd.	Stanley Black & Decker, Inc.	Trinity Industries, Inc.
Regal Beloit Corporation	Sulzer Ltd	Trusco Nakayama Corporation
Rexel S.A.	Sumitomo Densetsu Co., Ltd.	Tsubakimoto Chain Co.
Rieter Holding AG	Sumitomo Heavy Industries, Ltd.	Tsugami Corporation
Rockwell Collins, Inc.	Sun Hydraulics Corporation	Tsurumi Manufacturing Co., Ltd.
Rolls-Royce Holdings plc	Sung Kwang Bend Co.,Ltd.	Türkiye Sise Ve Cam Fabrikalari A.S.
Roper Technologies, Inc.	Sweco AB (publ)	Tutor Perini Corporation
Royal Boskalis Westminster N.V.	Syncmold Enterprise Corp.	UEM Edgenta Berhad
Rush Enterprises, Inc.	Tadano Ltd.	Ultra Electronics Holdings plc
Russel Metals Inc.	Taewoong Co.,Ltd	Union Tool Co.
Ryobi Limited	Taihei Dengyo Kaisha, Ltd.	Unique Engineering And Construction Public Company Limited
S&T Dynamics Co. Ltd.	Taikisha Ltd.	United Integrated Services Co., Ltd.
Saab AB (publ)	Taisei Corporation	United Rentals, Inc.
Safran SA	Takara Standard Co.,Ltd.	Universal Forest Products, Inc.
Salfacorp S.A.	Takasago Thermal Engineering Co., Ltd.	USG Corporation
Salini Impregilo S.p.A.	Takeuchi Mfg. Co., Ltd.	Vanachai Group Public Company Limited
Samsung Heavy Industries Co., Ltd.	Takuma Co., Ltd.	Vestas Wind Systems A/S
Samyung Trading Co., Ltd.	TECO Electric & Machinery Co., Ltd.	VINCI SA
San Shing Fastech Corp.	Teikoku Sen-i Co., Ltd.	W.W. Grainger, Inc.
Sanki Engineering Co., Ltd.	Tekken Corporation	Wabash National Corporation
Sanwa Holdings Corporation	Teledyne Technologies Incorporated	WABCO Holdings Inc.
Sanyo Denki Co., Ltd.	Tennant Company	Wacker Neuson SE
Schindler Holding AG	Terex Corporation	Wajax Corporation
Schweiter Technologies AG	Thales S.A.	
Sekisui Jushi Corporation		
Sembcorp Marine Ltd		
Seven Group Holdings Limited		

Walter Meier AG
 Wäertsilä Oyj Abp
 Watsco, Inc.
 Watts Water Technologies, Inc.
 WCT Holdings Berhad
 WEG S.A.
 WESCO International, Inc.
 Westinghouse Air Brake Technologies Corporation
 Wilson Bayly Holmes-Ovcon Limited
 WSP Global Inc.
 Xxentria Technology Materials Co.
 Xylem Inc.
 Yahagi Construction Co.,Ltd.
 Yamabiko Corporation
 Yamazen Corporation
 Yangzijiang Shipbuilding (Holdings) Ltd.
 Yokogawa Bridge Holdings Corp.
 Yungtay Engineering Co., Ltd.
 Yurtec Corporation
 Yushin Precision Equipment Co., Ltd.
 Zardoya Otis, S.A.
 Zodiac Aerospace

Northrop Grumman Corporation
 OHB SE
 Orbital ATK, Inc.
 QinetiQ Group Plc
 Raytheon Company
 Rockwell Collins, Inc.
 S&T Dynamics Co. Ltd.
 Saab AB (publ)
 Safran SA
 Singapore Technologies Engineering Ltd
 Spirit AeroSystems Holdings, Inc.
 Teledyne Technologies Incorporated
 Thales S.A.
 The Boeing Company
 Ultra Electronics Holdings plc
 Zodiac Aerospace

Quanex Building Products Corporation
 Sanwa Holdings Corporation
 Schweiter Technologies AG
 Sekisui Jushi Corporation
 Simpson Manufacturing Co., Inc.
 Sinko Industries Ltd.
 Somany Ceramics Limited
 Sung Kwang Bend Co.,Ltd.
 Takara Standard Co.,Ltd.
 Takasago Thermal Engineering Co., Ltd.
 Toto Ltd.
 Trakya Cam Sanayii A.S.
 Trex Company, Inc.
 Universal Forest Products, Inc.
 USG Corporation
 Vanachai Group Public Company Limited
 Xxentria Technology Materials Co.

GICS 201010

AAR Corp.
 AeroVironment, Inc.
 Airbus SE
 Astronics Corporation
 Austal Limited
 AviChina Industry & Technology Company Limited
 Axon Enterprise, Inc.
 BAE Systems plc
 CAE Inc.
 Chemring Group plc
 Dassault Aviation SA
 Elbit Systems Ltd.
 Embraer S.A.
 Hanwha Techwin Co., Ltd.
 Hexcel Corporation
 Huntington Ingalls Industries, Inc.
 JAMCO Corporation
 Korea Aerospace Industries, Ltd.
 Lisi S.A.
 Lockheed Martin Corporation
 Magellan Aerospace Corporation
 Meggitt PLC
 Mercury Systems, Inc.

GICS 201020

A. O. Smith Corporation
 AAON, Inc.
 American Woodmark Corporation
 Armstrong World Industries, Inc.
 ASSA ABLOY AB (publ)
 Bunka Shutter Co., Ltd.
 Byucksan Corporation
 CENTROTEC Sustainable AG
 Cera Sanitaryware Limited
 China Lesso Group Holdings Limited
 Daikin Industries,Ltd.
 dormakaba Holding AG
 Dynasty Ceramic Public Company Ltd
 Geberit AG
 GWA Group Limited
 Insteel Industries, Inc.
 IS DongSeo Co., Ltd.
 Kajaria Ceramics Limited
 Kingspan Group plc
 Kyung Dong Navien Co., Ltd.
 LG Hausys Ltd.
 Lindab International AB
 LIXIL Group Corporation
 Maeda Kosen Co., Ltd.
 National Central Cooling Company PJSC
 NCI Building Systems, Inc.
 Nichiha Corporation
 Noritz Corporation
 Okabe Co., Ltd.
 Patrick Industries, Inc.
 PGT Innovations, Inc.

GICS 201030

ACS, Actividades de Construcción
 AECOM
 Aecon Group Inc.
 Aegion Corporation
 ARCADIS NV
 Ashoka Buildcon Limited
 Astaldi S.p.A.
 Badger Daylighting Ltd.
 BES Engineering Corporation
 Bird Construction Inc.
 Budimex SA
 Burkhalter Holding AG
 CH. Karnchang Public Company Limited
 China Communications Construction
 China Railway Construction Corp.
 China Railway Group Limited
 China Singyes Solar Technologies Holdings Limited
 China State Construction International Holdings Limited
 Chiyoda Corporation
 Chudenko Corporation
 CIMIC Group Limited
 Comfort Systems USA, Inc.
 Compagnie d'Entreprises CFE SA
 COMSYS Holdings Corporation

Concord New Energy Group Limited
 Consolidated Infrastructure Group Limited
 Continental Holdings Corporation
 Costain Group plc
 CTCI Corporation
 Daelim Industrial Co., Ltd.
 Daiho Corporation
 Dongkuk Structures & Construction
 Dycom Industries, Inc.
 Eiffage SA
 Electra Ltd
 Engineers India Limited
 eTEC E&C Limited
 Fluor Corporation
 Fudo Tetra Corporation
 Fukuda Corporation
 GE Power India Limited
 Granite Construction Incorporated
 Great Lakes Dredge & Dock Corporation
 Hazama Ando Corporation
 Hibiya Engineering, Ltd.
 HOCHTIEF Aktiengesellschaft
 Hyundai Engineering & Construction Co., Ltd.
 Implen AG
 IRB Infrastructure Developers Limited
 Jacobs Engineering Group Inc.
 JGC Corporation
 Kajima Corporation
 Kalpataru Power Transmission Limited
 Kandenko Co., Ltd.
 KEC International Limited
 Keller Group plc
 KEPCO Engineering & Construction Company, Inc.
 Kinden Corporation
 Kumagai Gumi Co., Ltd.
 Kyowa Exeo Corporation
 Kyudenko Corporation
 Maeda Corporation
 MasTec, Inc.
 Monadelphous Group Limited
 Mota-Engil, SGPS, S.A.
 Muhibbah Engineering (M) Bhd.
 Murray & Roberts Holdings Limited
 MYR Group Inc.
 NCC Limited
 Nippo Corporation

Nippon Densetsu Kogyo Co., Ltd.
 Nishimatsu Construction Co., Ltd.
 Obayashi Corporation
 OSJB Holdings Corporation
 Penta-Ocean Construction Co., Ltd.
 Per Aarsleff Holding A/S
 PT Adhi Karya (Persero) Tbk
 PT Pembangunan Perumahan (Persero) Tbk
 Quanta Services, Inc.
 Raito Kogyo Co., Ltd.
 Raubex Group Limited
 Royal Boskalis Westminster N.V.
 Salfacorp S.A.
 Salini Impregilo S.p.A.
 Sanki Engineering Co., Ltd.
 SHO-BOND Holdings Co.,Ltd.
 Sino-Thai Engineering and Construction Public Company Limited
 Skanska AB (publ)
 SNC-Lavalin Group Inc.
 Sumitomo Densetsu Co., Ltd.
 Sweco AB (publ)
 Taihei Dengyo Kaisha, Ltd.
 Taikisha Ltd.
 Taisei Corporation
 Tekken Corporation
 TOA Corporation
 Toenec Corporation
 Tokyu Construction Co., Ltd.
 Toshiba Plant Systems & Services Corporation
 Totetsu Kogyo Co., Ltd.
 Toyo Construction Co., Ltd.
 Tutor Perini Corporation
 UEM Edgenta Berhad
 Unique Engineering And Construction Public Company Limited
 United Integrated Services Co., Ltd.
 VINCI SA
 WCT Holdings Berhad
 Wilson Bayly Holmes-Ovcon Limited
 WSP Global Inc.
 Yahagi Construction Co.,Ltd.
 Yokogawa Bridge Holdings Corp.
 Yurtec Corporation

GICS 201040

AcBel Polytech Inc.
 Acuity Brands, Inc.
 Amara Raja Batteries Limited
 Bharat Heavy Electricals Limited
 Bizlink Holding Inc.
 Boer Power Holdings Limited
 China High Speed Transmission Equipment Group Co., Ltd.
 Cosel Co., Ltd.
 Denyo Co., Ltd.
 Encore Wire Corporation
 EnerSys
 Foshan Electrical and Lighting Co., Ltd.
 Furukawa Electric Co., Ltd.
 GE T&D India Limited
 Harbin Electric Company Limited
 Havells India Limited
 Hubbell Incorporated
 Huber+Suhner AG
 IDEC Corporation
 Johnson Electric Holdings Limited
 Korea Electric Terminal Co., Ltd.
 Kung Long Batteries Industrial Co.
 Legrand SA
 LS Corp.
 Mabuchi Motor Co., Ltd.
 Nissin Electric Co.,Ltd.
 NKT A/S
 Nordex SE
 Powell Industries, Inc.
 Sanyo Denki Co., Ltd.
 TECO Electric & Machinery Co., Ltd.
 Vestas Wind Systems A/S

GICS 201050

Aboitiz Equity Ventures, Inc.
 Berli Jucker Public Company Limited
 Chongqing Machinery & Electric Co., Ltd.
 CITIC Limited
 Dätwyler Holding Inc.
 DMCI Holdings, Inc.
 Hap Seng Consolidated Berhad
 Harim Holdings Co., Ltd.
 Hong Leong Industries Berhad
 INDUS Holding AG
 Industries Qatar Q.S.C.

Jardine Matheson Holdings Limited
 Jardine Strategic Holdings Limited
 Kolon Corporation
 NWS Holdings Limited
 Siemens Limited
 SK Holdings Co., Ltd.

DEUTZ Aktiengesellschaft
 DMG Mori Aktiengesellschaft
 Donaldson Company, Inc.
 Dover Corporation
 Ebara Corporation
 Eicher Motors Limited
 EnPro Industries, Inc.
 Exco Technologies Limited
 Fanuc Corporation
 Feintool International Holding AG
 Fenner PLC
 Flowserve Corporation
 Force Motors Limited
 Franklin Electric Co., Inc.
 Fuji Machine Mfg. Co., Ltd.
 Fujitec Co.,Ltd.
 Fukushima Industries Corp.
 GEA Group Aktiengesellschaft
 Giken Ltd.
 Graco Inc.
 Greaves Cotton Limited
 Haitian International Holdings Limited
 Haldex AB (publ)
 Harmonic Drive Systems Inc.
 Haulotte Group SA
 Hexagon Composites ASA
 Hino Motors, Ltd.
 Hirata Corporation
 Hisaka Works, Ltd.
 Hitachi Construction Machinery Co., Ltd.
 Hitachi Zosen Corporation
 Hoshizaki Corporation
 Hy-Lok Corporation, Ltd.
 I.M.A. Industria Macchine Automatiche S.p.A.
 IMI plc
 Interpump Group S.p.A.
 Iochpe-Maxion S.A.
 Iseki & Co., Ltd.
 Isgec Heavy Engineering Limited
 John Bean Technologies Corporation
 JTEKT Corporation
 Jungheinrich Aktiengesellschaft
 Jvm Co., Ltd.
 Kadant Inc.
 Kardex AG
 Kato Works Co., Ltd.
 Kennametal Inc.
 King Slide Works Co., Ltd.
 KITZ Corporation
 Komatsu Ltd.
 Komax Holding AG
 Komori Corporation

KONE Oyj
 Kronos AG
 Kubota Corporation
 Kyokuto Kaihatsu Kogyo Co., Ltd.
 Lakshmi Machine Works Limited
 Lincoln Electric Holdings, Inc.
 Lindsay Corporation
 Lonking Holdings Limited
 Makino Milling Machine Co., Ltd.
 Makita Corporation
 MAN SE
 Manitou BF SA
 Marcopolo S.A.
 Metso Corporation
 Mitsubishi Heavy Industries, Ltd.
 Mitsuboshi Belting Ltd.
 Morita Holdings Corporation
 Mueller Water Products, Inc.
 Namura Shipbuilding Co., Ltd.
 New Flyer Industries Inc.
 Nihon Trim Co., Ltd.
 Nippon Thompson Co., Ltd.
 Nitta Corporation
 NORMA Group SE
 NTN Corporation
 Obara Group Incorporated
 Oiles Corporation
 Okuma Corporation
 Organo Corporation
 OSG Corporation
 Otokar Otomotiv ve Savunma Sanayi A.S.
 PACCAR Inc
 Parker-Hannifin Corporation
 Park-Ohio Holdings Corp.
 Pfeiffer Vacuum Technology AG
 Ponsse Oyj
 Proto Labs, Inc.
 RATIONAL Aktiengesellschaft
 RBC Bearings Incorporated
 Rechi Precision Co., Ltd.
 Rieter Holding AG
 Ryobi Limited
 Samsung Heavy Industries Co., Ltd.
 San Shing Fastech Corp.
 Schindler Holding AG
 Sembcorp Marine Ltd
 Shanghai Prime Machinery Company Limited
 Shima Seiki Mfg., Ltd.
 Shin Zu Shing Co., Ltd.

GICS 201060

AB Volvo (publ)
 AGCO Corporation
 AIA Engineering Limited
 Aichi Corporation
 Aida Engineering, Ltd.
 AirTAC International Group
 Alamo Group Inc.
 Alfa Laval AB (publ)
 Alstom SA
 Amada Holdings Co., Ltd.
 ANEST IWATA Corporation
 Arcam AB (publ)
 Asahi Diamond Industrial Co., Ltd.
 Ashok Leyland Limited
 Astec Industries, Inc.
 Atlas Copco AB
 ATS Automation Tooling Systems Inc.
 Barnes Group Inc.
 BEML Limited
 Biesse S.p.A.
 Bobst Group SA
 Bucher Industries AG
 Burckhardt Compression Holding AG
 Cargotec Corporation
 Caterpillar Inc.
 CB Industrial Product Holding Berhad
 Changchai Company, Limited
 Chart Industries, Inc.
 China Yuchai International Limited
 CIMC Enric Holdings Limited
 CKD Corporation
 Colfax Corporation
 Columbus McKinnon Corporation
 Concentric AB (publ)
 Construcciones y Auxiliar de Ferrocarriles, S.A.
 CSBC Corporation, Taiwan
 Daiwa Industries Ltd.
 Dalian Refrigeration Company Limited
 Danieli & C. Officine Meccaniche S.p.A.
 Dawonsys Co.,Ltd.
 Deere & Company

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Sinotruk (Hong Kong) Limited
Sintokogio,Ltd.
SKP Resources Bhd
SMC Corporation
Sodick Co., Ltd.
Spirax-Sarco Engineering plc
SPX Corporation
Sulzer Ltd
Sun Hydraulics Corporation
Syncmold Enterprise Corp.
Tadano Ltd.
Taewoong Co.,Ltd
Takeuchi Mfg. Co., Ltd.
Takuma Co., Ltd.
Teikoku Sen-i Co., Ltd.
Tennant Company
Terex Corporation
The Gorman-Rupp Company
The Greenbrier Companies, Inc.
The Manitowoc Company, Inc.
The Middleby Corporation
The Weir Group PLC
Thermax Limited
THK Co., Ltd.
Timken India Limited
TOCALO Co., Ltd.
Toshiba Machine Co., Ltd.
Trinity Industries, Inc.
Tsubakimoto Chain Co.
Tsugami Corporation
Tsurumi Manufacturing Co., Ltd.
Union Tool Co.
Wabash National Corporation
WABCO Holdings Inc.
Wacker Neuson SE
Walter Meier AG
Wärtsilä Oyj Abp
Watts Water Technologies, Inc.
WEG S.A.
Westinghouse Air Brake Technologies Corporation
Xylem Inc.
Yamabiko Corporation
Yungtay Engineering Co., Ltd.
Yushin Precision Equipment Co., Ltd.
Zardoya Otis, S.A.

Ashtead Group plc
Beacon Roofing Supply, Inc.
Bergman & Beving AB
Bossard Holding AG
Brenntag AG
Bunzl plc
Cramo Oyj
CWT Limited
Fastenal Company
Finning International Inc.
GATX Corporation
Gecoss Corporation
H&E Equipment Services, Inc.
Howden Joinery Group Plc
Hyundai Corporation
iMarketKorea Inc.
Inaba Denki Sangyo Co.,Ltd.
Indutrade AB (publ)
Invicta Holdings Limited
Jacquet Metal Service SA
Japan Pulp and Paper Company Limited
Kamei Corporation
Kanamoto Company Ltd.
Kuroda Electric Co., Ltd.
Marubeni Corporation
MonotaRO Co., Ltd.
MSC Industrial Direct Co., Inc.
NICHIDEN Corporation
Nippon Steel & Sumikin Bussan Corp
Nishio Rent All Co., Ltd.
Posco Daewoo Corporation
PT AKR Corporindo Tbk
Ramirent Oyj
Rexel S.A.
Rush Enterprises, Inc.
Russel Metals Inc.
Samyung Trading Co., Ltd.
Seven Group Holdings Limited
Toromont Industries Ltd.
Travis Perkins plc
Trusco Nakayama Corporation
United Rentals, Inc.
W.W. Grainger, Inc.
Wajax Corporation
Watsco, Inc.
WESCO International, Inc.
Yamazen Corporation

Benefit One Inc.
Berendsen plc
Bertrandt
Aktiengesellschaft
Bilfinger SE
Blue Label Telecoms Limited
Brambles Limited
Brunel International N.V.
Bureau Veritas SA
Cabcharge Australia Limited
CEWE Stiftung & Co. KGaA
China Everbright International Limited
Cintas Corporation
Clean Harbors, Inc.
Cleanaway Company Limited
Copart, Inc.
Covanta Holding Corporation
Dai Nippon Printing Co., Ltd.
Daiseki Co.,Ltd.
Deluxe Corporation
Derichebourg
Elanders AB (publ)
en-japan inc.
Ennis, Inc.
Equifax Inc.
Essendant Inc.
Experian plc
Exponent, Inc.
Forrester Research, Inc.
Funai Soken Holdings Incorporated
G4S plc
GL Events
GP Strategies Corporation
Groupe CRIT SA
Gunnebo AB
Hays plc
Healthcare Services Group, Inc.
Heidrick & Struggles International, Inc.
Herman Miller, Inc.
HNI Corporation
HomeServe plc
IHS Markit Ltd.
InnerWorkings, Inc.
Insperty, Inc.
Interface, Inc.
Intertek Group plc
Itab Shop Concept AB
Itoki Corporation
IWG PLC
JAC Recruitment Co., Ltd.
Kelly Services, Inc.
KEPCO Plant Service & Engineering Co., Ltd.
Kimball International, Inc.

GICS 201070

Adani Enterprises Limited
Advan Co., Ltd.
Aircastle Limited
Applied Industrial Technologies, Inc.

GICS 2020

ACCO Brands Corporation
Adecco Group AG
ÂF AB (publ)
ALS Limited
Amadeus FiRe AG
Assystem SA

Knoll, Inc.
 Korn/Ferry International
 Kyodo Printing Co., Ltd.
 Loomis AB (publ)
 ManpowerGroup Inc.
 Meitec Corporation
 Mitsubishi Pencil Co., Ltd.
 Mobile Mini, Inc.
 Morneau Shepell Inc.
 MSA Safety Incorporated
 Multi-Color Corporation
 Nippon Kanzai Co., Ltd.
 NIPPON PARKING
 DEVELOPMENT Co.,Ltd.
 NOMURA Co., Ltd.
 Okamura Corporation
 On Assignment, Inc.
 OUTSOURCING Inc.
 PageGroup plc
 Pilot Corporation
 Pitney Bowes Inc.
 Prestige International Inc.
 Programmed Maintenance
 Services Limited
 Prosegur Compañía de
 Seguridad
 Randstad Holding NV
 Relia, Inc.
 RELX PLC
 Republic Services, Inc.
 Resources Connection, Inc.
 Ritchie Bros. Auctioneers
 Incorporated
 Riverstone Holdings
 Limited
 Robert Half International
 Inc.
 Rollins, Inc.
 RPS Group plc
 S-1 Corporation
 Sato Holdings Corporation
 SGS SA
 Sohgo Security Services
 Co.,Ltd.
 Sporton International Inc.
 Stantec Inc.
 Steelcase Inc.
 Stericycle, Inc.
 Synergie SE
 Taiwan Shin Kong Security
 Co.,Ltd.
 Team, Inc.
 Teleperformance SE
 Tetra Tech, Inc.
 The Advisory Board
 Company
 The Brink's Company
 Tianjin Capital
 Environmental Protection
 Group Company Limited
 Toppan Forms Co., Ltd.

Tosho Printing Company,
 Limited
 Tox Free Solutions Limited
 Transcontinental Inc.
 TrueBlue, Inc.
 UniFirst Corporation
 US Ecology, Inc.
 Viad Corp
 WageWorks, Inc.
 Waste Management, Inc.

GICS 202010

ACCO Brands Corporation
 Berendsen plc
 Bilfinger SE
 Blue Label Telecoms
 Limited
 Brambles Limited
 Cabcharge Australia
 Limited
 CEWE Stiftung & Co. KGaA
 Cintas Corporation
 Clean Harbors, Inc.
 Cleanaway Company
 Limited
 Copart, Inc.
 Covanta Holding
 Corporation
 Dai Nippon Printing Co.,
 Ltd.
 Daiseki Co.,Ltd.
 Deluxe Corporation
 Derichebourg
 Elanders AB (publ)
 Ennis, Inc.
 Essendant Inc.
 G4S plc
 GL Events
 Gunnebo AB
 Healthcare Services Group,
 Inc.
 Herman Miller, Inc.
 HNI Corporation
 HomeServe plc
 InnerWorkings, Inc.
 Interface, Inc.
 Itab Shop Concept AB
 Itoki Corporation
 IWG PLC
 KEPCO Plant Service &
 Engineering Co., Ltd.
 Kimball International, Inc.
 Knoll, Inc.
 Kyodo Printing Co., Ltd.
 Loomis AB (publ)
 Mitsubishi Pencil Co., Ltd.
 Mobile Mini, Inc.
 MSA Safety Incorporated
 Multi-Color Corporation
 Nippon Kanzai Co., Ltd.
 NIPPON PARKING
 DEVELOPMENT Co.,Ltd.
 Okamura Corporation

Pilot Corporation
 Pitney Bowes Inc.
 Prestige International Inc.
 Programmed Maintenance
 Services Limited
 Prosegur Compañía de
 Seguridad
 Relia, Inc.
 Republic Services, Inc.
 Ritchie Bros. Auctioneers
 Incorporated
 Riverstone Holdings
 Limited
 Rollins, Inc.
 RPS Group plc
 S-1 Corporation
 Sato Holdings Corporation
 Sohgo Security Services
 Co.,Ltd.
 Steelcase Inc.
 Stericycle, Inc.
 Taiwan Shin Kong Security
 Co.,Ltd.
 Tetra Tech, Inc.
 The Brink's Company
 Tianjin Capital
 Environmental Protection
 Group Company Limited
 Toppan Forms Co., Ltd.
 Tosho Printing Company,
 Limited
 Tox Free Solutions Limited
 Transcontinental Inc.
 UniFirst Corporation
 US Ecology, Inc.
 Viad Corp
 Waste Management, Inc.

GICS 202020

Adecco Group AG
 ÂF AB (publ)
 ALS Limited
 Amadeus FiRe AG
 Assystem SA
 Benefit One Inc.
 Bertrandt
 Aktiengesellschaft
 Brunel International N.V.
 Bureau Veritas SA
 en-japan inc.
 Equifax Inc.
 Experian plc
 Exponent, Inc.
 Forrester Research, Inc.
 Funai Soken Holdings
 Incorporated
 GP Strategies Corporation
 Groupe CRIT SA
 Hays plc
 Heidrick & Struggles
 International, Inc.
 IHS Markit Ltd.

2017 Valuation Handbook – International Industry Cost of Capital (data through September 30, 2017); Company and GICS List

Insperty, Inc.
 Intertek Group plc
 JAC Recruitment Co., Ltd.
 Kelly Services, Inc.
 Korn/Ferry International
 ManpowerGroup Inc.
 Meitec Corporation
 Morneau Shepell Inc.
 NOMURA Co., Ltd.
 On Assignment, Inc.
 PageGroup plc
 Randstad Holding NV
 RELX PLC
 Resources Connection, Inc.
 Robert Half International Inc.
 SGS SA
 Sporton International Inc.
 Stantec Inc.
 Synergie SE
 Teleperformance SE
 The Advisory Board Company
 TrueBlue, Inc.
 WageWorks, Inc.

Inc.
 Canadian National Railway Company
 Canadian Pacific Railway Limited
 CCR S.A.
 Cebu Air, Inc.
 Central Japan Railway Company
 China Airlines, Ltd.
 China Merchants Port Holdings Company Limited
 Chu Kong Shipping Enterprises
 ComfortDelGro Corporation Limited
 Container Corporation of India Limited
 Covenant Transportation Group
 CSX Corporation
 Dart Group plc
 Deutsche Post AG
 DFDS A/S
 DP World Limited
 DSV A/S
 easyJet plc
 Echo Global Logistics, Inc.
 EcoRodovias Infraestrutur e Logística S.A.
 El Al Israel Airlines Ltd
 EVA Airways Corp.
 Evergreen Intl. Storage & Trans.
 Exchange Income Corporation
 Expeditors International of Washington, Inc.
 FedEx Corporation
 Firstgroup plc
 Flughafen Zürich AG
 Forward Air Corporation
 Fukuyama Transporting Co., Ltd.
 Gateway Distriparks Limited
 Genesee & Wyoming Inc.
 Getlink
 Grupo Aeroméxico, S.A.B. de C.V.
 Grupo Aeroportuario del Pacífico, S.A.B. de C.V.
 Grupo Aeroportuario del Sureste, S. A. B. de C. V.
 Guangdong Yueyun Transportation Company Limited
 Gujarat Pipavav Port Limited
 Hamburger Hafen und Logistik Aktiengesellschaft
 Hanjin Transportation Co., Ltd.

Hawaiian Holdings, Inc.
 Heartland Express, Inc.
 Hitachi Transport System, Ltd.
 HNA Infrastructure Company Limited
 Hub Group, Inc.
 ID Logistics Group SA
 Iino Kaiun Kaisha, Ltd.
 International Container Terminal Services, Inc.
 Int'l Consolidated Airlines
 J.B. Hunt Transport Services, Inc.
 Japan Airlines Co., Ltd.
 Japan Airport Terminal Co., Ltd.
 Jiangsu Expressway Company Limited
 JSL S.A.
 Kamigumi Co., Ltd.
 Kansas City Southern
 Kerry TJ Logistics Company Limited
 Kintetsu World Express, Inc.
 Kirby Corporation
 Kuehne + Nagel International AG
 Landstar System, Inc.
 Localiza Rent a Car S.A.
 Marten Transport, Ltd.
 Maruzen Showa Unyu Co., Ltd.
 Matson, Inc.
 MISC Berhad
 Mitsubishi Logistics Corporation
 Nagoya Railroad Co., Ltd.
 National Express Group PLC
 Nippon Express Co., Ltd.
 Nissin Corporation
 Norfolk Southern Corporation
 Northgate plc
 Norwegian Air Shuttle ASA
 NS United Kaiun Kaisha, Ltd.
 Old Dominion Freight Line, Inc.
 Orient Overseas (Int'l) Ltd
 Österreichische Post AG
 Panalpina World Transport (Holding) Ltd.
 Piraeus Port Authority S.A.
 Promotora y Operadora de Infraestructura, S. A. B. de C. V.
 Pt Jasa Marga (Persero)
 Tbk
 Qube Holdings Limited
 Redde plc

GICS 2030

A.P. Møller - Mærsk A/S
 Abertis Infraestructuras, S.A.
 Adani Ports and Special Economic Zone Limited
 Aegean Airlines S.A.
 Aéroports de Paris SA
 Air Arabia PJSC
 Air China Limited
 Air New Zealand Limited
 Air Transport Services Group, Inc.
 AirAsia Berhad
 Airports of Thailand Public Company Limited
 Allcargo Logistics Limited
 Allegiant Travel Company
 AMERCO
 ANA Holdings Inc.
 Anhui Expressway Company Limited
 Ansaldo STS S.p.A.
 ArcBest Corporation
 ASTM S.p.A.
 Atlantia S.p.A.
 Auckland International Airport Limited
 Aurizon Holdings Limited
 Bangkok Aviation Fuel Serv.
 BBA Aviation plc
 Beijing Capital International Airport Company Limited
 Blue Dart Express Limited
 Bolloré
 C.H. Robinson Worldwide,

Roadrunner Transportation Systems, Inc.
 Ryanair Holdings plc
 Ryder System, Inc.
 Saia, Inc.
 Sakai Moving Service Co.,Ltd.
 SAS AB (publ)
 sebang Co., Ltd.
 Shanghai Jin Jiang Intl Industrial
 Shenzhen Expressway Company Limited
 Shenzhen International Holdings Limited
 Singapore Airlines Limited
 Singapore Post Limited
 Sinotrans Limited
 SITC Int'l Holdings Co. Ltd.
 Società Iniziative Autostradali e Servizi S.p.A.
 Sotetsu Holdings, Inc.
 Southwest Airlines Co.
 Stagecoach Group plc
 Stolt-Nielsen Limited
 Sydney Airport Limited
 TAV Havalimanlari Holding A.S.
 TFI International Inc.
 The Go-Ahead Group plc
 The Sumitomo Warehouse Co., Ltd.
 Tianjin Port Development Holdings Limited
 Trancom Co., Ltd.
 Transurban Group
 Türk Hava Yollari Anonim Ortakligi
 U-Ming Marine Transport Corp.
 Union Pacific Corporation
 United Continental Holdings, Inc.
 United Parcel Service, Inc.
 Universal Logistics Holdings, Inc.
 VTG Aktiengesellschaft
 Wallenius Wilhelmsen Logistics ASA
 Wan Hai Lines Ltd.
 Werner Enterprises, Inc.
 WestJet Airlines Ltd.
 Wisdom Marine Lines Co., Limited
 Xiamen International Port Co., Ltd
 Yamato Holdings Co., Ltd.
 Yuexiu Transport Infrastructure Limited
 Yusen Logistics Co.,Ltd.
 Zhejiang Expressway Co., Ltd.

GICS 203010

Allcargo Logistics Limited
 Blue Dart Express Limited
 Bollore
 Deutsche Post AG
 Echo Global Logistics, Inc.
 Expeditors International of Washington, Inc.
 Forward Air Corporation
 Guangdong Yueyun Transportation Company Limited
 Hub Group, Inc.
 ID Logistics Group SA
 Kerry TJ Logistics Company Limited
 Kintetsu World Express, Inc.
 Österreichische Post AG
 Singapore Post Limited
 Sinotrans Limited
 Yamato Holdings Co., Ltd.
 Yusen Logistics Co.,Ltd.

GICS 203020

Aegean Airlines S.A.
 Air Arabia PJSC
 Air China Limited
 Air New Zealand Limited
 AirAsia Berhad
 Allegiant Travel Company
 Cebu Air, Inc.
 China Airlines, Ltd.
 Dart Group plc
 easyJet plc
 El Al Israel Airlines Ltd
 Exchange Income Corporation
 Grupo Aeroméxico, S.A.B. de C.V.
 Hawaiian Holdings, Inc.
 Int'l Consolidated Airlines
 Japan Airlines Co., Ltd.
 Norwegian Air Shuttle ASA
 Ryanair Holdings plc
 SAS AB (publ)
 Singapore Airlines Limited
 Southwest Airlines Co.
 Türk Hava Yollari Anonim Ortakligi
 United Continental Holdings, Inc.
 WestJet Airlines Ltd.

GICS 203030

Chu Kong Shipping Enterprises
 Iino Kaiun Kaisha, Ltd.
 Kirby Corporation
 Kuehne + Nagel International AG

Matson, Inc.
 MISC Berhad
 NS United Kaiun Kaisha, Ltd.
 Orient Overseas (Int'l) Ltd
 SITC Int'l Holdings Co. Ltd.
 Stolt-Nielsen Limited
 U-Ming Marine Transport Corp.
 Wallenius Wilhelmsen Logistics ASA
 Wan Hai Lines Ltd.
 Wisdom Marine Lines Co., Limited

GICS 203040

AMERCO
 Aurizon Holdings Limited
 Canadian National Railway Company
 Canadian Pacific Railway Limited
 Central Japan Railway Company
 ComfortDelGro Corporation Limited
 Container Corporation of India Limited
 Covenant Transportation Group
 CSX Corporation
 Evergreen Intl. Storage & Trans.
 Firstgroup plc
 Fukuyama Transporting Co., Ltd.
 Genesee & Wyoming Inc.
 Heartland Express, Inc.
 Hitachi Transport System, Ltd.
 J.B. Hunt Transport Services, Inc.
 JSL S.A.
 Kansas City Southern
 Landstar System, Inc.
 Localiza Rent a Car S.A.
 Marten Transport, Ltd.
 Maruzen Showa Unyu Co., Ltd.
 National Express Group PLC
 Nippon Express Co., Ltd.
 Norfolk Southern Corporation
 Northgate plc
 Old Dominion Freight Line, Inc.
 Redd plc
 Roadrunner Transportation Systems, Inc.
 Ryder System, Inc.
 Saia, Inc.
 Sakai Moving Service

Co.,Ltd.
 Shanghai Jin Jiang Intl
 Industrial
 Sotetsu Holdings, Inc.
 Stagecoach Group plc
 TFI International Inc.
 The Go-Ahead Group plc
 Union Pacific Corporation
 Universal Logistics
 Holdings, Inc.
 VTG Aktiengesellschaft
 Werner Enterprises, Inc.

Piraeus Port Authority S.A.
 Promotora y Operadora de
 Infraestructura, S. A. B. de
 C. V.
 Pt Jasa Marga (Persero)
 Tbk
 sebang Co., Ltd.
 Shenzhen Expressway
 Company Limited
 Shenzhen International
 Holdings Limited
 Società Iniziative
 Autostradali e Servizi S.p.A.
 Sydney Airport Limited
 TAV Havalimanlari Holding
 A.S.
 The Sumitomo Warehouse
 Co., Ltd.
 Tianjin Port Development
 Holdings Limited
 Transurban Group
 Xiamen International Port
 Co., Ltd
 Yuexiu Transport
 Infrastructure Limited
 Zhejiang Expressway Co.,
 Ltd.

American Outdoor Brands
 Corporation
 American Public Education,
 Inc.
 AmTRAN Technology
 Co.,Ltd
 AMUSE Inc.
 ANTA Sports Products
 Limited
 AOKI Holdings Inc.
 Aoyama Trading Co., Ltd.
 APG|SGA SA
 Apollo Tyres Limited
 ARB Corporation Limited
 Arçelik Anonim Sirketi
 Arcland Sakamoto Co., Ltd.
 Arcland Service Holdings
 Co., Ltd.
 Arezzo Indústria e
 Comércio S.A.
 Aristocrat Leisure Limited
 Arvind Limited
 Asahi Co., Ltd.
 Asatsu-DK Inc.
 Asbury Automotive Group,
 Inc.
 ASICS Corporation
 ASKUL Corporation
 ATOM Corporation
 Atresmedia Corporación de
 Medios de Comunicación,
 S.A.
 Autobacs Seven Co., Ltd.
 AutoCanada Inc.
 Autogrill S.p.A.
 Autoliv, Inc.
 Automotive Holdings Group
 Limited
 AutoNation, Inc.
 Autoneum Holding AG
 Axel Springer SE
 Bajaj Auto Limited
 Balkrishna Industries
 Limited
 Barratt Developments plc
 Basso Industry Corp.
 Bata India Limited
 Bayerische Motoren Werke
 Aktienges
 Beazer Homes USA, Inc.
 BEC World Public Company
 Limited
 Bed Bath & Beyond Inc.
 Belluna Co., Ltd.
 Bellway p.l.c.
 Benesse Holdings, Inc.
 Bénétteau S.A.
 Berjaya Sports Toto Berhad
 Best Buy Co., Inc.
 Bet-At-Home.com AG
 Betsson AB
 Bharat Forge Limited

GICS 203050

Abertis Infraestructuras,
 S.A.
 Adani Ports and Special
 Economic Zone Limited
 Aéroports de Paris SA
 Airports of Thailand Public
 Company Limited
 Anhui Expressway
 Company Limited
 Ansaldo STS S.p.A.
 ASTM S.p.A.
 Atlantia S.p.A.
 Auckland International
 Airport Limited
 Bangkok Aviation Fuel Serv.
 BBA Aviation plc
 Beijing Capital International
 Airport Company Limited
 CCR S.A.
 China Merchants Port
 Holdings Company Limited
 DP World Limited
 EcoRodovias Infraestrutur
 a e Logística S.A.
 Flughafen Zürich AG
 Gateway Distriparks
 Limited
 Getlink
 Grupo Aeroportuario del
 Pacífico, S.A.B. de C.V.
 Grupo Aeroportuario del
 Sureste, S. A. B. de C. V.
 Gujarat Pipavav Port
 Limited
 Hamburger Hafen und
 Logistik Aktiengesellschaft
 HNA Infrastructure
 Company Limited
 International Container
 Terminal Services, Inc.
 Japan Airport Terminal Co.,
 Ltd.
 Jiangsu Expressway
 Company Limited
 Kamigumi Co., Ltd.
 Mitsubishi Logistics
 Corporation
 Nissin Corporation

GICS 25

361 Degrees International
 Limited
 888 Holdings plc
 Aaron's, Inc.
 AB Electrolux (publ)
 ABC-Mart, Inc.
 Abercrombie & Fitch Co.
 Accell Group N.V.
 Accent Group Limited
 Accor SA
 Actron Technology
 Corporation
 Adastria Co., Ltd.
 Adidas AG
 Adtalem Global Education
 Inc.
 Advance Auto Parts, Inc.
 ADvTECH Limited
 Aeon Fantasy Co., Ltd.
 Ainsworth Game
 Technology Limited
 Aisan Industry Co., Ltd.
 Aisin Seiki Co., Ltd.
 Aksa Akrilik Kimya Sanayii
 A.S.
 Alpargatas S.A.
 Alpen Co., Ltd.
 Alpine Electronics, Inc.
 Alsea, S.A.B. De C.V.
 Amazon.com, Inc.
 Amer Sports Corporation
 American Eagle Outfitters,
 Inc.

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Bic Camera Inc.	China First Capital Group Limited	Cracker Barrel Old Country Store, Inc.
Big 5 Sporting Goods Corporation	China Lilang Limited	create restaurants holdings inc.
Big Lots, Inc.	China Motor Corporation	Crocs, Inc.
Biglari Holdings Inc.	China Travel International Investment Hong Kong Limited	CSS Industries, Inc.
Bijou Brigitte modische Accessoires Aktiengesellschaft	China Zhengtong Auto Services Holdings Limited	CTS Eventim AG & Co. KGaA
Bilia AB	Chipotle Mexican Grill, Inc.	Cub Elecparts Inc.
BJ's Restaurants, Inc.	Chiyoda Co., Ltd.	Curro Holdings Limited
Booking Holdings Inc.	Chofu Seisakusho Co., Ltd.	Cyfrowy Polsat S.A.
BorgWarner Inc.	Chori Co., Ltd.	D.R. Horton, Inc.
Borussia Dortmund GmbH & Co. Kommanditgesellschaft auf Aktien	Chow Sang Sang Holdings International Limited	Daekyo Co., Ltd.
Bosch Limited	Chuy's Holdings, Inc.	Dah Chong Hong Holdings Limited
Bosideng International Holdings Limited	Cia. Hering	Daimler AG
Bovis Homes Group PLC	CIE Automotive, S.A.	Dana Incorporated
Brembo S.p.A.	Cinemark Holdings, Inc.	Darden Restaurants, Inc.
Breville Group Limited	Cineplex Inc.	DCM Holdings Co., Ltd.
Bridgestone Corporation	Cineworld Group plc	Debenhams plc
Bronco Billy Co., Ltd.	Citi Trends, Inc.	Deckers Outdoor Corporation
BRUNELLO CUCINELLI S.p.A.	City Lodge Hotels Limited	Delek Automotive Systems Ltd.
Brunswick Corporation	Citychamp Watch & Jewellery Group Limited	De'Longhi S.p.A.
Buffalo Wild Wings, Inc.	CJ CGV Co., Ltd.	Delta Corp Limited
Burberry Group plc	CJ E&M Corporation	Delta Galil Industries Ltd.
Byggmax Group AB (publ)	CJ O Shopping Co., Ltd	DENSO Corporation
C.BANNER INTERNATIONAL Holdings Limited	Clarion Co., Ltd.	Dentsu Inc.
Café de Coral Holdings Limited	Clas Ohlson AB (publ)	Depo Auto Parts Industrial Co., Ltd.
Cairo Communication S.p.A.	Cleanup Corporation	Descente Ltd.
Caleres, Inc.	Cogeco Communications Inc.	Dick's Sporting Goods, Inc.
Canadian Tire Corporation, Limited	Cogeco Inc.	D'leteren SA
Canon Marketing Japan Inc.	Colowide Co., Ltd.	Dillard's, Inc.
Capella Education Company	Columbia Sportswear Company	Dine Brands Global, Inc.
CarMax Inc.	Compagnie Financière Richemont SA	Discovery Communications, Inc.
Carnival Corporation	Compagnie Générale Établissements	DISH Network Corporation
Carriage Services, Inc.	Compagnie Plastic Omnium SA	DO & CO Aktiengesellschaft
Carter's, Inc.	Compass Group PLC	Dollar General Corporation
Cashbuild Limited	Conn's, Inc.	Dollar Tree, Inc.
Casio Computer Co., Ltd.	Consortio ARA, S. A. B. de C. V.	Dollarama Inc.
Cavco Industries, Inc.	Continental Aktiengesellschaft	Domino's Pizza Enterprises Limited
CBS Corporation	Cooper Tire & Rubber Company	Domino's Pizza Group plc
CCC S.A.	Cooper-Standard Holdings Inc.	Don Quijote Holdings Co., Ltd.
CEAT Limited	Core-Mark Holding Company, Inc.	Dongfeng Motor Group Company Limited
Chaowei Power Holdings Limited	Corona Corporation	Dorel Industries Inc.
Charter Communications, Inc.	Corporate Travel Management Limited	Dorman Products, Inc.
Cheil Worldwide Inc.	Corus Entertainment Inc.	Doshisha Co.,Ltd.
Cheng Shin Rubber Ind. Co., Ltd.	Coway Co., Ltd.	DOUTOR NICHIRETS Holdings Co., Ltd.
Chico's FAS, Inc.	Cox & Kings Limited	DRB-HICOM Berhad
China Dongxiang (Group) Co., Ltd.		DSW Inc.

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Eclat Textile Corporation Ltd.	GameStop Corp.	Hanatour Service Inc.
EDION Corporation	Garmin Ltd.	HANDSOME Corp.
Ei Group plc	GEDI Gruppo Editoriale S.p.A.	Hanesbrands Inc.
EIH Limited	Geely Automobile Holdings Limited	Hanon Systems
El Puerto de Liverpool, SAB de CV	General Motors Company	Hansae Co., Ltd.
ElingKlinger AG	Genesco Inc.	Hansae Yes24 Holdings Co., Ltd
Emerson Pacific Inc.	Gentex Corporation	Hanssem Co., Ltd.
Emperor Entertainment Hotel Limited	Gentherm Incorporated	Harley-Davidson, Inc.
EnerCare Inc.	Genting Berhad	Harvey Norman Holdings Limited
Entercom Communications Corp.	Genting Malaysia Berhad	Hasbro, Inc.
Entertainment One Ltd.	Genting Singapore PLC	Havas SA
Entravision Communications Corporation	Geo Holdings Corporation	Haverty Furniture Companies, Inc.
Estácio Participações S.A.	Geox S.p.A.	Hefei Meiling Co., Ltd.
Ethan Allen Interiors Inc.	Gerry Weber International AG	Heiwa Corporation
Eutelsat Communications S.A.	Giant Manufacturing Co., Ltd.	Hengdeli Holdings Limited
EXEDY Corporation	G-III Apparel Group, Ltd.	Hermès International Société
Expedia, Inc.	Gildan Activewear Inc.	Hero MotoCorp Limited
Express, Inc.	Giordano International Limited	Hibbett Sports, Inc.
F.C.C. Co., Ltd.	Golden Eagle Retail Group Limited	Hiday Hidaka Corp.
Famous Brands Limited	Goldwin Inc.	Himatsingka Seide Limited
Far Eastern Department Stores, Ltd.	Goodbaby International Holdings Limited	Hiramatsu Inc.
Fast Retailing Co., Ltd.	Goodyear Lastikleri Türk A.S.	Hiroca Holdings Ltd.
Faurecia S.A.	Gourmet Master Co. Ltd.	Hisense Kelon Electrical Holdings Company Limited
Feng Tay Enterprises Co., Ltd.	Graham Holdings Company	Home Product Center Public Company Limited
Fiat Chrysler Automobiles N.V.	Grammer Aktiengesellschaft	Honda Motor Co., Ltd.
Fields Corporation	Grand Korea Leisure Co., Ltd.	Hornbach Baumarkt AG
Fiesta Restaurant Group, Inc.	Gray Television, Inc.	Hota Industrial Mfg. Co., Ltd.
Fila Korea Ltd.	Great Canadian Gaming Corporation	Hotai Motor Co., Ltd.
Five Below, Inc.	Great Wall Motor Company Limited	Hotel Shilla Co.,Ltd
Flight Centre Travel Group Limited	Greek Organization of Football Prognostics S.A.	HSN, Inc.
Folli-Follie Commercial Manufacturing and Technical Societe Anonyme	Greene King plc	Hu Lane Associate Inc.
Foot Locker, Inc.	Greggs plc	Hugo Boss AG
Ford Motor Company	Group 1 Automotive, Inc.	Husqvarna AB (publ)
Formosa International Hotels Corporation	Grupo Televisa, S.A.B.	Hwaseung Industries Co., Ltd.
Forus S.A.	GS Home Shopping Inc.	Hyundai Department Store Co., Ltd.
Fossil Group, Inc.	G-Tekt Corporation	Hyundai HCN Co., Ltd.
France Bed Holdings Co. Ltd.	Guararapes Confeccoes S.A.	Hyundai Home Shopping Network Corporation
Francesca's Holdings Corporation	GUD Holdings Limited	Hyundai Mobis Co.,Ltd
Fuji Co., Ltd.	Guess?, Inc.	HYUNDAI WIA Corporation
Fuji Kyuko Co., Ltd.	Gwangju Shinsegae Co., Ltd.	IC Group A/S
Fujitsu General Limited	H & M Hennes & Mauritz AB (publ)	Ichibanya Co., Ltd.
Fuyao Glass Industry Group Co., Ltd.	H.I.S. Co., Ltd.	IDOM Inc.
G8 Education Limited	Haier Electronics Group Co., Ltd.	ILG, Inc.
Galaxy Entertainment Group Limited	Hakuhodo DY Holdings Inc	Ilshin Spinning Co., Ltd
	Halfords Group plc	Imperial Holdings Limited
	Halla Holdings Corp.	Inchcape plc
		Indo Count Industries Limited
		Industria de Diseño Textil, S.A.
		Informa plc
		Inox Leisure Limited

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International Speedway Corporation	Kumho Tire Co., Inc.	Mediaset España Comunicación, S.A.
InvoCare Limited	Kura Corporation	Meiko Network Japan Co., Ltd.
Ipsos SA	Kyungbang Co.,Ltd	Mekonomen AB
iRobot Corporation	La Opala RG Limited	Melco International Development Limited
Isetan Mitsukoshi Holdings Ltd.	Ladbrokes Coral Group plc	Meliá Hotels International, S.A.
Isuzu Motors Limited	Lagardère SCA	Meredith Corporation
ITE Group plc	Las Vegas Sands Corp.	Merida Industry Co.,Ltd.
ITV plc	La-Z-Boy Incorporated	Meritage Homes Corporation
Izumi Co., Ltd.	LCI Industries	Métropole Télévision S.A.
J D Wetherspoon plc	Lealea Enterprise Co., Ltd.	MGI Coutier SA
Jagran Prakashan Limited	Lennar Corporation	MGM China Holdings Limited
Jardine Cycle & Carriage Limited	Lewis Group Limited	MGM Resorts International
JB Hi-Fi Limited	LF Corp.	Michael Hill International Limited
JCDecaux SA	Li & Fung Limited	Michael Kors Holdings Limited
Jcontentree corp.	Li Cheng Enterprise Co., Ltd.	Minor International Public Company Limited
JD Sports Fashion plc	Li Peng Enterprise Co., Ltd.	Minth Group Limited
JINS Inc.	Libbey Inc.	Misawa Homes Co., Ltd.
JK Tyre & Industries Limited	Linamar Corporation	Mitchells & Butlers plc
JM AB (publ)	Lithia Motors, Inc.	Mitsuba Corporation
John Wiley & Sons, Inc.	LKQ Corporation	Mitsubishi Motors Corporation
Johnson Controls - Hitachi	LOEN Entertainment, Inc.	Mitsui Home Co., Ltd.
Johnson Health Tech. Co., Ltd.	Lojas Americanas S.A.	Mizuno Corporation
Jollibee Foods Corporation	Lojas Renner S.A.	Modern Times Group Mtg AB
Joshin Denki Co., Ltd.	Lookers plc	MODETOUR NETWORK Inc.
Jubilant FoodWorks Limited	LOTTE Himart Co.,Ltd.	Modine Manufacturing Company
Jumbo S.A.	Lowe's Companies, Inc.	Mohawk Industries, Inc.
K.P.R. Mill Limited	LPP Spolka Akcyjna	Monarch Casino & Resort, Inc.
K12 Inc.	Luk Fook Holdings (International) Limited	MOS Food Services, Inc.
Kangwon Land, Inc.	Lumber Liquidators Holdings, Inc.	Mothersum Sumi Systems Limited
KappAhl AB (publ)	Lungyen Life Service Corporation	Movado Group, Inc.
Kasai Kogyo Co., Ltd.	Luxottica Group S.p.A.	Mr Price Group Limited
KB Home	M.D.C. Holdings, Inc.	Multiplus S.A.
Keihin Corporation	M/I Homes, Inc.	Musashi Seimitsu Industry Co., Ltd.
Keiyo Co., Ltd.	Macauto Industrial Co., Ltd.	Myer Holdings Limited
Kenda Rubber Industrial Co. Ltd.	Macy's, Inc.	N Brown Group plc
Kering SA	Magazine Luiza S.A.	Nan Liu Enterprise Co., Ltd.
Kia Motors Corporation	Magna International Inc.	NanKang Rubber Tire Corp., Ltd.
Kingfisher plc	Magnum Berhad	Nautilus, Inc.
Kinpo Electronics, Inc.	Mahindra CIE Automotive Limited	Navitas Limited
Kirkland's, Inc.	Mahindra Holidays & Resorts India Limited	Net Holding A.S
Kisoji Co., Ltd.	Mahle Metal Leve S.A.	Netflix, Inc.
KMC (Kuei Meng) International Inc.	Makalot Industrial Co., Ltd.	New Wave Group AB (publ)
KNT-CT Holdings Co., Ltd.	Man Wah Holdings Limited	Nexen Tire Corporation
Kohl's Corporation	MarineMax, Inc.	Next Plc
Kohnan Shoji Co., Ltd.	Marisa Lojas S.A.	NGK Spark Plug Co., Ltd.
Koito Manufacturing Co., Ltd.	Marriott Vacations Worldwide Corporation	NHK Spring Co., Ltd.
Kolao Holdings	Martinrea International Inc.	Nien Hsing Textile Co., Ltd.
Komeri Co.,Ltd.	Marui Group Co., Ltd.	
Kongsberg Automotive ASA	Maruti Suzuki India Limited	
Koshidaka Holdings Co., Ltd.	Matsuya Co., Ltd.	
K's Holdings Corporation	Matsuya Foods Co., Ltd.	
KT Skylife Co., Ltd.	Mattel, Inc.	
	Mazda Motor Corporation	
	Media Prima Berhad	

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Nifco Inc.	PT Ace Hardware	SBS Media Holdings Co., Ltd.
NIKE, Inc.	Indonesia Tbk	Scholastic Corporation
Nishimatsuya Chain Co., Ltd.	PT Astra International Tbk	Scripps Networks Interactive, Inc.
Nissan Motor Co., Ltd.	PT Ramayana Lestari Sentosa Tbk	SEB SA
Nissan Shatai Co., Ltd.	PT Surya Citra Media Tbk	Sebang Global Battery Co., Ltd.
Nissin Kogyo Co., Ltd.	PT Visi Media Asia Tbk	Sega Sammy Holdings Inc.
Nitori Holdings Co., Ltd.	PT. Global Mediacom Tbk	Seiko Holdings Corporation
Nobia AB (publ)	PT. Media Nusantara Citra Tbk	Seiren Co.,Ltd.
Nojima Corporation	PT. Mitra Adiperkasa Tbk	Sekisui House, Ltd.
Nokian Renkaat Oyj	Public Joint Stock Company M.video	Senao International Co., Ltd.
Nordstrom, Inc.	Publicis Groupe S.A.	Senshukai Co., Ltd.
NOS, S.G.P.S., S.A.	PulteGroup, Inc.	Septeni Holdings Co., Ltd.
Nutrisystem, Inc.	PVH Corp.	Seria Co., Ltd.
NVR, Inc.	PVR Limited	SES S.A.
Ocado Group plc	Pyeong Hwa Automotive Co., Ltd.	Shangri-La Asia Limited
Office Depot, Inc.	Qingling Motors Co., Ltd.	Shaw Communications Inc.
Ohsho Food Service Corp.	Quebecor Inc.	Shenzhen International Group Holdings Limited
Omnicom Group Inc.	Rajesh Exports Limited	Shimachu Co., Ltd.
Onward Holdings Co., Ltd.	Ralph Lauren Corporation	Shimamura Co. Ltd.
O'Reilly Automotive, Inc.	Rassini, S.A.B. de C.V.	Shimano Inc.
Oriental Land Co., Ltd.	Raymond Limited	SHINSEGAE FOOD Inc.
Oriental Weavers Company For Carpets (S.A.E)	Red Robin Gourmet Burgers, Inc.	Shinsegae Inc.
Overstock.com, Inc.	Redrow plc	Shinsegae International Co., Ltd.
Oxford Industries, Inc.	Renault SA	Shochiku Co., Ltd.
Pacific Industrial Co., Ltd.	Resorttrust, Inc.	Shoe Carnival, Inc.
Pacific Textiles Holdings Limited	Rezidor Hotel Group AB (publ)	Shoppers Stop Limited
Paddy Power Betfair plc	RIGHT ON Co., Ltd.	SHOWA Corporation
Padini Holdings Berhad	Riken Corporation	Showbox Corp.
Page Industries Limited	Ringer Hut Co., Ltd.	Shutterfly, Inc.
PAL GROUP Holdings CO., LTD.	Rinnai Corporation	Siam Global House Public Company Limited
Paltac Corporation	Robinson Public Company Limited	Signet Jewelers Limited
Pandora A/S	Ross Stores, Inc.	Sinclair Broadcast Group, Inc.
Paradise Co., Ltd.	Royal Caribbean Cruises Ltd.	Sioen Industries NV
Parco Co. Ltd.	Royal Holdings Co., Ltd.	Skechers U.S.A., Inc.
Parkson Retail Group Limited	RS Public Company Limited	SkiStar AB (publ)
PC Depot Corporation	RTL Group SA	SKY Network Television Limited
Pegas Nonwovens S.A.	Ruth's Hospitality Group, Inc.	Sky plc
Penske Automotive Group, Inc.	Ryohin Keikaku Co., Ltd.	SKYCITY Entertainment Group Limited
Persimmon plc	S.M. Entertainment Co., Ltd.	SL Corporation
PetMed Express, Inc.	Sa Sa International Holdings Limited	SMI Holdings Group Limited
Piaggio & C. SpA	Sac's Bar Holdings Inc.	Sotheby's
Pier 1 Imports, Inc.	Saf-Holland S.A.	Speedway Motorsports, Inc.
Piolax, Inc.	Saint Marc Holdings Co., Ltd.	Sports Direct International plc
Plenus Company Limited	Saizeriya Co., Ltd.	SRF Limited
Polaris Industries Inc.	Salvatore Ferragamo S.p.A.	Sri Trang Agro-Industry Public Company Limited
Pool Corporation	Sampo Corporation	Standard Motor Products, Inc.
Pou Chen Corporation	Sands China Ltd.	Starbucks Corporation
Pou Sheng International (Holdings) Limited	Sangetsu Corporation	Start Today Co., Ltd.
POYA International Co., Ltd.	Sankyo Co., Ltd.	
Premier Investments Limited	Sanrio Company, Ltd.	
Press Kogyo Co., Ltd.		
Prestariang Berhad		
Proto Corporation		

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Steven Madden, Ltd.	The Finish Line, Inc.	Tsutsumi Jewelry Co., Ltd.
Strayer Education, Inc.	The Foschini Group Limited	TTK Prestige Limited
Ströer SE & Co. KGaA	The Gap, Inc.	TUI AG
Studio Alice Co., Ltd.	The Home Depot, Inc.	Tung Thih Electronic Co., Ltd.
Sturm, Ruger & Company, Inc.	The Interpublic Group of Companies, Inc.	Tupperware Brands Corporation
Subaru Corporation	The Japan Wool Textile Co., Ltd.	Tupy S.A.
Sumitomo Riko Company Limited	The Marcus Corporation	TV Asahi Holdings Corporation
Sumitomo Rubber Industries, Ltd.	The New York Times Company	TV Azteca SAB de CV
Sundram Fasteners Limited	The Restaurant Group plc	TV18 Broadcast Limited
Super Retail Group Limited	The Star Entertainment Group Limited	TVS Motor Company Limited
Superdry Plc	The Swatch Group AG	Twenty-First Century Fox, Inc.
Superior Industries International, Inc.	The TJX Companies, Inc.	TYC Brother Industrial Co., Ltd.
Suzuki Motor Corporation	The Walt Disney Company	UBM plc
Symphony Limited	The Wendy's Company	Ultra Beauty, Inc.
Tabcorp Holdings Limited	The Yokohama Rubber Co., Ltd.	UMW Holdings Berhad
TACHI-S Co., Ltd.	Thomas Cook (India) Limited	Under Armour, Inc.
Taiho Kogyo Co., Ltd.	Thor Industries, Inc.	Unifi, Inc.
Tainan Spinning Co., Ltd.	Tianneng Power International Limited	Unipres Corporation
Taiwan Paiho Limited	Tiffany & Co.	Uni-Select Inc.
Takashimaya Company, Limited	Time Warner Inc.	United Arrows Ltd.
TAKKT AG	Titan Company Limited	Universal Electronics Inc.
Tamron Co.,Ltd.	TOD'S S.p.A.	Universal Entertainment Corporation
Target Corporation	Toei Animation Co., Ltd.	Urban Outfitters, Inc.
Tata Motors Limited	Toei Company, Ltd.	USS Co., Ltd.
Tatts Group Limited	Tofas Türk Otomobil Fabrikasi A.S.	V.F. Corporation
Taylor Wimpey plc	Tokai Rika Co., Ltd.	Vail Resorts, Inc.
TCL Multimedia Technology Holdings Limited	Tokyo Broadcasting System Holdings, Inc.	Valeo SA
Techtronic Industries Company Limited	Tokyo Dome Corporation	Valora Holding AG
Ted Baker PLC	Tokyotokeiba Co., Ltd.	Van De Velde NV
Television Broadcasts Limited	Toll Brothers, Inc.	Vardhman Textiles Limited
Télévision Française 1 SA	Tong Yang Industry Co.,Ltd.	Vector Inc.
Tempur Sealy International, Inc.	Topkey Corporation	Vera Bradley, Inc.
Tenneco Inc.	TORIDOLL Holdings Corporation	Viacom, Inc.
Test-Rite International Co., Ltd.	Tosho Co., Ltd.	Village Roadshow Limited
Texas Roadhouse, Inc.	Toung Loong Textile MFG. Co., LTD.	Vita Group Limited
Texhong Textile Group Limited	Toyo Tire & Rubber Co., Ltd.	Vitamin Shoppe, Inc.
Texwinca Holdings Limited	Toyoda Gosei Co., Ltd.	Vivendi SA
T-Gaia Corporation	Toyota Boshoku Corporation	VT Holdings Co., Ltd.
The Ambassador Hotel, Ltd.	Toyota Motor Corporation	Wabco India Limited
The Berkeley Group Holdings plc	TPR Co., Ltd.	Wacoal Holdings Corp.
The Buckle, Inc.	Tractor Supply Company	Webjet Limited
The Cato Corporation	Trade Me Group Limited	Welspun India Limited
The Cheesecake Factory Incorporated	Trigano S.A.	Weyco Group, Inc.
The Children's Place, Inc.	TripAdvisor, Inc.	WH Smith PLC
The E. W. Scripps Company	Truworths International Limited	Whirlpool Corporation
The Erawan Group Public Company Limited	TS TECH Co., Ltd.	Whirlpool of India Limited
	Tsogo Sun Holdings Limited	Whitbread PLC
		William Hill plc
		Williams-Sonoma, Inc.
		Winnebago Industries, Inc.
		Wolverine World Wide, Inc.
		Woongjin Thinkbig Co., Ltd.
		Workpoint Entertainment Pub. Comp.

World Wrestling Entertainment, Inc.
 WOWOW INC.
 Wowprime Corp.
 WPP AUNZ Limited
 WPP plc
 Wynn Macau, Limited
 Xebio Holdings Co., Ltd.
 Xingda International Holdings Limited
 Xinhua Winshare Publishing & Media
 Xinyi Glass Holdings Limited
 Xtep International Holdings Limited
 Yamada Denki Co., Ltd.
 Yamaha Corporation
 Yamaha Motor Co., Ltd.
 Yellow Hat Ltd.
 YG Entertainment Inc.
 Yomiuri Land Co., Ltd.
 Yondoshi Holdings Inc.
 Yonex Co., Ltd.
 YOOX Net-A-Porter Group S.p.A.
 Yorozu Corporation
 Yoshinoya Holdings Co., Ltd.
 Youngone Corporation
 Youngone Holdings Co., Ltd.
 Yue Yuen Industrial (Holdings) Limited
 Yulon Motor Company Ltd.
 ZEAL Network SE
 Zee Entertainment Enterprises Limited
 Zeng Hsing Industrial Co., Ltd.
 Zenrin Co., Ltd.
 Zensho Holdings Co., Ltd.
 Zhongsheng Group Holdings Limited
 Zojirushi Corporation
 zooplus AG
 Zumiez Inc.

BorgWarner Inc.
 Bosch Limited
 Brembo S.p.A.
 Bridgestone Corporation
 CEAT Limited
 Chaowei Power Holdings Limited
 Cheng Shin Rubber Ind. Co., Ltd.
 China First Capital Group Limited
 China Motor Corporation
 CIE Automotive, S.A.
 Compagnie Générale Établissements
 Compagnie Plastic Omnium SA
 Continental Aktiengesellschaft
 Cooper Tire & Rubber Company
 Cooper-Standard Holdings Inc.
 Cub Elecparts Inc.
 Daimler AG
 Dana Incorporated
 DENSO Corporation
 Depo Auto Parts Industrial Co., Ltd.
 Dongfeng Motor Group Company Limited
 Dorman Products, Inc.
 DRB-HICOM Berhad
 ElringKlinger AG
 EXEDY Corporation
 F.C.C. Co., Ltd.
 Faurecia S.A.
 Fiat Chrysler Automobiles N.V.
 Ford Motor Company
 Fuyao Glass Industry Group Co., Ltd.
 Geely Automobile Holdings Limited
 General Motors Company
 Gentex Corporation
 Gentherm Incorporated
 Goodyear Lastikleri Türk A.S.
 Grammer Aktiengesellschaft
 Great Wall Motor Company Limited
 G-Tekt Corporation
 Halla Holdings Corp.
 Hanon Systems
 Harley-Davidson, Inc.
 Hero MotoCorp Limited
 Hiroca Holdings Ltd.
 Honda Motor Co., Ltd.
 Hota Industrial Mfg. Co., Ltd.
 Hu Lane Associate Inc.

Hyundai Mobis Co.,Ltd
 Hyundai Motor Company
 HYUNDAI WIA Corporation
 Isuzu Motors Limited
 JK Tyre & Industries Limited
 Kasai Kogyo Co., Ltd.
 Keihin Corporation
 Kenda Rubber Industrial Co. Ltd.
 Kia Motors Corporation
 Koito Manufacturing Co., Ltd.
 Kongsberg Automotive ASA
 Kumho Tire Co., Inc.
 LCI Industries
 Linamar Corporation
 Macauto Industrial Co., Ltd.
 Magna International Inc.
 Mahindra CIE Automotive Limited
 Mahle Metal Leve S.A.
 Martinrea International Inc.
 Maruti Suzuki India Limited
 Mazda Motor Corporation
 MGI Coutier SA
 Minth Group Limited
 Mitsuba Corporation
 Mitsubishi Motors Corporation
 Modine Manufacturing Company
 Motherson Sumi Systems Limited
 Musashi Seimitsu Industry Co., Ltd.
 NanKang Rubber Tire Corp., Ltd.
 Nexen Tire Corporation
 NGK Spark Plug Co., Ltd.
 NHK Spring Co., Ltd.
 Nifco Inc.
 Nissan Motor Co., Ltd.
 Nissan Shatai Co., Ltd.
 Nissin Kogyo Co., Ltd.
 Nokian Renkaat Oyj
 Pacific Industrial Co., Ltd.
 Piaggio & C. SpA
 Piolax, Inc.
 Press Kogyo Co., Ltd.
 PT Astra International Tbk
 Pyeong Hwa Automotive Co., Ltd.
 Qingling Motors Co., Ltd.
 Rassini, S.A.B. de C.V.
 Renault SA
 Riken Corporation
 Saf-Holland S.A.
 Sebang Global Battery Co., Ltd.
 SHOWA Corporation
 SL Corporation

GICS 2510

Actron Technology Corporation
 Aisan Industry Co., Ltd.
 Aisin Seiki Co., Ltd.
 Apollo Tyres Limited
 ARB Corporation Limited
 Autoliv, Inc.
 Autoneum Holding AG
 Bajaj Auto Limited
 Balkrishna Industries Limited
 Bayerische Motoren Werke Aktienges
 Bharat Forge Limited

2017 Valuation Handbook – International Industry Cost of Capital (data through September 30, 2017); Company and GICS List

Sri Trang Agro-Industry Public Company Limited	Limited	Macauto Industrial Co., Ltd.
Standard Motor Products, Inc.	Bharat Forge Limited	Magna International Inc.
Subaru Corporation	BorgWarner Inc.	Mahindra CIE Automotive Limited
Sumitomo Riko Company Limited	Bosch Limited	Mahle Metal Leve S.A.
Sumitomo Rubber Industries, Ltd.	Brembo S.p.A.	Martinrea International Inc.
Sundram Fasteners Limited	Bridgestone Corporation	MGI Coutier SA
Superior Industries International, Inc.	CEAT Limited	Minth Group Limited
Suzuki Motor Corporation	Chaowei Power Holdings Limited	Mitsuba Corporation
TACHI-S Co., Ltd.	Cheng Shin Rubber Ind. Co., Ltd.	Modine Manufacturing Company
Taiho Kogyo Co., Ltd.	China First Capital Group Limited	Motherson Sumi Systems Limited
Tata Motors Limited	CIE Automotive, S.A.	Musashi Seimitsu Industry Co., Ltd.
Tenneco Inc.	Compagnie Générale Établissements	NanKang Rubber Tire Corp., Ltd.
The Yokohama Rubber Co., Ltd.	Compagnie Plastic Omnium SA	Nexen Tire Corporation
Thor Industries, Inc.	Continental Aktiengesellschaft	NGK Spark Plug Co., Ltd.
Tianneng Power International Limited	Cooper Tire & Rubber Company	NHK Spring Co., Ltd.
Tofas Türk Otomobil Fabrikasi A.S.	Cooper-Standard Holdings Inc.	Nifco Inc.
Tokai Rika Co., Ltd.	Cub Elecparts Inc.	Nissin Kogyo Co., Ltd.
Tong Yang Industry Co.,Ltd.	Dana Incorporated	Nokian Renkaat Oyj
Toyo Tire & Rubber Co., Ltd.	DENSO Corporation	Pacific Industrial Co., Ltd.
Toyoda Gosei Co., Ltd.	Depo Auto Parts Industrial Co., Ltd.	Piolax, Inc.
Toyota Boshoku Corporation	Dorman Products, Inc.	Press Kogyo Co., Ltd.
Toyota Motor Corporation	ElringKlinger AG	Pyeong Hwa Automotive Co., Ltd.
TPR Co., Ltd.	EXEDY Corporation	Rassini, S.A.B. de C.V.
TS TECH Co., Ltd.	F.C.C. Co., Ltd.	Riken Corporation
Tung Thih Electronic Co., Ltd.	Faurecia S.A.	Saf-Holland S.A.
Tupy S.A.	Fuyao Glass Industry Group Co., Ltd.	Sebang Global Battery Co., Ltd.
TVS Motor Company Limited	Gentex Corporation	SHOWA Corporation
TYC Brother Industrial Co., Ltd.	Gentherm Incorporated	SL Corporation
UMW Holdings Berhad	Goodyear Lastikleri Türk A.S.	Sri Trang Agro-Industry Public Company Limited
Unipres Corporation	Grammer Aktiengesellschaft	Standard Motor Products, Inc.
Valeo SA	G-Tekt Corporation	Sumitomo Riko Company Limited
Wabco India Limited	Halla Holdings Corp.	Sumitomo Rubber Industries, Ltd.
Winnebago Industries, Inc.	Hanon Systems	Sundram Fasteners Limited
Xingda International Holdings Limited	Hiroca Holdings Ltd.	Superior Industries International, Inc.
Yorozu Corporation	Hota Industrial Mfg. Co., Ltd.	TACHI-S Co., Ltd.
Yulon Motor Company Ltd.	Hu Lane Associate Inc.	Taiho Kogyo Co., Ltd.
	Hyundai Mobis Co.,Ltd	Tenneco Inc.
	HYUNDAI WIA Corporation	The Yokohama Rubber Co., Ltd.
	JK Tyre & Industries Limited	Tianneng Power International Limited
	Kasai Kogyo Co., Ltd.	Tokai Rika Co., Ltd.
	Keihin Corporation	Tong Yang Industry Co.,Ltd.
	Kenda Rubber Industrial Co. Ltd.	Toyo Tire & Rubber Co., Ltd.
	Koito Manufacturing Co., Ltd.	Toyota Gosei Co., Ltd.
	Kongsberg Automotive ASA	Toyota Boshoku Corporation
	Kumho Tire Co., Inc.	TPR Co., Ltd.
	LCI Industries	
	Linamar Corporation	

GICS 251010

Actron Technology Corporation
Aisan Industry Co., Ltd.
Aisin Seiki Co., Ltd.
Apollo Tyres Limited
ARB Corporation Limited
Autoliv, Inc.
Autoneum Holding AG
Balkrishna Industries

2017 Valuation Handbook – International Industry Cost of Capital (data through September 30, 2017); Company and GICS List

TS TECH Co., Ltd.
Tung Thih Electronic Co., Ltd.
Tupy S.A.
TYC Brother Industrial Co., Ltd.
Unipres Corporation
Valeo SA
Wabco India Limited
Xingda International Holdings Limited
Yorozu Corporation

Adidas AG
Aksa Akrilik Kimya Sanayii A.S.
Alpargatas S.A.
Alpine Electronics, Inc.
Amer Sports Corporation
American Outdoor Brands Corporation
AmTRAN Technology Co.,Ltd
ANTA Sports Products Limited
Arçelik Anonim Sirketi
Arezzo Indústria e Comércio S.A.
Arvind Limited
ASICS Corporation
Barratt Developments plc
Basso Industry Corp.
Bata India Limited
Beazer Homes USA, Inc.
Bellway p.l.c.
Bénéteau S.A.
Bijou Brigitte modische Accessoires
Aktiengesellschaft
Bosideng International Holdings Limited
Bovis Homes Group PLC
Breville Group Limited
BRUNELLO CUCINELLI S.p.A.
Burberry Group plc
C.BANNER
INTERNATIONAL Holdings Limited
Carter's, Inc.
Casio Computer Co., Ltd.
Cavco Industries, Inc.
CCC S.A.
China Dongxiang (Group) Co., Ltd.
China Lilang Limited
Chofu Seisakusho Co., Ltd.
Citychamp Watch & Jewellery Group Limited
Clarion Co., Ltd.
Cleanup Corporation
Columbia Sportswear Company
Compagnie Financière Richemont SA
Consorcio ARA, S. A. B. de C. V.
Corona Corporation
Coway Co., Ltd.
Crocs, Inc.
CSS Industries, Inc.
D.R. Horton, Inc.
Deckers Outdoor Corporation
De'Longhi S.p.A.
Delta Galil Industries Ltd.

Descente Ltd.
Dorel Industries Inc.
Duni AB (publ)
Dunlop Sports Co. Ltd.
Eclat Textile Corporation Ltd.
Feng Tay Enterprises Co., Ltd.
Fields Corporation
Fila Korea Ltd.
Forus S.A.
Fossil Group, Inc.
France Bed Holdings Co. Ltd.
Fujitsu General Limited
Garmin Ltd.
Geox S.p.A.
Giant Manufacturing Co., Ltd.
G-III Apparel Group, Ltd.
Gildan Activewear Inc.
Goldwin Inc.
Goodbaby International Holdings Limited
Guararapes Confeccoes S.A.
HANDSOME Corp.
Hanesbrands Inc.
Hansae Co., Ltd.
Hansae Yes24 Holdings Co., Ltd
Hanssem Co., Ltd.
Hasbro, Inc.
Hefei Meiling Co., Ltd.
Heiwa Corporation
Hermès International Société
Himatsingka Seide Limited
Hisense Kelon Electrical Holdings Company Limited
Hugo Boss AG
Husqvarna AB (publ)
Hwaseung Industries Co., Ltd.
IC Group A/S
Ilshin Spinning Co., Ltd
Indo Count Industries Limited
iRobot Corporation
JM AB (publ)
Johnson Controls - Hitachi
Johnson Health Tech. Co., Ltd.
K.P.R. Mill Limited
KB Home
Kinpo Electronics, Inc.
KMC (Kuei Meng) International Inc.
Kyungbang Co.,Ltd
La Opala RG Limited
Lealea Enterprise Co., Ltd.
Lennar Corporation
LF Corp.

GICS 251020

Bajaj Auto Limited
Bayerische Motoren Werke Aktienges
China Motor Corporation
Daimler AG
Dongfeng Motor Group Company Limited
DRB-HICOM Berhad
Fiat Chrysler Automobiles N.V.
Ford Motor Company
Geely Automobile Holdings Limited
General Motors Company
Great Wall Motor Company Limited
Harley-Davidson, Inc.
Hero MotoCorp Limited
Honda Motor Co., Ltd.
Hyundai Motor Company
Isuzu Motors Limited
Kia Motors Corporation
Maruti Suzuki India Limited
Mazda Motor Corporation
Mitsubishi Motors Corporation
Nissan Motor Co., Ltd.
Nissan Shatai Co., Ltd.
Piaggio & C. SpA
PT Astra International Tbk
Qingling Motors Co., Ltd.
Renault SA
Subaru Corporation
Suzuki Motor Corporation
Tata Motors Limited
Thor Industries, Inc.
Tofas Türk Otomobil Fabrikasi A.S.
Toyota Motor Corporation
TVS Motor Company Limited
Yulon Motor Company Ltd.

GICS 2520

361 Degrees International Limited
AB Electrolux (publ)
Accell Group N.V.

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Li & Fung Limited	Tainan Spinning Co., Ltd.	Beazer Homes USA, Inc.
Li Cheng Enterprise Co., Ltd.	Taiwan Paiho Limited	Bellway p.l.c.
Li Peng Enterprise Co., Ltd.	Tamron Co.,Ltd.	Bovis Homes Group PLC
Libbey Inc.	Taylor Wimpey plc	Breville Group Limited
LPP Spolka Akcyjna	TCL Multimedia	Casio Computer Co., Ltd.
Luxottica Group S.p.A.	Technology Holdings Limited	Cavco Industries, Inc.
M.D.C. Holdings, Inc.	Techtronic Industries Company Limited	Chofu Seisakusho Co., Ltd.
M/I Homes, Inc.	Ted Baker PLC	Clarion Co., Ltd.
Makalot Industrial Co., Ltd.	Tempur Sealy International, Inc.	Cleanup Corporation
Man Wah Holdings Limited	Texhong Textile Group Limited	Consorcio ARA, S. A. B. de C. V.
Mattel, Inc.	Texwinca Holdings Limited	Corona Corporation
Merida Industry Co.,Ltd.	The Berkeley Group Holdings plc	Coway Co., Ltd.
Meritage Homes Corporation	The Japan Wool Textile Co., Ltd.	CSS Industries, Inc.
Michael Kors Holdings Limited	The Swatch Group AG	D.R. Horton, Inc.
Misawa Homes Co., Ltd.	Titan Company Limited	De'Longhi S.p.A.
Mitsui Home Co., Ltd.	TOD'S S.p.A.	Duni AB (publ)
Mizuno Corporation	Toll Brothers, Inc.	France Bed Holdings Co. Ltd.
Mohawk Industries, Inc.	Topkey Corporation	Fujitsu General Limited
Movado Group, Inc.	Toung Loong Textile MFG. Co., LTD.	Hanssem Co., Ltd.
Nan Liu Enterprise Co., Ltd.	Trigano S.A.	Hefei Meiling Co., Ltd.
Nien Hsing Textile Co., Ltd.	Tsutsumi Jewelry Co., Ltd.	Hisense Kelon Electrical Holdings Company Limited
NIKE, Inc.	TTK Prestige Limited	Husqvarna AB (publ)
Nobia AB (publ)	Tupperware Brands Corporation	iRobot Corporation
NVR, Inc.	Under Armour, Inc.	JM AB (publ)
Onward Holdings Co., Ltd.	Universal Electronics Inc.	Johnson Controls - Hitachi KB Home
Oriental Weavers Company For Carpets (S.A.E)	Universal Entertainment Corporation	Kinpo Electronics, Inc.
Oxford Industries, Inc.	Van De Velde NV	La Opala RG Limited
Pacific Textiles Holdings Limited	Vardhman Textiles Limited	Lennar Corporation
Page Industries Limited	Vera Bradley, Inc.	Libbey Inc.
Pandora A/S	Wacoal Holdings Corp.	M.D.C. Holdings, Inc.
Pegas Nonwovens S.A.	Welspun India Limited	M/I Homes, Inc.
Persimmon plc	Whirlpool Corporation	Man Wah Holdings Limited
Polaris Industries Inc.	Whirlpool of India Limited	Meritage Homes Corporation
Pou Chen Corporation	Wolverine World Wide, Inc.	Misawa Homes Co., Ltd.
PulteGroup, Inc.	Xtep International Holdings Limited	Mitsui Home Co., Ltd.
Rajesh Exports Limited	Yamaha Corporation	Mohawk Industries, Inc.
Ralph Lauren Corporation	Yondoshi Holdings Inc.	Nobia AB (publ)
Raymond Limited	Yonex Co., Ltd.	NVR, Inc.
Redrow plc	Youngone Corporation	Oriental Weavers Company For Carpets (S.A.E)
Rinnai Corporation	Youngone Holdings Co., Ltd.	Persimmon plc
Salvatore Ferragamo S.p.A.	Zeng Hsing Industrial Co., Ltd.	PulteGroup, Inc.
Sampo Corporation	Zojirushi Corporation	Redrow plc
Sangetsu Corporation		Rinnai Corporation
Sankyo Co., Ltd.		Sampo Corporation
SEB SA		Sangetsu Corporation
Seiko Holdings Corporation		SEB SA
Sekisui House, Ltd.		Sekisui House, Ltd.
Shenzhou International Group Holdings Limited		Symphony Limited
Shimano Inc.		Tamron Co.,Ltd.
Sioen Industries NV		Taylor Wimpey plc
Skechers U.S.A., Inc.		TCL Multimedia
SRF Limited		Technology Holdings Limited
Steven Madden, Ltd.		Techtronic Industries Company Limited
Sturm, Ruger & Company, Inc.		
Symphony Limited		
	GICS 252010	
	AB Electrolux (publ)	
	Alpine Electronics, Inc.	
	AmTRAN Technology Co.,Ltd	
	Arçelik Anonim Sirketi	
	Barratt Developments plc	
	Basso Industry Corp.	

Tempur Sealy International, Inc.
The Berkeley Group Holdings plc
Toll Brothers, Inc.
TTK Prestige Limited
Tupperware Brands Corporation
Universal Electronics Inc.
Whirlpool Corporation
Whirlpool of India Limited
Zeng Hsing Industrial Co., Ltd.
Zojirushi Corporation

Bijou Brigitte modische Accessoires
Aktiengesellschaft
Bosideng International Holdings Limited
BRUNELLO CUCINELLI S.p.A.
Burberry Group plc
C.BANNER
INTERNATIONAL Holdings Limited
China Dongxiang (Group) Co., Ltd.
China Lilang Limited
Citychamp Watch & Jewellery Group Limited

Movado Group, Inc.
Nan Liu Enterprise Co., Ltd.
Nien Hsing Textile Co., Ltd.
NIKE, Inc.
Onward Holdings Co., Ltd.
Oxford Industries, Inc.
Pacific Textiles Holdings Limited
Page Industries Limited
Pandora A/S
Pegas Nonwovens S.A.
Pou Chen Corporation
Rajesh Exports Limited
Ralph Lauren Corporation
Raymond Limited
Salvatore Ferragamo S.p.A.
Seiko Holdings Corporation
Shenzhou International Group Holdings Limited
Sioen Industries NV
SRF Limited
Steven Madden, Ltd.
Tainan Spinning Co., Ltd.
Taiwan Paiho Limited
Ted Baker PLC
Texhong Textile Group Limited
Texwinca Holdings Limited
The Japan Wool Textile Co., Ltd.
The Swatch Group AG
Titan Company Limited
TOD'S S.p.A.
Toung Loong Textile MFG. Co., LTD.
Tsutsumi Jewelry Co., Ltd.
Under Armour, Inc.
Van De Velde NV
Vardhman Textiles Limited
Vera Bradley, Inc.
Wacoal Holdings Corp.
Welspun India Limited
Wolverine World Wide, Inc.
Xtep International Holdings Limited
Yondoshi Holdings Inc.
Youngone Corporation
Youngone Holdings Co., Ltd.

Columbia Sportswear Company
Compagnie Financière Richemont SA
Crocs, Inc.
Deckers Outdoor Corporation
Delta Galil Industries Ltd.
Descente Ltd.
Eclat Textile Corporation Ltd.
Feng Tay Enterprises Co., Ltd.
Fila Korea Ltd.
Forus S.A.
Fossil Group, Inc.
Geox S.p.A.
G-III Apparel Group, Ltd.
Gildan Activewear Inc.
Goldwin Inc.
Guararapes Confeccoes S.A.
HANDSOME Corp.
Hanesbrands Inc.
Hansae Co., Ltd.
Hansae Yes24 Holdings Co., Ltd
Hermès International Société
Himatsingka Seide Limited
Hugo Boss AG
Hwaseung Industries Co., Ltd.
IC Group A/S
Ilshin Spinning Co., Ltd
Indo Count Industries Limited
K.P.R. Mill Limited
Kyungbang Co.,Ltd
Lealea Enterprise Co., Ltd.
LF Corp.
Li & Fung Limited
Li Cheng Enterprise Co., Ltd.
Li Peng Enterprise Co., Ltd.
LPP Spolka Akcyjna
Luxottica Group S.p.A.
Makalot Industrial Co., Ltd.

GICS 252020

Accell Group N.V.
American Outdoor Brands Corporation
Bénéteau S.A.
Dunlop Sports Co. Ltd.
Fields Corporation
Giant Manufacturing Co., Ltd.
Goodbaby International Holdings Limited
Hasbro, Inc.
Heiwa Corporation
Johnson Health Tech. Co., Ltd.
KMC (Kuei Meng) International Inc.
Mattel, Inc.
Merida Industry Co.,Ltd.
Mizuno Corporation
Polaris Industries Inc.
Sankyo Co., Ltd.
Shimano Inc.
Sturm, Ruger & Company, Inc.
Topkey Corporation
Trigano S.A.
Universal Entertainment Corporation
Yonex Co., Ltd.

GICS 252030

361 Degrees International Limited
Adidas AG
Aksa Akrilik Kimya Sanayii A.S.
Alpargatas S.A.
ANTA Sports Products Limited
Arezzo Indústria e Comércio S.A.
Arvind Limited
ASICS Corporation
Bata India Limited

GICS 2530

888 Holdings plc
Accor SA
Adtalem Global Education Inc.
ADvTECH Limited
Aeon Fantasy Co., Ltd.
Ainsworth Game Technology Limited
Alsea, S.A.B. De C.V.
American Public Education, Inc.

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Arcland Service Holdings Co., Ltd.	Genting Berhad	Paradise Co., Ltd.
Aristocrat Leisure Limited	Genting Malaysia Berhad	Plenus Company Limited
ATOM Corporation	Genting Singapore PLC	Prestariang Berhad
Autogrill S.p.A.	Gourmet Master Co. Ltd.	Red Robin Gourmet Burgers, Inc.
Benesse Holdings, Inc.	Grand Korea Leisure Co., Ltd.	Resorttrust, Inc.
Bet-At-Home.com AG	Great Canadian Gaming Corporation	Rezidor Hotel Group AB (publ)
Betsson AB	Greek Organization of Football Prognostics S.A.	Ringer Hut Co., Ltd.
Biglari Holdings Inc.	Greene King plc	Royal Caribbean Cruises Ltd.
BJ's Restaurants, Inc.	Greggs plc	Royal Holdings Co., Ltd.
Bronco Billy Co., Ltd.	H.I.S. Co., Ltd.	Ruth's Hospitality Group, Inc.
Buffalo Wild Wings, Inc.	Hanatour Service Inc.	Saint Marc Holdings Co., Ltd.
Café de Coral Holdings Limited	Hiday Hidaka Corp.	Saizeriya Co., Ltd.
Capella Education Company	Hiramatsu Inc.	Sands China Ltd.
Carnival Corporation	Ichibanya Co., Ltd.	Shangri-La Asia Limited
Carriage Services, Inc.	ILG, Inc.	SHINSEGAE FOOD Inc.
China Travel International Investment Hong Kong Limited	International Speedway Corporation	SkiStar AB (publ)
Chipotle Mexican Grill, Inc.	InvoCare Limited	SKYCITY Entertainment Group Limited
Chuy's Holdings, Inc.	J D Wetherspoon plc	Sotheby's
City Lodge Hotels Limited	Jollibee Foods Corporation	Speedway Motorsports, Inc.
Colowide Co., Ltd.	Jubilant FoodWorks Limited	Starbucks Corporation
Compass Group PLC	K12 Inc.	Strayer Education, Inc.
Corporate Travel Management Limited	Kangwon Land, Inc.	Studio Alice Co., Ltd.
Cox & Kings Limited	Kisoji Co., Ltd.	Tabcorp Holdings Limited
Cracker Barrel Old Country Store, Inc.	KNT-CT Holdings Co., Ltd.	Tatts Group Limited
create restaurants holdings inc.	Koshidaka Holdings Co., Ltd.	Texas Roadhouse, Inc.
Curro Holdings Limited	Kura Corporation	The Ambassador Hotel, Ltd.
Daekyo Co., Ltd.	Ladbrokes Coral Group plc	The Cheesecake Factory Incorporated
Darden Restaurants, Inc.	Las Vegas Sands Corp.	The Erawan Group Public Company Limited
Delta Corp Limited	Lungyen Life Service Corporation	The Restaurant Group plc
DO & CO Aktiengesellschaft	Magnum Berhad	The Star Entertainment Group Limited
Domino's Pizza Enterprises Limited	Mahindra Holidays & Resorts India Limited	The Wendy's Company
Domino's Pizza Group plc	Marriott Vacations Worldwide Corporation	Thomas Cook (India) Limited
DOUTOR NICHIRETS Holdings Co., Ltd.	Matsuya Foods Co., Ltd.	Tokyo Dome Corporation
Dunkin' Brands Group, Inc.	Meiko Network Japan Co., Ltd.	Tokyoikeiba Co., Ltd.
Ei Group plc	Melco International Development Limited	TORIDOLL Holdings Corporation
EIH Limited	Meliá Hotels International, S.A.	Tosho Co., Ltd.
Emerson Pacific Inc.	MGM China Holdings Limited	Tsogo Sun Holdings Limited
Emperor Entertainment Hotel Limited	MGM Resorts International	TUI AG
EnerCare Inc.	Minor International Public Company Limited	Vail Resorts, Inc.
Estácio Participações S.A.	Mitchells & Butlers plc	Whitbread PLC
Famous Brands Limited	MODETOUR NETWORK Inc.	William Hill plc
Fiesta Restaurant Group, Inc.	Monarch Casino & Resort, Inc.	Wowprime Corp.
Flight Centre Travel Group Limited	MOS Food Services, Inc.	Wynn Macau, Limited
Formosa International Hotels Corporation	Navitas Limited	Yomiuri Land Co., Ltd.
Fuji Kyuko Co., Ltd.	Net Holding A.S	Yoshinoya Holdings Co., Ltd.
G8 Education Limited	Ohsho Food Service Corp.	ZEAL Network SE
Galaxy Entertainment Group Limited	Oriental Land Co., Ltd.	Zensho Holdings Co., Ltd.
	Paddy Power Betfair plc	

GICS 253010

888 Holdings plc
 Accor SA
 Aeon Fantasy Co., Ltd.
 Ainsworth Game Technology Limited
 Alsea, S.A.B. De C.V.
 Arcland Service Holdings Co., Ltd.
 Aristocrat Leisure Limited
 ATOM Corporation
 Autogrill S.p.A.
 Bet-At-Home.com AG
 Betsson AB
 Biglari Holdings Inc.
 BJ's Restaurants, Inc.
 Bronco Billy Co., Ltd.
 Buffalo Wild Wings, Inc.
 Café de Coral Holdings Limited
 Carnival Corporation
 China Travel International Investment Hong Kong Limited
 Chipotle Mexican Grill, Inc.
 Chuy's Holdings, Inc.
 City Lodge Hotels Limited
 Colowide Co., Ltd.
 Compass Group PLC
 Corporate Travel Management Limited
 Cox & Kings Limited
 Cracker Barrel Old Country Store, Inc.
 create restaurants holdings inc.
 Darden Restaurants, Inc.
 Delta Corp Limited
 DO & CO Aktiengesellschaft
 Domino's Pizza Enterprises Limited
 Domino's Pizza Group plc
 DOUTOR NICHIRE Holdings Co., Ltd.
 Dunkin' Brands Group, Inc.
 Ei Group plc
 EIH Limited
 Emerson Pacific Inc.
 Emperor Entertainment Hotel Limited
 Famous Brands Limited
 Fiesta Restaurant Group, Inc.
 Flight Centre Travel Group Limited
 Formosa International Hotels Corporation
 Fuji Kyuko Co., Ltd.
 Galaxy Entertainment Group Limited
 Genting Berhad
 Genting Malaysia Berhad

Genting Singapore PLC
 Gourmet Master Co. Ltd.
 Grand Korea Leisure Co., Ltd.
 Great Canadian Gaming Corporation
 Greek Organization of Football Prognostics S.A.
 Greene King plc
 Greggs plc
 H.I.S. Co., Ltd.
 Hanatour Service Inc.
 Hiday Hidaka Corp.
 Hiramatsu Inc.
 Ichibanya Co., Ltd.
 ILG, Inc.
 International Speedway Corporation
 J D Wetherspoon plc
 Jollibee Foods Corporation
 Jubilant FoodWorks Limited
 Kangwon Land, Inc.
 Kisoji Co., Ltd.
 KNT-CT Holdings Co., Ltd.
 Koshidaka Holdings Co., Ltd.
 Kura Corporation
 Ladbrokes Coral Group plc
 Las Vegas Sands Corp.
 Magnum Berhad
 Mahindra Holidays & Resorts India Limited
 Marriott Vacations Worldwide Corporation
 Matsuya Foods Co., Ltd.
 Melco International Development Limited
 Meliá Hotels International, S.A.
 MGM China Holdings Limited
 MGM Resorts International
 Minor International Public Company Limited
 Mitchells & Butlers plc
 MODETOUR NETWORK Inc.
 Monarch Casino & Resort, Inc.
 MOS Food Services, Inc.
 Net Holding A.S
 Ohsho Food Service Corp.
 Oriental Land Co., Ltd.
 Paddy Power Betfair plc
 Paradise Co., Ltd.
 Plenus Company Limited
 Red Robin Gourmet Burgers, Inc.
 Resorttrust, Inc.
 Rezidor Hotel Group AB (publ)
 Ringer Hut Co., Ltd.
 Royal Caribbean Cruises

Ltd.
 Royal Holdings Co., Ltd.
 Ruth's Hospitality Group, Inc.
 Saint Marc Holdings Co., Ltd.
 Saizeriya Co., Ltd.
 Sands China Ltd.
 Shangri-La Asia Limited
 SHINSEGAE FOOD Inc.
 SkiStar AB (publ)
 SKYCITY Entertainment Group Limited
 Speedway Motorsports, Inc.
 Starbucks Corporation
 Tabcorp Holdings Limited
 Tatts Group Limited
 Texas Roadhouse, Inc.
 The Ambassador Hotel, Ltd.
 The Cheesecake Factory Incorporated
 The Erawan Group Public Company Limited
 The Restaurant Group plc
 The Star Entertainment Group Limited
 The Wendy's Company
 Thomas Cook (India) Limited
 Tokyo Dome Corporation
 Tokyotokeiba Co., Ltd.
 TORIDOLL Holdings Corporation
 Tosho Co., Ltd.
 Tsogo Sun Holdings Limited
 TUI AG
 Vail Resorts, Inc.
 Whitbread PLC
 William Hill plc
 Wowprime Corp.
 Wynn Macau, Limited
 Yomiuri Land Co., Ltd.
 Yoshinoya Holdings Co., Ltd.
 ZEAL Network SE
 Zensho Holdings Co., Ltd.

GICS 253020

Adtalem Global Education Inc.
 ADvTECH Limited
 American Public Education, Inc.
 Benesse Holdings, Inc.
 Capella Education Company
 Carriage Services, Inc.
 Curro Holdings Limited
 Daekyo Co., Ltd.
 EnerCare Inc.
 Estácio Participações S.A.

G8 Education Limited
 InvoCare Limited
 K12 Inc.
 Lungyen Life Service Corporation
 Meiko Network Japan Co., Ltd.
 Navitas Limited
 Prestariang Berhad
 Sotheby's
 Strayer Education, Inc.
 Studio Alice Co., Ltd.

Ipsos SA
 ITE Group plc
 ITV plc
 Jagran Prakashan Limited
 JCDecaux SA
 Jcontentree corp.
 John Wiley & Sons, Inc.
 KT Skylife Co., Ltd.
 LOEN Entertainment, Inc.
 Media Prima Berhad
 Mediaset España Comunicación, S.A.
 Meredith Corporation
 Métropole Télévision S.A.
 Modern Times Group Mtg AB
 Multiplus S.A.
 NOS, S.G.P.S., S.A.
 Omnicom Group Inc.
 Proto Corporation
 PT Surya Citra Media Tbk
 PT Visi Media Asia Tbk
 PT. Global Mediacom Tbk
 PT. Media Nusantara Citra Tbk
 Publicis Groupe S.A.
 PVR Limited
 Quebecor Inc.
 RS Public Company Limited
 RTL Group SA
 S.M. Entertainment Co., Ltd.
 SBS Media Holdings Co., Ltd.
 Scholastic Corporation
 Scripps Networks Interactive, Inc.
 Septeni Holdings Co., Ltd.
 SES S.A.
 Shaw Communications Inc.
 Shochiku Co., Ltd.
 Showbox Corp.
 Sinclair Broadcast Group, Inc.
 SKY Network Television Limited
 Sky plc
 SMI Holdings Group Limited
 Ströer SE & Co. KGaA
 Television Broadcasts Limited
 Télévision Française 1 SA
 The E. W. Scripps Company
 The Interpublic Group of Companies, Inc.
 The New York Times Company
 Time Warner Inc.
 Toei Animation Co., Ltd.
 Toei Company, Ltd.

Tokyo Broadcasting System Holdings, Inc.
 TV Asahi Holdings Corporation
 TV Azteca SAB de CV
 TV18 Broadcast Limited
 Twenty-First Century Fox, Inc.
 UBM plc
 Vector Inc.
 Viacom, Inc.
 Vivendi SA
 Woongjin Thinkbig Co., Ltd.
 Workpoint Entertainment Pub. Comp.
 World Wrestling Entertainment, Inc.
 WOWOW INC.
 WPP AUNZ Limited
 WPP plc
 YG Entertainment Inc.
 Zee Entertainment Enterprises Limited
 Zenrin Co., Ltd.

GICS 2540

AMUSE Inc.
 APGJSGA SA
 Asatsu-DK Inc.
 Atresmedia Corporación de Medios de Comunicación, S.A.
 Axel Springer SE
 BEC World Public Company Limited
 Borussia Dortmund GmbH & Co.
 Kommanditgesellschaft auf Aktien
 Cairo Communication S.p.A.
 CBS Corporation
 Charter Communications, Inc.
 Cheil Worldwide Inc.
 Cinemark Holdings, Inc.
 Cineplex Inc.
 Cineworld Group plc
 CJ CGV Co., Ltd.
 CJ E&M Corporation
 Cogeco Communications Inc.
 Cogeco Inc.
 Corus Entertainment Inc.
 Cyfrowy Polsat S.A.
 Dentsu Inc.
 Discovery Communications, Inc.
 DISH Network Corporation
 Entercom Communications Corp.
 Entertainment One Ltd.
 Entravision Communications Corporation
 Eutelsat Communications S.A.
 GEDI Gruppo Editoriale S.p.A.
 Gray Television, Inc.
 Grupo Televisa, S.A.B.
 Hakuholdo DY Holdings Inc
 Havas SA
 Hyundai HCN Co., Ltd.
 Informa plc
 Inox Leisure Limited

GICS 2550

Aaron's, Inc.
 ABC-Mart, Inc.
 Abercrombie & Fitch Co.
 Accent Group Limited
 Adastria Co., Ltd.
 Advance Auto Parts, Inc.
 Alpen Co., Ltd.
 Amazon.com, Inc.
 American Eagle Outfitters, Inc.
 Aoyama Trading Co., Ltd.
 Arcland Sakamoto Co., Ltd.
 Asahi Co., Ltd.
 Asbury Automotive Group, Inc.
 ASKUL Corporation
 Autobacs Seven Co., Ltd.
 AutoCanada Inc.
 Automotive Holdings Group Limited
 AutoNation, Inc.
 Bed Bath & Beyond Inc.
 Belluna Co., Ltd.
 Best Buy Co., Inc.
 Bic Camera Inc.
 Big 5 Sporting Goods Corporation
 Big Lots, Inc.
 Bilia AB
 Booking Holdings Inc.
 Byggmax Group AB (publ)
 Caleres, Inc.
 Canadian Tire Corporation, Limited
 Canon Marketing Japan Inc.
 CarMax Inc.

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Cashbuild Limited	Haverty Furniture Companies, Inc.	N Brown Group plc
Chico's FAS, Inc.	Hengdeli Holdings Limited	Netflix, Inc.
China Zhengtong Auto Services Holdings Limited	Hibbett Sports, Inc.	Next Plc
Chiyoda Co., Ltd.	Home Product Center Public Company Limited	Nishimatsuya Chain Co., Ltd.
Chori Co., Ltd.	Hornbach Baumarkt AG	Nitori Holdings Co., Ltd.
Chow Sang Sang Holdings International Limited	Hotai Motor Co., Ltd.	Nojima Corporation
Cia. Hering	Hotel Shilla Co.,Ltd	Nordstrom, Inc.
Citi Trends, Inc.	HSN, Inc.	Nutrisystem, Inc.
Clas Ohlson AB (publ)	Hyundai Department Store Co., Ltd.	Ocado Group plc
Conn's, Inc.	Hyundai Home Shopping Network Corporation	Office Depot, Inc.
Core-Mark Holding Company, Inc.	IDOM Inc.	O'Reilly Automotive, Inc.
Dah Chong Hong Holdings Limited	Imperial Holdings Limited	Overstock.com, Inc.
DCM Holdings Co., Ltd.	Inchcape plc	Padini Holdings Berhad
Debenhams plc	Industria de Diseño Textil, S.A.	PAL GROUP Holdings CO., LTD.
Delek Automotive Systems Ltd.	Isetan Mitsukoshi Holdings Ltd.	Paltac Corporation
Dick's Sporting Goods, Inc.	Izumi Co., Ltd.	Parco Co. Ltd.
Dillard's, Inc.	Jardine Cycle & Carriage Limited	Parkson Retail Group Limited
Dollar General Corporation	JB Hi-Fi Limited	PC Depot Corporation
Dollar Tree, Inc.	JD Sports Fashion plc	Penske Automotive Group, Inc.
Dollarama Inc.	JINS Inc.	PetMed Express, Inc.
Don Quijote Holdings Co., Ltd.	Joshin Denki Co., Ltd.	Pier 1 Imports, Inc.
Doshisha Co.,Ltd.	Jumbo S.A.	Pool Corporation
DSW Inc.	KappAhl AB (publ)	Pou Sheng International (Holdings) Limited
Dufry AG	Keiyo Co., Ltd.	POYA International Co., Ltd.
Dunelm Group plc	Kingfisher plc	Premier Investments Limited
EDION Corporation	Kirkland's, Inc.	PT Ace Hardware Indonesia Tbk
El Puerto de Liverpool, SAB de CV	Kohl's Corporation	PT Ramayana Lestari Sentosa Tbk
Expedia, Inc.	Kohnan Shoji Co., Ltd.	PT. Mitra Adiperkasa Tbk
Express, Inc.	Kolao Holdings	Public Joint Stock Company M.video
Far Eastern Department Stores, Ltd.	Komeri Co.,Ltd.	RIGHT ON Co., Ltd.
Fast Retailing Co., Ltd.	K's Holdings Corporation	Robinson Public Company Limited
Five Below, Inc.	Lewis Group Limited	Ross Stores, Inc.
Foot Locker, Inc.	Lithia Motors, Inc.	Ryohin Keikaku Co., Ltd.
Francesca's Holdings Corporation	LKQ Corporation	Sa Sa International Holdings Limited
Fuji Co., Ltd.	Lojas Americanas S.A.	Sac's Bar Holdings Inc.
GameStop Corp.	Lojas Renner S.A.	Sanrio Company, Ltd.
Genesco Inc.	Lookers plc	Senao International Co., Ltd.
Geo Holdings Corporation	LOTTE Himart Co.,Ltd.	Senshukai Co., Ltd.
Giordano International Limited	Lowe's Companies, Inc.	Seria Co., Ltd.
Golden Eagle Retail Group Limited	Luk Fook Holdings (International) Limited	Shimachu Co., Ltd.
Group 1 Automotive, Inc.	Lumber Liquidators Holdings, Inc.	Shimamura Co. Ltd.
GS Home Shopping Inc.	Macy's, Inc.	Shinsegae International Co., Ltd.
Guess?, Inc.	Magazine Luiza S.A.	Shoe Carnival, Inc.
Gwangju Shinsegae Co., Ltd.	MarineMax, Inc.	Shoppers Stop Limited
H & M Hennes & Mauritz AB (publ)	Marisa Lojas S.A.	Shutterfly, Inc.
Halfords Group plc	Marui Group Co., Ltd.	Siam Global House Public Company Limited
Harvey Norman Holdings Limited	Matsuya Co., Ltd.	Signet Jewelers Limited
	Mekonomen AB	Sports Direct International plc
	Michael Hill International Limited	
	Mr Price Group Limited	
	Myer Holdings Limited	

Start Today Co., Ltd.
 Super Retail Group Limited
 Superdry Plc
 Takashimaya Company, Limited
 TAKKT AG
 Target Corporation
 Test-Rite International Co., Ltd.
 T-Gaia Corporation
 The Buckle, Inc.
 The Cato Corporation
 The Children's Place, Inc.
 The Finish Line, Inc.
 The Foschini Group Limited
 The Gap, Inc.
 The Home Depot, Inc.
 The TJX Companies, Inc.
 Tiffany & Co.
 Tractor Supply Company
 Trade Me Group Limited
 TripAdvisor, Inc.
 Truworths International Limited
 Ulta Beauty, Inc.
 Uni-Select Inc.
 United Arrows Ltd.
 Urban Outfitters, Inc.
 USS Co., Ltd.
 Valora Holding AG
 Vita Group Limited
 Vitamin Shoppe, Inc.
 VT Holdings Co., Ltd.
 Webjet Limited
 Weyco Group, Inc.
 WH Smith PLC
 Williams-Sonoma, Inc.
 Xebio Holdings Co., Ltd.
 Xinhua Winshare Publishing & Media
 Yamada Denki Co., Ltd.
 Yellow Hat Ltd.
 YOOX Net-A-Porter Group S.p.A.
 Zhongsheng Group Holdings Limited
 zooplus AG
 Zumiez Inc.

LKQ Corporation
 Paltac Corporation
 Pool Corporation
 Uni-Select Inc.
 Weyco Group, Inc.
 Xinhua Winshare Publishing & Media

GICS 255020

Amazon.com, Inc.
 ASKUL Corporation
 Belluna Co., Ltd.
 Booking Holdings Inc.
 Expedia, Inc.
 GS Home Shopping Inc.
 HSN, Inc.
 Hyundai Home Shopping Network Corporation
 N Brown Group plc
 Netflix, Inc.
 Nutrisystem, Inc.
 Ocado Group plc
 Overstock.com, Inc.
 PetMed Express, Inc.
 Senshukai Co., Ltd.
 Shutterfly, Inc.
 Start Today Co., Ltd.
 TAKKT AG
 Trade Me Group Limited
 TripAdvisor, Inc.
 Webjet Limited
 YOOX Net-A-Porter Group S.p.A.
 zooplus AG

GICS 255030

Big Lots, Inc.
 Canadian Tire Corporation, Limited
 Debenhams plc
 Dillard's, Inc.
 Dollar General Corporation
 Dollar Tree, Inc.
 Dollarama Inc.
 Don Quijote Holdings Co., Ltd.
 El Puerto de Liverpool, SAB de CV
 Far Eastern Department Stores, Ltd.
 Fuji Co., Ltd.
 Golden Eagle Retail Group Limited
 Gwangju Shinsegae Co., Ltd.
 Harvey Norman Holdings Limited
 Hyundai Department Store Co., Ltd.
 Isetan Mitsukoshi Holdings Ltd.
 Izumi Co., Ltd.

Kohl's Corporation
 Lojas Renner S.A.
 Macy's, Inc.
 Magazine Luiza S.A.
 Marisa Lojas S.A.
 Marui Group Co., Ltd.
 Matsuya Co., Ltd.
 Myer Holdings Limited
 Nordstrom, Inc.
 Parco Co. Ltd.
 Parkson Retail Group Limited
 POYA International Co., Ltd.
 PT Ramayana Lestari Sentosa Tbk
 PT. Mitra Adiperkasa Tbk
 Robinson Public Company Limited
 Ryohin Keikaku Co., Ltd.
 Seria Co., Ltd.
 Shoppers Stop Limited
 Takashimaya Company, Limited
 Target Corporation

GICS 255040

Aaron's, Inc.
 ABC-Mart, Inc.
 Abercrombie & Fitch Co.
 Accent Group Limited
 Adastria Co., Ltd.
 Advance Auto Parts, Inc.
 Alpen Co., Ltd.
 American Eagle Outfitters, Inc.
 Aoyama Trading Co., Ltd.
 Arcland Sakamoto Co., Ltd.
 Asahi Co., Ltd.
 Asbury Automotive Group, Inc.
 Autobacs Seven Co., Ltd.
 AutoCanada Inc.
 Automotive Holdings Group Limited
 AutoNation, Inc.
 Bed Bath & Beyond Inc.
 Best Buy Co., Inc.
 Bic Camera Inc.
 Big 5 Sporting Goods Corporation
 Bilia AB
 Byggmax Group AB (publ)
 Caleres, Inc.
 CarMax Inc.
 Cashbuild Limited
 Chico's FAS, Inc.
 China Zhengtong Auto Services Holdings Limited
 Chiyoda Co., Ltd.
 Chow Sang Sang Holdings International Limited
 Cia. Hering

GICS 255010

Canon Marketing Japan Inc.
 Chori Co., Ltd.
 Core-Mark Holding Company, Inc.
 Dah Chong Hong Holdings Limited
 Doshisha Co.,Ltd.
 Inchcape plc
 Jardine Cycle & Carriage Limited

Citi Trends, Inc.
 Clas Ohlson AB (publ)
 Conn's, Inc.
 DCM Holdings Co., Ltd.
 Delek Automotive Systems Ltd.
 Dick's Sporting Goods, Inc.
 DSW Inc.
 Dufry AG
 Dunelm Group plc
 EDION Corporation
 Express, Inc.
 Fast Retailing Co., Ltd.
 Five Below, Inc.
 Foot Locker, Inc.
 Francesca's Holdings Corporation
 GameStop Corp.
 Genesco Inc.
 Geo Holdings Corporation
 Giordano International Limited
 Group 1 Automotive, Inc.
 Guess?, Inc.
 H & M Hennes & Mauritz AB (publ)
 Halfords Group plc
 Haverty Furniture Companies, Inc.
 Hibbett Sports, Inc.
 Home Product Center Public Company Limited
 Hornbach Baumarkt AG
 Hotai Motor Co., Ltd.
 Hotel Shilla Co.,Ltd
 IDOM Inc.
 Industria de Diseño Textil, S.A.
 JB Hi-Fi Limited
 JD Sports Fashion plc
 JINS Inc.
 Joshin Denki Co., Ltd.
 Jumbo S.A.
 KappAhl AB (publ)
 Keiyo Co., Ltd.
 Kingfisher plc
 Kirkland's, Inc.
 Kohnan Shoji Co., Ltd.
 Komeri Co.,Ltd.
 K's Holdings Corporation
 Lewis Group Limited
 Lithia Motors, Inc.
 Lookers plc
 LOTTE Himart Co.,Ltd.
 Lowe's Companies, Inc.
 Lumber Liquidators Holdings, Inc.
 MarineMax, Inc.
 Mekonomen AB
 Michael Hill International Limited
 Mr Price Group Limited

Nishimatsuya Chain Co., Ltd.
 Nitori Holdings Co., Ltd.
 Nojima Corporation
 Office Depot, Inc.
 O'Reilly Automotive, Inc.
 Padini Holdings Berhad
 PC Depot Corporation
 Penske Automotive Group, Inc.
 Pier 1 Imports, Inc.
 Pou Sheng International (Holdings) Limited
 Premier Investments Limited
 PT Ace Hardware Indonesia Tbk
 Public Joint Stock Company M.video
 RIGHT ON Co., Ltd.
 Ross Stores, Inc.
 Sa Sa International Holdings Limited
 Sac's Bar Holdings Inc.
 Sanrio Company, Ltd.
 Senao International Co., Ltd.
 Shimachu Co., Ltd.
 Shimamura Co. Ltd.
 Shinsegae International Co., Ltd.
 Shoe Carnival, Inc.
 Siam Global House Public Company Limited
 Signet Jewelers Limited
 Sports Direct International plc
 Super Retail Group Limited
 T-Gaia Corporation
 The Buckle, Inc.
 The Cato Corporation
 The Children's Place, Inc.
 The Finish Line, Inc.
 The Foschini Group Limited
 The Gap, Inc.
 The Home Depot, Inc.
 The TJX Companies, Inc.
 Tiffany & Co.
 Tractor Supply Company
 Truworths International Limited
 Ulta Beauty, Inc.
 United Arrows Ltd.
 Urban Outfitters, Inc.
 USS Co., Ltd.
 Valora Holding AG
 Vita Group Limited
 Vitamin Shoppe, Inc.
 VT Holdings Co., Ltd.
 WH Smith PLC
 Xebio Holdings Co., Ltd.
 Yamada Denki Co., Ltd.

Yellow Hat Ltd.
 Zhongsheng Group Holdings Limited
 Zumiez Inc.

GICS 30

AAK AB (publ.)
 Able C&C Co., Ltd.
 Agthia Group PJSC
 Ain Holdings Inc.
 Ajinomoto Co., Inc.
 Al Meera Consumer Goods Company Q.S.C.
 Alimentation Couche-Tard Inc.
 Almacenes Éxito S.A.
 Altria Group, Inc.
 Ambev S.A.
 Amorepacific Corporation
 AmorePacific Group
 Anadolu Efes Biracilik ve Malt Sanayii Anonim Sirketi
 Anheuser-Busch InBev SA/NV
 Anhui Gujing Distillery Co., Ltd.
 Arca Continental, S. A. B. de C. V.
 Archer-Daniels-Midland Company
 ARCS Company Limited
 ARIAKE JAPAN Co., Ltd.
 Asahi Group Holdings, Ltd.
 Associated British Foods plc
 Astral Foods Limited
 Atria Oyj
 Austevoll Seafood ASA
 AVI Limited
 Axfood AB (publ)
 Axial Retailing Inc.
 B&G Foods, Inc.
 Bajaj Corp Limited
 Balrampur Chini Mills Limited
 Barry Callebaut AG
 Bega Cheese Limited
 Beiersdorf
 Aktiengesellschaft
 Belc CO., LTD.
 Bell Food Group AG
 BIM Birlesik Magazalar A.S.
 Binggrae Co., Ltd.
 Blackmores Limited
 Bob Evans Farms, Inc.
 Bonduelle SA
 Booker Group PLC
 BRF S.A.
 British American Tobacco Berhad
 British American Tobacco p.l.c.
 Britvic Plc

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Brown-Forman Corporation	Ltd.	Great Wall Enterprise Co., Ltd.
Bumitama Agri Ltd.	CROWNHAITAI Holdings CO.,LTD.	Greencore Group plc
Bunge Limited	Dabur India Limited	Greenyard NV
C&C Group plc	Daehan Flour Mills Co.,Ltd	Gruma, S.A.B. de C.V.
Calavo Growers, Inc.	Daesang Corporation	Grupo Bimbo, S.A.B. de C.V.
Calbee, Inc.	Daesang Holdings Co., Ltd.	Grupo Comercial Chedraui, S.A.B. DE C.V.
Cal-Maine Foods, Inc.	Daikokutenbussan Co.,Ltd.	Grupo Herdez, S.A.B. de C.V.
Campbell Soup Company	Dairy Crest Group plc	GSRetail Co., Ltd.
Carlsberg A/S	Danone	Halows Co.,Ltd.
Carlsberg Brewery Malaysia Berhad	Davide Campari-Milano S.p.A.	Heineken N.V.
Carrefour SA	Diageo plc	Heiwado Co., Ltd.
Casey's General Stores, Inc.	Distribuidora Internacional de Alimentación, S.A.	Hengan International Group Company Limited
Casino, Guichard-Perrachon Soc.	Dong Suh Companies Inc.	High Liner Foods Incorporated
Cawachi Limited	Dongwon F&B Co., Ltd.	Hindustan Unilever Limited
Cencosud S.A.	Dongwon Industries Co., Ltd.	HITEJINRO Co., Ltd.
Charoen Pokphand Enterprise (Taiwan) Co., Ltd.	Dr Pepper Snapple Group, Inc.	Hokuto Corporation
Charoen Pokphand Foods Public Company Limited	DyDo Group Holdings, Inc.	Hormel Foods Corporation
China Agri-Industries Holdings Limited	Earth Chemical Co., Ltd.	House Foods Group Inc.
China Foods Limited	EASY BIO, Inc.	Indofood Agri Resources Ltd.
China Mengniu Dairy Company Limited	Ebro Foods, S.A.	Industrias Bachoco, S.A.B. de C.V.
China Modern Dairy Holdings Ltd.	Edgewell Personal Care Company	Ingles Markets, Incorporated
China Resources Beer (Holdings) Company Limited	EIS Eczacibasi Ilaç, Sinai ve Finansal Yatirimlar Sanayi ve Ticaret A.S.	Ingredion Incorporated
Chocoladefabriken Lindt & Sprüngli AG	Embotelladora Andina S.A.	Inter Parfums, Inc.
Church & Dwight Co., Inc.	Emmi AG	InterParfums SA
Ci:z Holdings Co.,Ltd.	Etn. Fr. Colruyt NV	IOI Corporation Berhad
CJ Freshway Corporation	Eurocash S.A.	ITC Limited
Cloetta AB (publ)	Eveready Industries India Limited	Ito En, Ltd.
Clover Industries Limited	Ezaki Glico Co.,Ltd.	ITOCHU-SHOKUHIN Co., Ltd.
Coca-Cola Amatil Limited	FamilyMart UNY Holdings Co., Ltd.	Itoham Yonekyu Holdings Inc.
Coca-Cola Bottling Co. Consolidated	Fancl Corporation	J Sainsbury plc
Coca-Cola FEMSA, S.A.B. de C.V.	Farmer Bros. Co.	J&J Snack Foods Corp.
Coca-Cola İçecek Anonim Sirketi	Farmsco	Japan Tobacco Inc.
cocokara fine Inc.	First Resources Limited	JBS S.A.
Companhia Brasileira de Distribuição	Flowers Foods, Inc.	Jerónimo Martins, SGPS, S.A.
Compañía Cervecerías Unidas S.A.	Fomento Económico Mexicano, S.A.B. de C.V.	John B. Sanfilippo & Son, Inc.
Conagra Brands, Inc.	Fresh Del Monte Produce Inc.	J-Oil Mills, Inc.
Constellation Brands, Inc.	Fuji Oil Holdings Inc.	Juhayna Food Industries S.A.E.
Corby Spirit and Wine Limited	Fujicco Co., Ltd.	Jyothy Laboratories Limited
COSMOS Pharmaceutical Corporation	General Mills, Inc.	Kagome Co., Ltd.
Costco Wholesale Corporation	Genting Plantations Berhad	Kameda Seika CO., Ltd.
Cott Corporation	George Weston Limited	Kansai Super Market Ltd.
CP ALL Public Company Limited	GFPT Public Company Limited	Kao Corporation
Create SD Holdings Co.,	Gillette India Limited	Kato Sangyo Co., Ltd.
	Glanbia plc	Kaveri Seed Company Limited
	Godfrey Phillips India Limited	Kellogg Company
	Godrej Consumer Products Limited	KENKO Mayonnaise Co.,Ltd.
	GrainCorp Limited	Kerry Group plc
	Grape King Bio Ltd	Key Coffee Inc.

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Khon Kaen Sugar Industry Public Company Limited	Metro Inc.	Tbk
Kikkoman Corporation	MGP Ingredients, Inc.	PT Nippon Indosari Corpindo Tbk
Kimberly-Clark Corporation	Millbon Co., Ltd.	
Kimberly-Clark de México, S. A. B. de C. V.	MINISTOP Co., Ltd.	PT Perusahaan Perkebunan London Sumatra Indonesia Tbk
Kirin Holdings Company, Limited	Mitsubishi Shokuhin Co., Ltd.	PT Tiga Pilar Sejahtera Food Tbk
Kobayashi Pharmaceutical Co., Ltd.	Mitsui Sugar Co., Ltd.	PT Unilever Indonesia Tbk
Kobe Bussan Co., Ltd.	Mondelez International, Inc.	Public Joint Stock Company Dixy Group
Koninklijke Ahold Delhaize N.V.	Monster Beverage Corporation	Public Joint Stock Company Magnit
Korea Kolmar Holdings Co., Ltd.	Morinaga & Co., Ltd.	Pulmuone Co., Ltd.
KOSÉ Corporation	Morinaga Milk Industry Co., Ltd.	PZ Cussons Plc
Kotobuki Spirits Co., Ltd.	Muhak Co., Ltd.	QAF Limited
KRBL Limited	Nagatanien Holdings Co.,Ltd.	QL Resources Berhad
Kuala Lumpur Kepong Berhad	NamYang Dairy Products Co., Ltd	Qol Co., Ltd.
KWS Saat SE	National Beverage Corp.	Raia Drogasil S.A.
La Doria SpA	Natura Cosméticos S.A.	Rami Levi Chain Stores Hashikma
Lancaster Colony Corporation	Nestlé India Limited	Reckitt Benckiser Group plc
Lawson, Inc.	Nestlé S.A.	Rémy Cointreau SA
Leaders Cosmetics Co., Ltd.	NH Foods Ltd.	Riken Vitamin Co., Ltd.
Lerøy Seafood Group Asa	Nihon Chouzai Co.,Ltd.	Rock Field Co., Ltd.
LG Household & Health Care Ltd.	Nippon Beet Sugar Manufacturing Co., Ltd.	Rokko Butter Co., Ltd.
Lien Hwa Industrial Corp. Life Corporation	Nippon Flour Mills Co., Ltd.	Royal Unibrew A/S
Lion Corporation	Nippon Suisan Kaisha, Ltd.	S Foods Inc.
Loblaw Companies Limited	Nisshin Seifun Group Inc.	Sajo Industries Company Limited
L'Oréal S.A.	Nissan Foods Holdings Co., Ltd	Sakata Seed Corporation
Lotte Chilsung Beverage Co.,Ltd.	Noevir Holdings Co., Ltd.	SalMar ASA
Lotte Food Co.,Ltd.	NongShim Co., Ltd.	SAN-A CO.,LTD.
M. Dias Branco S.A.	Norway Royal Salmon AS	Sanderson Farms, Inc.
Indústria e Comércio de Alimentos	Nu Skin Enterprises, Inc.	São Martinho S.A.
Maeil Holdings Co., Ltd.	Oceana Group Limited	Sapporo Holdings Limited
Malee Group Public Company Limited	OKUWA Co., Ltd.	Saputo Inc.
Mandom Corporation	Origin Enterprises plc	Seaboard Corporation
Maple Leaf Foods Inc.	ORIOR AG	Select Harvests Limited
Marico Limited	Orkla ASA	Seneca Foods Corporation
Marine Harvest ASA	Ottogi Corporation	Seven & i Holdings Co., Ltd.
MARR S.p.A.	P/F Bakkafrost	Sheng Siong Group Ltd
Marudai Food Co., Ltd.	Pepsico, Inc.	Shiseido Company, Limited
Maruha Nichiro Corporation	Pernod Ricard SA	Shoptite Holdings Limited
Massmart Holdings Limited	Philip Morris CR a.s.	Showa Sangyo Co., Ltd.
Matsumotokiyoshi Holdings Co., Ltd.	Pick n Pay Stores Limited	Shufersal Ltd
McCormick & Company, Incorporated	Pigeon Corporation	SKbioland Co., Ltd.
McLeod Russel India Limited	POLA Orbis Holdings Inc.	SLC Agrícola S.A.
Medifast, Inc.	PPB Group Berhad	Snyder's-Lance, Inc.
Megmilk Snow Brand Co., Ltd.	Premium Brands Holdings Corporation	Sogo Medical Co., Ltd.
Meiji Holdings Co., Ltd.	PriceSmart, Inc.	SpartanNash Company
	Prima Meat Packers, Ltd.	SPC Samlip Co., Ltd.
	PT Charoen Pokphand Indonesia Tbk	Standard Foods Corporation
	PT Eagle High Plantations Tbk	Starzen Company Limited
	PT Gudang Garam Tbk	Strauss Group Ltd.
	PT Hanjaya Mandala Sampoerna Tbk	Südzucker AG
	PT Indofood CBP Sukses Makmur Tbk	Sugi Holdings Co. Ltd.
	PT Matahari Putra Prima	Sun Art Retail Group Limited
		Sundrug Co.,Ltd.
		Sysco Corporation

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Taiwan Tea Corporation	Inc.	Grupo Comercial Chedraui, S.A.B. DE C.V.
Tassal Group Limited	Wal-Mart de México, S.A.B. de C.V.	GSRetail Co., Ltd.
Tata Global Beverages Limited	Walmart Inc.	Halows Co.,Ltd.
Tate & Lyle plc	Want Want China Holdings Limited	Heiwado Co., Ltd.
Tesco PLC	Warabeya Nichiyo Holdings Co., Ltd.	Ingles Markets, Incorporated
Thai Union Group Public Company Limited	WD-40 Company	ITOCHU-SHOKUJIN Co., Ltd.
Thai Vegetable Oil Public Company Limited	Weis Markets, Inc.	J Sainsbury plc
The a2 Milk Company Limited	Welcia Holdings Co., Ltd.	Jerónimo Martins, SGPS, S.A.
The Boston Beer Company, Inc.	Wilmar International Limited	Kansai Super Market Ltd.
The Coca-Cola Company	Wm Morrison Supermarkets PLC	Kato Sangyo Co., Ltd.
The Estée Lauder Companies Inc.	Yakult Honsha Co.,Ltd.	Kobe Bussan Co., Ltd.
The Hain Celestial Group, Inc.	Yakuodo Co., Ltd.	Koninklijke Ahold Delhaize N.V.
The Hershey Company	Yamazaki Baking Co., Ltd.	Lawson, Inc.
The J. M. Smucker Company	Yaoko Co.,Ltd.	Life Corporation
The Jean Coutu Group (PJC) Inc.	Yokohama Reito Co.,Ltd.	Loblaw Companies Limited
The Kroger Co.	Zyduz Wellness Limited	MARR S.p.A.
The Nisshin Oillio Group, Ltd.		Massmart Holdings Limited
The Procter & Gamble Company		Matsumotokiyoshi Holdings Co., Ltd.
The SPAR Group Ltd		Metro Inc.
Tibet Water Resources Ltd.		MINISTOP Co., Ltd.
Tiger Brands Limited		Mitsubishi Shokuhin Co., Ltd.
Tingyi (Cayman Islands) Holding Corp.		Nihon Chouzai Co.,Ltd.
Tongaat Hulett Limited		OKUWA Co., Ltd.
Tootsie Roll Industries, Inc.		Pick n Pay Stores Limited
Toyo Suisan Kaisha, Ltd.		PriceSmart, Inc.
Treasury Wine Estates Limited		PT Matahari Putra Prima Tbk
TreeHouse Foods, Inc.		Public Joint Stock Company Dixy Group
Tsingtao Brewery Company Limited		Public Joint Stock Company Magnit
Tsuruha Holdings Inc.		Qol Co., Ltd.
TTET Union Corporation		Raia Drogasil S.A.
Tyson Foods, Inc.		Rami Levi Chain Stores
Ülker Bisküvi Sanayi A.S.		Hashikma
Unicharm Corporation		SAN-A CO.,LTD.
Unilever PLC		Seven & i Holdings Co., Ltd.
Uni-President Enterprises Corp.		Sheng Siong Group Ltd
United Natural Foods, Inc.		Shoprte Holdings Limited
Universal Corporation		Shufersal Ltd
Universal Robina Corporation		Sogo Medical Co., Ltd.
USANA Health Sciences, Inc.		SpartanNash Company
Valor Holdings Co., Ltd.		Sugi Holdings Co. Ltd.
Village Super Market, Inc.		Sun Art Retail Group Limited
Viña Concha y Toro S.A.		Sundrug Co.,Ltd.
Vinda International Holdings Limited		Sysco Corporation
Viscofan, S.A.		Taiwan Tea Corporation
Walgreens Boots Alliance,		Tesco PLC
		The Jean Coutu Group (PJC) Inc.
		The Kroger Co.
		The SPAR Group Ltd
		Tsuruha Holdings Inc.
		United Natural Foods, Inc.

GICS 3010

Ain Holdings Inc.	
Al Meera Consumer Goods Company Q.S.C.	
Alimentation Couche-Tard Inc.	
Almacenes Éxito S.A.	
ARCS Company Limited	
Axfood AB (publ)	
Axial Retailing Inc.	
Belc CO., LTD.	
BIM Birlesik Magazalar A.S.	
Booker Group PLC	
Carrefour SA	
Casey's General Stores, Inc.	
Casino, Guichard- Perrachon Soc.	
Cawachi Limited	
Cencosud S.A.	
CJ Freshway Corporation	
cocokara fine Inc.	
Companhia Brasileira de Distribuição	
COSMOS Pharmaceutical Corporation	
Costco Wholesale Corporation	
CP ALL Public Company Limited	
Create SD Holdings Co., Ltd.	
Daikokutenbussan Co.,Ltd.	
Distribuidora Internacional de Alimentación, S.A.	
Dong Suh Companies Inc.	
Etn. Fr. Colruyt NV	
Eurocash S.A.	
FamilyMart UNY Holdings Co., Ltd.	
Georgie Weston Limited	

Valor Holdings Co., Ltd.
 Village Super Market, Inc.
 Walgreens Boots Alliance, Inc.
 Wal-Mart de México, S.A.B. de C.V.
 Walmart Inc.
 Weis Markets, Inc.
 Welcia Holdings Co., Ltd.
 Wm Morrison Supermarkets PLC
 Yakuodo Co., Ltd.
 Yaoko Co.,Ltd.
 Yokohama Reito Co.,Ltd.

Carlsberg Brewery Malaysia Berhad
 Charoen Pokphand Enterprise (Taiwan) Co., Ltd.
 Charoen Pokphand Foods Public Company Limited
 China Agri-Industries Holdings Limited
 China Foods Limited
 China Mengniu Dairy Company Limited
 China Modern Dairy Holdings Ltd.
 China Resources Beer (Holdings) Company Limited
 Chocoladefabriken Lindt & Sprüngli AG
 Cloetta AB (publ)
 Clover Industries Limited
 Coca-Cola Amatil Limited
 Coca-Cola Bottling Co. Consolidated
 Coca-Cola FEMSA, S.A.B. de C.V.
 Coca-Cola İçecek Anonim Sirketi
 Compañía Cervecerías Unidas S.A.
 Conagra Brands, Inc.
 Constellation Brands, Inc.
 Corby Spirit and Wine Limited
 Cott Corporation
 CROWNHAITAI Holdings CO.,LTD.
 Daehan Flour Mills Co.,Ltd
 Daesang Corporation
 Daesang Holdings Co., Ltd.
 Dairy Crest Group plc
 Danone
 Davide Campari-Milano S.p.A.
 Diageo plc
 Dongwon F&B Co., Ltd.
 Dongwon Industries Co., Ltd.
 Dr Pepper Snapple Group, Inc.
 DyDo Group Holdings, Inc.
 EASY BIO, Inc.
 Ebro Foods, S.A.
 Embotelladora Andina S.A.
 Emmi AG
 Ezaki Glico Co.,Ltd.
 Farmer Bros. Co.
 Farmsco
 First Resources Limited
 Flowers Foods, Inc.
 Fresh Del Monte Produce Inc.
 Fuji Oil Holdings Inc.

Fujicco Co., Ltd.
 Genting Plantations Berhad
 GFPT Public Company Limited
 Godfrey Phillips India Limited
 GrainCorp Limited
 Great Wall Enterprise Co., Ltd.
 Greencore Group plc
 Greenyard NV
 Gruma, S.A.B. de C.V.
 Grupo Bimbo, S.A.B. de C.V.
 Grupo Herdez, S.A.B. de C.V.
 Heineken N.V.
 High Liner Foods Incorporated
 HITEJINRO Co., Ltd.
 Hokuto Corporation
 Hormel Foods Corporation
 Indofood Agri Resources Ltd.
 Industrias Bachoco, S.A.B. de C.V.
 Ingredion Incorporated
 IOI Corporation Berhad
 ITC Limited
 Ito En, Ltd.
 Itoham Yonekyu Holdings Inc.
 J&J Snack Foods Corp.
 Japan Tobacco Inc.
 JBS S.A.
 John B. Sanfilippo & Son, Inc.
 J-Oil Mills, Inc.
 Juhayna Food Industries S.A.E.
 Kagome Co., Ltd.
 Kameda Seika CO., Ltd.
 Kaveri Seed Company Limited
 Kellogg Company
 KENKO Mayonnaise Co.,Ltd.
 Kerry Group plc
 Key Coffee Inc.
 Khon Kaen Sugar Industry Public Company Limited
 Kirin Holdings Company, Limited
 Kotobuki Spirits Co., Ltd.
 KRBL Limited
 KWS Saat SE
 La Doria SpA
 Lancaster Colony Corporation
 Lerøy Seafood Group Asa
 Lien Hwa Industrial Corp.
 Lotte Chilsung Beverage Co.,Ltd.
 Lotte Food Co.,Ltd.

GICS 3020

AAK AB (publ.)
 Agthia Group PJSC
 Ajinomoto Co., Inc.
 Altria Group, Inc.
 Ambev S.A.
 Anadolu Efes Biracilik ve Malt Sanayii Anonim Sirketi
 Anheuser-Busch InBev SA/NV
 Anhui Gujing Distillery Co., Ltd.
 Arca Continental, S. A. B. de C. V.
 Archer-Daniels-Midland Company
 ARIAKE JAPAN Co., Ltd.
 Asahi Group Holdings, Ltd.
 Associated British Foods plc
 Astral Foods Limited
 Atria Oyj
 Austevoll Seafood ASA
 AVI Limited
 B&G Foods, Inc.
 Balrampur Chini Mills Limited
 Barry Callebaut AG
 Bega Cheese Limited
 Bell Food Group AG
 Binggrae Co., Ltd.
 Bob Evans Farms, Inc.
 Bonduelle SA
 BRF S.A.
 British American Tobacco Berhad
 British American Tobacco p.l.c.
 Britvic Plc
 Brown-Forman Corporation
 Bumitama Agri Ltd.
 Bunge Limited
 C&C Group plc
 Calavo Growers, Inc.
 Calbee, Inc.
 Cal-Maine Foods, Inc.
 Campbell Soup Company
 Carlsberg A/S

M. Dias Branco S.A. Indústria e Comércio de Alimentos Maeil Holdings Co., Ltd. Malee Group Public Company Limited Maple Leaf Foods Inc. Marine Harvest ASA Marudai Food Co., Ltd. Maruha Nichiro Corporation McCormick & Company, Incorporated McLeod Russel India Limited Megmilk Snow Brand Co., Ltd. Meiji Holdings Co., Ltd. MGP Ingredients, Inc. Mitsui Sugar Co., Ltd. Mondelez International, Inc. Monster Beverage Corporation Morinaga & Co., Ltd. Morinaga Milk Industry Co., Ltd. Muhak Co., Ltd. Nagatanien Holdings Co.,Ltd. NamYang Dairy Products Co., Ltd National Beverage Corp. Nestlé India Limited Nestlé S.A. NH Foods Ltd. Nippon Beet Sugar Manufacturing Co., Ltd. Nippon Flour Mills Co., Ltd. Nippon Suisan Kaisha, Ltd. Nissin Foods Holdings Co., Ltd NongShim Co., Ltd. Norway Royal Salmon AS Oceana Group Limited Origin Enterprises plc ORIOR AG Orkla ASA Ottogi Corporation P/F Bakkafrøst Pepsico, Inc. Pernod Ricard SA Philip Morris CR a.s. PPB Group Berhad Premium Brands Holdings Corporation Prima Meat Packers, Ltd. PT Charoen Pokphand Indonesia Tbk PT Eagle High Plantations Tbk PT Gudang Garam Tbk PT Hanjaya Mandala Sampoerna Tbk	PT Indofood CBP Sukses Makmur Tbk PT Nippon Indosari Corpindo Tbk PT Perusahaan Perkebunan London Sumatra Indonesia Tbk PT Tiga Pilar Sejahtera Food Tbk Pulmuone Co., Ltd. QAF Limited QL Resources Berhad Rémy Cointreau SA Riken Vitamin Co., Ltd. Rock Field Co., Ltd. Rokko Butter Co., Ltd. Royal Unibrew A/S S Foods Inc. Sajo Industries Company Limited Sakata Seed Corporation SalMar ASA Sanderson Farms, Inc. São Martinho S.A. Sapporo Holdings Limited Saputo Inc. Select Harvests Limited Seneca Foods Corporation Showa Sangyo Co., Ltd. SLC Agrícola S.A. Snyder's-Lance, Inc. SPC Samlip Co., Ltd. Standard Foods Corporation Starzen Company Limited Strauss Group Ltd. Südzucker AG Tassal Group Limited Tata Global Beverages Limited Tate & Lyle plc Thai Union Group Public Company Limited Thai Vegetable Oil Public Company Limited The a2 Milk Company Limited The Boston Beer Company, Inc. The Coca-Cola Company The Hain Celestial Group, Inc. The Hershey Company The J. M. Smucker Company The Nisshin OilliO Group, Ltd. Tibet Water Resources Ltd. Tiger Brands Limited Tingyi (Cayman Islands) Holding Corp. Tongaat Hulett Limited Tootsie Roll Industries, Inc.	Toyo Suisan Kaisha, Ltd. Treasury Wine Estates Limited TreeHouse Foods, Inc. Tsingtao Brewery Company Limited TTET Union Corporation Tyson Foods, Inc. Ülker Bisküvi Sanayi A.S. Universal Corporation Universal Robina Corporation Viña Concha y Toro S.A. Viscofan, S.A. Want Want China Holdings Limited Warabeya Nichiyo Holdings Co., Ltd. Wilmar International Limited Yakult Honsha Co.,Ltd. Yamazaki Baking Co., Ltd. Zyduz Wellness Limited
GICS 302010		
Ambev S.A. Anadolu Efes Biracilik ve Malt Sanayii Anonim Sirketi Anheuser-Busch InBev SA/NV Anhui Gujing Distillery Co., Ltd. Arca Continental, S. A. B. de C. V. Asahi Group Holdings, Ltd. Britvic Plc Brown-Forman Corporation C&C Group plc Carlsberg A/S Carlsberg Brewery Malaysia Berhad China Resources Beer (Holdings) Company Limited Coca-Cola Amatil Limited Coca-Cola Bottling Co. Consolidated Coca-Cola FEMSA, S.A.B. de C.V. Coca-Cola İçecek Anonim Sirketi Compañía Cervecerías Unidas S.A. Constellation Brands, Inc. Corby Spirit and Wine Limited Cott Corporation Davide Campari-Milano S.p.A. Diageo plc Dr Pepper Snapple Group, Inc. Embotelladora Andina S.A. Heineken N.V.		

2017 Valuation Handbook – International Industry Cost of Capital (data through September 30, 2017); Company and GICS List

HITEJINRO Co., Ltd.
Ito En, Ltd.
Kirin Holdings Company, Limited
Lotte Chilsung Beverage Co.,Ltd.
MGP Ingredients, Inc.
Monster Beverage Corporation
Muhak Co., Ltd.
National Beverage Corp.
Pernod Ricard SA
Rémy Cointreau SA
Royal Unibrew A/S
The Boston Beer Company, Inc.
The Coca-Cola Company
Tibet Water Resources Ltd.
Treasury Wine Estates Limited
Tsingtao Brewery Company Limited
Viña Concha y Toro S.A.

China Mengniu Dairy Company Limited
China Modern Dairy Holdings Ltd.
Chocoladefabriken Lindt & Sprüngli AG
Cloetta AB (publ)
Clover Industries Limited
Conagra Brands, Inc.
CROWNHAITAI Holdings CO.,LTD.
Daehan Flour Mills Co.,Ltd
Daesang Corporation
Daesang Holdings Co., Ltd.
Dairy Crest Group plc
Dongwon F&B Co., Ltd.
Dongwon Industries Co., Ltd.
DyDo Group Holdings, Inc.
EASY BIO, Inc.
Ebro Foods, S.A.
Emmi AG
Ezaki Glico Co.,Ltd.
Farmer Bros. Co.
Farmsco
First Resources Limited
Flowers Foods, Inc.
Fresh Del Monte Produce Inc.
Fuji Oil Holdings Inc.
Fujico Co., Ltd.
Genting Plantations Berhad
GFPT Public Company Limited
Great Wall Enterprise Co., Ltd.
Greencore Group plc
Greenyard NV
Gruma, S.A.B. de C.V.
Grupo Bimbo, S.A.B. de C.V.
Grupo Herdez, S.A.B. de C.V.
High Liner Foods Incorporated
Hokuto Corporation
Hormel Foods Corporation
Indofood Agri Resources Ltd.
Industrias Bachoco, S.A.B. de C.V.
Ingredion Incorporated
IOI Corporation Berhad
Itoham Yonekyu Holdings Inc.
J&J Snack Foods Corp.
JBS S.A.
John B. Sanfilippo & Son, Inc.
J-Oil Mills, Inc.
Juhayna Food Industries S.A.E.
Kagome Co., Ltd.
Kameda Seika CO., Ltd.
Kaveri Seed Company

Limited
Kellogg Company
KENKO Mayonnaise Co.,Ltd.
Kerry Group plc
Key Coffee Inc.
Khon Kaen Sugar Industry Public Company Limited
Kotobuki Spirits Co., Ltd.
KRBL Limited
KWS Saat SE
La Doria SpA
Lancaster Colony Corporation
Lerøy Seafood Group Asa
Lien Hwa Industrial Corp.
Lotte Food Co.,Ltd.
M. Dias Branco S.A.
Indústria e Comércio de Alimentos
Maeil Holdings Co., Ltd.
Malee Group Public Company Limited
Maple Leaf Foods Inc.
Marine Harvest ASA
Marudai Food Co., Ltd.
Maruha Nichiro Corporation
McCormick & Company, Incorporated
McLeod Russel India Limited
Meiji Holdings Co., Ltd.
Mitsui Sugar Co., Ltd.
Mondelez International, Inc.
Morinaga & Co., Ltd.
Morinaga Milk Industry Co., Ltd.
Nagatanien Holdings Co.,Ltd.
NamYang Dairy Products Co., Ltd
Nestlé India Limited
Nestlé S.A.
NH Foods Ltd.
Nippon Beet Sugar Manufacturing Co., Ltd.
Nippon Flour Mills Co., Ltd.
Nippon Suisan Kaisha, Ltd.
Nissin Foods Holdings Co., Ltd
NongShim Co., Ltd.
Norway Royal Salmon AS
Oceana Group Limited
Origin Enterprises plc
ORIOR AG
Orkla ASA
Ottogi Corporation
P/F Bakkafrost
PPB Group Berhad
Premium Brands Holdings Corporation
Prima Meat Packers, Ltd.

GICS 302020

AAK AB (publ.)
Agthia Group PJSC
Ajinomoto Co., Inc.
Archer-Daniels-Midland Company
ARIAKE JAPAN Co., Ltd.
Associated British Foods plc
Astral Foods Limited
Atria Oyj
Austevoll Seafood ASA
AVI Limited
B&G Foods, Inc.
Balrampur Chini Mills Limited
Barry Callebaut AG
Bega Cheese Limited
Bell Food Group AG
Binggrae Co., Ltd.
Bob Evans Farms, Inc.
Bonduelle SA
BRF S.A.
Bumitama Agri Ltd.
Bunge Limited
Calavo Growers, Inc.
Calbee, Inc.
Cal-Maine Foods, Inc.
Campbell Soup Company
Charoen Pokphand Enterprise (Taiwan) Co., Ltd.
Charoen Pokphand Foods Public Company Limited
China Agri-Industries Holdings Limited
China Foods Limited

PT Charoen Pokphand
Indonesia Tbk
PT Eagle High Plantations
Tbk
PT Indofood CBP Sukses
Makmur Tbk
PT Nippon Indosari
Corpindo Tbk
PT Perusahaan
Perkebunan London
Sumatra Indonesia Tbk
PT Tiga Pilar Sejahtera
Food Tbk
Pulmuone Co., Ltd.
QAF Limited
QL Resources Berhad
Riken Vitamin Co., Ltd.
Rock Field Co., Ltd.
Rokko Butter Co., Ltd.
S Foods Inc.
Sajo Industries Company
Limited
Sakata Seed Corporation
SalMar ASA
Sanderson Farms, Inc.
São Martinho S.A.
Saputo Inc.
Select Harvests Limited
Seneca Foods Corporation
Showa Sangyo Co., Ltd.
SLC Agrícola S.A.
Snyder's-Lance, Inc.
SPC Samlip Co., Ltd.
Standard Foods
Corporation
Starzen Company Limited
Strauss Group Ltd.
Südzucker AG
Tassal Group Limited
Tata Global Beverages
Limited
Tate & Lyle plc
Thai Union Group Public
Company Limited
Thai Vegetable Oil Public
Company Limited
The a2 Milk Company
Limited
The Hain Celestial Group,
Inc.
The Hershey Company
The J. M. Smucker
Company
The Nisshin Oillio Group,
Ltd.
Tiger Brands Limited
Tingyi (Cayman Islands)
Holding Corp.
Tonga Hulett Limited
Tootsie Roll Industries, Inc.
Toyo Suisan Kaisha, Ltd.
TreeHouse Foods, Inc.
TTET Union Corporation

Tyson Foods, Inc.
Ülker Bisküvi Sanayi A.S.
Universal Robina
Corporation
Viscofan, S.A.
Want Want China Holdings
Limited
Warabeya Nichiyo Holdings
Co., Ltd.
Wilmar International
Limited
Yakult Honsha Co.,Ltd.
Yamazaki Baking Co., Ltd.
Zydu Wellness Limited

GICS 302030

Altria Group, Inc.
British American Tobacco
Berhad
British American Tobacco
p.l.c.
Godfrey Phillips India
Limited
Japan Tobacco Inc.
Philip Morris CR a.s.
PT Gudang Garam Tbk
PT Hanjaya Mandala
Sampoerna Tbk
Universal Corporation

GICS 3030

Able C&C Co., Ltd.
Amorepacific Corporation
AmorePacific Group
Bajaj Corp Limited
Beiersdorf
Aktiengesellschaft
Blackmores Limited
Church & Dwight Co., Inc.
Ciz Holdings Co.,Ltd.
Dabur India Limited
Earth Chemical Co., Ltd.
Edgewell Personal Care
Company
EIS Eczacıbasi Ilaç, Sinai ve
Finansal Yatırımlar Sanayi
ve Ticaret A.S.
Eveready Industries India
Limited
Fancl Corporation
Gillette India Limited
Godrej Consumer Products
Limited
Grape King Bio Ltd
Hengan International Group
Company Limited
Hindustan Unilever Limited
Inter Parfums, Inc.
InterParfums SA
Jyothy Laboratories
Limited
Kao Corporation

Kimberly-Clark Corporation
Kimberly-Clark de México,
S. A. B. de C. V.
Kobayashi Pharmaceutical
Co., Ltd.
Korea Kolmar Holdings Co.,
Ltd.
KOSÉ Corporation
Leaders Cosmetics Co.,
Ltd.
LG Household & Health
Care Ltd.
Lion Corporation
L'Oréal S.A.
Mandom Corporation
Marico Limited
Medifast, Inc.
Millbon Co., Ltd.
Natura Cosméticos S.A.
Noevir Holdings Co., Ltd.
Nu Skin Enterprises, Inc.
Pigeon Corporation
POLA Orbis Holdings Inc.
PT Unilever Indonesia Tbk
PZ Cussons Plc
Reckitt Benckiser Group plc
Shiseido Company, Limited
SKbioLand Co., Ltd.
The Estée Lauder
Companies Inc.
The Procter & Gamble
Company
Unicharm Corporation
Unilever PLC
USANA Health Sciences,
Inc.
Vinda International
Holdings Limited
WD-40 Company

GICS 303010

Church & Dwight Co., Inc.
Earth Chemical Co., Ltd.
Eveready Industries India
Limited
Hindustan Unilever Limited
Jyothy Laboratories
Limited
Kimberly-Clark de México,
S. A. B. de C. V.
Lion Corporation
Pigeon Corporation
PT Unilever Indonesia Tbk
PZ Cussons Plc
Reckitt Benckiser Group plc
Unicharm Corporation
Vinda International
Holdings Limited
WD-40 Company

GICS 303020

Able C&C Co., Ltd.
 Amorepacific Corporation
 AmorePacific Group
 Bajaj Corp Limited
 Beiersdorf
 Aktiengesellschaft
 Blackmores Limited
 Ci:z Holdings Co.,Ltd.
 Dabur India Limited
 Edgewell Personal Care Company
 EIS Eczacıbasi İlaç, Sinai ve Finansal Yatırımlar Sanayi ve Ticaret A.S.
 Fancl Corporation
 Gillette India Limited
 Godrej Consumer Products Limited
 Grape King Bio Ltd
 Inter Parfums, Inc.
 InterParfums SA
 Kobayashi Pharmaceutical Co., Ltd.
 Korea Kolmar Holdings Co., Ltd.
 KOSÉ Corporation
 Leaders Cosmetics Co., Ltd.
 LG Household & Health Care Ltd.
 L'Oréal S.A.
 Mandom Corporation
 Marico Limited
 Medifast, Inc.
 Millbon Co., Ltd.
 Natura Cosméticos S.A.
 Noevir Holdings Co., Ltd.
 Nu Skin Enterprises, Inc.
 POLA Orbis Holdings Inc.
 Shiseido Company, Limited
 SKbioland Co., Ltd.
 The Estée Lauder Companies Inc.
 Unilever PLC
 USANA Health Sciences, Inc.

Alembic Pharmaceuticals Limited
 Alexion Pharmaceuticals, Inc.
 Alfresa Holdings Corporation
 Align Technology, Inc.
 ALK-Abelló A/S
 Almirall, S.A.
 Almost Family, Inc.
 AMAG Pharmaceuticals, Inc.
 Ambu A/S
 AmerisourceBergen Corporation
 Amgen Inc.
 AMN Healthcare Services, Inc.
 Amplifon SpA
 Anika Therapeutics, Inc.
 As One Corp.
 Asahi Intecc Co., Ltd.
 ASKA Pharmaceutical Co., Ltd.
 Aspen Pharmacare Holdings Limited
 Astellas Pharma Inc.
 AstraZeneca PLC
 athenahealth, Inc.
 Aurobindo Pharma Limited
 Australian Pharmaceutical Industries Limited
 Bangkok Chain Hospital Public Co.
 Bangkok Dusit Medical Services Public Company Limited
 Baxter International Inc.
 Becton, Dickinson and Company
 Biocon Limited
 BioGaia AB
 Biogen Inc.
 Bio-Rad Laboratories, Inc.
 Bio-Techne Corporation
 Bioteque Corporation
 Biotest Aktiengesellschaft
 BML, Inc.
 Boiron SA
 Boryung Pharmaceutical Co., Ltd.
 Bristol-Myers Squibb Company
 Bruker Corporation
 BTG plc
 Bukwang Pharmaceutical Co., Ltd.
 Bumrungrad Hospital Public Company Limited
 C. R. Bard, Inc.
 Cadila Healthcare Limited
 Cambrex Corporation

Cardinal Health, Inc.
 Carl Zeiss Meditec AG
 Celgene Corporation
 Cell Biotech Co., Ltd.
 Celltrion Pharm Inc.
 Celltrion, Inc.
 Centene Corporation
 Center Laboratories, Inc.
 Cerner Corporation
 Charles River Laboratories International, Inc.
 China Medical System Holdings Limited
 China Shineway Pharmaceutical Group Limited
 China Traditional Chinese Medicine Holdings Co. Limited
 Chugai Pharmaceutical Co., Ltd.
 Cipla Limited
 Clinigen Group Plc
 CMIC HOLDINGS Co., Ltd.
 Cochlear Limited
 Coloplast A/S
 CompuGroup Medical Societas Europa
 CONMED Corporation
 CorVel Corporation
 Cosmo Pharmaceuticals N.V.
 CryoLife, Inc.
 CSL Limited
 CSPC Pharmaceutical Group Limited
 CVS Group plc
 DAE HWA Pharmaceutical Co., Ltd.
 Daewon Pharmaceutical Co., Ltd.
 Daewoong Co., Ltd.
 Daewoong Pharmaceutical Co., Ltd.
 Daiichi Sankyo Company, Limited
 Danaher Corporation
 DaVita Inc.
 Dawnrays Pharmaceutical (Holdings) Limited
 DENTSPLY SIRONA Inc.
 Depomed, Inc.
 DiaSorin S.p.A.
 DIO Corporation
 Divi's Laboratories Limited
 Dong-A Socio Holdings Co., Ltd.
 DongKook Pharmaceutical Co., Ltd.
 Edwards Lifesciences Corporation
 Eiken Chemical Co., Ltd.

GICS 35

Abaxis, Inc.
 Abcam Plc
 ABIOMED, Inc.
 Acadia Healthcare Company, Inc.
 Acorda Therapeutics, Inc.
 Adcock Ingram Holdings Limited
 Advanced Medical Solutions Group plc
 Agilent Technologies, Inc.
 Ajanta Pharma Limited
 Akorn, Inc.

2017 Valuation Handbook – International Industry Cost of Capital (data through September 30, 2017); Company and GICS List

Eisai Co., Ltd.	Integra LifeSciences Holdings Corporation	Meridian Bioscience, Inc.
Elekta AB (publ)	Interjo Inc.	Merit Medical Systems, Inc.
Eli Lilly and Company	iNtRON Biotechnology, Inc.	Metlifecare Limited
Emergent BioSolutions Inc.	Intuitive Surgical, Inc.	Mettler-Toledo International Inc.
EMIS Group plc	Ion Beam Applications SA	MicroLife Corporation
Encompass Health Corporation	Ipsa Laboratories Limited	MicroPort Scientific Corporation
Envision Healthcare Corporation	Ipsen S.A.	MiMedx Group, Inc.
EPS Holdings, Inc.	J. B. Chemicals & Pharmaceuticals Limited	Miraca Holdings Inc.
Essilor Int'l Société Anonyme	Japan Lifeline Co., Ltd.	Mitsubishi Tanabe Pharma Corporation
Eurofins Scientific SE	JCR Pharmaceuticals Co., Ltd.	Mochida Pharmaceutical Co., Ltd.
Evotec AG	Johnson & Johnson	Molina Healthcare, Inc.
Exactech, Inc.	Jubilant Life Sciences Limited	Myriad Genetics, Inc.
Express Scripts Holding Company	Kaken Pharmaceutical Co., Ltd.	Nagaibeben Co., Ltd.
Extencare Inc.	Kissei Pharmaceutical Co., Ltd.	Nakanishi Inc.
Faes Farma, S.A.	Kolon Life Science Inc.	NATCO Pharma Limited
FDC Limited	Korea United Pharm Inc.	National HealthCare Corporation
Fisher & Paykel Healthcare Corporation Limited	Korian	Natus Medical Incorporated
Fleury S.A.	Kossan Rubber Industries Bhd	Neogen Corporation
Fukuda Denshi Co., Ltd.	KPJ Healthcare Berhad	Netcare Limited
Genomma Lab Internacional, S.A.B. de C.V.	Kwang Dong Pharmaceutical Co., Ltd.	NEUCA SA
Getinge AB	KYORIN Holdings, Inc.	NichiiGakkan Co., Ltd.
Gilead Sciences, Inc.	Kyowa Hakko Kirin Co., Ltd.	Nichi-Iko Pharmaceutical Co., Ltd.
Ginko International Co. Ltd	Laboratory Corporation of America Holdings	Nihon Kohden Corporation
GlaxoSmithKline plc	Landauer, Inc.	Nippon Shinyaku Co., Ltd.
Glenmark Pharmaceuticals Limited	Lannett Company, Inc.	Nipro Corporation
Globus Medical, Inc.	Lee's Pharmaceutical Holdings Limited	Novartis AG
Granules India Limited	LHC Group, Inc.	Novo Nordisk A/S
Green Cross Corporation	Life Healthcare Group Holdings Limited	NuVasive, Inc.
Green Cross Holdings Corporation	LifePoint Health, Inc.	Odontoprev S.A.
Grifols, S.A.	Ligand Pharmaceuticals Incorporated	Olympus Corporation
Guerbet SA	Linical Co., Ltd.	Omniceil, Inc.
Haemonetics Corporation	Luminex Corporation	Ono Pharmaceutical Co., Ltd.
Handok Inc.	Lupin Limited	Oriola Oyj
Hanmi Pharm. Co., Ltd.	Lutronic Corporation	Orion Oyj
Hanmi Science Co., Ltd.	M3, Inc.	ORPEA Société Anonyme
Hartalega Holdings Berhad	Macrogen Inc.	Orthofix International N.V.
HealthStream, Inc.	Magellan Health, Inc.	Osstem Implant Co., Ltd.
Henry Schein, Inc.	Mani, Inc.	Owens & Minor, Inc.
Hikma Pharmaceuticals PLC	Marksans Pharma Limited	Paramount Bed Holdings Co., Ltd.
Hill-Rom Holdings, Inc.	Masimo Corporation	PAREXEL International Corporation
Hisamitsu Pharmaceutical Co., Inc.	Mayne Pharma Group Limited	Patterson Companies, Inc.
HMS Holdings Corp.	McKesson Corporation	PerkinElmer, Inc.
Hogy Medical Co.,Ltd.	Medicare Group Q.S.C.	Pfizer Inc.
Hypera S.A.	Medidata Solutions, Inc.	Pfizer Limited
ICU Medical, Inc.	MEDNAX, Inc.	Pharma Mar, S.A.
IHH Healthcare Berhad	Medy-Tox Inc.	PharMerica Corporation
Illumina, Inc.	Merck & Co., Inc.	Prestige Brands Holdings, Inc.
Ilyang Pharmaceutical Co.,Ltd	Merck	Primary Health Care Limited
InBody Co., Ltd.	Kommanditgesellschaft Aktien	Probi AB (publ)
Integer Holdings Corporation		PT Kalbe Farma Tbk.

Qualicorp S.A.	SSY Group Limited	Limited
Quality Systems, Inc.	St.Shine Optical Company Limited	United Therapeutics Corporation
Quest Diagnostics Incorporated	STADA Arzneimittel Aktiengesellschaft	Universal Health Services, Inc.
Raffles Medical Group Ltd	Stallergenes Greer Plc	Value Added Technology Co., Ltd.
Ramsay Health Care Limited	STRATEC Biomedical AG	Varian Medical Systems, Inc.
Recordati S.p.A.	Straumann Holding AG	Vibhavadi Medical Center Public Company Limited
Regeneron Pharmaceuticals, Inc.	Strides Shasun Limited	Vieworks Co. Ltd.
Repligen Corporation	Stryker Corporation	Virbac SA
ResMed Inc.	Suheung Co., Ltd.	Vital KSK Holdings, Inc.
REYON Pharmaceutical Co., Ltd.	Sumitomo Dainippon Pharma Co., Ltd.	Vitrolife AB (publ)
Rhön-Klinikum Aktiengesellschaft	Summerset Group Holdings Limited	Waters Corporation
Richter Gedeon Vegyészeti Gyár Nyilvánosan Muködo Rt.	Sun Pharmaceutical Industries Limited	West Pharmaceutical Services, Inc.
Roche Holding AG	Surmodics, Inc.	Whan In Pharm Co.,Ltd.
Rohto Pharmaceutical Co., Ltd.	Suven Life Sciences Limited	William Demant Holding A/S
Ryman Healthcare Limited	Suzuken Co., Ltd.	Wockhardt Limited
Samjin Pharmaceuticals Co., Ltd.	Swedish Orphan Biovitrum AB	Ypsomed Holding AG
Sanofi	Sysmex Corporation	Yuhan Corporation
Sanofi India Limited	Taisho Pharmaceutical Holdings Co., Ltd.	Yungjin Pharm. Co., Ltd.
Santen Pharmaceutical Co., Ltd.	Takara Bio Inc.	YungShin Global Holding Corporation
Sartorius Stedim Biotech S.A.	Takeda Pharmaceutical Company Limited	Zeria Pharmaceutical Co., Ltd.
Sawai Pharmaceutical Co., Ltd.	Tecan Group Ltd.	Zimmer Biomet Holdings, Inc.
ScinoPharm Taiwan, Ltd.	Teleflex Incorporated	
Seegene, Inc.	Terumo Corporation	
Seikagaku Corporation	Teva Pharmaceutical Industries Limited	GICS 3510
Selçuk Ecza Deposu Ticaret ve Sanayi A.S.	The Cooper Companies, Inc.	Abaxis, Inc.
Select Medical Holdings Corporation	The Ensign Group, Inc.	ABIOMED, Inc.
Shandong Weigao Group Medical Polymer Company Limited	The Providence Service Corporation	Acadia Healthcare Company, Inc.
Shanghai Pharmaceuticals Holding Co., Ltd.	The United Laboratories International Holdings Limited	Advanced Medical Solutions Group plc
Shanghai Shenqi Pharmaceutical Investment Management Co.,Ltd.	Tianjin Zhongxin Pharmaceutical Group Corporation Limited	Alfresa Holdings Corporation
Shilpa Medicare Limited	Toho Holdings Co., Ltd.	Align Technology, Inc.
Shionogi & Co., Ltd.	Tong Ren Tang Technologies Co. Ltd.	Almost Family, Inc.
Ship Healthcare Holdings, Inc.	Top Glove Corporation Bhd.	Ambu A/S
Shire plc	Torii Pharmaceutical Co., Ltd.	AmerisourceBergen Corporation
Siegfried Holding AG	Towa Pharmaceutical Co., Ltd.	AMN Healthcare Services, Inc.
Sigma Healthcare Limited	Triple-S Management Corporation	Amplifon SpA
Sino Biopharmaceutical Limited	Tsukui Corporation	Anika Therapeutics, Inc.
Sinopharm Group Co. Ltd.	Tsumura & Co.	As One Corp.
Sirtex Medical Limited	TTY Biopharm Company Limited	Asahi Intecc Co., Ltd.
Smith & Nephew plc	U.S. Physical Therapy, Inc.	athenahealth, Inc.
Sonic Healthcare Limited	UCB SA	Australian Pharmaceutical Industries Limited
Sonova Holding AG	UDG Healthcare plc	Bangkok Chain Hospital Public Co.
	Unichem Laboratories	Bangkok Dusit Medical Services Public Company Limited
		Baxter International Inc.
		Bioteque Corporation
		BML, Inc.

2017 Valuation Handbook – International Industry Cost of Capital (data through September 30, 2017); Company and GICS List

Bumrungrad Hospital Public Company Limited	LHC Group, Inc.	Shandong Weigao Group Medical Polymer Company Limited
C. R. Bard, Inc.	Life Healthcare Group Holdings Limited	Shanghai Pharmaceuticals Holding Co., Ltd.
Cardinal Health, Inc.	LifePoint Health, Inc.	Ship Healthcare Holdings, Inc.
Carl Zeiss Meditec AG	Lutronic Corporation	Sigma Healthcare Limited
Centene Corporation	M3, Inc.	Sinopharm Group Co. Ltd.
Cerner Corporation	Magellan Health, Inc.	Smith & Nephew plc
Cochlear Limited	Mani, Inc.	Sonic Healthcare Limited
Coloplast A/S	Masimo Corporation	Sonova Holding AG
CompuGroup Medical	McKesson Corporation	St.Shine Optical Company Limited
Societas Europa	Medicare Group Q.S.C.	STRATEC Biomedical AG
CONMED Corporation	Medidata Solutions, Inc.	Straumann Holding AG
CorVel Corporation	MEDNAX, Inc.	Stryker Corporation
CVS Group plc	Merit Medical Systems, Inc.	Suheung Co., Ltd.
DaVita Inc.	Metlifecare Limited	Summerset Group Holdings Limited
DENTSPLY SIRONA Inc.	Microlife Corporation	Surmodics, Inc.
DiaSorin S.p.A.	MicroPort Scientific Corporation	Suzuken Co., Ltd.
DIO Corporation	Miraca Holdings Inc.	Sysmex Corporation
Edwards Lifesciences Corporation	Molina Healthcare, Inc.	Teleflex Incorporated
Eiken Chemical Co., Ltd.	Nagaileben Co., Ltd.	Terumo Corporation
Elekta AB (publ)	Nakanishi Inc.	The Cooper Companies, Inc.
EMIS Group plc	National HealthCare Corporation	The Ensign Group, Inc.
Encompass Health Corporation	Natus Medical Incorporated	The Providence Service Corporation
Envision Healthcare Corporation	Netcare Limited	Toho Holdings Co., Ltd.
Essilor Int'l Société Anonyme	NEUCA SA	Top Glove Corporation Bhd.
Exactech, Inc.	NichiiGakkan Co., Ltd.	Triple-S Management Corporation
Express Scripts Holding Company	Nihon Kohden Corporation	Tsukui Corporation
Extencare Inc.	NuVasive, Inc.	U.S. Physical Therapy, Inc.
Fisher & Paykel Healthcare Corporation Limited	Odontoprev S.A.	UDG Healthcare plc
Fleury S.A.	Olympus Corporation	Universal Health Services, Inc.
Fukuda Denshi Co., Ltd.	Omnicell, Inc.	Value Added Technology Co., Ltd.
Getinge AB	Oriola Oyj	Varian Medical Systems, Inc.
Ginko International Co. Ltd	ORPEA Société Anonyme	Vibhavadi Medical Center Public Company Limited
Globus Medical, Inc.	Orthofix International N.V.	Vieworks Co. Ltd.
Guerbet SA	Osstem Implant Co., Ltd.	Vital KSK Holdings, Inc.
Haemonetics Corporation	Owens & Minor, Inc.	West Pharmaceutical Services, Inc.
Hartalega Holdings Berhad	Paramount Bed Holdings Co., Ltd.	William Demant Holding A/S
HealthStream, Inc.	Patterson Companies, Inc.	Ypsomed Holding AG
Henry Schein, Inc.	PharMerica Corporation	Zimmer Biomet Holdings, Inc.
Hill-Rom Holdings, Inc.	Primary Health Care Limited	
HMS Holdings Corp.	Qualicorp S.A.	
Hogy Medical Co.,Ltd.	Quality Systems, Inc.	
ICU Medical, Inc.	Quest Diagnostics Incorporated	
IHH Healthcare Berhad	Raffles Medical Group Ltd	
InBody Co., Ltd.	Ramsay Health Care Limited	
Integer Holdings Corporation	ResMed Inc.	
Interojo Inc.	Rhön-Klinikum Aktiengesellschaft	
Intuitive Surgical, Inc.	Ryman Healthcare Limited	
Ion Beam Applications SA	Sartorius Stedim Biotech S.A.	
Japan Lifeline Co., Ltd.	Selçuk Ecza Deposu Ticaret ve Sanayi A.S.	
Korian	Select Medical Holdings Corporation	
Kossan Rubber Industries Bhd		
KPJ Healthcare Berhad		
Landauer, Inc.		

GICS 351010

Abaxis, Inc.
 ABIOMED, Inc.
 Align Technology, Inc.
 Ambu A/S
 Anika Therapeutics, Inc.
 Asahi Intecc Co., Ltd.
 Biotique Corporation

C. R. Bard, Inc.	Stryker Corporation	Life Healthcare Group Holdings Limited
Carl Zeiss Meditec AG	Suheung Co., Ltd.	LifePoint Health, Inc.
Cochlear Limited	Surmodics, Inc.	Magellan Health, Inc.
Coloplast A/S	Sysmex Corporation	McKesson Corporation
CONMED Corporation	Teleflex Incorporated	Medicare Group Q.S.C.
DENTSPLY SIRONA Inc.	Terumo Corporation	MEDNAX, Inc.
DiaSorin S.p.A.	The Cooper Companies, Inc.	Metlifecare Limited
DIO Corporation	Top Glove Corporation Bhd.	Miraca Holdings Inc.
Edwards Lifesciences Corporation	Value Added Technology Co., Ltd.	Molina Healthcare, Inc.
Eiken Chemical Co., Ltd.	Varian Medical Systems, Inc.	National HealthCare Corporation
Elekta AB (publ)	Vieworks Co. Ltd.	Netcare Limited
Essilor Int'l Société Anonyme	West Pharmaceutical Services, Inc.	NEUCA SA
Exactech, Inc.	William Demant Holding A/S	NichiiGakkan Co., Ltd.
Fisher & Paykel Healthcare Corporation Limited	Zimmer Biomet Holdings, Inc.	Odontoprev S.A.
Fukuda Denshi Co., Ltd.		Oriola Oyj
Ginko International Co. Ltd		ORPEA Société Anonyme
Globus Medical, Inc.		Owens & Minor, Inc.
Guerbet SA		Patterson Companies, Inc.
Haemonetics Corporation		PharMerica Corporation
Hartalega Holdings Berhad		Primary Health Care Limited
Hill-Rom Holdings, Inc.		Qualicorp S.A.
Hogy Medical Co.,Ltd.		Quest Diagnostics Incorporated
ICU Medical, Inc.		Raffles Medical Group Ltd
InBody Co., Ltd.		Ramsay Health Care Limited
Integer Holdings Corporation		Rhön-Klinikum Aktiengesellschaft
Interjo Inc.		Ryman Healthcare Limited
Intuitive Surgical, Inc.		Selçuk Ecza Deposu Ticaret ve Sanayi A.S.
Ion Beam Applications SA		Select Medical Holdings Corporation
Kossan Rubber Industries Bhd		Shanghai Pharmaceuticals Holding Co., Ltd.
Lutronic Corporation		Ship Healthcare Holdings, Inc.
Mani, Inc.		Sigma Healthcare Limited
Masimo Corporation		Sinopharm Group Co. Ltd.
Merit Medical Systems, Inc.		Sonic Healthcare Limited
Microlife Corporation		Summerset Group Holdings Limited
MicroPort Scientific Corporation		Suzuken Co., Ltd.
Nagaileben Co., Ltd.		The Ensign Group, Inc.
Nakanishi Inc.		The Providence Service Corporation
Natus Medical Incorporated		Toho Holdings Co., Ltd.
Nihon Kohden Corporation		Triple-S Management Corporation
NuVasive, Inc.		Tsukui Corporation
Olympus Corporation		U.S. Physical Therapy, Inc.
Orthofix International N.V.		Universal Health Services, Inc.
Osstem Implant Co., Ltd.		Vibhavadi Medical Center Public Company Limited
Paramount Bed Holdings Co., Ltd.		Vital KSK Holdings, Inc.
ResMed Inc.		
Sartorius Stedim Biotech S.A.		
Shandong Weigao Group Medical Polymer Company Limited		
Smith & Nephew plc		
Sonova Holding AG		
St.Shine Optical Company Limited		
STRATEC Biomedical AG		
	GICS 351020	
	Acadia Healthcare Company, Inc.	
	Alfresa Holdings Corporation	
	Almost Family, Inc.	
	AmerisourceBergen Corporation	
	AMN Healthcare Services, Inc.	
	Amplifon SpA	
	As One Corp.	
	Australian Pharmaceutical Industries Limited	
	Bangkok Chain Hospital Public Co.	
	Bangkok Dusit Medical Services Public Company Limited	
	BML, Inc.	
	Bumrungrad Hospital Public Company Limited	
	Cardinal Health, Inc.	
	Centene Corporation	
	CorVel Corporation	
	CVS Group plc	
	DaVita Inc.	
	Encompass Health Corporation	
	Envision Healthcare Corporation	
	Express Scripts Holding Company	
	Extendicare Inc.	
	Fleury S.A.	
	Henry Schein, Inc.	
	IHH Healthcare Berhad	
	Japan Lifeline Co., Ltd.	
	Korian	
	KPJ Healthcare Berhad	
	Landauer, Inc.	
	LHC Group, Inc.	

GICS 351030

athenahealth, Inc.
Cerner Corporation
CompuGroup Medical
Societas Europa
EMIS Group plc
HealthStream, Inc.
HMS Holdings Corp.
M3, Inc.
Medidata Solutions, Inc.
Omniceil, Inc.
Quality Systems, Inc.

China Shineway
Pharmaceutical Group
Limited
China Traditional Chinese
Medicine Holdings Co.
Limited
Chugai Pharmaceutical Co.,
Ltd.
Cipla Limited
CMIC HOLDINGS Co., Ltd.
Cosmo Pharmaceuticals
N.V.
CSL Limited
CSPC Pharmaceutical
Group Limited
DAE HWA Pharmaceutical
Co., Ltd.
Daewon Pharmaceutical
Co., Ltd.
Daewoong Co., Ltd.
Daewoong Pharmaceutical
Co., Ltd.
Daiichi Sankyo Company,
Limited
Dawnrays Pharmaceutical
(Holdings) Limited
Depomed, Inc.
Divi's Laboratories Limited
DongKook Pharmaceutical
Co., Ltd.
Eisai Co., Ltd.
Eli Lilly and Company
Emergent BioSolutions Inc.
EPS Holdings, Inc.
Eurofins Scientific SE
Evotec AG
Faes Farma, S.A.
FDC Limited
Genomma Lab
Internacional, S.A.B. de C.V.
Gilead Sciences, Inc.
GlaxoSmithKline plc
Glenmark Pharmaceuticals
Limited
Granules India Limited
Green Cross Corporation
Green Cross Holdings
Corporation
Grifols, S.A.
Handok Inc.
Hanmi Pharm. Co., Ltd.
Hanmi Science Co., Ltd.
Hikma Pharmaceuticals
PLC
Hisamitsu Pharmaceutical
Co., Inc.
Hypera S.A.
Illumina, Inc.
Ilyang Pharmaceutical
Co., Ltd
iNtRON Biotechnology, Inc.
Ipsa Laboratories Limited
Ipsen S.A.

J. B. Chemicals &
Pharmaceuticals Limited
JCR Pharmaceuticals Co.,
Ltd.
Johnson & Johnson
Jubilant Life Sciences
Limited
Kaken Pharmaceutical Co.,
Ltd.
Kissei Pharmaceutical Co.,
Ltd.
Kolon Life Science Inc.
Korea United Pharm Inc.
Kwang Dong
Pharmaceutical Co., Ltd.
KYORIN Holdings, Inc.
Kyowa Hakko Kirin Co., Ltd.
Lannett Company, Inc.
Ligand Pharmaceuticals
Incorporated
Linical Co., Ltd.
Luminex Corporation
Lupin Limited
Macrogen Inc.
Marksans Pharma Limited
Mayne Pharma Group
Limited
Medy-Tox Inc.
Merck & Co., Inc.
Merck
Kommanditgesellschaft
Aktien
Mettler-Toledo
International Inc.
MiMedx Group, Inc.
Mitsubishi Tanabe Pharma
Corporation
Mochida Pharmaceutical
Co., Ltd.
Myriad Genetics, Inc.
NATCO Pharma Limited
Nichi-Iko Pharmaceutical
Co., Ltd.
Nippon Shinyaku Co., Ltd.
Novartis AG
Novo Nordisk A/S
Ono Pharmaceutical Co.,
Ltd.
Orion Oyj
PAREXEL International
Corporation
PerkinElmer, Inc.
Pfizer Inc.
Pfizer Limited
Pharma Mar, S.A.
Prestige Brands Holdings,
Inc.
Probi AB (publ)
PT Kalbe Farma Tbk.
Recordati S.p.A.
Regeneron
Pharmaceuticals, Inc.
Repligen Corporation

GICS 3520

Abcam Plc
Acorda Therapeutics, Inc.
Adcock Ingram Holdings
Limited
Agilent Technologies, Inc.
Ajanta Pharma Limited
Akorn, Inc.
Alembic Pharmaceuticals
Limited
Alexion Pharmaceuticals,
Inc.
ALK-Abelló A/S
Almirall, S.A.
AMAG Pharmaceuticals,
Inc.
Amgen Inc.
ASKA Pharmaceutical Co.,
Ltd.
Aspen Pharmacare
Holdings Limited
Astellas Pharma Inc.
AstraZeneca PLC
Aurobindo Pharma Limited
Biocon Limited
BioGaia AB
Biogen Inc.
Bio-Techne Corporation
Biotest Aktiengesellschaft
Boiron SA
Boryung Pharmaceutical
Co., Ltd.
Bristol-Myers Squibb
Company
Bruker Corporation
BTG plc
Bukwang Pharmaceutical
Co., Ltd.
Cadila Healthcare Limited
Cambrex Corporation
Celgene Corporation
Cell Biotech Co., Ltd.
Celltrion Pharm Inc.
Celltrion, Inc.
Center Laboratories, Inc.
Charles River Laboratories
International, Inc.
China Medical System
Holdings Limited

REYON Pharmaceutical Co., Ltd.
 Richter Gedeon Vegyészeti Gyár Nyilvánosan Muködo Rt.
 Roche Holding AG
 Rohto Pharmaceutical Co., Ltd.
 Samjin Pharmaceuticals Co., Ltd.
 Sanofi
 Sanofi India Limited
 Santen Pharmaceutical Co., Ltd.
 Sawai Pharmaceutical Co., Ltd.
 ScinoPharm Taiwan, Ltd.
 Seegene, Inc.
 Seikagaku Corporation
 Shanghai Shenqi Pharmaceutical Investment Management Co.,Ltd.
 Shilpa Medicare Limited
 Shionogi & Co., Ltd.
 Shire plc
 Siegfried Holding AG
 Sino Biopharmaceutical Limited
 Sirtex Medical Limited
 SSY Group Limited
 STADA Arzneimittel Aktiengesellschaft
 Stallergenes Greer Plc
 Strides Shasun Limited
 Sumitomo Dainippon Pharma Co., Ltd.
 Sun Pharmaceutical Industries Limited
 Suven Life Sciences Limited
 Swedish Orphan Biovitrum AB
 Taisho Pharmaceutical Holdings Co., Ltd.
 Takara Bio Inc.
 Takeda Pharmaceutical Company Limited
 Tecan Group Ltd.
 Teva Pharmaceutical Industries Limited
 The United Laboratories International Holdings Limited
 Tianjin Zhongxin Pharmaceutical Group Corporation Limited
 Tong Ren Tang Technologies Co. Ltd.
 Torii Pharmaceutical Co., Ltd.
 Towa Pharmaceutical Co., Ltd.
 Tsumura & Co.

TTY Biopharm Company Limited
 UCB SA
 Unichem Laboratories Limited
 United Therapeutics Corporation
 Virbac SA
 Vitrolife AB (publ)
 Waters Corporation
 Whan In Pharm Co.,Ltd.
 Wockhardt Limited
 Yuhan Corporation
 Yungjin Pharm. Co., Ltd.
 YungShin Global Holding Corporation
 Zeria Pharmaceutical Co., Ltd.

GICS 352010

Abcam Plc
 Acorda Therapeutics, Inc.
 Alexion Pharmaceuticals, Inc.
 AMAG Pharmaceuticals, Inc.
 Amgen Inc.
 BioGaia AB
 Biogen Inc.
 Biotest Aktiengesellschaft
 Celgene Corporation
 Cell Biotech Co., Ltd.
 Celltrion, Inc.
 CSL Limited
 Emergent BioSolutions Inc.
 Gilead Sciences, Inc.
 Green Cross Corporation
 Green Cross Holdings Corporation
 Grifols, S.A.
 iNtRON Biotechnology, Inc.
 Ligand Pharmaceuticals Incorporated
 Medy-Tox Inc.
 MiMedx Group, Inc.
 Myriad Genetics, Inc.
 Probi AB (publ)
 Regeneron Pharmaceuticals, Inc.
 Repligen Corporation
 Seegene, Inc.
 Shire plc
 Sirtex Medical Limited
 Swedish Orphan Biovitrum AB
 Takara Bio Inc.
 United Therapeutics Corporation
 Vitrolife AB (publ)

GICS 352020

Adcock Ingram Holdings Limited
 Ajanta Pharma Limited
 Akorn, Inc.
 Alembic Pharmaceuticals Limited
 ALK-Abelló A/S
 Almirall, S.A.
 ASKA Pharmaceutical Co., Ltd.
 Aspen Pharmacare Holdings Limited
 Astellas Pharma Inc.
 AstraZeneca PLC
 Aurobindo Pharma Limited
 Boiron SA
 Boryung Pharmaceutical Co., Ltd.
 Bristol-Myers Squibb Company
 BTG plc
 Bukwang Pharmaceutical Co., Ltd.
 Cadila Healthcare Limited
 Celltrion Pharm Inc.
 Center Laboratories, Inc.
 China Medical System Holdings Limited
 China Shineway Pharmaceutical Group Limited
 China Traditional Chinese Medicine Holdings Co. Limited
 Chugai Pharmaceutical Co., Ltd.
 Cipla Limited
 Cosmo Pharmaceuticals N.V.
 CSPC Pharmaceutical Group Limited
 DAE HWA Pharmaceutical Co., Ltd.
 Daewon Pharmaceutical Co., Ltd.
 Daewoong Co., Ltd.
 Daewoong Pharmaceutical Co., Ltd.
 Daiichi Sankyo Company, Limited
 Dawnrays Pharmaceutical (Holdings) Limited
 Depomed, Inc.
 DongKook Pharmaceutical Co., Ltd.
 Eisai Co., Ltd.
 Eli Lilly and Company
 Faes Farma, S.A.
 FDC Limited
 Genomma Lab Internacional, S.A.B. de C.V.

GlaxoSmithKline plc
 Glenmark Pharmaceuticals Limited
 Granules India Limited
 Handok Inc.
 Hanmi Pharm. Co., Ltd.
 Hanmi Science Co., Ltd.
 Hikma Pharmaceuticals PLC
 Hisamitsu Pharmaceutical Co., Inc.
 Hypera S.A.
 Ilyang Pharmaceutical Co.,Ltd
 Ipca Laboratories Limited
 Ipsen S.A.
 J. B. Chemicals & Pharmaceuticals Limited
 JCR Pharmaceuticals Co., Ltd.
 Johnson & Johnson
 Jubilant Life Sciences Limited
 Kaken Pharmaceutical Co., Ltd.
 Kissei Pharmaceutical Co., Ltd.
 Kolon Life Science Inc.
 Korea United Pharm Inc.
 Kwang Dong Pharmaceutical Co., Ltd.
 KYORIN Holdings, Inc.
 Kyowa Hakko Kirin Co., Ltd.
 Lannett Company, Inc.
 Lupin Limited
 Marksans Pharma Limited
 Mayne Pharma Group Limited
 Merck & Co., Inc.
 Merck
 Kommanditgesellschaft Aktien
 Mitsubishi Tanabe Pharma Corporation
 Mochida Pharmaceutical Co., Ltd.
 NATCO Pharma Limited
 Nichi-Iko Pharmaceutical Co., Ltd.
 Nippon Shinyaku Co., Ltd.
 Novartis AG
 Novo Nordisk A/S
 Ono Pharmaceutical Co., Ltd.
 Orion Oyj
 Pfizer Inc.
 Pfizer Limited
 Prestige Brands Holdings, Inc.
 PT Kalbe Farma Tbk.
 Recordati S.p.A.
 REYON Pharmaceutical Co., Ltd.

Richter Gedeon Vegyészeti Gyár Nyilvánosan Muködo Rt.
 Roche Holding AG
 Rohto Pharmaceutical Co., Ltd.
 Samjin Pharmaceuticals Co., Ltd.
 Sanofi
 Sanofi India Limited
 Santen Pharmaceutical Co., Ltd.
 Sawai Pharmaceutical Co., Ltd.
 ScinoPharm Taiwan, Ltd.
 Seikagaku Corporation
 Shanghai Shenqi Pharmaceutical Investment Management Co.,Ltd.
 Shilpa Medicare Limited
 Shionogi & Co., Ltd.
 Sino Biopharmaceutical Limited
 SSY Group Limited
 STADA Arzneimittel Aktiengesellschaft
 Stallergenes Greer Plc
 Strides Shasun Limited
 Sumitomo Dainippon Pharma Co., Ltd.
 Sun Pharmaceutical Industries Limited
 Suven Life Sciences Limited
 Taisho Pharmaceutical Holdings Co., Ltd.
 Takeda Pharmaceutical Company Limited
 Teva Pharmaceutical Industries Limited
 The United Laboratories International Holdings Limited
 Tianjin Zhongxin Pharmaceutical Group Corporation Limited
 Tong Ren Tang Technologies Co. Ltd.
 Torii Pharmaceutical Co., Ltd.
 Towa Pharmaceutical Co., Ltd.
 Tsumura & Co.
 TTY Biopharm Company Limited
 UCB SA
 Unichem Laboratories Limited
 Virbac SA
 Whan In Pharm Co.,Ltd.
 Wockhardt Limited
 Yuhan Corporation
 Yungjin Pharm. Co., Ltd.

YungShin Global Holding Corporation
 Zeria Pharmaceutical Co., Ltd.

GICS 352030

Agilent Technologies, Inc.
 Bio-Techne Corporation
 Bruker Corporation
 Cambrex Corporation
 Charles River Laboratories International, Inc.
 CMIC HOLDINGS Co., Ltd.
 Divi's Laboratories Limited
 EPS Holdings, Inc.
 Eurofins Scientific SE
 Evotec AG
 Illumina, Inc.
 Lincal Co., Ltd.
 Luminex Corporation
 Macrogen Inc.
 Mettler-Toledo International Inc.
 PAREXEL International Corporation
 PerkinElmer, Inc.
 Siegfried Holding AG
 Tecan Group Ltd.
 Waters Corporation

GICS 401010

Abu Dhabi Commercial Bank PJSC
 Agricultural Bank of China Limited
 Akbank T.A.S.
 Albaraka Turk Katilim Bankasi A.S.
 Andhra Bank
 Aozora Bank, Ltd.
 Associated Banc-Corp
 Banco ABC Brasil S.A.
 Banco Bilbao Vizcaya Argentaria
 Banco Bradesco S.A.
 Banco de Chile
 Banco de Crédito e Inversiones
 Banco de Sabadell, S.A.
 Banco do Brasil S.A.
 Banco do Estado do Rio Grande do Sul S.A.
 Banco Santander, S.A.
 Banco Santander-Chile
 Bancolombia S.A.
 Bangkok Bank Public Company Limited
 Bank Handlowy w Warszawie S.A.
 Bank Hapoalim B.M.
 Bank Leumi le- Israel B.M.

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Bank Millennium S.A.	Far Eastern International Bank Ltd.	Laurentian Bank of Canada
Bank of Communications Co., Ltd.	First Abu Dhabi Bank P.J.S.C.	LegacyTexas Financial Group, Inc.
Bank of Hawaii Corporation	First Commonwealth Financial Corporation	Malayan Banking Berhad
Bank of Kaohsiung Co., Ltd.	First Financial Bancorp.	mBank S.A.
Bank of Montreal	First Financial Bankshares, Inc.	Mizrahi Tefahot Bank Ltd.
Bank of Queensland Limited	First International Bank of Israel Ltd	Mizuho Financial Group, Inc.
Bank of The Ryukyus, Limited	First Midwest Bancorp, Inc.	National Australia Bank Limited
Bank Zachodni WBK S.A.	Fukuoka Financial Group, Inc.	National Bank of Canada
Banner Corporation	Fulton Financial Corporation	NBT Bancorp Inc.
Banregio Grupo Financiero, S.A.B de C.V.	Getin Noble Bank S.A.	Nedbank Group Limited
BDO Unibank, Inc.	Glacier Bancorp, Inc.	North Pacific Bank, Ltd.
BNK Financial Group Inc.	Grupo Aval Acciones Y Valores S.A.	Old National Bancorp
BOC Hong Kong (Holdings) Limited	Grupo Financiero Banorte, S.A.B. de C.V.	OTP Bank Plc.
BPER Banca S.p.A.	Hana Financial Group Inc.	PacWest Bancorp
Brookline Bancorp, Inc.	Hancock Holding Company	Park National Corporation
CaixaBank, S.A.	Hang Seng Bank Limited	People's United Financial, Inc.
Canadian Imperial Bank of Commerce	Hanmi Financial Corporation	Pinnacle Financial Partners, Inc.
Canadian Western Bank	Hokuhoku Financial Group, Inc.	Powszechna Kasa
Canara Bank	Home Bancshares, Inc. (Conway, AR)	Oszczednosci Bank Polski
Capitec Bank Holdings Limited	Hong Leong Bank Berhad	Spółka Akcyjna
Cathay General Bancorp	Hong Leong Financial Group Berhad	Prosperity Bancshares, Inc.
Central Pacific Financial Corp.	Hope Bancorp, Inc.	PT Bank Central Asia Tbk
China CITIC Bank Corporation Limited	Hua Nan Financial Holdings Co., Ltd.	PT Bank Mandiri (Persero) Tbk
China Construction Bank Corp.	Huntington Bancshares Incorporated	PT Bank Negara Indonesia (Persero) Tbk
China Development Financial Holding Corporation	Independent Bank Corp.	PT Bank Pembangunan Daerah Jawa
China Merchants Bank Co., Ltd.	Industrial & Commercial Bank China	PT Bank Pembangunan Daerah Jawa Barat dan Banten Tbk
City Holding Company	Industrial Bank of Korea	PT Bank Tabungan Negara (Persero) Tbk
Columbia Banking System, Inc.	ING Groep N.V.	Public Bank Berhad
comdirect bank	International Bancshares Corporation	Qatar Islamic Bank (Q.P.S.C.)
Aktiengesellschaft	Israel Discount Bank Limited	Qatar National Bank (Q.P.S.C.)
Commercial International Bank (Egypt) S.A.E.	Itaú CorpBanca	Raiffeisen Bank International AG
Commonwealth Bank of Australia	Itaúsa - Investimentos Itaú S.A.	Regions Financial Corporation
Community Bank System, Inc.	Jimoto Holdings, Inc.	Resona Holdings, Inc.
Concordia Financial Group, Ltd.	Kansai Urban Banking Corporation	RHB Bank Berhad
Credicorp Ltd.	Kasikornbank Public Company Limited	Rizal Commercial Banking Corporation
Credit Agricole S.A.	KBC Group NV	Royal Bank of Canada
Credito Emiliano S.p.A.	Komerční banka, a.s.	S&T Bancorp, Inc.
Cullen/Frost Bankers, Inc.	Krung Thai Bank Public Company Limited	Sberbank of Russia
CVB Financial Corp.	Kyushu Financial Group, Inc.	Senshu Ikeda Holdings, Inc.
Dah Sing Banking Group Limited	Lakeland Bancorp, Inc.	Seven Bank, Ltd.
Dah Sing Financial Holdings Limited		Signature Bank
DCB Bank Limited		Simmons First National Corporation
Doha Bank Q.P.S.C.		Spar Nord Bank A/S
F.N.B. Corporation		SpareBank 1 Nord-Norge
		St. Galler Kantonalbank AG
		Standard Chartered PLC

Sumitomo Mitsui Trust Holdings, Inc.	The Shizuoka Bank, Ltd.	Limited
SunTrust Banks, Inc.	The Siam Commercial Bank Public Company Limited	Malaysia Building Society Berhad
Suruga Bank Ltd.	The Tochigi Bank, Ltd.	MGIC Investment Corporation
SVB Financial Group	The Toho Bank, Ltd.	New York Community Bancorp, Inc.
Svenska Handelsbanken AB (publ)	The Toronto-Dominion Bank	Northwest Bancshares, Inc.
Swedbank AB (publ)	The Towa Bank, Ltd.	Oritani Financial Corp.
Sydbank A/S	The Tsukuba Bank, Limited	Provident Financial Services, Inc.
Synovus Financial Corp.	The Yamagata Bank, Ltd.	Radian Group Inc.
Taichung Commercial Bank Co., Ltd.	The Yamanashi Chuo Bank, Ltd.	TrustCo Bank Corp NY
Taiwan Business Bank, Ltd.	TISCO Financial Group Public Company Limited	Washington Federal, Inc.
Taiwan Cooperative Financial Holding Co., Ltd.	Tokyo TY Financial Group, Inc.	
TCF Financial Corporation	TOMONY Holdings, Inc.	GICS 402010
Texas Capital Bancshares, Inc.	Tompkins Financial Corporation	ABC Arbitrage SA
Thanachart Capital Public Company Limited	Trustmark Corporation	Ackermans & Van Haaren NV
The 77 Bank, Ltd.	Türkiye Garanti Bankasi A.S.	Aktiebolaget Industrivärden
The Aichi Bank, Ltd.	Türkiye Halk Bankasi A.S.	Al Waha Capital PJSC
The Akita Bank, Ltd.	Türkiye Is Bankasi Anonim Sirketi	AMP Limited
The Aomori Bank, Ltd.	Turkiye Sinai Kalkinma Bankasi A.S.	Banca IFIS S.p.A.
The Awa Bank, Limited	UMB Financial Corporation	Chailease Holding Company Limited
The Bank of Iwate, Ltd.	United Bankshares, Inc.	Challenger Limited
The Bank of Kyoto, Ltd.	United Community Banks, Inc.	Corporación Financiera Colombiana S.A.
The Bank of Nova Scotia	United Overseas Bank Limited	Eurazeo SE
The Bank of Saga Ltd.	Valiant Holding AG	Exor N.V.
The Chiba Bank, Ltd.	Webster Financial Corporation	Far East Horizon Limited
The Chiba Kogyo Bank, Ltd.	Westamerica Bancorporation	Financial Products Group Co., Ltd.
The Chugoku Bank, Limited	Westpac Banking Corporation	First Pacific Company Limited
The Chukyo Bank, Limited	Wintrust Financial Corporation	Fubon Financial Holding Co., Ltd.
The Commercial Bank (P.S.Q.C.)	Yamaguchi Financial Group, Inc.	Fuyo General Lease Co., Ltd.
The Ehime Bank, Ltd.	Yapi ve Kredi Bankasi A.S.	Grenke AG
The Eighteenth Bank, Limited	Zions Bancorporation	Groupe Bruxelles Lambert SA
The Gunma Bank, Ltd.		Grupo de Inversiones Suramericana S.A.
The Hachijuni Bank, Ltd.	GICS 401020	GT Capital Holdings, Inc.
The Hiroshima Bank, Ltd.	Aareal Bank AG	Haci Ömer Sabanci Holding A.S.
The Hokkoku Bank, Ltd.	Astoria Financial Corporation	Hypoport AG
The Hokuetsu Bank, Ltd.	Bank Mutual Corporation	IBJ Leasing Company, Limited
The Hyakugo Bank, Ltd.	Bofl Holding, Inc.	IFCI Limited
The Hyakujushi Bank, Ltd.	Can Fin Homes Limited	Inversiones La Construcción S.A.
The Iyo Bank, Ltd.	Dewan Housing Finance Corp.	Investment AB Öresund (publ)
The Juroku Bank, Ltd.	Dime Community Bancshares, Inc.	Investor AB
The Karur Vysya Bank Limited	Flagstar Bancorp, Inc.	Japan Securities Finance Co., Ltd.
The Keiyo Bank, Ltd.	Genworth MI Canada Inc.	L&T Finance Holdings Limited
The Kiyo Bank, Ltd.	GRUH Finance Limited	Meritz Financial Group Inc.
The Mie Bank, Ltd.	Home Capital Group Inc.	Metro Pacific Investments Corporation
The Minato Bank, Ltd.	LendingTree, Inc.	
The Miyazaki Bank, Ltd.	LIC Housing Finance	
The Musashino Bank, Ltd.		
The Nanto Bank, Ltd.		
The Oita Bank, Ltd.		
The PNC Financial Services Group, Inc.		
The San-in Godo Bank, Ltd.		
The Shiga Bank, Ltd.		
The Shikoku Bank, Ltd.		

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NEC Capital Solutions Limited
 NICE Holdings Co., Ltd.
 NICE Information Service Co., Ltd.
 Pargesa Holding SA
 Power Finance Corporation Limited
 PSG Group Limited
 Qatar Industrial Manufacturing Company Q.P.S.C.
 Remgro Limited
 Ricoh Leasing Company, Ltd.
 RMB Holdings Limited
 Sofina Soci t  Anonyme
 SREI Infrastructure Finance Limited
 Tokyo Century Corporation

Transaction Capital Limited
 World Acceptance Corporation

Franklin Resources, Inc.
 GAM Holding AG
 GF Securities Co., Ltd.
 GIMV NV
 Greenhill & Co., Inc.
 Guotai Junan International Holdings Limited
 Haitong International Securities Group Limited
 Haitong Securities Co., Ltd.
 Hargreaves Lansdown plc
 Hellenic Exchanges
 Hong Kong Exchanges and Clearing Limited
 Huatai Securities Co., Ltd.
 Ichiyoshi Securities Co., Ltd.
 IG Group Holdings plc
 IGM Financial Inc.
 IIFL Holdings Limited
 Interactive Brokers Group, Inc.
 Intercontinental Exchange, Inc.
 Intermediate Capital Group plc
 INTL FCStone Inc.
 Invesco Ltd.
 Investec plc
 IOOF Holdings Ltd
 JAFCO Co., Ltd.
 Japan Exchange Group, Inc.
 JM Financial Limited
 JSE Limited
 Julius Baer Group Ltd.
 Jupiter Fund Management Plc
 kabu.com Securities Co., Ltd.
 Kiwoom Securities Co., Ltd.
 Korea Investment Holdings Co., Ltd.
 Kyobo Securities Co., Ltd.
 Kyokuto Securities Co., Ltd.
 Legg Mason, Inc.
 Macquarie Group Limited
 Magellan Financial Group
 MarketAxess Holdings Inc.
 Marusan Securities Co., Ltd.
 MasterLink Securities Corporation
 Matsui Securities Co., Ltd.
 Meritz Securities Co., Ltd.
 Mirae Asset Daewoo Co., Ltd.
 Monex Group, Inc.
 Morgan Stanley
 Morningstar, Inc.
 Motilal Oswal Financial Services Limited
 MSCI Inc.

GICS 402030

3i Group plc
 Affiliated Managers Group, Inc.
 AGF Management Limited
 Alaris Royalty Corp.
 Altamir SCA
 Ashmore Group PLC
 ASX Limited
 Avanza Bank Holding AB (publ)
 Azimut Holding S.p.A.
 Banca Generali S.p.A.
 BinckBank N.V.
 BlackRock, Inc.
 Bolsa Mexicana de Valores, S.A.B. de C.V.
 Bolsas y Mercados Espa n., Soc.
 Brewin Dolphin Holdings PLC
 Bright Smart Securities & Commodities Group Limited
 Brookfield Asset Management Inc.
 BT Investment Management Limited
 Bure Equity AB
 Bursa Malaysia Berhad
 Capital Securities Corporation
 China Everbright Limited
 CI Financial Corp
 CITIC Securities Company Limited
 CME Group Inc.
 Coronation Fund Managers Limited
 Credit Suisse Group AG
 CRISIL Limited
 Daishin Securities Co., Ltd.
 Daou Data Corp.
 Daou Tech, Inc.
 Deutsche Beteiligungs AG
 Deutsche B rse Aktiengesellschaft
 E*TRADE Financial Corporation
 Eaton Vance Corp.
 Edelweiss Financial Services Limited
 EFG Hermes Holding S.A.E.
 Eugene Investment & Securities Co., Ltd.
 FactSet Research Systems Inc.
 Federated Investors, Inc.
 Financial Engines, Inc.

GICS 402020

Acom Co., Ltd.
 AEON Credit Service (M) Berhad
 AEON Financial Service Co., Ltd.
 Aiful Corporation
 American Express Company
 Bajaj Finance Limited
 Capital One Financial Corporation
 Credit Acceptance Corporation
 Credit Corp Group Limited
 Credit Saison Co.,Ltd.
 Discover Financial Services
 Encore Capital Group, Inc.
 EZCORP, Inc.
 FirstCash, Inc.
 FlexiGroup Limited
 Green Dot Corporation
 Group Lease Public Company Limited
 International Personal Finance Plc
 JACCS Co., Ltd.
 KRUK Sp lka Akcyjna
 Krungthai Card Public Company Limited
 Mahindra & Mahindra Financial Services Limited
 Manappuram Finance Limited
 Muthoot Finance Limited
 Orient Corporation
 PRA Group, Inc.
 Provident Financial plc
 Samsung Card Co., Ltd.
 Shriram Transport Finance Company Limited
 Sun Hung Kai & Co. Limited

Multi Commodity Exchange of India Limited
 Nasdaq, Inc.
 Natixis S.A.
 NEX Group plc
 NH Investment & Securities Co., Ltd.
 Nomura Holdings, Inc.
 Northern Trust Corporation
 Okasan Securities Group Inc.
 Partners Group Holding AG
 Peregrine Holdings Limited
 Perpetual Limited
 Pioneers Holding Co.
 Piper Jaffray Companies
 Platinum Investment Management
 President Securities Corporation
 PTC India Financial Services Limited
 Raymond James Financial, Inc.
 S&P Global Inc.
 Samsung Securities Co.,Ltd.
 SBI Holdings, Inc.
 Schroders plc
 SEI Investments Co.
 Shenwan Hongyuan (H.K.) Limited
 Shinyoung Securities Co., Ltd.
 Singapore Exchange Limited
 St. James's Place plc
 State Street Corporation
 Stifel Financial Corp.
 Swissquote Group Holding Ltd
 T. Rowe Price Group, Inc.
 Tamburi Investment Partners S.p.A.
 Tata Investment Corporation Ltd.
 TD Ameritrade Holding Corporation
 The Bank of New York Mellon Corporation
 The Charles Schwab Corporation
 The Goldman Sachs Group, Inc.
 Thomson Reuters Corporation
 Tokai Tokyo Financial Holdings, Inc.
 Value Partners Group Limited
 Virtus Investment Partners, Inc.
 Vontobel Holding AG

VZ Holding AG
 Waddell & Reed Financial, Inc.
 WisdomTree Investments, Inc.
 Yuanta Financial Holding Co., Ltd.
 Zeder Investments Ltd.

GICS 403010

Admiral Group plc
 AEGON N.V.
 Aflac Incorporated
 ageas SA/NV
 AIA Group Limited
 Alleghany Corporation
 Allianz SE
 Alm. Brand A/S
 American Equity Investment Life Holding Company
 American Financial Group, Inc.
 American International Group, Inc.
 American National Insurance Company
 Amerisafe, Inc.
 Anadolu Anonim Türk Sigorta Sirketi
 Anadolu Hayat Emeklilik Anonim Sirket
 Anicom Holdings, Inc.
 Arthur J. Gallagher & Co.
 Aspen Insurance Holdings Limited
 Assicurazioni Generali S.p.A.
 Assurant, Inc.
 Aviva plc
 AXA SA
 Baloise Holding AG
 Beazley plc
 Brown & Brown, Inc.
 Cathay Financial Holding Co., Ltd.
 Chesnara plc
 China Life Insurance Co., Ltd.
 China Life Insurance Company Limited
 China Pacific Insurance (Group) Co., Ltd.
 China Taiping Insurance Holdings Company Limited
 Chubb Limited
 Cincinnati Financial Corporation
 Clal Insurance Enterprises Holdings Ltd.
 CNO Financial Group, Inc.
 CNP Assurances SA
 Crawford & Company

Dai-ichi Life Holdings, Inc.
 Employers Holdings, Inc.
 Erie Indemnity Company
 Euler Hermes Group SA
 Everest Re Group, Ltd.
 Fairfax Financial Holdings Limited
 Fidelity National Financial, Inc.
 First American Financial Corporation
 Gjensidige Forsikring ASA
 Great-West Lifeco Inc.
 Grupo Catalana Occidente, S.A.
 Hannover Rück SE
 Hanwha General Insurance Co., Ltd.
 Hanwha Life Insurance Co., Ltd.
 HCI Group, Inc.
 Helvetia Holding AG
 Hiscox Ltd
 Horace Mann Educators Corporation
 Hyundai Marine & Fire Insurance Co. Ltd.
 Industrial Alliance Insurance and Financial Services Inc.
 Infinity Property and Casualty Corporation
 Insurance Australia Group Limited
 Intact Financial Corporation
 Kemper Corporation
 Korean Reinsurance Company
 Lancashire Holdings Limited
 Liberty Holdings Limited
 Lincoln National Corporation
 Long Bon International Co., Ltd.
 Lotte Non - Life Insurance Co., Ltd.
 Maiden Holdings, Ltd.
 Manulife Financial Corporation
 Mapfre, S.A.
 Max Financial Services Limited
 Menora Mivtachim Holdings Ltd
 Mercuries & Associates, Holding Ltd.
 Mercuries Life Insurance Co., Ltd.
 Mercury General Corporation
 Meritz Fire & Marine Insurance Co., Ltd.

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BYD Electronic (International) Co CA, Inc.	Comtech Telecommunications Corp.	Eugene Technology Co., Ltd.
Cabot Microelectronics Corporation	Conexio Corporation	Everlight Electronics Co., Ltd.
CACI International Inc	Constellation Software Inc.	Evertz Technologies Limited
Cadence Design Systems, Inc.	Convergys Corporation	EVS Broadcast Equipment S.A.
CalAmp Corp.	Coretronic Corp.	F@N Communications, Inc.
Cal-Comp Electronics (Thailand) Public Company Limited	Corning Incorporated	F5 Networks, Inc.
Cancom SE	CoStar Group, Inc.	Fabrinet
Canon Electronics Inc.	Cray Inc.	Facebook, Inc.
Capgemini SE	Cree, Inc.	Fair Isaac Corporation
carsales.com Ltd	CROOZ, Inc.	Faraday Technology Corporation
Cass Information Systems, Inc.	CSG Systems International, Inc.	FARO Technologies, Inc.
Catcher Technology Co., Ltd.	CTS Corporation	Fidelity Nat'l Info Services
CD Projekt S.A.	Daeduck Electronics Co., Ltd.	Finisar Corporation
Celestica Inc.	Daeduck GDS Co.,Ltd.	Firich Enterprises Co., Ltd.
CEVA, Inc.	Daiwabo Holdings Co., Ltd.	First Solar, Inc.
CGI Group Inc.	Daktronics, Inc.	Fiserv, Inc.
Chaun-Choung Technology Corp.	Dassault Systèmes SE	Flex Ltd.
Check Point Software Technologies Ltd.	Datalogic S.p.A.	Flexium Interconnect, Inc.
Cheng Uei Precision Industry Co., Ltd.	Datatec Limited	FLIR Systems, Inc.
Chicony Electronics Co., Ltd.	DeNA Co., Ltd.	Flytech Technology Co., Ltd.
Chimei Materials Technology Corp.	Denki Kogyo Co.,Ltd.	FocalTech Systems Co., Ltd.
Chin Poon Industrial Co., Ltd.	Devoteam SA	Formosa Advanced Technologies Co., Ltd.
China All Access (Holdings) Limited	Dialog Semiconductor Plc	Formula Systems (1985) Ltd.
Chinasoft International Limited	Diebold Nixdorf Aktiengesellschaft	Fortinet, Inc.
Chipbond Technology Corporation	Diebold Nixdorf, Incorporated	Foxconn Technology Co., Ltd.
Chroma ATE Inc.	Digital China Holdings Limited	Fuji Soft Incorporated
Cielo S.A.	Diodes Incorporated	Fujitsu Limited
Cirrus Logic, Inc.	DIP Corporation	Fukui Computer Holdings,Inc.
Cisco Systems, Inc.	Disco Corporation	Future Corporation
Citrix Systems, Inc.	Dolby Laboratories, Inc.	GAMEVIL Inc.
Clevo Co.	Douzone Bizon Co., Ltd.	GCL-Poly Energy Holdings Limited
Cognex Corporation	DTS Corporation	Getac Technology Corporation
Cognizant Technology Solutions Corporation	eBay Inc.	GFT Technologies SE
Coherent, Inc.	Ebix, Inc.	Giga Solar Materials Corp.
Com2uS Corporation	eClerx Services Limited	Gigabyte Technology Co.,Ltd
Comba Telecom Systems Holdings Limited	EIZO Corporation	Global Payments Inc.
Comet Holding AG	ELAN Microelectronics Corporation	Global UniChip Corp.
Commvault Systems, Inc.	Elecom Co., Ltd.	Globetronics Technology Bhd
Compal Electronics, Inc.	Electrocomponents plc	GMO Internet, Inc.
Compeq Manufacturing Co., Ltd.	Electronic Arts Inc.	Greatek Electronics Inc.
Computer Modelling Group Ltd.	Electronics for Imaging, Inc.	Gree, Inc.
	Elematec Corporation	G-Smatt Global Co., Ltd.
	Elite Advanced Laser Corporation	GungHo Online Entertainment, Inc.
	Elite Material Co., Ltd.	Gurunavi, Inc.
	Elite Semiconductor Memory Technology Inc.	Halma plc
	Elitegroup Computer Systems Co., Ltd.	Hamamatsu Photonics K.K.
	Enghouse Systems Limited	Hana Microelectronics Public Company Limited
	EO Technics Co., Ltd.	
	EOH Holdings Limited	
	ePlus inc.	
	Esprinet S.p.A.	

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Hancom Inc.	Jack Henry & Associates, Inc.	Logitech International S.A.
HANMI Semiconductor Co., Ltd.	Japan Aviation Electronics Industry, Limited	LogMeln, Inc.
Hansen Technologies Ltd	Japan Cash Machine Co., Ltd.	LOTES Co., Ltd.
Hearts United Group Co., Ltd.	JAPAN MATERIAL Co., Ltd.	Macnica Fuji Electronics Holdings, Inc.
Hexagon AB	JCY International Berhad	Malaysian Pacific Industries Berhad
Hexaware Technologies Limited	Jenoptik AG	Manhattan Associates, Inc.
Hirose Electric Co.,Ltd.	Ju Teng International Holdings Limited	ManTech International Corporation
Hitachi High-Technologies Corporation	Juniper Networks, Inc.	Marvell Technology Group Ltd.
Hitachi Kokusai Electric Inc.	JustSystems Corporation	Marvelous Inc.
Holtek Semiconductor Inc.	Kaga Electronics Co.,Ltd.	Matrix IT Ltd.
Holy Stone Enterprise Company Limited	Kakaku.com, Inc.	Maxim Integrated Products, Inc.
homecast Co., Ltd.	Kakao Corp.	MAXIMUS, Inc.
Hon Hai Precision Industry Co.	Kanematsu Electronics Ltd.	MCJ Co., Ltd.
HORIBA, Ltd.	Kapsch TrafficCom AG	MediaTek Inc.
HTC Corporation	KCE Electronics Public Company Limited	MegaChips Corporation
Humax Co., Ltd.	Keyence Corporation	Melco Holdings Inc.
IAC/InterActiveCorp	KG Inicis Co., Ltd.	Melexis NV
Icom Incorporated	King Yuan ELECTRONICS CO., LTD.	Mercadolibre, Inc.
IEI Integration Corp.	Kingboard Laminates Holdings Limited	Merry Electronics Co., Ltd.
II-VI Incorporated	Kingdee International Software Group Company Limited	Methode Electronics, Inc.
Inari Amertron Berhad	Kingpak Technology Inc.	Microchip Technology Incorporated
INES Corporation	Kingsoft Corporation Limited	Micron Technology, Inc.
INFICON Holding AG	Kinsus Interconnect Technology Corp.	Micronics Japan Co.,Ltd.
Infineon Technologies AG	KLA-Tencor Corporation	Microsemi Corporation
Info Edge (India) Limited	KOA Corporation	Microsoft Corporation
Infocom Corporation	Koei Tecmo Holdings Co., Ltd.	Micro-Star International Co., Ltd.
Infomart Corporation	Koh Young Technology Inc.	MicroStrategy Incorporated
Information Services International-Dentsu, Ltd.	Konica Minolta, Inc.	Mimasu Semiconductor Industry Co., Ltd.
Infosys Limited	Korea Information & Communications Co., Ltd.	Mindtree Limited
Ingenico Group - GCS	KPIT Technologies Limited	Miroku Jyoho Service Co., Ltd.
Insight Enterprises, Inc.	Kudelski SA	Mitel Networks Corporation
Integrated Device Technology, Inc.	Kulicke and Soffa Industries, Inc.	Mitsui High-tec, Inc.
Intel Corporation	Kyocera Corporation	mixi, Inc.
InterDigital, Inc.	Laird PLC	MKS Instruments, Inc.
International Business Machines	Lam Research Corporation	Moneysupermarket.com Group PLC
International Games System Co., LTD	Largan Precision Co., Ltd.	Monolithic Power Systems, Inc.
Internet Initiative Japan Inc.	Lasertec Corporation	Monotype Imaging Holdings Inc.
Intuit Inc.	LEENO Industrial Inc.	Morpho, Inc.
Inventec Corporation	Leidos Holdings, Inc.	Mphasis Limited
iomart Group plc	Lenovo Group Limited	MTI Ltd.
IPG Photonics Corporation	Lextar Electronics Corporation	MTS Systems Corporation
IRESS Limited	LG Display Co., Ltd.	Murata Manufacturing Co., Ltd.
Iriso Electronics Co., Ltd.	LG Innotek Co., Ltd.	My E.G. Services Berhad
Isra Vision AG	Lite-On Semiconductor Corp.	Mycronic AB (publ)
istyle Inc.	Lite-On Technology Corporation	Nanometrics Incorporated
ITEQ Corporation	Littelfuse, Inc.	National Instruments Corporation
ITOCHU Techno-Solutions Corporation		NCR Corporation
IXYS Corporation		NCsoft Corporation
j2 Global, Inc.		
Jabil Inc.		

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NEC Corporation	Park Electrochemical Corp.	Semiconductor
NEC Networks & System	Partron Co., Ltd.	Manufacturing
Integration Corporation	PAX Global Technology	International Corporation
Nemetschek SE	Limited	Semtech Corporation
Neopost S.A.	Paychex, Inc.	Seoul Semiconductor Co.,
Net 1 UEPS Technologies,	PC Connection, Inc.	Ltd.
Inc.	PChome Online Inc.	Sercomm Corporation
Net One Systems Co., Ltd.	PDF Solutions, Inc.	Shanghai Baosight
NetApp, Inc.	Pegasystems, Inc.	Software Co., Ltd.
NetEnt AB (publ)	Pegatron Corporation	Shanghai Fudan
NETGEAR, Inc.	Perficient, Inc.	Microelectronics Group
NetScout Systems, Inc.	Persistent Systems Limited	Company Limited
NEXON Co., Ltd.	Phison Electronics	Shindengen Electric
Nexon GT Co., Ltd.	Corporation	Manufacturing Co.,Ltd.
NHN KCP Corp.	Photonics, Inc.	Shinko Electric Industries
NIC Inc.	PixArt Imaging Inc.	Co., Ltd.
Nice Information &	Plantronics, Inc.	Sigurd Microelectronics
Telecommunication, Inc.	Plexus Corp.	Corporation
NICE Ltd.	Posco ICT Company Ltd.	SIIX Corporation
Nichicon Corporation	Posiflex Technology, Inc.	Silicon Laboratories Inc.
Nihon Unisys, Ltd.	Power Integrations, Inc.	Silicon Works Co., Ltd.
NIIT Technologies Limited	Powertech Technology Inc.	Siliconware Precision
Nippon Ceramic Co., Ltd.	Progress Software	Industries Co., Ltd.
Nippon Electric Glass Co.,	Corporation	Silverlake Axis Ltd
Ltd.	PTC Inc.	SimCorp A/S
Nohmi Bosai Ltd.	Qisda Corporation	Simplo Technology Co.,
Nomura Research Institute,	Qorvo, Inc.	Ltd.
Ltd.	QUALCOMM Incorporated	SINA Corporation
Nordic Semiconductor ASA	Qualys, Inc.	sindoh Co.,Ltd.
Novatek Microelectronics	Quanta Computer Inc.	Sitronix Technology
Corp.	Radiant Opto-Electronics	Corporation
NS Solutions Corporation	Corporation	SK Hynix Inc.
NSD Co., Ltd.	Rambus Inc.	Skyworks Solutions, Inc.
NTT Data Corporation	REA Group Limited	SMA Solar Technology AG
NuFlare Technology, Inc.	Realtek Semiconductor	SMS Co., Ltd.
NVIDIA Corporation	Corp.	Software
OBIC Business Consultants	Red Hat, Inc.	Aktiengesellschaft
Co., Ltd.	Redington (India) Limited	Soft-World International
OBIC Co., Ltd.	Renishaw plc	Corporation
Oki Electric Industry Co.,	Reply S.p.A.	Sonda S.A.
Ltd.	RIB Software SE	Sopra Steria Group
ON Semiconductor	Ricoh Company, Ltd.	Spectris plc
Corporation	Riso Kagaku Corporation	SPS Commerce, Inc.
On-Bright Electronics	ROHM Co., Ltd.	Square Enix Holdings Co.,
Incorporated	Roland DG Corporation	Ltd.
O-Net Technologies	Rudolph Technologies, Inc.	Stamps.com Inc.
(Group) Limited	Ryosan Company, Limited	Starbreeze AB (publ)
Open Text Corporation	Ryoyo Electro Corporation	Sterlite Technologies
OPTEX Group Co., Ltd.	S&T AG	Limited
Oracle Corporation	Samsung Electro-	SUNeVision Holdings Ltd.
Oracle Corporation Japan	Mechanics Co., Ltd.	Sunny Optical Technology
Orbotech Ltd.	Samsung Electronics Co.,	(Group) Company Limited
Orient Semiconductor	Ltd.	SVI Public Company
Electronics,Ltd.	Sanken Electric Co., Ltd.	Limited
Osaki Electric Co., Ltd.	Sanmina Corporation	Sykes Enterprises,
OSI Systems, Inc.	SAP SE	Incorporated
Otsuka Corporation	Sapiens International	Symantec Corporation
Oxford Instruments plc	Corporation N.V.	Synaptics Incorporated
Pacific Online Limited	ScanSource, Inc.	Synchronoss Technologies,
Pan-International Industrial	SCREEN Holdings Co., Ltd.	Inc.
Corp.	SCSK Corporation	SYNNEX Corporation
Parade Technologies, Ltd.	Seiko Epson Corporation	Synnex Technology
		International Corporation

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Synopsys, Inc.	Trimble Inc.	Yahoo Japan Corporation
Systema Corporation	Tripod Technology Corporation	YASKAWA Electric Corporation
System Corporation	Truly International Holdings Limited	Yokogawa Electric Corporation
Taiwan Pcb Techvest Co., Ltd.	TSC Auto ID Technology Co., Ltd.	Zebra Technologies Corporation
Taiwan Semiconductor Co., Ltd.	TTEC Holdings, Inc.	Zensar Technologies Limited
Taiwan Surface Mounting Technology Corp.	TXC Corporation	Zhen Ding Technology Holding Limited
Taiyo Yuden Co., Ltd.	Tyler Technologies, Inc.	Zinwell Corporation
Tata Consultancy Services Limited	u-blox Holding AG	ZTE Corporation
Tata Elxsi Limited	UKC Holdings Corporation	
TDK Corporation	Unimicron Technology Corporation	
TE Connectivity Ltd.	Unisem (M) Berhad	GICS 4510
Tech Data Corporation	United Microelectronics Corporation	8x8, Inc.
Tech Mahindra Limited	UNITED, Inc.	ACI Worldwide, Inc.
Technology One Limited	Universal Display Corporation	Activision Blizzard, Inc.
Technovator International Limited	V Technology Co., Ltd.	Acxiom Corporation
Telefonaktiebolaget LM Ericsson	V.S. Industry Berhad	ADDCN Technology Co., Ltd.
Telit Communications PLC	Vakrangee Limited	Adobe Systems Incorporated
Temenos Group AG	Vanguard International Semiconductor Corporation	AhnLab, Inc.
Tencent Holdings Limited	VASCO Data Security International, Inc.	Akamai Technologies, Inc.
Teradata Corporation	Venture Corporation Limited	Alphabet Inc.
Teradyne, Inc.	Verint Systems Inc.	Alten SA
TES Co., Ltd	Viavi Solutions Inc.	Altium Limited
Test Research, Inc.	Virtusa Corporation	Altran Technologies S.A.
Texas Instruments Incorporated	Vishay Intertechnology, Inc.	Amadeus IT Group, S.A.
The Descartes Systems Group Inc	Visual Photonics Epitaxy Co., Ltd.	Ansys, Inc.
The Hackett Group, Inc.	VMware, Inc.	Asseco Poland S.A.
The Sage Group plc	Vtech Holdings Limited	Atea ASA
The Ultimate Software Group, Inc.	Wacom Co., Ltd.	Ateam Inc.
The Western Union Company	Walsin Technology Corporation	Automatic Data Processing, Inc.
Tieto Oyj	Wasion Group Holdings Limited	AVEVA Group plc
TIS Inc.	Webzen Inc.	Axway Software SA
TiVo Corporation	Western Digital Corporation	Blackbaud, Inc.
TKC Corporation	WIN Semiconductors Corp.	Blucora, Inc.
TOKAI CARBON KOREA Co., Ltd.	Winbond Electronics Corporation	Broadridge Financial Solutions, Inc.
Tokyo Electron Limited	Wipro Limited	CA, Inc.
Tokyo Seimitsu Co., Ltd.	Wistron Corporation	CACI International Inc
Tong Hsing Electronic Industries, Ltd.	Wistron NeWeb Corporation	Cadence Design Systems, Inc.
Tongda Group Holdings Limited	Wonik IPS Co., Ltd.	Cancom SE
Toptec Co., Ltd.	WPG Holdings Limited	Capgemini SE
Total System Services, Inc.	WT Microelectronics Co., Ltd.	carsales.com Ltd
TOTVS S.A.	Xcerra Corporation	Cass Information Systems, Inc.
TOYO Corporation	Xerox Corporation	CD Projekt S.A.
TPK Holding Co., Ltd.	Xilinx, Inc.	CGI Group Inc.
Transcend Information, Inc.	Xintec Inc.	Check Point Software Technologies Ltd.
transcosmos inc.	XO Group Inc.	Chinasoft International Limited
TravelSky Technology Limited	Xperi Corporation	Cielo S.A.
Trend Micro Incorporated	Yageo Corporation	Citrix Systems, Inc.
Trigiant Group Limited		Cognizant Technology Solutions Corporation
		Com2uS Corporation
		Commvault Systems, Inc.

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Computer Modelling Group Ltd.	Intuit Inc.	NS Solutions Corporation
Constellation Software Inc.	iomart Group plc	NSD Co., Ltd.
Convergys Corporation	IRESS Limited	NTT Data Corporation
CoStar Group, Inc.	istyle Inc.	OBIC Business Consultants Co., Ltd.
CROOZ, Inc.	ITOCHU Techno-Solutions Corporation	OBIC Co., Ltd.
CSG Systems International, Inc.	j2 Global, Inc.	Open Text Corporation
Dassault Systèmes SE	Jack Henry & Associates, Inc.	Oracle Corporation
DeNA Co., Ltd.	JustSystems Corporation	Oracle Corporation Japan
Devoteam SA	Kakaku.com, Inc.	Otsuka Corporation
Digital China Holdings Limited	Kakao Corp.	Pacific Online Limited
DIP Corporation	Kanematsu Electronics Ltd.	Paychex, Inc.
Douzzone Bizon Co., Ltd.	KG Inicis Co., Ltd.	PChome Online Inc.
DTS Corporation	Kingdee International Software Group Company Limited	Pegasystems, Inc.
eBay Inc.	Kingsoft Corporation Limited	Perficient, Inc.
Ebix, Inc.	Koei Tecmo Holdings Co., Ltd.	Persistent Systems Limited
eClerx Services Limited	Korea Information & Communications Co., Ltd.	Posco ICT Company Ltd.
Electronic Arts Inc.	KPIT Technologies Limited	Progress Software Corporation
Enghouse Systems Limited	LogMeln, Inc.	PTC Inc.
EOH Holdings Limited	Manhattan Associates, Inc.	Qualys, Inc.
F@N Communications, Inc.	ManTech International Corporation	REA Group Limited
Facebook, Inc.	Marvelous Inc.	Red Hat, Inc.
Fair Isaac Corporation	Matrix IT Ltd.	Reply S.p.A.
Fidelity Nat'l Info Services	MAXIMUS, Inc.	RIB Software SE
Fiserv, Inc.	Mercadolibre, Inc.	SAP SE
Formula Systems (1985) Ltd.	Microsoft Corporation	Sapiens International Corporation N.V.
Fortinet, Inc.	MicroStrategy Incorporated	SCSK Corporation
Fuji Soft Incorporated	Mindtree Limited	Shanghai Baosight Software Co., Ltd.
Fujitsu Limited	Miroku Jyoho Service Co., Ltd.	Silverlake Axis Ltd
Fukui Computer Holdings, Inc.	mixi, Inc.	SimCorp A/S
Future Corporation	Moneysupermarket.com Group PLC	SINA Corporation
GAMEVIL Inc.	Monotype Imaging Holdings Inc.	SMS Co., Ltd.
GFT Technologies SE	Morpho, Inc.	Software
Global Payments Inc.	MphasiS Limited	Aktiengesellschaft
GMO Internet, Inc.	MTI Ltd.	Soft-World International Corporation
Gree, Inc.	My E.G. Services Berhad	Sopra Steria Group
GungHo Online Entertainment, Inc.	NCsoft Corporation	SPS Commerce, Inc.
Gurunavi, Inc.	NEC Networks & System Integration Corporation	Square Enix Holdings Co., Ltd.
Hancom Inc.	Nemetschek SE	Stamps.com Inc.
Hansen Technologies Ltd	Net One Systems Co., Ltd.	Starbreeze AB (publ)
Hearts United Group Co., Ltd.	NetEnt AB (publ)	SUNeVision Holdings Ltd.
Hexaware Technologies Limited	NEXON Co., Ltd.	Sykes Enterprises, Incorporated
IAC/InterActiveCorp	Nexon GT Co., Ltd.	Symantec Corporation
INES Corporation	NHN KCP Corp.	Synchronoss Technologies, Inc.
Info Edge (India) Limited	NIC Inc.	Synopsys, Inc.
Infocom Corporation	Nice Information & Telecommunication, Inc.	System Corporation
Infomart Corporation	NICE Ltd.	Tata Consultancy Services Limited
Information Services International-Dentsu, Ltd.	NIIT Technologies Limited	Tata Elxsi Limited
Infosys Limited	Nomura Research Institute, Ltd.	Tech Mahindra Limited
International Business Machines		Technology One Limited
International Games System Co., LTD		Temenos Group AG
Internet Initiative Japan Inc.		Tencent Holdings Limited
		Teradata Corporation

The Descartes Systems Group Inc
 The Hackett Group, Inc.
 The Sage Group plc
 The Ultimate Software Group, Inc.
 The Western Union Company
 Tieto Oyj
 TIS Inc.
 TiVo Corporation
 TKC Corporation
 Total System Services, Inc.
 TOTVS S.A.
 transcosmos inc.
 TravelSky Technology Limited
 Trend Micro Incorporated
 TTEC Holdings, Inc.
 Tyler Technologies, Inc.
 UNITED, Inc.
 Vakrangee Limited
 VASCO Data Security International, Inc.
 Verint Systems Inc.
 Virtusa Corporation
 VMware, Inc.
 Webzen Inc.
 Wipro Limited
 XO Group Inc.
 Yahoo Japan Corporation
 Zensar Technologies Limited

Mercadolibre, Inc.
 mixi, Inc.
 Moneysupermarket.com Group PLC
 NetEnt AB (publ)
 NIC Inc.
 Pacific Online Limited
 PChome Online Inc.
 REA Group Limited
 SINA Corporation
 SMS Co., Ltd.
 SPS Commerce, Inc.
 Stamps.com Inc.
 SUNeVision Holdings Ltd.
 Tencent Holdings Limited
 UNITED, Inc.
 XO Group Inc.
 Yahoo Japan Corporation

Infocom Corporation
 Information Services International-Dentsu, Ltd.
 Infosys Limited
 ITOCHU Techno-Solutions Corporation
 Jack Henry & Associates, Inc.
 Kanematsu Electronics Ltd.
 Korea Information & Communications Co., Ltd.
 ManTech International Corporation
 Matrix IT Ltd.
 MAXIMUS, Inc.
 Mphasis Limited
 My E.G. Services Berhad
 NEC Networks & System Integration Corporation
 Net One Systems Co., Ltd.
 NHN KCP Corp.
 Nice Information & Telecommunication, Inc.
 Nomura Research Institute, Ltd.
 NS Solutions Corporation
 NTT Data Corporation
 OBIC Co., Ltd.
 Otsuka Corporation
 Paychex, Inc.
 Perficient, Inc.
 Persistent Systems Limited
 Posco ICT Company Ltd.
 Reply S.p.A.
 SCSK Corporation
 Sopra Steria Group
 Sykes Enterprises, Incorporated
 Systex Corporation
 Tata Consultancy Services Limited
 Tech Mahindra Limited
 Teradata Corporation
 The Hackett Group, Inc.
 The Western Union Company
 Tieto Oyj
 TIS Inc.
 TKC Corporation
 Total System Services, Inc.
 transcosmos inc.
 TravelSky Technology Limited
 TTEC Holdings, Inc.
 Virtusa Corporation
 Wipro Limited

GICS 451020

Axiom Corporation
 Alten SA
 Altran Technologies S.A.
 Amadeus IT Group, S.A.
 Atea ASA
 Automatic Data Processing, Inc.
 Broadridge Financial Solutions, Inc.
 CACI International Inc
 Cancom SE
 Capgemini SE
 Cass Information Systems, Inc.
 CGI Group Inc.
 Chinasoft International Limited
 Cielo S.A.
 Cognizant Technology Solutions Corporation
 Convergys Corporation
 CSG Systems International, Inc.
 Devoteam SA
 Digital China Holdings Limited
 DTS Corporation
 eClerx Services Limited
 EOH Holdings Limited
 Fidelity Nat'l Info Services
 Fiserv, Inc.
 Formula Systems (1985) Ltd.
 Fujitsu Limited
 Future Corporation
 GFT Technologies SE
 Global Payments Inc.
 Hearts United Group Co., Ltd.
 Hexaware Technologies Limited
 INES Corporation

GICS 451010

ADDCN Technology Co., Ltd.
 AhnLab, Inc.
 Akamai Technologies, Inc.
 Alphabet Inc.
 Ateam Inc.
 Blucora, Inc.
 CoStar Group, Inc.
 CROOZ, Inc.
 DeNA Co., Ltd.
 DIP Corporation
 eBay Inc.
 F@N Communications, Inc.
 Facebook, Inc.
 GMO Internet, Inc.
 Gree, Inc.
 Gurunavi, Inc.
 IAC/InterActiveCorp
 Info Edge (India) Limited
 Infomart Corporation
 Internet Initiative Japan Inc.
 iomart Group plc
 istyle Inc.
 j2 Global, Inc.
 Kakaku.com, Inc.
 Kakao Corp.
 LogMeln, Inc.

GICS 451030

8x8, Inc.
 ACI Worldwide, Inc.
 Activision Blizzard, Inc.
 Adobe Systems

2017 Valuation Handbook – International Industry Cost of Capital (data through September 30, 2017); Company and GICS List

Daeduck GDS Co.,Ltd.	InterDigital, Inc.	O-Net Technologies (Group) Limited
Daiwabo Holdings Co., Ltd.	Inventec Corporation	OPTEX Group Co., Ltd.
Daktronics, Inc.	IPG Photonics Corporation	Orbotech Ltd.
Datalogic S.p.A.	Irigo Electronics Co., Ltd.	Osaki Electric Co., Ltd.
Denki Kogyo Co.,Ltd.	Isra Vision AG	OSI Systems, Inc.
Diebold Nixdorf Aktiengesellschaft	ITEQ Corporation	Oxford Instruments plc
Diebold Nixdorf, Incorporated	Jabil Inc.	Pan-International Industrial Corp.
Dolby Laboratories, Inc.	Japan Aviation Electronics Industry, Limited	Park Electrochemical Corp.
EIZO Corporation	Japan Cash Machine Co., Ltd.	Partron Co., Ltd.
Elecom Co., Ltd.	JCY International Berhad	PAX Global Technology Limited
Electrocomponents plc	Ju Teng International Holdings Limited	PC Connection, Inc.
Electronics for Imaging, Inc.	Juniper Networks, Inc.	Pegatron Corporation
Elematec Corporation	Kapsch TrafficCom AG	Plantronics, Inc.
Elite Material Co., Ltd.	KCE Electronics Public Company Limited	Plexus Corp.
Elitegroup Computer Systems Co., Ltd.	Keyence Corporation	Posiflex Technology, Inc.
ePlus inc.	Kingboard Laminates Holdings Limited	Qisda Corporation
Esprinet S.p.A.	Kingpak Technology Inc.	Quanta Computer Inc.
Evertz Technologies Limited	KOA Corporation	Redington (India) Limited
EVS Broadcast Equipment S.A.	Konica Minolta, Inc.	Renishaw plc
F5 Networks, Inc.	Kudelski SA	Ricoh Company, Ltd.
Fabrinet	Laird PLC	Riso Kagaku Corporation
FARO Technologies, Inc.	Largan Precision Co., Ltd.	Roland DG Corporation
Finisar Corporation	Lenovo Group Limited	Ryosan Company, Limited
Firich Enterprises Co., Ltd.	LG Display Co., Ltd.	Ryoyo Electro Corporation
Flex Ltd.	LG Innotek Co., Ltd.	Sanmina Corporation
Flexium Interconnect, Inc.	Lite-On Technology Corporation	ScanSource, Inc.
FLIR Systems, Inc.	Littelfuse, Inc.	Seiko Epson Corporation
Flytech Technology Co., Ltd.	Logitech International S.A.	Sercomm Corporation
Foxconn Technology Co., Ltd.	LOTES Co., Ltd.	SIIX Corporation
Getac Technology Corporation	Macnica Fuji Electronics Holdings, Inc.	Simplo Technology Co., Ltd.
Gigabyte Technology Co.,Ltd	MCIJ Co., Ltd.	sindoh Co.,Ltd.
Halma plc	Melco Holdings Inc.	Spectris plc
Hana Microelectronics Public Company Limited	Merry Electronics Co., Ltd.	Sterlite Technologies Limited
Hexagon AB	Methode Electronics, Inc.	Sunny Optical Technology (Group) Company Limited
Hirose Electric Co.,Ltd.	Micro-Star International Co., Ltd.	SVI Public Company Limited
Hitachi High-Technologies Corporation	Mitel Networks Corporation	SYNNEX Corporation
Hitachi Kokusai Electric Inc.	MTS Systems Corporation	Synnex Technology International Corporation
Holy Stone Enterprise Company Limited	Murata Manufacturing Co., Ltd.	Taiwan Pcb Techvest Co., Ltd.
homecast Co., Ltd.	Mycronic AB (publ)	Taiyo Yuden Co., Ltd.
Hon Hai Precision Industry Co.	National Instruments Corporation	TE Connectivity Ltd.
HTC Corporation	NEC Corporation	Tech Data Corporation
Humax Co., Ltd.	Neopost S.A.	Telit Communications PLC
Icom Incorporated	NetApp, Inc.	Test Research, Inc.
IEI Integration Corp.	NETGEAR, Inc.	Tong Hsing Electronic Industries, Ltd.
II-VI Incorporated	NetScout Systems, Inc.	Tongda Group Holdings Limited
Inari Amertron Berhad	Nichicon Corporation	TOYO Corporation
INFICON Holding AG	Nippon Ceramic Co., Ltd.	TPK Holding Co., Ltd.
Ingenico Group - GCS	Nippon Electric Glass Co., Ltd.	Transcend Information, Inc.
Insight Enterprises, Inc.	Nohmi Bosai Ltd.	Trigiant Group Limited
	Oki Electric Industry Co., Ltd.	Trimble Inc.
		Tripod Technology Corporation

Truly International Holdings Limited
 TSC Auto ID Technology Co., Ltd.
 TXC Corporation
 UKC Holdings Corporation
 Unimicron Technology Corporation
 Universal Display Corporation
 V Technology Co., Ltd.
 V.S. Industry Berhad
 Venture Corporation Limited
 Viavi Solutions Inc.
 Vishay Intertechnology, Inc.
 Vtech Holdings Limited
 Wacom Co., Ltd.
 Walsin Technology Corporation
 Wasion Group Holdings Limited
 Western Digital Corporation
 Wistron Corporation
 Wistron NeWeb Corporation
 WPG Holdings Limited
 WT Microelectronics Co., Ltd.
 Yageo Corporation
 YASKAWA Electric Corporation
 Yokogawa Electric Corporation
 Zebra Technologies Corporation
 Zhen Ding Technology Holding Limited
 Zinwell Corporation
 ZTE Corporation

Comtech
 Telecommunications Corp.
 Denki Kogyo Co.,Ltd.
 EVS Broadcast Equipment S.A.
 F5 Networks, Inc.
 Finisar Corporation
 Hitachi Kokusai Electric Inc.
 homecast Co., Ltd.
 Humax Co., Ltd.
 Icom Incorporated
 InterDigital, Inc.
 Juniper Networks, Inc.
 Mitel Networks Corporation
 NETGEAR, Inc.
 NetScout Systems, Inc.
 O-Net Technologies (Group) Limited
 Plantronics, Inc.
 Sercomm Corporation
 Sterlite Technologies Limited
 Telit Communications PLC
 Trigiant Group Limited
 Vtech Holdings Limited
 Wistron NeWeb Corporation
 Zinwell Corporation

Logitech International S.A.
 MCJ Co., Ltd.
 Melco Holdings Inc.
 Micro-Star International Co., Ltd.
 Neopost S.A.
 NetApp, Inc.
 Pegatron Corporation
 Quanta Computer Inc.
 Ricoh Company, Ltd.
 Riso Kagaku Corporation
 Roland DG Corporation
 sindoh Co.,Ltd.
 Transcend Information, Inc.
 TSC Auto ID Technology Co., Ltd.
 Wacom Co., Ltd.
 Western Digital Corporation
 Wistron Corporation

GICS 452010

Accton Technology Corporation
 ADTRAN, Inc.
 ADVA Optical Networking SE
 Advanced Ceramic X Corporation
 Alpha Networks Inc.
 Arcadyan Technology Corporation
 Brocade Communications Systems
 BYD Electronic (International) Co
 CalAmp Corp.
 China All Access (Holdings) Limited
 Cisco Systems, Inc.
 Comba Telecom Systems Holdings Limited

GICS 452020

ADLINK Technology, Inc.
 Advantech Co., Ltd.
 Apple Inc.
 Asia Vital Components Co., Ltd.
 Aten International CO., Ltd.
 Catcher Technology Co., Ltd.
 Chicony Electronics Co., Ltd.
 Clevo Co.
 Compal Electronics, Inc.
 Cray Inc.
 Diebold Nixdorf Aktiengesellschaft
 Diebold Nixdorf, Incorporated
 EIZO Corporation
 Elecom Co., Ltd.
 Electronics for Imaging, Inc.
 Elitegroup Computer Systems Co., Ltd.
 Getac Technology Corporation
 Gigabyte Technology Co.,Ltd
 HTC Corporation
 IEI Integration Corp.
 Inventec Corporation
 JCY International Berhad
 Konica Minolta, Inc.
 Lenovo Group Limited

GICS 452030

Amphenol Corporation
 Anritsu Corporation
 Arrow Electronics, Inc.
 AT & S Aktiengesellschaft
 Avigilon Corporation
 Avnet, Inc.
 AVX Corporation
 Azbil Corporation
 Badger Meter, Inc.
 Barco NV
 Benchmark Electronics, Inc.
 Cal-Comp Electronics (Thailand) Public Company Limited
 Canon Electronics Inc.
 Celestica Inc.
 Chaun-Choung Technology Corp.
 Cheng Uei Precision Industry Co., Ltd.
 Chimei Materials Technology Corp.
 Chin Poon Industrial Co., Ltd.
 Chroma ATE Inc.
 Cognex Corporation
 Coherent, Inc.
 Comet Holding AG
 Compeq Manufacturing Co., Ltd.
 Conexio Corporation
 Coretronic Corp.
 CTS Corporation
 Daeduck Electronics Co., Ltd.
 Daeduck GDS Co.,Ltd.
 Daiwabo Holdings Co., Ltd.
 Daktronics, Inc.
 Datalogic S.p.A.
 Dolby Laboratories, Inc.
 Electrocomponents plc

Elematec Corporation	Murata Manufacturing Co., Ltd.	V Technology Co., Ltd.
Elite Material Co., Ltd.	Mycronic AB (publ)	V.S. Industry Berhad
ePlus inc.	National Instruments Corporation	Venture Corporation Limited
Esprinet S.p.A.	Nichicon Corporation	Vishay Intertechnology, Inc.
Evertz Technologies Limited	Nippon Ceramic Co., Ltd.	Walsin Technology Corporation
Fabrinet	Nippon Electric Glass Co., Ltd.	WPG Holdings Limited
FARO Technologies, Inc.	Nohmi Bosai Ltd.	WT Microelectronics Co., Ltd.
Firich Enterprises Co., Ltd.	OPTEX Group Co., Ltd.	Yageo Corporation
Flex Ltd.	Orbotech Ltd.	YASKAWA Electric Corporation
Flexium Interconnect, Inc.	Osaki Electric Co., Ltd.	Yokogawa Electric Corporation
FLIR Systems, Inc.	OSI Systems, Inc.	Zebra Technologies Corporation
Flytech Technology Co., Ltd.	Oxford Instruments plc	Zhen Ding Technology Holding Limited
Halma plc	Pan-International Industrial Corp.	
Hana Microelectronics Public Company Limited	Park Electrochemical Corp.	
Hexagon AB	Partron Co., Ltd.	
Hirose Electric Co.,Ltd.	PAX Global Technology Limited	GICS 4530
Hitachi High-Technologies Corporation	PC Connection, Inc.	ADATA Technology Co., Ltd.
Holy Stone Enterprise Company Limited	Plexus Corp.	Advanced Energy Industries, Inc.
Hon Hai Precision Industry Co.	Posiflex Technology, Inc.	Advanced Wireless Semiconductor Co
II-VI Incorporated	Redington (India) Limited	Amkor Technology, Inc.
Inari Amertron Berhad	Renishaw plc	ams AG
INFICON Holding AG	Ryosan Company, Limited	Analog Devices, Inc.
Ingenico Group - GCS	Ryoyo Electro Corporation	Applied Materials, Inc.
Insight Enterprises, Inc.	Sanmina Corporation	Ardentec Corporation
IPG Photonics Corporation	ScanSource, Inc.	ASM International NV
Iriso Electronics Co., Ltd.	SIIIX Corporation	ASM Pacific Technology Limited
Isra Vision AG	Simplo Technology Co., Ltd.	ASML Holding N.V.
ITEQ Corporation	Spectris plc	BE Semiconductor Industries N.V.
Jabil Inc.	Sunny Optical Technology (Group) Company Limited	Broadcom Limited
Japan Aviation Electronics Industry, Limited	SVI Public Company Limited	Brooks Automation, Inc.
Japan Cash Machine Co., Ltd.	SYNNEX Corporation	Cabot Microelectronics Corporation
Ju Teng International Holdings Limited	Synnex Technology International Corporation	CEVA, Inc.
Kapsch TrafficCom AG	Taiwan Pcb Techvest Co., Ltd.	Chipbond Technology Corporation
KCE Electronics Public Company Limited	Taiyo Yuden Co., Ltd.	Cirrus Logic, Inc.
Keyence Corporation	Tech Data Corporation	Cree, Inc.
Kingboard Laminates Holdings Limited	Test Research, Inc.	Dialog Semiconductor Plc
Kingpak Technology Inc.	Tong Hsing Electronic Industries, Ltd.	Diodes Incorporated
KOA Corporation	Tongda Group Holdings Limited	Disco Corporation
Kudelski SA	TOYO Corporation	ELAN Microelectronics Corporation
Laird PLC	TPK Holding Co., Ltd.	Elite Semiconductor Memory Technology Inc.
Largan Precision Co., Ltd.	Trimble Inc.	EO Technics Co., Ltd.
LG Display Co., Ltd.	Tripod Technology Corporation	Eugene Technology Co., Ltd.
LG Innotek Co., Ltd.	Truly International Holdings Limited	Everlight Electronics Co., Ltd.
Littelfuse, Inc.	TXC Corporation	Faraday Technology Corporation
LOTES Co., Ltd.	UKC Holdings Corporation	FocalTech Systems Co., Ltd.
Macnica Fuji Electronics Holdings, Inc.	Unimicron Technology Corporation	
Merry Electronics Co., Ltd.	Universal Display Corporation	
Methode Electronics, Inc.		
MTS Systems Corporation		

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Formosa Advanced Technologies Co., Ltd.
 GCL-Poly Energy Holdings Limited
 Giga Solar Materials Corp.
 Global UniChip Corp.
 Globetronics Technology Bhd
 Greatek Electronics Inc.
 G-Smatt Global Co., Ltd.
 HANMI Semiconductor Co., Ltd.
 Holtek Semiconductor Inc.
 Infineon Technologies AG
 Integrated Device Technology, Inc.
 Intel Corporation
 IXYS Corporation
 JAPAN MATERIAL Co., Ltd.
 King Yuan ELECTRONICS CO., LTD.
 Kinsus Interconnect Technology Corp.
 KLA-Tencor Corporation
 Koh Young Technology Inc.
 Kulicke and Soffa Industries, Inc.
 Lam Research Corporation
 Lasertec Corporation
 LEENO Industrial Inc.
 Lextar Electronics Corporation
 Lite-On Semiconductor Corp.
 Malaysian Pacific Industries Berhad
 Marvell Technology Group Ltd.
 Maxim Integrated Products, Inc.
 MediaTek Inc.
 MegaChips Corporation
 Melexis NV
 Microchip Technology Incorporated
 Micron Technology, Inc.
 Micronics Japan Co.,Ltd.
 Microsemi Corporation
 Mimasu Semiconductor Industry Co., Ltd.
 Mitsui High-tec, Inc.
 MKS Instruments, Inc.
 Monolithic Power Systems, Inc.
 Nanometrics Incorporated
 Nordic Semiconductor ASA
 Novatek Microelectronics Corp.
 NuFlare Technology, Inc.
 NVIDIA Corporation
 ON Semiconductor Corporation

On-Bright Electronics Incorporated
 Parade Technologies, Ltd.
 PDF Solutions, Inc.
 Phison Electronics Corporation
 Photonics, Inc.
 PixArt Imaging Inc.
 Power Integrations, Inc.
 Powertech Technology Inc.
 Qorvo, Inc.
 Radiant Opto-Electronics Corporation
 Rambus Inc.
 Realtek Semiconductor Corp.
 ROHM Co., Ltd.
 Rudolph Technologies, Inc.
 Sanken Electric Co., Ltd.
 Semiconductor Manufacturing International Corporation
 Semtech Corporation
 Seoul Semiconductor Co., Ltd.
 Shanghai Fudan Microelectronics Group Company Limited
 Shindengen Electric Manufacturing Co.,Ltd.
 Shinko Electric Industries Co., Ltd.
 Sigurd Microelectronics Corporation
 Silicon Laboratories Inc.
 Silicon Works Co., Ltd.
 Siliconware Precision Industries Co., Ltd.
 Sitronix Technology Corporation
 SK Hynix Inc.
 Skyworks Solutions, Inc.
 SMA Solar Technology AG
 Synaptics Incorporated
 Taiwan Semiconductor Co., Ltd.
 Taiwan Surface Mounting Technology Corp.
 Teradyne, Inc.
 TES Co., Ltd
 Texas Instruments Incorporated
 TOKAI CARBON KOREA Co., Ltd.
 Tokyo Electron Limited
 Toptec Co., Ltd.
 u-blox Holding AG
 Unisem (M) Berhad
 United Microelectronics Corporation
 Vanguard International Semiconductor Corporation

Visual Photonics Epitaxy Co., Ltd.
 WIN Semiconductors Corp.
 Winbond Electronics Corporation
 Wonik IPS Co., Ltd.
 Xcerra Corporation
 Xilinx, Inc.
 Xintec Inc.
 Xperi Corporation

GICS 50

Advanced Info Service
 Public Company Limited
 América Móvil, S.A.B. de C.V.
 APT Satellite Holdings Limited
 ATN International, Inc.
 Axiata Group Berhad
 BCE Inc.
 Bezeq The Israel Telecommunication Corporation Limited
 Bharti Airtel Limited
 BT Group plc
 Cellcom Israel Ltd.
 CenturyLink, Inc.
 China Communications Services Corporation Limited
 China Mobile Limited
 China Telecom Corporation Limited
 China Unicom (Hong Kong) Limited
 Chunghwa Telecom Co., Ltd.
 CITIC Telecom International Holdings Limited
 Consolidated Communications Holdings, Inc.
 Deutsche Telekom AG
 DiGi.Com Berhad
 Drillisch AG
 EI Towers S.p.A
 Elisa Oyj
 Emirates Telecommunications Group Company PJSC
 Empresa Nacional de Telecomunicaciones S.A.
 Far EasTone Telecommunications Co., Ltd.
 freenet AG
 Globe Telecom, Inc.
 Hellenic Telecommunications Organization S.A.
 HKT Trust and HKT Limited

Hutchison Telecommunications Hong Kong Holdings Limited Idea Cellular Limited IDT Corporation Iliad SA Inmarsat Plc Iridium Communications Inc. Jasmine International Public Company Limited KCOM Group PLC KDDI Corporation Koninklijke KPN N.V. Lumos Networks Corp. M1 Limited Magyar Telekom Telecommunications Public Limited Company Maxis Berhad Millicom International Cellular MTN Group Limited Netia S.A. Nippon Telegraph and Telephone NTT DOCOMO, INC. O2 Czech Republic a.s. Ooredoo Q.P.S.C. Orange Belgium S.A. Orange Polska S.A. Orange S.A. Partner Communications Company Ltd. PCCW Limited PLDT Inc. Proximus PLC PT Telekomunikasi Indonesia Tbk PT Tower Bersama Infrastructure Tbk PT XL Axiata Tbk Public Joint Stock Company Long-Distance and International Telecommunications Rostelecom Public Joint-Stock Company Mobile TeleSystems Rogers Communications Inc. Shenandoah Telecommunications Company Singapore Telecommunications Limited SK Telecom Co., Ltd. SmarTone Telecommunications Holdings Limited Spok Holdings, Inc.	StarHub Ltd. Swisscom AG TalkTalk Telecom Group PLC TDC A/S Tele2 AB (publ) Telefônica Brasil S.A. Telefônica, S.A. Telekom Malaysia Berhad Telenor ASA Telephone and Data Systems, Inc. Telia Company AB Telstra Corporation Limited TELUS Corporation Thaicom Public Company Limited TIM Participações S.A. TIME dotCom Berhad TPG Telecom Limited Türk Telekomünikasyon A.S. Turkcell İletisim Hizmetleri A.S. United States Cellular Corporation Verizon Communications Inc. Vodacom Group Limited Vodafone Group Plc Vonage Holdings Corp.	Iliad SA Inmarsat Plc Iridium Communications Inc. Jasmine International Public Company Limited KCOM Group PLC Magyar Telekom Telecommunications Public Limited Company Netia S.A. O2 Czech Republic a.s. Ooredoo Q.P.S.C. Orange Polska S.A. PCCW Limited Proximus PLC PT Tower Bersama Infrastructure Tbk Public Joint Stock Company Long-Distance and International Telecommunications Rostelecom Swisscom AG TalkTalk Telecom Group PLC TDC A/S Telefônica Brasil S.A. Telefônica, S.A. Telekom Malaysia Berhad Telenor ASA Telia Company AB TELUS Corporation Thaicom Public Company Limited TIME dotCom Berhad TPG Telecom Limited Türk Telekomünikasyon A.S.
	GICS 501010	
	APT Satellite Holdings Limited BCE Inc. Bezeq The Israel Telecommunication Corporation Limited BT Group plc CenturyLink, Inc. China Communications Services Corporation Limited China Telecom Corporation Limited China Unicom (Hong Kong) Limited CITIC Telecom International Holdings Limited Consolidated Communications Holdings, Inc. El Towers S.p.A Elisa Oyj Emirates Telecommunications Group Company PJSC HKT Trust and HKT Limited Hutchison Telecommunications Hong Kong Holdings Limited IDT Corporation	
		GICS 501020
		Advanced Info Service Public Company Limited América Móvil, S.A.B. de C.V. Axiata Group Berhad Bharti Airtel Limited China Mobile Limited DiGi.Com Berhad Drillisch AG Empresa Nacional de Telecomunicaciones S.A. freenet AG Globe Telecom, Inc. Idea Cellular Limited KDDI Corporation M1 Limited Maxis Berhad Millicom International Cellular MTN Group Limited NTT DOCOMO, INC. Orange Belgium S.A.

Partner Communications Company Ltd.
PT XL Axiata Tbk
Public Joint-Stock Company Mobile
TeleSystems
Rogers Communications Inc.
SK Telecom Co., Ltd.
SmarTone
Telecommunications Holdings Limited
Spok Holdings, Inc.
StarHub Ltd.
Tele2 AB (publ)
Telephone and Data Systems, Inc.
TIM Participações S.A.
Turkcell Iletisim Hizmetleri A.S.
United States Cellular Corporation
Vodacom Group Limited
Vodafone Group Plc

Capital Stage AG
CenterPoint Energy, Inc.
Centrica plc
CESC Limited
CESP - Companhia Energética de São Paulo
CEZ, a. s.
Chesapeake Utilities Corporation
China Everbright Water Limited
China Gas Holdings Limited
China Oil And Gas Group Limited
China Power International Development Limited
China Resources Gas Group Limited
China Resources Power Holdings Company Limited
China Water Affairs Group Limited
Chubu Electric Power Company, Incorporated
CK Infrastructure Holdings Limited
CMS Energy Corporation
Colbún S.A.
Companhia de Saneamento de Minas Gerais
Companhia de Saneamento do Paraná - SANEPAR
Companhia Energética do Ceará
Companhia Paranaense de Energia - COPEL
Connecticut Water Service, Inc.
Consolidated Edison, Inc.
Contact Energy Limited
CPFL Energia S.A.
Dominion Energy, Inc.
Drax Group plc
DTE Energy Company
Duke Energy Corporation
Edison International
EDP - Energias de Portugal, S.A.
EDP - Energias do Brasil S.A.
El Paso Electric Company
Electric Power Development Co., Ltd.
Electricité de France S.A.
Eliá System Operator SA
Emera Incorporated
Endesa, S.A.
Enel Américas S.A.
Enel Generación Chile S.A.
Enel SpA

Engie Brasil Energia S.A.
Engie Energia Chile S.A.
ENN Energy Holdings Limited
Energy Corporation
Equatorial Energia S.A.
ERG S.p.A.
Eversource Energy
EVN AG
Exelon Corporation
First Gen Corporation
Fortis Inc.
Fortum Oyj
GAIL (India) Limited
Gas Malaysia Berhad
Gas Natural SDG, S.A.
Glow Energy Public Company Limited
Great Plains Energy Incorporated
Guangdong Investment Limited
Gujarat State Petronet Limited
Hawaiian Electric Industries, Inc.
Hera S.p.A.
Huaneng Power International, Inc.
Iberdrola, S.A.
IdaCorp, Inc.
Infratil Limited
Interconexión Eléctrica S.A. E.S.P.
Inversiones Aguas Metropolitanas S.A.
Iren SpA
Korea District Heating Corp.
Korea Electric Power Corporation
Light S.A.
Manila Water Company, Inc.
MGE Energy, Inc.
Middlesex Water Company
National Grid plc
New Jersey Resources Corporation
NextEra Energy, Inc.
Nippon Gas Co., Ltd.
NiSource Inc.
Northland Power Inc.
Northwest Natural Gas Company
Northwestern Corporation
NTPC Limited
OGE Energy Corp.
Pennon Group Plc
PG&E Corporation
PGE Polska Grupa Energetyczna S.A.

GICS 55

A2A S.p.A.
Aboitiz Power Corporation
ACEA S.p.A.
AES Gener S.A.
AGL Energy Limited
Aguas Andinas S.A.
Albioma
Algonquin Power & Utilities Corp.
ALLETE, Inc.
Alliant Energy Corporation
Ameren Corporation
American Electric Power Company, Inc.
American States Water Company
American Water Works Company, Inc.
APA Group
Aqua America, Inc.
Ascopiave S.p.A.
ATCO Ltd.
Athens Water Supply and Sewerage
Atmos Energy Corporation
AusNet Services Ltd
Avista Corporation
Aygaz Anonim Sirketi
Beijing Enterprises Water Group
BKW AG
Black Hills Corporation
California Water Service Group
Canadian Utilities Limited
Capital Power Corporation

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Pinnacle West Capital Corporation
 PNM Resources, Inc.
 Portland General Electric Company
 Power Assets Holdings Limited
 PPL Corporation
 PT Perusahaan Gas Negara (Persero) Tbk
 PTC India Limited
 Public Joint Stock Company Inter RAO UES
 Public Joint Stock Company Mosenergo
 Public Joint-Stock Company Federal Hydro-Generating Company - RusHydro
 Public Service Enterprise Group
 Qatar Electricity and Water Co
 Red Eléctrica Corporación, S.A.
 Reliance Infrastructure Limited
 REN - Redes Energéticas Nacionais, SGPS, S.A.
 Rubis
 Samchully Co.,Ltd
 Semptra Energy
 Severn Trent Plc
 Shizuoka Gas Co., Ltd.
 SJW Group
 South Jersey Industries, Inc.
 Spire Inc.
 SSE plc
 SUEZ SA
 TAURON Polska Energia S.A.
 Telecom Plus plc
 Tenaga Nasional Berhad
 TERNA - Rete Elettrica Nazionale Società per Azioni
 Terna Energy Societe Anonyme
 The AES Corporation
 The Hong Kong & China Gas Comp Ltd
 The Okinawa Electric Power Company, Incorporated
 The Southern Company
 The York Water Company
 TOHO GAS Co., Ltd.
 Torrent Power Limited
 Towngas China Company Limited
 TTW Public Company Limited
 UGI Corporation

United Utilities Group PLC
 Unitil Corporation
 VA Tech Wabag Limited
 Veolia Environnement S.A.
 WEC Energy Group, Inc.
 Westar Energy, Inc.
 WGL Holdings, Inc.
 Xcel Energy Inc.
 YTL Power International Berhad

GICS 551010

Alliant Energy Corporation
 American Electric Power Company, Inc.
 AusNet Services Ltd
 CESC Limited
 CK Infrastructure Holdings Limited
 Companhia Energética do Ceará
 CPFL Energia S.A.
 Duke Energy Corporation
 Edison International
 EDP - Energias do Brasil S.A.
 El Paso Electric Company
 Electricité de France S.A.
 Elia System Operator SA
 Emera Incorporated
 Endesa, S.A.
 Enel Américas S.A.
 Enel SpA
 Engie Energia Chile S.A.
 Energy Corporation
 Equatorial Energia S.A.
 Eversource Energy
 EVN AG
 Fortis Inc.
 Fortum Oyj
 Great Plains Energy Incorporated
 Hawaiian Electric Industries, Inc.
 IdaCorp, Inc.
 Interconexión Eléctrica S.A.
 E.S.P.
 Korea District Heating Corp.
 Korea Electric Power Corporation
 Light S.A.
 NextEra Energy, Inc.
 OGE Energy Corp.
 PG&E Corporation
 PGE Polska Grupa Energetyczna S.A.
 Pinnacle West Capital Corporation
 PNM Resources, Inc.
 Portland General Electric Company

Power Assets Holdings Limited
 PPL Corporation
 Public Joint Stock Company Inter RAO UES
 Public Joint Stock Company Mosenergo
 Public Joint-Stock Company Federal Hydro-Generating Company - RusHydro
 Red Eléctrica Corporación, S.A.
 Reliance Infrastructure Limited
 TAURON Polska Energia S.A.
 Tenaga Nasional Berhad
 TERNA - Rete Elettrica Nazionale Società per Azioni
 The Okinawa Electric Power Company, Incorporated
 The Southern Company
 Torrent Power Limited
 Westar Energy, Inc.
 Xcel Energy Inc.

GICS 551020

APA Group
 Ascopiave S.p.A.
 Atmos Energy Corporation
 Aygaz Anonim Sirketi
 Chesapeake Utilities Corporation
 China Gas Holdings Limited
 China Oil And Gas Group Limited
 China Resources Gas Group Limited
 ENN Energy Holdings Limited
 GAIL (India) Limited
 Gas Malaysia Berhad
 Gujarat State Petronet Limited
 New Jersey Resources Corporation
 Nippon Gas Co., Ltd.
 Northwest Natural Gas Company
 PT Perusahaan Gas Negara (Persero) Tbk
 Rubis
 Samchully Co.,Ltd
 Shizuoka Gas Co., Ltd.
 Spire Inc.
 The Hong Kong & China Gas Comp Ltd
 TOHO GAS Co., Ltd.

Towngas China Company Limited
 UGI Corporation
 WGL Holdings, Inc.

GICS 551030

AGL Energy Limited
 ATCO Ltd.
 Avista Corporation
 Canadian Utilities Limited
 Centrica plc
 Northwestern Corporation
 Public Service Enterprise Group
 Qatar Electricity and Water Co
 SUEZ SA
 Telecom Plus plc
 Veolia Environnement S.A.
 WEC Energy Group, Inc.

GICS 551040

Aguas Andinas S.A.
 American States Water Company
 American Water Works Company, Inc.
 Aqua America, Inc.
 Athens Water Supply and Sewerage
 Beijing Enterprises Water Group
 California Water Service Group
 China Everbright Water Limited
 China Water Affairs Group Limited
 Companhia de Saneamento de Minas Gerais
 Companhia de Saneamento do Paraná - SANEPAR
 Connecticut Water Service, Inc.
 Guangdong Investment Limited
 Inversiones Aguas Metropolitanas S.A.
 Manila Water Company, Inc.
 Middlesex Water Company
 Pennon Group Plc
 Severn Trent Plc
 SJW Group
 The York Water Company
 TTW Public Company Limited
 United Utilities Group PLC
 VA Tech Wabag Limited

GICS 551050

Aboitiz Power Corporation
 AES Gener S.A.
 Albioma
 Algonquin Power & Utilities Corp.
 Capital Power Corporation
 Capital Stage AG
 CESP - Companhia Energética de São Paulo
 China Resources Power Holdings Company Limited
 Colbún S.A.
 Drax Group plc
 Electric Power Development Co., Ltd.
 Enel Generación Chile S.A.
 Engie Brasil Energia S.A.
 ERG S.p.A.
 First Gen Corporation
 Glow Energy Public Company Limited
 Huaneng Power International, Inc.
 Northland Power Inc.
 NTPC Limited
 PTC India Limited
 Terna Energy Societe Anonyme
 The AES Corporation

GICS 601010

Acadia Realty Trust
 Advance Residence Investment Corporation
 Aedifica SA
 Agree Realty Corporation
 Alexander's, Inc.
 Alexandria Real Estate Equities, Inc.
 Allied Properties Real Estate Investment Trust
 alstria office REIT-AG
 American Assets Trust, Inc.
 American Campus Communities, Inc.
 ANF Immobilier
 Apartment Investment and Management Company
 Argosy Property Limited
 Arrowhead Properties Limited
 Artis Real Estate Investment Trust
 Ascendas Real Estate Investment Trust
 Assura Plc
 AvalonBay Communities, Inc.
 Axis Real Estate Investment Trust
 Big Yellow Group Plc

Boardwalk Real Estate Investment Trust
 Boston Properties, Inc.
 British Land Company Plc
 BWP Trust
 Cache Logistics Trust
 Camden Property Trust
 Canadian Apartment Properties Real Estate Investment Trust
 Canadian Real Estate Investment Trust
 CapitaLand Commercial Trust
 CapitaLand Malaysia Mall Trust
 CapitaLand Mall Trust
 CapitaLand Retail China Trust
 CBL & Associates Properties, Inc
 Charter Hall Retail Real Estate Investment Trust
 Chatham Lodging Trust
 Chesapeake Lodging Trust
 Cofinimmo SA
 Cominar Real Estate Investment Trust
 CoreCivic, Inc.
 CoreSite Realty Corporation
 Corporate Office Properties Trust
 Cousins Properties Incorporated
 Crown Castle International Corp. (REIT)
 CubeSmart
 Daiwa House REIT Investment Corporation
 Daiwa Office Investment Corporation
 DCT Industrial Trust Inc.
 Derwent London Plc
 Dexus
 DiamondRock Hospitality Company
 Digital Realty Trust, Inc.
 Douglas Emmett, Inc.
 Duke Realty Corporation
 EastGroup Properties, Inc.
 Education Realty Trust, Inc.
 Emira Property Fund Limited
 EPR Properties
 Equinix, Inc. (REIT)
 Equity Residential
 ESR-REIT
 Essex Property Trust, Inc.
 Eurocommercial Properties N.V.
 Extra Space Storage Inc.

2017 Valuation Handbook – International Industry Cost of Capital (data through September 30, 2017); Company and GICS List

Federal Realty Investment Trust	Is Gayrimenkul Yatirim Ortakligi A.S.	ORIX JREIT Inc.
Fibra UNO	Japan Excellent, Inc.	PotlatchDeltic Corporation
First Industrial Realty Trust, Inc.	Japan Hotel REIT Investment Corporation	Precinct Properties New Zealand Limited
First Real Estate Investment Trust	Japan Logistics Fund, Inc.	Primary Health Properties Plc
Folkestone Education Trust	Japan Prime Realty Investment Corporation	Prologis, Inc.
Foncière des Régions	Japan Real Estate Investment Corporation	Prosperity Real Estate Investment Trust
Forest City Realty Trust, Inc.	Japan Rental Housing Investments Inc.	PS Business Parks, Inc.
Franklin Street Properties Corp.	Japan Retail Fund Investment Corporation	Public Storage
Frasers Commercial Trust	Kenedix Office Investment Corporation	Rebosis Property Fund Limited
Frontier Real Estate Investment Corporation	Kilroy Realty Corporation	Redefine Properties Limited
Fukuoka REIT Corporation	Kimco Realty Corporation	Regency Centers Corporation
Gecina	Kiwi Property Group Limited	Reit 1 Ltd
GEO Group, Inc.	Lamar Advertising Company (REIT)	Retail Opportunity Investments Corp.
Getty Realty Corp.	Land Securities Group plc	RioCan Real Estate Investment Trust
GGP Inc.	LaSalle Hotel Properties	Ryman Hospitality Properties, Inc.
Global One Real Estate Investment Corporation	Lexington Realty Trust	SA Corporate Real Estate Limited
Goodman Group	Liberty Property Trust	Sabra Health Care REIT, Inc.
Goodman Property Trust	Life Storage, Inc.	Safestore Holdings plc
Government Properties Income Trust	Link Real Estate Investment Trust	Saul Centers, Inc.
GPT Group	Lippo Malls Indonesia Retail Trust	Scentre Group
Granite Real Estate Investment Trust	LondonMetric Property Plc	Schroder Real Estate Investment
Growthpoint Properties Australia	LTC Properties, Inc.	SEGRO plc
Growthpoint Properties Limited	Macerich Company	Sekisui House Residential Investment Corporation
H&R Real Estate Investment Trust	Mack-Cali Realty Corporation	Shaftesbury PLC
Hamborner REIT AG	Mapletree Commercial Trust	Simon Property Group, Inc.
Hankyu REIT Inc.	Mapletree Industrial Trust	SL Green Realty Corp.
Hansteen Holdings PLC	Mapletree Logistics Trust	Stockland
Healthcare Realty Trust Incorporated	MCUBS MidCity Investment Corporation	Sunlight Real Estate Investment Trust
Heiwa Real Estate REIT, Inc.	Medical Properties Trust, Inc.	Sunstone Hotel Investors, Inc.
Highwoods Properties, Inc.	Mercialys	Sunway Real Estate Investment Trust
Hospitality Properties Trust	Mid-America Apartment Communities, Inc.	Tanger Factory Outlet Centers, Inc.
Host Hotels & Resorts, Inc.	Mirvac Group	The Unite Group plc
Icade	Mori Hills REIT Investment Corporation	Tokyu REIT, Inc.
Ichigo Office REIT Investment Corporation	MORI TRUST Sogo Reit, Incorporation	UDR, Inc.
Immobiliare Grande Distribuzione SIIQ SpA	National Retail Properties, Inc.	Unibail-Rodamco SE
Industrial & Infrastructure Fund Investment Corporation	NewRiver REIT plc	United Urban Investment Corporation
Intervest Offices & Warehouses	Nippon Accommodations Fund Inc.	Universal Health Realty Income Tr
intu properties plc	Nippon Building Fund Incorporation	Urstadt Biddle Properties Inc.
Investa Office Fund	Northview Apartment Real Estate Investment Trust	Vastned Retail N.V.
Invincible Investment Corporation	Omega Healthcare Investors, Inc.	Ventas, Inc.
Iron Mountain Incorporated		Vornado Realty Trust
		Warehouses De Pauw
		Weingarten Realty Investors

Welltower Inc.
 Wereldhave N.V.
 Westfield Corporation
 Weyerhaeuser Company
 Workspace Group plc
 Yuexiu Real Estate
 Investment Trust

China Overseas Land &
 Investment Limited
 China Resources Land
 Limited
 China SCE Property
 Holdings Limited
 China South City Holdings
 Limited
 Chong Hong Construction
 Co., Ltd.
 Citycon Oyj
 Colliers International Group
 Inc.
 Conwert Immobilien Invest
 SE
 Corporación Inmobiliaria
 Vesta S.A.B. de C.V.
 Country Garden Holdings
 Company
 Daibiru Corporation
 Daikyo Incorporated
 Daiwa House Industry
 Co.,Ltd.
 Deutsche EuroShop AG
 Deyaar Development PJSC
 DIC Asset AG
 Diös Fastigheter AB (publ)
 DongWon Development
 Co.,Ltd.
 Eastern & Oriental Berhad
 Eco World Development
 Group Berhad
 Emaar Properties PJSC
 Emperor International
 Holdings Limited
 Ezdan Holding Group
 Q.S.C.
 Fabege AB (publ)
 Fantasia Holdings Group
 Co., Limited
 Far East Consortium
 International Limited
 Fastighets AB Balder (publ)
 Filinvest Land, Inc.
 First Capital Realty Inc.
 Gazit Globe Ltd
 Gemdale Properties and
 Investment Corporation
 Limited
 GLP Pte. Ltd.
 Godrej Properties Limited
 GOLDCREST Co., Ltd.
 Golden Land Property
 Development Public
 Company Limited
 Grainger plc
 Greenland Hong Kong
 Holdings Limited
 Greentown China Holdings
 Limited
 Guangzhou R&F Properties
 Co., Ltd.

Hang Lung Group Limited
 Hang Lung Properties
 Limited
 Heiwa Real Estate Co., Ltd.
 Helical plc
 Heliopolis Co. for Housing
 & Dev
 Henderson Land
 Development Company
 Limited
 HFF, Inc.
 Highwealth Construction
 Corp.
 HKC (Holdings) Limited
 Hong Pu Real Estate
 Development CO.,LTD.
 Hongkong Land Holdings
 Limited
 Hopson Development
 Holdings Limited
 Housing Development and
 Infrastructure Limited
 Huaku Development Co.,
 Ltd.
 Huang Hsiang
 Construction Corporation
 Hufvudstaden AB (publ)
 Hulic Co., Ltd.
 HUNG SHENG
 Construction Co., Ltd.
 Hysan Development
 Company Limited
 Ichigo Inc.
 Iguatemi Empresa de
 Shopping Centers S.A.
 Indiabulls Real Estate
 Limited
 Jones Lang LaSalle
 Incorporated
 K. Wah International
 Holdings Limited
 Kenedix, Inc.
 Kerry Properties Limited
 Kindom Construction Corp.
 Klövern AB
 KOREIT
 KSL Holdings Berhad
 Kungsleden AB
 Kuoyang Construction Co.
 KWG Property Holding
 Limited
 L.P.N. Development Public
 Company Limited
 Lai Sun Development
 Company Limited
 LendLease Group
 Leopalace21 Corporation
 Liu Chong Hing Investment
 Limited
 Longfor Properties Co. Ltd.
 Madinet Nasr for Housing
 & Dev
 Mah Sing Group Berhad

GICS 601020

ADLER Real Estate AG
 AEON Mall Co., Ltd.
 Africa Israel Properties Ltd
 Agile Group Holdings
 Limited
 Airport City Ltd.
 Aldar Properties PJSC
 Aliansce Shopping Centers
 S.A.
 Allreal Holding AG
 Alony-Hetz Properties &
 Investments Ltd
 Amot Investment Ltd
 AP (Thailand) Public
 Company Limited
 ARDEPRO Co., Ltd.
 Ayala Land, Inc.
 Azrieli Group Ltd
 Barwa Real Estate
 Company Q.P.S.C.
 Bayside Land Corporation
 Ltd
 Beijing Capital Land Ltd.
 Beijing North Star
 Company Limited
 BIG Shopping Centers Ltd
 Blue Square Real Estate
 Ltd.
 BR Malls Participações S.A.
 BR Properties S.A.
 C C Land Holdings Limited
 CA Immobilien Anlagen AG
 CapitaLand Limited
 Castellum AB
 Cathay Real Estate
 Development Co.,Ltd.
 CBRE Group, Inc.
 Cedar Woods Properties
 Limited
 Central China Real Estate
 Limited
 Central Pattana Public
 Company Limited
 China Aoyuan Property
 Group Limited
 China Evergrande Group
 China Jinmao Holdings
 Group Limited
 China Merchants Land
 Limited
 China Overseas Grand
 Oceans Group Limited

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Mazaya Qatar Real Estate Dev.	Shanghai Shibe Hi-Tech Co.,Ltd.	Yuexiu Property Company Limited
Megaworld Corporation	Shenzhen Investment Limited	Yuzhou Properties Company Limited
Melisron Ltd.	Shenzhen SEG Co., Ltd.	
Minmetals Land Limited	Shimao Property Holdings Limited	
Mitsui Fudosan Co., Ltd.	Shui On Land Limited	
Mobimo Holding AG	Sino Land Company Limited	
Multiplan	Sino-Ocean Group Holding Limited	
Empreendimentos Imobiliários S.A.	Sinyi Realty Inc.	
New World Development Company Limited	Sixth of October for Development and Investment Company	
Nexity SA	SODIC S.A.E	
Norwegian Property ASA	SM Prime Holdings, Inc.	
NTT Urban Development Corporation	SOHO China Limited	
Oberoi Realty Limited	Sonae Sierra Brasil S.A.	
Palm Hills Developments Company (S.A.E)	Sponda Plc	
Parque Arauco S.A.	St. Modwen Properties PLC	
PATRIZIA Immobilien AG	Sumitomo Realty & Development Co., Ltd.	
Poly Property Group Co., Limited	Sun Frontier Fudousan Co., Ltd.	
Powerlong Real Estate Holdings Limited	Sun Hung Kai Properties Limited	
Prince Housing & Development Corp.	Sunac China Holdings Limited	
PSP Swiss Property AG	Supalai Public Company Limited	
PT Alam Sutera Realty Tbk	Swire Properties Limited	
PT Bumi Serpong Damai Tbk	TAG Immobilien AG	
PT Ciputra Development Tbk	Takara Leben Co., Ltd.	
PT Hanson International Tbk	Technopolis Plc	
PT Intiland Development Tbk	Tian Shan Development (Holding) Limited	
PT Kawasan Industri Jababeka Tbk	TICON Industrial Connection Public Company Limited	
PT Modernland Realty Tbk	TOC Co., Ltd.	
PT Pakuwon Jati Tbk	Tokyo Tatemono Co., Ltd.	
PT Summarecon Agung Tbk	Tokyu Fudosan Holdings Corporation	
Quality Houses Public Company Limited	Tosei Corporation	
Radium Life Technology Co., Ltd.	Tropicana Corporation Berhad	
RAK Properties P.J.S.C.	UEM Sunrise Berhad	
Relo Group, Inc.	Univentures Public Company Limited	
Road King Infrastructure Limited	UNIZO Holdings Company, Limited	
Robinsons Land Corporation	UOA Development Bhd	
S IMMO AG	Vista Land & Lifescapes, Inc.	
Sansiri Public Company Limited	Wallenstam AB (publ)	
Savills plc	Wharf (Holdings) Limited	
SC Asset Corporation Public Company Limited	Wheelock and Company Limited	
Selvaag Bolig ASA	Wihlborgs Fastigheter AB (publ)	
Shanghai Industrial Urban Development Group Limited	Yanlord Land Group Limited	

Appendix D: Companies (“High-Financial-Risk” Set) in Each Industry, by GICS Code, in World

In Appendix D, a listing of companies in the set of “high-financial-risk” companies for each GICS code in the World region in the *2017 Valuation Handbook – International Industry Cost of Capital* Semi-annual Update (data through September 30, 2017) is presented.

GICS 10

Advantage Oil & Gas Ltd.
 Akastor ASA
 Aker BP ASA
 Amec Foster Wheeler plc
 Anadarko Petroleum
 Corpor
 Apache Corporation
 Archrock, Inc.
 Baytex Energy Corp.
 Beach Energy Limited
 Bill Barrett Corporation
 Bonavista Energy Corporat
 Bourbon Corporation SA
 Bristow Group Inc.
 BW Offshore Limited
 Callon Petroleum Company
 CGG
 Chennai Petroleum
 Corpora
 China Suntien Green Energy
 Cimarex Energy Co.
 Concho Resources Inc.
 Cosmo Energy Holdings
 Co.
 Crescent Point Energy Cor
 Crew Energy Inc.
 Devon Energy Corporation
 DNO ASA
 Encana Corporation
 Energen Corporation
 Enerplus Corporation
 EnQuest PLC
 Esso (Thailand) Public Co
 Esso S.A.F.
 Ezion Holdings Limited
 Gibson Energy Inc.
 Gran Tierra Energy Inc.
 Helix Energy Solutions Gr
 Hess Corporation
 Höegh LNG Holdings Ltd.
 Hunting plc
 Inter Pipeline Ltd.
 Japan Drilling Co., Ltd.
 Lundin Petroleum AB (publ
 McDermott International,
 MEG Energy Corp.
 MIE Holdings Corporation
 Nabors Industries Ltd.
 Noble Energy, Inc.
 NuVista Energy Ltd.
 Obsidian Energy Ltd.
 Oil Refineries Ltd.
 Origin Energy Limited
 Painted Pony Energy Ltd.
 Paramount Resources Ltd.
 Parex Resources Inc.
 PDC Energy, Inc.
 Pengrowth Energy Corporat
 Petroleum Geo-Services AS
 Pioneer Natural Resources
 Precision Drilling Corpor

Premier Oil plc
 QEP Resources, Inc.
 Range Resources Corporati
 Saipem S.p.A.
 Santos Limited
 Saras S.p.A.
 SEACOR Holdings Inc.
 Secure Energy Services In
 SM Energy Company
 Southwestern Energy
 Compa
 SRC Energy Inc.
 Superior Energy Services,
 Surge Energy Inc.
 Transocean Ltd.
 Trican Well Service Ltd.
 Trinidad Drilling Ltd.
 Tullow Oil plc
 Unit Corporation
 Vallourec SA
 Veresen Inc.
 Whitehaven Coal Limited
 Whiting Petroleum Corpora
 WPX Energy, Inc.

GICS 1010

Advantage Oil & Gas Ltd.
 Akastor ASA
 Aker BP ASA
 Amec Foster Wheeler plc
 Anadarko Petroleum
 Corpor
 Apache Corporation
 Archrock, Inc.
 Baytex Energy Corp.
 Beach Energy Limited
 Bill Barrett Corporation
 Bonavista Energy Corporat
 Bourbon Corporation SA
 Bristow Group Inc.
 BW Offshore Limited
 Callon Petroleum Company
 CGG
 Chennai Petroleum
 Corpora
 China Suntien Green Energy
 Cimarex Energy Co.
 Concho Resources Inc.
 Cosmo Energy Holdings
 Co.
 Crescent Point Energy Cor
 Crew Energy Inc.
 Devon Energy Corporation
 DNO ASA
 Encana Corporation
 Energen Corporation
 Enerplus Corporation
 EnQuest PLC
 Esso (Thailand) Public Co
 Esso S.A.F.
 Ezion Holdings Limited
 Gibson Energy Inc.

Gran Tierra Energy Inc.
 Helix Energy Solutions Gr
 Hess Corporation
 Höegh LNG Holdings Ltd.
 Hunting plc
 Inter Pipeline Ltd.
 Japan Drilling Co., Ltd.
 Lundin Petroleum AB (publ
 McDermott International,
 MEG Energy Corp.
 MIE Holdings Corporation
 Nabors Industries Ltd.
 Noble Energy, Inc.
 NuVista Energy Ltd.
 Obsidian Energy Ltd.
 Oil Refineries Ltd.
 Origin Energy Limited
 Painted Pony Energy Ltd.
 Paramount Resources Ltd.
 Parex Resources Inc.
 PDC Energy, Inc.
 Pengrowth Energy Corporat
 Petroleum Geo-Services AS
 Pioneer Natural Resources
 Precision Drilling Corpor
 Premier Oil plc
 QEP Resources, Inc.
 Range Resources Corporati
 Saipem S.p.A.
 Santos Limited
 Saras S.p.A.
 Secure Energy Services In
 SM Energy Company
 Southwestern Energy
 Compa
 SRC Energy Inc.
 Superior Energy Services,
 Surge Energy Inc.
 Transocean Ltd.
 Trican Well Service Ltd.
 Trinidad Drilling Ltd.
 Tullow Oil plc
 Unit Corporation
 Vallourec SA
 Veresen Inc.
 Whitehaven Coal Limited
 Whiting Petroleum Corpora
 WPX Energy, Inc.

GICS 101010

Akastor ASA
 Amec Foster Wheeler plc
 Archrock, Inc.
 Bourbon Corporation SA
 Bristow Group Inc.
 BW Offshore Limited
 CGG
 Ezion Holdings Limited
 Helix Energy Solutions Gr
 Hunting plc
 Japan Drilling Co., Ltd.

McDermott International,
Nabors Industries Ltd.
Petroleum Geo-Services AS
Precision Drilling Corpor
Saipem S.p.A.
Secure Energy Services In
Superior Energy Services,
Transocean Ltd.
Trican Well Service Ltd.
Trinidad Drilling Ltd.
Unit Corporation
Vallourec SA

Range Resources Corporati
Santos Limited
Saras S.p.A.
SM Energy Company
Southwestern Energy
Compa
SRC Energy Inc.
Surge Energy Inc.
Tullow Oil plc
Veresen Inc.
Whitehaven Coal Limited
Whiting Petroleum Corpora
WPX Energy, Inc.

Kinross Gold Corporation
Lonmin Plc
Magnetita Refratários S.A
Major Drilling Group Inte
Mexichem, S.A.B. de C.V.
Minera Frisco, S.A.B. de
MMG Limited
New Gold Inc.
Newcrest Mining Limited
NewMarket Corporation
Nisshin Steel Co., Ltd.
Northam Platinum Limited
Nyrstar NV
OCI Company Ltd
OSAKA Titanium technologi
Outokumpu Oyj
Pacific Metals Co., Ltd.
Pan American Silver Corp.
PT Krakatau Steel (Perser
Royal Bafokeng Platinum L
Sandstorm Gold Ltd.
Sappi Limited
Schmolz + Bickenbach AG
Schnitzer Steel Industrie
Semapa - Sociedade de Inv
Silvercorp Metals Inc.
Sinofert Holdings Limited
SSAB AB
St Barbara Limited
Suzano Papel e Celulose S
Taiwan Building Materials
Tata Steel Limited
Toho Titanium Co., Ltd.
Toho Zinc Co., Ltd.
Tokuyama Corporation
Tokyo Steel Manufacturing
Tongfang Kontafarma
Holdi
Tongyang Inc.
Turquoise Hill Resources
U.S. Concrete, Inc.
United States Steel Corpo
Usinas Siderúrgicas de Mi
Vedanta Limited
Vedanta Resources plc
Western Areas Limited
Wienerberger AG
Xinjiang Xinxin Mining In
Yamana Gold Inc.

GICS 101020

Advantage Oil & Gas Ltd.
Aker BP ASA
Anadarko Petroleum
Corpor
Apache Corporation
Baytex Energy Corp.
Beach Energy Limited
Bill Barrett Corporation
Bonavista Energy Corporat
Callon Petroleum Company
Chennai Petroleum
Corpora
China Suntien Green Energ
Cimarex Energy Co.
Concho Resources Inc.
Cosmo Energy Holdings
Co.
Crescent Point Energy Cor
Crew Energy Inc.
Devon Energy Corporation
DNO ASA
Encana Corporation
Energen Corporation
Enerplus Corporation
EnQuest PLC
Esso (Thailand) Public Co
Esso S.A.F.
Gibson Energy Inc.
Gran Tierra Energy Inc.
Hess Corporation
Höegh LNG Holdings Ltd.
Inter Pipeline Ltd.
Lundin Petroleum AB (publ
MEG Energy Corp.
MIE Holdings Corporation
Noble Energy, Inc.
NuVista Energy Ltd.
Obsidian Energy Ltd.
Oil Refineries Ltd.
Origin Energy Limited
Painted Pony Energy Ltd.
Paramount Resources Ltd.
Parex Resources Inc.
PDC Energy, Inc.
PENGROWTH Energy Corporat
Pioneer Natural Resources
Premier Oil plc
QEP Resources, Inc.

GICS 15

A. Schulman, Inc.
Acacia Mining plc
Agnico Eagle Mines Limite
AK Steel Holding Corporat
Alacer Gold Corp.
Alamos Gold Inc.
Allegheny Technologies In
Anglo American Platinum L
B2Gold Corp.
Barrick Gold Corporation
Bengang Steel Plates Co.,
BlueScope Steel Limited
Cascades Inc.
CEMEX, S.A.B. de C.V.
Century Aluminum
Company
China Daye Non-Ferrous
Me
China National Building M
China Petrochemical Devel
Chung Hwa Pulp
Corporatio
Corbion N.V.
Crown Holdings, Inc.
Dongkuk Steel Mill Compan
Eldorado Gold Corporation
Endeavour Mining Corporat
Endeavour Silver Corp.
ERAMET S.A.
Evolution Mining Limited
EVRAZ plc
Ezz Steel Company
Ferro Corporation
Fibria Celulose S.A.
First Majestic Silver Cor
Fortuna Silver Mines Inc.
Freeport-McMoRan Inc.
Godo Steel, Ltd.
Goldcorp Inc.
Greif, Inc.
Harmony Gold Mining
Compa
Hochschild Mining PLC
Hudbay Minerals Inc.
IAMGOLD Corporation
Impala Platinum Holdings
Independence Group NL
KAZ Minerals plc

GICS 1510

A. Schulman, Inc.
Acacia Mining plc
Agnico Eagle Mines Limite
AK Steel Holding Corporat
Alacer Gold Corp.
Alamos Gold Inc.
Allegheny Technologies In
Anglo American Platinum L
B2Gold Corp.
Barrick Gold Corporation

Bengang Steel Plates Co.,
 BlueScope Steel Limited
 Cascades Inc.
 CEMEX, S.A.B. de C.V.
 Century Aluminum
 Company
 China Daye Non-Ferrous
 Me
 China National Building M
 China Petrochemical Devel
 Chung Hwa Pulp
 Corporatio
 Corbion N.V.
 Crown Holdings, Inc.
 Dongkuk Steel Mill Compan
 Eldorado Gold Corporation
 Endeavour Mining Corporat
 Endeavour Silver Corp.
 ERAMET S.A.
 Evolution Mining Limited
 EVRAZ plc
 Ezz Steel Company
 Ferro Corporation
 Fibria Celulose S.A.
 First Majestic Silver Cor
 Fortuna Silver Mines Inc.
 Freeport-McMoRan Inc.
 Godo Steel, Ltd.
 Goldcorp Inc.
 Greif, Inc.
 Harmony Gold Mining
 Compa
 Hochschild Mining PLC
 Hudbay Minerals Inc.
 IAMGOLD Corporation
 Impala Platinum Holdings
 Independence Group NL
 KAZ Minerals plc
 Kinross Gold Corporation
 Lonmin Plc
 Magnesita Refratários S.A
 Major Drilling Group Inte
 Mexichem, S.A.B. de C.V.
 Minera Frisco, S.A.B. de
 MMG Limited
 New Gold Inc.
 Newcrest Mining Limited
 NewMarket Corporation
 Nisshin Steel Co., Ltd.
 Northam Platinum Limited
 Nyrstar NV
 OCI Company Ltd
 OSAKA Titanium technologi
 Outokumpu Oyj
 Pacific Metals Co., Ltd.
 Pan American Silver Corp.
 PT Krakatau Steel (Perser
 Royal Bafokeng Platinum L
 Sandstorm Gold Ltd.
 Sappi Limited
 Schmolz + Bickenbach AG
 Schnitzer Steel Industrie

Semapa - Sociedade de Inv
 Silvercorp Metals Inc.
 Sinofert Holdings Limited
 SSAB AB
 St Barbara Limited
 Suzano Papel e Celulose S
 Taiwan Building Materials
 Tata Steel Limited
 Toho Titanium Co., Ltd.
 Toho Zinc Co., Ltd.
 Tokuyama Corporation
 Tokyo Steel Manufacturing
 Tongfang Kontafarma
 Holdi
 Tongyang Inc.
 Turquoise Hill Resources
 U.S. Concrete, Inc.
 United States Steel Corpo
 Usinas Siderúrgicas de Mi
 Vedanta Limited
 Vedanta Resources plc
 Western Areas Limited
 Wienerberger AG
 Xinjiang Xinxin Mining In
 Yamana Gold Inc.

GICS 151010

A. Schulman, Inc.
 China Petrochemical Devel
 Corbion N.V.
 Ferro Corporation
 Mexichem, S.A.B. de C.V.
 NewMarket Corporation
 OCI Company Ltd
 Sinofert Holdings Limited
 Tokuyama Corporation

GICS 151020

CEMEX, S.A.B. de C.V.
 China National Building M
 Magnesita Refratários S.A
 Taiwan Building Materials
 Tongfang Kontafarma
 Holdi
 Tongyang Inc.
 U.S. Concrete, Inc.
 Wienerberger AG

GICS 151040

Acacia Mining plc
 Agnico Eagle Mines Limite
 AK Steel Holding Corporat
 Alacer Gold Corp.
 Alamos Gold Inc.
 Allegheny Technologies In
 Anglo American Platinum L
 B2Gold Corp.
 Barrick Gold Corporation
 Bengang Steel Plates Co.,
 BlueScope Steel Limited
 Century Aluminum
 Company

China Daye Non-Ferrous
 Me
 Dongkuk Steel Mill Compan
 Eldorado Gold Corporation
 Endeavour Mining Corporat
 Endeavour Silver Corp.
 ERAMET S.A.
 Evolution Mining Limited
 EVRAZ plc
 Ezz Steel Company
 First Majestic Silver Cor
 Fortuna Silver Mines Inc.
 Freeport-McMoRan Inc.
 Godo Steel, Ltd.
 Goldcorp Inc.
 Harmony Gold Mining
 Compa
 Hochschild Mining PLC
 Hudbay Minerals Inc.
 IAMGOLD Corporation
 Impala Platinum Holdings
 Independence Group NL
 KAZ Minerals plc
 Kinross Gold Corporation
 Lonmin Plc
 Major Drilling Group Inte
 Minera Frisco, S.A.B. de
 MMG Limited
 New Gold Inc.
 Newcrest Mining Limited
 Nisshin Steel Co., Ltd.
 Northam Platinum Limited
 Nyrstar NV
 OSAKA Titanium technologi
 Outokumpu Oyj
 Pacific Metals Co., Ltd.
 Pan American Silver Corp.
 PT Krakatau Steel (Perser
 Royal Bafokeng Platinum L
 Sandstorm Gold Ltd.
 Schmolz + Bickenbach AG
 Schnitzer Steel Industrie
 Silvercorp Metals Inc.
 SSAB AB
 St Barbara Limited
 Tata Steel Limited
 Toho Titanium Co., Ltd.
 Toho Zinc Co., Ltd.
 Tokyo Steel Manufacturing
 Turquoise Hill Resources
 United States Steel Corpo
 Usinas Siderúrgicas de Mi
 Vedanta Limited
 Vedanta Resources plc
 Western Areas Limited
 Xinjiang Xinxin Mining In
 Yamana Gold Inc.

GICS 151050

Chung Hwa Pulp
 Corporatio
 Fibria Celulose S.A.

Sappi Limited
Semapa - Sociedade de Inv
Suzano Papel e Celulose S

Mitsui O.S.K. Lines, Ltd.
Mitsui Soko Holdings Co.,
Nexans S.A.
Nippon Sharyo, Ltd.
Nippon Yusen Kabushiki Ka
Noble Group Limited
Obrascón Huarte Lain, S.A
Pacific Basin Shipping Li
PostNL N.V.
Precious Shipping Public
PT. Garuda Indonesia (Per
Public Joint Stock Compan
Qantas Airways Limited
R.R. Donnelley & Sons Com
Rentokil Initial plc
Sacyr, S.A.
Sadbhav Engineering Limit
Sany Heavy Equipment Inte
Schneider Electric Infrac
Serco Group plc
SGL Carbon SE
SIG plc
Sinotrans Shipping Limite
SK Networks Company
Limit
SkyWest, Inc.
Suzlon Energy Limited
Thai Airways Internationa
The Dun & Bradstreet Corp
The Shipping Corporation
Titan Machinery Inc.
Toda Corporation
Toyo Engineering Corporat
TransDigm Group
Incorpora
Trencor Limited
Triumph Group, Inc.
Vicor Corporation
Vossloh AG
YRC Worldwide Inc.

Koenig & Bauer AG
Kumho Industrial Co., Ltd
Latécoère S.A.
Leonardo S.p.a.
Meritor, Inc.
Nexans S.A.
Nippon Sharyo, Ltd.
Noble Group Limited
Obrascón Huarte Lain, S.A
Sadbhav Engineering Limit
Sany Heavy Equipment Inte
Schneider Electric Infrac
SGL Carbon SE
SIG plc
SK Networks Company
Limit
Suzlon Energy Limited
Titan Machinery Inc.
Toda Corporation
Toyo Engineering Corporat
TransDigm Group
Incorpora
Trencor Limited
Triumph Group, Inc.
Vicor Corporation
Vossloh AG

GICS 20

Aerojet Rocketdyne Holdin
Air Canada
Air France-KLM SA
Asiana Airlines, Inc.
Avianca Holdings S.A.
Avis Budget Group, Inc.
Balfour Beatty plc
Beijing Enterprises Envir
Berjaya Corporation Berha
Bombardier Inc.
Builders FirstSource, Inc
Capital Environment Holdi
Casella Waste Systems, In
Cleanaway Waste
Managemen
Cobham plc
Compagnie Industriale Riu
Dampskibsselskabet
Norden
De La Rue plc
Delta Air Lines, Inc.
Doosan Heavy Industries &
Doosan Infracore Co., Ltd
Edenred SA
Engility Holdings, Inc.
Evergreen Marine Corporat
Finnair Oyj
Fomento de
Construcciones
Fosun International Limit
Futaba Corporation
Gayatri Projects Limited
General Cable Corporation
GMR Infrastructure Limite
GOL Linhas Aéreas Intelig
Golden Ocean Group Limite
Grindrod Limited
Hanjin Heavy Industries &
Harsco Corporation
Heidelberger
Druckmaschin
Hertz Global Holdings, In
Hindustan Construction Co
Hutchison Port Holdings T
Hyundai Elevator Co., Ltd
Italian-Thai Development
Jet Airways (India) Limit
Kawasaki Kisen Kaisha, Lt
KBR, Inc.
Klöckner & Co SE
Koenig & Bauer AG
Kratos Defense & Security
Kumho Industrial Co., Ltd
LATAM Airlines Group S.A.
Latécoère S.A.
Leonardo S.p.a.
Meritor, Inc.

GICS 2010

Aerojet Rocketdyne Holdin
Balfour Beatty plc
Bombardier Inc.
Builders FirstSource, Inc
Cobham plc
Doosan Heavy Industries &
Doosan Infracore Co., Ltd
Engility Holdings, Inc.
Fomento de
Construcciones
Fosun International Limit
Futaba Corporation
Gayatri Projects Limited
General Cable Corporation
Hanjin Heavy Industries &
Hindustan Construction Co
Hyundai Elevator Co., Ltd
Italian-Thai Development
KBR, Inc.
Klöckner & Co SE

GICS 201010

Aerojet Rocketdyne Holdin
Bombardier Inc.
Cobham plc
Engility Holdings, Inc.
Latécoère S.A.
Leonardo S.p.a.
TransDigm Group
Incorpora
Triumph Group, Inc.

GICS 201030

Balfour Beatty plc
Fomento de
Construcciones
Gayatri Projects Limited
Hindustan Construction Co
Italian-Thai Development
KBR, Inc.
Kumho Industrial Co., Ltd
Obrascón Huarte Lain, S.A
Sadbhav Engineering Limit
Toda Corporation
Toyo Engineering Corporat

GICS 201040

General Cable Corporation
Nexans S.A.
Schneider Electric Infrac
SGL Carbon SE
Suzlon Energy Limited
Vicor Corporation

GICS 201060

Doosan Infracore Co., Ltd
Hyundai Elevator Co., Ltd
Koenig & Bauer AG
Meritor, Inc.
Nippon Sharyo, Ltd.
Sany Heavy Equipment Inte
Vossloh AG

GICS 201070

Klößner & Co SE
Noble Group Limited
SIG plc
SK Networks Company
Limit
Titan Machinery Inc.
Trencor Limited

GICS 2020

Beijing Enterprises Envir
Capital Environment Holdi
Casella Waste Systems, In
Cleanaway Waste
Managemen
De La Rue plc
Edenred SA
Rentokil Initial plc
Serco Group plc
The Dun & Bradstreet Corp

GICS 202010

Beijing Enterprises Envir
Capital Environment Holdi
Casella Waste Systems, In
Cleanaway Waste
Managemen
De La Rue plc
Edenred SA
Rentokil Initial plc
Serco Group plc

GICS 2030

Air Canada
Air France-KLM SA
Asiana Airlines, Inc.
Avianca Holdings S.A.
Avis Budget Group, Inc.
Dampskibsselskabet
Norden
Delta Air Lines, Inc.
Evergreen Marine Corporat
Finnair Oyj
GOL Linhas Aéreas Intelig
Golden Ocean Group Limite
Grindrod Limited
Hertz Global Holdings, In
Hutchison Port Holdings T
Jet Airways (India) Limit
Kawasaki Kisen Kaisha, Lt
LATAM Airlines Group S.A.
Mitsui O.S.K. Lines, Ltd.

Mitsui Soko Holdings Co.,
Nippon Yusen Kabushiki Ka
Pacific Basin Shipping Li
PostNL N.V.
Precious Shipping Public
PT. Garuda Indonesia (Per
Public Joint Stock Compan
Qantas Airways Limited
Sinotrans Shipping Limite
SkyWest, Inc.
Thai Airways Internationa
The Shipping Corporation
YRC Worldwide Inc.

GICS 203020

Air Canada
Air France-KLM SA
Asiana Airlines, Inc.
Avianca Holdings S.A.
Delta Air Lines, Inc.
Finnair Oyj
GOL Linhas Aéreas Intelig
Jet Airways (India) Limit
LATAM Airlines Group S.A.
Public Joint Stock Compan
Qantas Airways Limited
SkyWest, Inc.
Thai Airways Internationa

GICS 203030

Dampskibsselskabet
Norden
Evergreen Marine Corporat
Golden Ocean Group Limite
Grindrod Limited
Kawasaki Kisen Kaisha, Lt
Mitsui O.S.K. Lines, Ltd.
Pacific Basin Shipping Li
Precious Shipping Public
Sinotrans Shipping Limite
The Shipping Corporation

GICS 25

Aimia Inc.
Akebono Brake Industry Co
AMC Networks Inc.
American Axle &
Manufactu
Ascena Retail Group, Inc.
AutoZone, Inc.
B2W - Companhia Digital
Barnes & Noble, Inc.
Belmond Ltd.
Boyd Gaming Corporation
Brinker International, In
Callaway Golf Company
Career Education Corporat
Central European Media En
China LotSynergy Holdings
Choice Hotels Internation
Chongqing Changan
Automob

Clear Channel Outdoor Hol
Codere, S.A.
Compagnie des Alpes SA
Denny's Corporation
Dignity plc
Domino's Pizza, Inc.
Esprit Holdings Limited
Fairfax Media Limited
Fred's, Inc.
Fujita Kanko Inc.
Funai Electric Co., Ltd.
Futaba Industrial Co., Lt
Guangzhou Automobile
Grou
H&R Block, Inc.
Hovnanian Enterprises, In
HT&E Limited
Iconix Brand Group, Inc.
InterContinental Hotels G
Interpark Holdings Corpor
J. C. Penney Company, Inc
Jack in the Box Inc.
Juventus Football Club S.
Kappa-Create Co., Ltd.
Kintetsu Department Store
L Brands, Inc.
Laox CO., LTD.
Li Ning Company Limited
Live Nation Entertainment
Marriott International, I
McDonald's Corporation
McDonald's Holdings
Compa
Mediaset S.p.A.
mobilezone holding ag
Motorcar Parts of America
National CineMedia, Inc.
NH Hotel Group, S.A.
Pearson plc
Penn National Gaming, Inc
Peugeot S.A.
Pinnacle Entertainment, I
Pioneer Corporation
Promotora de Informacione
QVC Group
Regal Entertainment Group
Regis Corporation
Rent-A-Center, Inc.
Round One Corporation
Safilo Group S.p.A.
Sally Beauty Holdings, In
Sanoma Oyj
Sanyang Motor Co., Ltd.
Seobu T&D Co., Ltd.
Seven West Media Limited
Shanghai Jin Jiang Intern
Sharp Corporation
Sirius XM Holdings Inc.
SITI Networks Limited
Sonic Automotive, Inc.
Sonic Corp.
Southern Cross Media Grou

Ssangyong Motor Company
 Stockmann Oyj ABP
 Sun International Limited
 Sungwoo Hitech Co., Ltd.
 Tailored Brands, Inc.
 Telenet Group Holding NV
 The Goodyear Tire & Rubbe
 The Indian Hotels Company
 Tile Shop Holdings, Inc.
 TomTom N.V.
 TOMY Company, Ltd.
 TSI Holdings Co.,Ltd.
 Vestel Elektronik Sanayi
 Watami Co., Ltd.
 Weight Watchers Internati
 Wynn Resorts, Limited
 YUM! Brands, Inc.

Pioneer Corporation
 TomTom N.V.
 Vestel Elektronik Sanayi

Shanghai Jin Jiang Intern
 Sonic Corp.
 Sun International Limited
 The Indian Hotels Company
 Watami Co., Ltd.
 Wynn Resorts, Limited
 YUM! Brands, Inc.

GICS 2530

Belmond Ltd.
 Boyd Gaming Corporation
 Brinker International, In
 Career Education Corporat
 China LotSynergy Holdings
 Choice Hotels Internation
 Codere, S.A.
 Compagnie des Alpes SA
 Denny's Corporation
 Dignity plc
 Domino's Pizza, Inc.
 Fujita Kanko Inc.
 H&R Block, Inc.
 InterContinental Hotels G
 Jack in the Box Inc.
 Kappa-Create Co., Ltd.
 Marriott International, I
 McDonald's Corporation
 McDonald's Holdings
 Compa
 NH Hotel Group, S.A.
 Penn National Gaming, Inc
 Pinnacle Entertainment, I
 Regis Corporation
 Round One Corporation
 Shanghai Jin Jiang Intern
 Sonic Corp.
 Sun International Limited
 The Indian Hotels Company
 Watami Co., Ltd.
 Weight Watchers Internati
 Wynn Resorts, Limited
 YUM! Brands, Inc.

GICS 253020

Career Education Corporat
 Dignity plc
 H&R Block, Inc.
 Regis Corporation
 Weight Watchers Internati

GICS 2540

Aimia Inc.
 AMC Networks Inc.
 Central European Media En
 Clear Channel Outdoor Hol
 Fairfax Media Limited
 HT&E Limited
 Juventus Football Club S.
 Live Nation Entertainment
 Mediaset S.p.A.
 National CineMedia, Inc.
 Pearson plc
 Promotora de Informacione
 Regal Entertainment Group
 Sanoma Oyj
 Seven West Media Limited
 Sirius XM Holdings Inc.
 SITI Networks Limited
 Southern Cross Media Grou
 Telenet Group Holding NV

GICS 2510

Akebono Brake Industry Co
 American Axle &
 Manufactu
 Chongqing Changan
 Automob
 Futaba Industrial Co., Lt
 Guangzhou Automobile
 Grou
 Motorcar Parts of America
 Peugeot S.A.
 Sanyang Motor Co., Ltd.
 Ssangyong Motor
 Company
 Sungwoo Hitech Co., Ltd.
 The Goodyear Tire & Rubbe

GICS 251010

Akebono Brake Industry Co
 American Axle &
 Manufactu
 Futaba Industrial Co., Lt
 Motorcar Parts of America
 Sungwoo Hitech Co., Ltd.
 The Goodyear Tire & Rubbe

GICS 2520

Callaway Golf Company
 Funai Electric Co., Ltd.
 Hovnanian Enterprises, In
 Iconix Brand Group, Inc.
 Li Ning Company Limited
 Pioneer Corporation
 Safilo Group S.p.A.
 Sharp Corporation
 TomTom N.V.
 TOMY Company, Ltd.
 TSI Holdings Co.,Ltd.
 Vestel Elektronik Sanayi

GICS 252010

Funai Electric Co., Ltd.
 Hovnanian Enterprises, In

GICS 253010

Belmond Ltd.
 Boyd Gaming Corporation
 Brinker International, In
 China LotSynergy Holdings
 Choice Hotels Internation
 Codere, S.A.
 Compagnie des Alpes SA
 Denny's Corporation
 Domino's Pizza, Inc.
 Fujita Kanko Inc.
 InterContinental Hotels G
 Jack in the Box Inc.
 Kappa-Create Co., Ltd.
 Marriott International, I
 McDonald's Corporation
 McDonald's Holdings
 Compa
 NH Hotel Group, S.A.
 Penn National Gaming, Inc
 Pinnacle Entertainment, I
 Round One Corporation

GICS 2550

Ascena Retail Group, Inc.
 AutoZone, Inc.
 B2W - Companhia Digital
 Barnes & Noble, Inc.
 Esprit Holdings Limited
 Fred's, Inc.
 Interpark Holdings Corpor
 J. C. Penney Company, Inc
 Kintetsu Department Store
 L Brands, Inc.
 Laox CO., LTD.
 mobilezone holding ag
 QVC Group
 Rent-A-Center, Inc.
 Sally Beauty Holdings, In
 Seobu T&D Co., Ltd.
 Sonic Automotive, Inc.
 Stockmann Oyj ABP
 Tailored Brands, Inc.
 Tile Shop Holdings, Inc.

GICS 255040

Ascena Retail Group, Inc.
AutoZone, Inc.
Barnes & Noble, Inc.
Esprit Holdings Limited
L Brands, Inc.
Laox CO., LTD.
mobilezone holding ag
Rent-A-Center, Inc.
Sally Beauty Holdings, In
Seobu T&D Co., Ltd.
Sonic Automotive, Inc.
Tailored Brands, Inc.
Tile Shop Holdings, Inc.

GICS 30

ARYZTA AG
Avon Products, Inc.
China Huiyuan Juice Group
China Yurun Food Group Li
Colgate-Palmolive
Company
Dean Foods Company
Empire Company Limited
Harim Co., Ltd.
Herbalife Ltd.
HRG Group, Inc.
Koninklijke Wessanen N.V.
Lianhua Supermarket Holdi
Marfrig Global Foods S.A.
Marie Brizard Wine & Spir
Migros Ticaret A.S.
Minerva S.A.
Philip Morris Internation
Post Holdings, Inc.
Premier Foods plc
Rallye SA
Revlon, Inc.
Rite Aid Corporation
SUPERVALU Inc.
United Spirits Limited
Wei Chuan Foods Corporati

GICS 3010

Empire Company Limited
Lianhua Supermarket Holdi
Migros Ticaret A.S.
Rallye SA
Rite Aid Corporation
SUPERVALU Inc.

GICS 3020

ARYZTA AG
China Huiyuan Juice Group
China Yurun Food Group Li
Dean Foods Company
Harim Co., Ltd.
Koninklijke Wessanen N.V.
Marfrig Global Foods S.A.
Marie Brizard Wine & Spir
Minerva S.A.

Philip Morris Internation
Post Holdings, Inc.
Premier Foods plc
United Spirits Limited
Wei Chuan Foods Corporati

GICS 302020

ARYZTA AG
China Huiyuan Juice Group
China Yurun Food Group Li
Dean Foods Company
Harim Co., Ltd.
Koninklijke Wessanen N.V.
Marfrig Global Foods S.A.
Minerva S.A.
Post Holdings, Inc.
Premier Foods plc
Wei Chuan Foods Corporati

GICS 35

Alere Inc.
Allscripts Healthcare Sol
Amedisys, Inc.
AngioDynamics, Inc.
Bavarian Nordic A/S
BINEX Co., Ltd.
BioTelemetry, Inc.
Boston Scientific Corpora
Brookdale Senior Living I
China NT Pharma Group
Com
CMG Pharmaceutical Co., L
Community Health
Systems,
Cross Country Healthcare,
Fagron NV
Genus plc
Golden Meditech Holdings
Green Cross Cell corporat
HCA Healthcare, Inc.
Hologic, Inc.
IDEXX Laboratories, Inc.
Impax Laboratories, Inc.
Incyte Corporation
Invacare Corporation
JEOL Ltd.
JW Holdings Corporation
JW Pharmaceutical
Corpora
JW Shinyak Corporation
Kindred Healthcare, Inc.
Komipharm International C
Lotus Pharmaceutical Co.,
MEDIPPOST Co., Ltd.
OraSure Technologies, Inc
Quidel Corporation
Sequent Scientific Limite
Spectrum Pharmaceuticals,
Teligent, Inc.
Tenet Healthcare Corporat
Tivity Health, Inc.
Valeant Pharmaceuticals I

Vectura Group plc
ViroMed Co., Ltd.

GICS 3510

Alere Inc.
Allscripts Healthcare Sol
Amedisys, Inc.
AngioDynamics, Inc.
BioTelemetry, Inc.
Boston Scientific Corpora
Brookdale Senior Living I
Community Health
Systems,
Cross Country Healthcare,
Fagron NV
Golden Meditech Holdings
HCA Healthcare, Inc.
Hologic, Inc.
IDEXX Laboratories, Inc.
Invacare Corporation
Kindred Healthcare, Inc.
MEDIPPOST Co., Ltd.
OraSure Technologies, Inc
Quidel Corporation
Tenet Healthcare Corporat
Tivity Health, Inc.

GICS 351010

Alere Inc.
AngioDynamics, Inc.
Boston Scientific Corpora
Hologic, Inc.
IDEXX Laboratories, Inc.
Invacare Corporation
OraSure Technologies, Inc
Quidel Corporation

GICS 351020

Amedisys, Inc.
BioTelemetry, Inc.
Brookdale Senior Living I
Community Health
Systems,
Cross Country Healthcare,
Fagron NV
HCA Healthcare, Inc.
Kindred Healthcare, Inc.
MEDIPPOST Co., Ltd.
Tenet Healthcare Corporat
Tivity Health, Inc.

GICS 3520

Bavarian Nordic A/S
BINEX Co., Ltd.
CMG Pharmaceutical Co., L
Genus plc
Green Cross Cell corporat
Impax Laboratories, Inc.
Incyte Corporation
JW Holdings Corporation
JW Pharmaceutical
Corpora

JW Shinyak Corporation
 Komipharm International C
 Lotus Pharmaceutical Co.,
 Sequent Scientific Limite
 Spectrum Pharmaceuticals,
 Teligent, Inc.
 Valeant Pharmaceuticals I
 Vectura Group plc
 ViroMed Co., Ltd.

GICS 352010

Bavarian Nordic A/S
 Genus plc
 Green Cross Cell corporat
 Incyte Corporation
 Spectrum Pharmaceuticals,
 ViroMed Co., Ltd.

GICS 352020

BINEX Co., Ltd.
 CMG Pharmaceutical Co., L
 Impax Laboratories, Inc.
 JW Holdings Corporation
 JW Pharmaceutical
 Corpora
 JW Shinyak Corporation
 Komipharm International C
 Lotus Pharmaceutical Co.,
 Sequent Scientific Limite
 Teligent, Inc.
 Valeant Pharmaceuticals I
 Vectura Group plc

GICS 401010

Ameris Bancorp
 Chemical Financial Corpor
 Customers Bancorp, Inc.
 DGB Financial Group Co.,
 Fidelity Southern Corpora
 OFG Bancorp
 PT Bank Danamon
 Indonesia
 Southside Bancshares, Inc
 Sterling Bancorp
 The Royal Bank of Scotlan
 UniCredit S.p.A.
 Unione di Banche Italiane

GICS 402030

AURELIUS Equity Opportuni
 Canaccord Genuity Group I
 DeA Capital S.p.A.
 HMC Investment Securities
 Investment Technology
 Gro
 Man Group plc
 SK Securities Co., Ltd.
 SPARX Group Co., Ltd
 TMX Group Limited

GICS 45

3D Systems Corporation
 Acer Incorporated
 Advanced Micro Devices, I
 Advantest Corporation
 Ascom Holding AG
 Asia Optical Co., Inc.
 Aspen Technology, Inc.
 AU Optronics Corp.
 Autodesk, Inc.
 BlackBerry Limited
 Bottomline Technologies (
 Ciena Corporation
 CMC Magnetics
 Corporation
 Cohu, Inc.
 Cypress Semiconductor
 Cor
 Darwin Precisions Corpora
 D-Link Corporation
 DXC Technology Company
 E Ink Holdings Inc.
 EPISTAR corporation
 Extreme Networks, Inc.
 Gartner, Inc.
 Gigastorage Corporation
 Gintech Energy Corporatio
 HannStar Display Corporat
 Hansol Technics Co., Ltd.
 Harmonic Inc.
 HCL Technologies Limited
 Hosiden Corporation
 HP Inc.
 ILJIN Materials Co., Ltd.
 Indra Sistemas, S.A.
 Infinera Corporation
 Innolux Corporation
 Itron, Inc.
 Jusunng Engineering Co., L
 L&F Co., Ltd.
 Lattice Semiconductor Cor
 Leyou Technologies Holdin
 LivePerson, Inc.
 MaxLinear, Inc.
 MoneyGram International,
 Motech Industries, Inc.
 Motorola Solutions, Inc.
 Nan Ya Printed Circuit Bo
 Nanjing Panda Electronics
 Nanya Technology
 Corporat
 NEXTDC Limited
 Nintendo Co., Ltd.
 Nokia Corporation
 Otello Corporation ASA
 REC Silicon ASA
 RITEK Corporation
 Salesforce.com, inc.
 Samsung SDI Co., Ltd.
 SFA Semicon Co., Ltd.
 Sierra Wireless, Inc.
 Sino-American Silicon Pro

Sumco Corporation
 SunPower Corporation
 Super Micro Computer, Inc
 Syntel, Inc.
 Take-Two Interactive Soft
 Toshiba Tec Corporation
 Tower Semiconductor Ltd.
 TTM Technologies, Inc.
 ULVAC, Inc.
 Unisys Corporation
 Veeco Instruments Inc.
 VeriFone Systems, Inc.
 VeriSign, Inc.
 WeMade Entertainment
 Co.,

GICS 4510

Aspen Technology, Inc.
 Autodesk, Inc.
 BlackBerry Limited
 Bottomline Technologies (
 DXC Technology Company
 Gartner, Inc.
 HCL Technologies Limited
 Indra Sistemas, S.A.
 Leyou Technologies Holdin
 LivePerson, Inc.
 MoneyGram International,
 NEXTDC Limited
 Nintendo Co., Ltd.
 Otello Corporation ASA
 Salesforce.com, inc.
 Syntel, Inc.
 Take-Two Interactive Soft
 Unisys Corporation
 VeriSign, Inc.
 WeMade Entertainment
 Co.,

GICS 451020

DXC Technology Company
 Gartner, Inc.
 HCL Technologies Limited
 Indra Sistemas, S.A.
 MoneyGram International,
 Syntel, Inc.
 Unisys Corporation

GICS 451030

Aspen Technology, Inc.
 Autodesk, Inc.
 BlackBerry Limited
 Bottomline Technologies (
 Leyou Technologies Holdin
 Nintendo Co., Ltd.
 Salesforce.com, inc.
 Take-Two Interactive Soft
 WeMade Entertainment
 Co.,

GICS 4520

3D Systems Corporation
 Acer Incorporated
 Ascom Holding AG
 Asia Optical Co., Inc.
 AU Optronics Corp.
 Ciena Corporation
 CMC Magnetics Corporation
 D-Link Corporation
 E Ink Holdings Inc.
 Extreme Networks, Inc.
 HannStar Display Corporat
 Harmonic Inc.
 Hosiden Corporation
 HP Inc.
 ILJIN Materials Co., Ltd.
 Infinera Corporation
 Innolux Corporation
 Itron, Inc.
 L&F Co., Ltd.
 Nan Ya Printed Circuit Bo
 Nanjing Panda Electronics
 Nokia Corporation
 RITEK Corporation
 Sierra Wireless, Inc.
 Super Micro Computer, Inc
 Toshiba Tec Corporation
 TTM Technologies, Inc.
 VeriFone Systems, Inc.

GICS 452010

Ascom Holding AG
 Ciena Corporation
 D-Link Corporation
 Extreme Networks, Inc.
 Harmonic Inc.
 Infinera Corporation
 Nokia Corporation
 Sierra Wireless, Inc.

GICS 452020

3D Systems Corporation
 Acer Incorporated
 CMC Magnetics Corporation
 HP Inc.
 RITEK Corporation
 Super Micro Computer, Inc
 Toshiba Tec Corporation

GICS 452030

Asia Optical Co., Inc.
 AU Optronics Corp.
 E Ink Holdings Inc.
 HannStar Display Corporat
 Hosiden Corporation
 ILJIN Materials Co., Ltd.
 Innolux Corporation
 Itron, Inc.
 L&F Co., Ltd.
 Nan Ya Printed Circuit Bo

TTM Technologies, Inc.

GICS 4530

Advanced Micro Devices, I
 Advantest Corporation
 Cohu, Inc.
 Cypress Semiconductor Cor
 Darwin Precisions Corpora
 EPISTAR corporation
 Gigastorage Corporation
 Gintech Energy Corporatio
 Hansol Technics Co., Ltd.
 Jusung Engineering Co., L
 Lattice Semiconductor Cor
 MaxLinear, Inc.
 Motech Industries, Inc.
 Nanya Technology Corporat
 REC Silicon ASA
 SFA Semicon Co., Ltd.
 Sino-American Silicon Pro
 Sumco Corporation
 SunPower Corporation
 Tower Semiconductor Ltd.
 ULVAC, Inc.
 Veeco Instruments Inc.

GICS 50

Asia Pacific Telecom Co.,
 Axtel, S.A.B. de C.V.
 Cogent Communications Hol
 Frontier Communications C
 GCI Liberty, Inc.
 Global Telecom Holding S.
 Japan Communications Inc.
 ORBCOMM Inc.
 Reliance Communications L
 Sejong Telecom, Inc.
 Tata Communications Limit
 Telecom Italia S.p.A.
 True Corporation Public C
 Vocus Group Limited
 Vodafone Qatar Q.S.C.
 Windstream Holdings, Inc.

GICS 501010

Asia Pacific Telecom Co.,
 Axtel, S.A.B. de C.V.
 Cogent Communications Hol
 Frontier Communications C
 GCI Liberty, Inc.
 ORBCOMM Inc.
 Sejong Telecom, Inc.
 Telecom Italia S.p.A.
 Vocus Group Limited
 Windstream Holdings, Inc.

GICS 55

Adani Power Limited
 Atlantic Power Corporatio
 Boralex Inc.
 Centrais Elétricas Brasil
 China Datang Corporation
 China Longyuan Power Grou
 China Water Industry Grou
 E.ON SE
 ENGIE SA
 Falck Renewables S.p.A.
 First Philippine Holdings
 FirstEnergy Corp.
 Hokkaido Electric Power C
 Hokuriku Electric Power C
 Huadian Energy Company Li
 Huadian Fuxin Energy Corp
 Huaneng Renewables Corpor
 Hyflux Ltd
 Infigen Energy
 Innergex Renewable Energy
 Just Energy Group Inc.
 Korea Gas Corporation
 Kyushu Electric Power Com
 Lopez Holdings Corporatio
 NRG Energy, Inc.
 Public Power Corporation
 RWE Aktiengesellschaft
 Shanghai Lingyun Industri
 Shikoku Electric Power Co
 Superblock Public Company
 Superior Plus Corp.
 Taiwan Cogeneration Corpo
 The Chugoku Electric Powe
 The Kansai Electric Power
 The Tata Power Company Li
 Tohoku Electric Power Com
 Tokyo Electric Power Comp
 TransAlta Corporation

GICS 551010

Centrais Elétricas Brasil
 First Philippine Holdings
 FirstEnergy Corp.
 Hokkaido Electric Power C
 Hokuriku Electric Power C
 Kyushu Electric Power Com
 Public Power Corporation
 Shikoku Electric Power Co
 The Chugoku Electric Powe
 The Kansai Electric Power
 The Tata Power Company Li
 Tohoku Electric Power Com
 Tokyo Electric Power Comp

GICS 551050

Adani Power Limited
Atlantic Power Corporatio
Boralex Inc.
China Datang Corporation
China Longyuan Power
Grou
Falck Renewables S.p.A.
Huadian Energy Company
Li
Huadian Fuxin Energy Corp
Huaneng Renewables
Corpor
Infigen Energy
Innergex Renewable Energy
Lopez Holdings Corporatio
NRG Energy, Inc.
Shanghai Lingyun Industri
Superblock Public
Company
Taiwan Cogeneration
Corpo
TransAlta Corporation

GICS 601010

Beni Stabili SpA SIIQ
Cedar Realty Trust, Inc.
Crombie Real Estate Inves
DDR Corp.
Dream Global Real Estate
Hyprop Investments Limite
IGB Real Estate Investmen
Kenedix Residential Inves
Kite Realty Group Trust
Pavilion Real Estate Inve
Pennsylvania Real Estate
Pure Industrial Real Esta
Resilient REIT Limited
SBA Communications
Corpor
Starhill Global Real Esta
Summit Hotel Properties,
Taubman Centers, Inc.

GICS 601020

Altus Group Limited
Forestar Group Inc.
Glorious Property Holding
Jerusalem Economy Ltd.
Norstar Holdings Inc.
Realia Business, S.A.
Shenzhen Wongtee
Internat
Singha Estate Public Comp
Tricon Capital Group Inc.

Appendix E:

GICS Codes in which Companies (Main Set) are Included, World

In Appendix E, a listing of the GICS codes in which each of the companies in the main set of "healthy" companies in the World region in the *2017 Valuation Handbook – International Industry Cost of Capital* Semi-annual Update (data through September 30, 2017) is presented.

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361 Degrees International Limited	25	2520	252030	Acorda Therapeutics, Inc.	35	3520	352010
3i Group plc			402030	ACS, Actividades de Construcción	20	2010	201030
888 Holdings plc	25	2530	253010	Activision Blizzard, Inc.	45	4510	451030
8x8, Inc.	45	4510	451030	Actron Technology Corporation	25	2510	251010
A. O. Smith Corporation	20	2010	201020	Acuity Brands, Inc.	20	2010	201040
A.P. Møller - Mærsk A/S	20	2030		Acxiom Corporation	45	4510	451020
A2A S.p.A.	55			Adani Enterprises Limited	20	2010	201070
AAK AB (publ.)	30	3020	302020	Adani Ports and Special Economic Zone Limited	20	2030	203050
AAON, Inc.	20	2010	201020	Adastra Co., Ltd.	25	2550	255040
AAR Corp.	20	2010	201010	ADATA Technology Co., Ltd.	45	4530	
Aareal Bank AG			401020	Adcock Ingram Holdings Limited	35	3520	352020
Aaron's, Inc.	25	2550	255040	ADDCN Technology Co., Ltd.	45	4510	451010
Aarti Industries Limited	15	1510	151010	Adecco Group AG	20	2020	202020
AB Electrolux (publ.)	25	2520	252010	Adelaide Brighton Limited	15	1510	151020
AB Volvo (publ.)	20	2010	201060	Adidas AG	25	2520	252030
Abaxis, Inc.	35	3510	351010				
ABC Arbitrage SA			402010	ADLER Real Estate AG			601020
Abcam Plc	35	3520	352010	ADLINK Technology, Inc.	45	4520	452020
ABC-Mart, Inc.	25	2550	255040				
Abercrombie & Fitch Co.	25	2550	255040	Admiral Group plc			403010
Abertis Infraestructuras, S.A.	20	2030	203050	Adobe Systems Incorporated	45	4510	451030
ABIOMED, Inc.	35	3510	351010				
Able C&C Co., Ltd.	30	3030	303020	Adtalem Global Education Inc.	25	2530	253020
				ADTRAN, Inc.	45	4520	452010
ABM Industries Incorporated	20			ADVA Optical Networking SE	45	4520	452010
Aboitiz Equity Ventures, Inc.	20	2010	201050	Advan Co., Ltd.	20	2010	201070
Aboitiz Power Corporation	55		551050	Advance Auto Parts, Inc.	25	2550	255040
Abu Dhabi Commercial Bank PJSC			401010	Advance Residence Investment Corporation			601010
Acadia Healthcare Company, Inc.	35	3510	351020	Advanced Ceramic X Corporation	45	4520	452010
Acadia Realty Trust			601010	Advanced Energy Industries, Inc.	45	4530	
AcBel Polytech Inc.	20	2010	201040	Advanced Info Service Public Company Limited	50		501020
				Advanced Medical Solutions Group plc	35	3510	
ACC Limited	15	1510	151020	Advanced Semiconductor Engineering, Inc.	45		
Accell Group N.V.	25	2520	252020	Advanced Wireless Semiconductor Co	45	4530	
Accent Group Limited	25	2550	255040	Advantech Co., Ltd.	45	4520	452020
ACCO Brands Corporation	20	2020	202010	ADvTECH Limited	25	2530	253020
Accor SA	25	2530	253010	AECOM	20	2010	201030
Accton Technology Corporation	45	4520	452010				
ACEA S.p.A.	55			Aecon Group Inc.	20	2010	201030
				Aedifica SA			601010
Acerinox, S.A.	15	1510	151040	Aegean Airlines S.A.	20	2030	203020
ACI Worldwide, Inc.	45	4510	451030				
Ackermans & Van Haaren NV			402010				
Acom Co., Ltd.			402020				

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Aegion Corporation	20	2010	201030				
Aegis Logistics Limited	10	1010	101020	Air China Limited	20	2030	203020
AEGON N.V.			403010	Air Liquide, société anonyme	15	1510	151010
AEON Credit Service (M) Berhad			402020	Air New Zealand Limited	20	2030	203020
Aeon Delight Co., Ltd.	20			Air Products and Chemicals, Inc.	15	1510	151010
Aeon Fantasy Co., Ltd.	25	2530	253010	Air Transport Services Group, Inc.	20	2030	
AEON Financial Service Co., Ltd.			402020	AirAsia Berhad	20	2030	203020
AEON Mall Co., Ltd.			601020	Airbus SE	20	2010	201010
Aéroports de Paris SA	20	2030	203050	Aircastle Limited	20	2010	201070
AeroVironment, Inc.	20	2010	201010	Airport City Ltd.			601020
AES Gener S.A.	55		551050	Airports of Thailand Public Company Limited	20	2030	203050
ÅF AB (publ)	20	2020	202020	AirTAC International Group	20	2010	201060
Affiliated Managers Group, Inc.			402030	Aisan Industry Co., Ltd.	25	2510	251010
Aflac Incorporated			403010	Aisin Seiki Co., Ltd.	25	2510	251010
Africa Israel Properties Ltd			601020	Ajanta Pharma Limited	35	3520	352020
African Rainbow Minerals Limited	15	1510	151040	Ajinomoto Co., Inc.	30	3020	302020
AGCO Corporation	20	2010	201060	AK Holdings, Inc.	15	1510	151010
ageas SA/NV			403010	Akamai Technologies, Inc.	45	4510	451010
AGF Management Limited			402030	Akbank T.A.S.			401010
Aggreko plc	20			Akçansa Çimento Sanayi ve Ticaret A.S.	15	1510	151020
Agile Group Holdings Limited			601020	Akorn, Inc.	35	3520	352020
Agilent Technologies, Inc.	35	3520	352030	Aksa Akrilik Kimya Sanayii A.S.	25	2520	252030
AGL Energy Limited	55		551030	Aktiebolaget Industrivärden			402010
Agree Realty Corporation			601010	Akzo Nobel India Limited	15	1510	151010
Agricultural Bank of China Limited			401010	Akzo Nobel N.V.	15	1510	151010
Agrium Inc.	15	1510	151010	Al Meera Consumer Goods Company Q.S.C.	30	3010	
Agthia Group PJSC	30	3020	302020	Al Waha Capital PJSC			402010
Aguas Andinas S.A.	55		551040	Alamo Group Inc.	20	2010	201060
AhnLab, Inc.	45	4510	451010	Alaris Royalty Corp.			402030
Ai Holdings Corporation	45	4520		Albaraka Turk Katilim Bankasi A.S.			401010
AIA Engineering Limited	20	2010	201060	Albemarle Corporation	15	1510	151010
AIA Group Limited			403010	Albioma	55		551050
Aichi Corporation	20	2010	201060	Aldar Properties PJSC			601020
Aichi Steel Corporation	15	1510	151040	Alembic Pharmaceuticals Limited	35	3520	352020
Aida Engineering, Ltd.	20	2010	201060	Alexander's, Inc.			601010
Aiful Corporation			402020	Alexandria Mineral Oils Company	15	1510	151010
Ain Holdings Inc.	30	3010		Alexandria Real Estate Equities, Inc.			601010
Ainsworth Game Technology Limited	25	2530	253010	Alexion Pharmaceuticals, Inc.	35	3520	352010
Air Arabia PJSC	20	2030	203020	Alfa Laval AB (publ)	20	2010	201060
				Alfresa Holdings Corporation	35	3510	351020
				Algonquin Power & Utilities Corp.	55		551050

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Aliansce Shopping Centers S.A.			601020	Amara Raja Batteries Limited	20	2010	201040
Align Technology, Inc.	35	3510	351010	Amazon.com, Inc.	25	2550	255020
Alimentation Couche-Tard Inc.	30	3010		Ambev S.A.	30	3020	302010
ALK-Abelló A/S	35	3520	352020	Ambu A/S	35	3510	351010
Allcargo Logistics Limited	20	2030	203010	Ambuja Cements Limited	15	1510	151020
Alleghany Corporation			403010	Ancor Limited	15	1510	151030
Allegiant Travel Company	20	2030	203020	Amer Sports Corporation	25	2520	
ALLETE, Inc.	55			AMERCO	20	2030	203040
Alliant Energy Corporation	55		551010	Ameren Corporation	55		
Allianz SE			403010	América Móvil, S.A.B. de C.V.	50		501020
Allied Properties Real Estate Investment Trust			601010	American Assets Trust, Inc.			601010
Allreal Holding AG			601020	American Campus Communities, Inc.			601010
Alm. Brand A/S			403010	American Eagle Outfitters, Inc.	25	2550	255040
Almacenes Éxito S.A.	30	3010		American Electric Power Company, Inc.	55		551010
Almirall, S.A.	35	3520	352020	American Equity Investment Life Holding Company			403010
Almost Family, Inc.	35	3510	351020	American Express Company			402020
Alony-Hetz Properties & Investments Ltd			601020	American Financial Group, Inc.			403010
Alpargatas S.A.	25	2520	252030	American International Group, Inc.			403010
Alpen Co., Ltd.	25	2550	255040	American National Insurance Company			403010
Alpha Networks Inc.	45	4520	452010	American Outdoor Brands Corporation	25	2520	252020
Alphabet Inc.	45	4510	451010	American Public Education, Inc.	25	2530	253020
Alpine Electronics, Inc.	25	2520	252010	American Railcar Industries, Inc.	20	2010	
Alps Electric Co., Ltd.	45	4520		American States Water Company	55		551040
ALS Limited	20	2020	202020	American Vanguard Corporation	15	1510	151010
Alea, S.A.B. De C.V.	25	2530	253010	American Water Works Company, Inc.	55		551040
Alstom SA	20	2010	201060	American Woodmark Corporation	20	2010	201020
alstria office REIT-AG			601010	Amerisafe, Inc.			403010
AltaGas Ltd.	10	1010	101020	AmerisourceBergen Corporation	35	3510	351020
Altamir SCA			402030	Amerisur Resources PLC	10	1010	101020
Alten SA	45	4510	451020	Amgen Inc.	35	3520	352010
Altium Limited	45	4510	451030	Amkor Technology, Inc.	45	4530	
Altran Technologies S.A.	45	4510	451020	AMN Healthcare Services, Inc.	35	3510	351020
Altri, S.G.P.S., S.A.	15	1510	151050	Amorepacific Corporation	30	3030	303020
Altria Group, Inc.	30	3020	302030	AmorePacific Group	30	3030	303020
Amada Holdings Co., Ltd.	20	2010	201060	Amot Investment Ltd			601020
Amadeus FiRe AG	20	2020	202020	AMP Limited			402010
Amadeus IT Group, S.A.	45	4510	451020	Amphenol Corporation	45	4520	452030
AMAG Pharmaceuticals, Inc.	35	3520	352010				

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Amplifon SpA	35	3510	351020	ARB Corporation Limited	25	2510	251010
ams AG	45	4530		ARC Resources Ltd.	10	1010	101020
AmTRAN Technology Co.,Ltd	25	2520	252010	Arca Continental, S. A. B. de C. V.	30	3020	302010
AMUSE Inc.	25	2540		ARCADIS NV	20	2010	201030
ANA Holdings Inc.	20	2030		Arcadyan Technology Corporation	45	4520	452010
Anadolu Anonim Türk Sigorta Sirketi			403010	Arcam AB (publ)	20	2010	201060
Anadolu Efes Biracilik ve Malt Sanayii Anonim Sirketi	30	3020	302010	ArcBest Corporation	20	2030	
Anadolu Hayat Emeklilik Anonim Sirket			403010	Arçelik Anonim Sirketi	25	2520	252010
Analog Devices, Inc.	45	4530		Archer-Daniels-Midland Company	30	3020	302020
Andhra Bank			401010	Arcland Sakamoto Co., Ltd.	25	2550	255040
Andritz AG	20	2010		Arcland Service Holdings Co., Ltd.	25	2530	253010
ANEST IWATA Corporation	20	2010	201060	ARCS Company Limited	30	3010	
ANF Immobilier			601010	Ardentec Corporation	45	4530	
AngloGold Ashanti Limited	15	1510	151040	ARDEPRO Co., Ltd.			601020
Anheuser-Busch InBev SA/NV	30	3020	302010	Arezzo Indústria e Comércio S.A.	25	2520	252030
Anhui Conch Cement Company Limited	15	1510	151020	Argosy Property Limited			601010
Anhui Expressway Company Limited	20	2030	203050	ARIAKE JAPAN Co., Ltd.	30	3020	302020
Anhui Gujing Distillery Co., Ltd.	30	3020	302010	Aristocrat Leisure Limited	25	2530	253010
Anicom Holdings, Inc.			403010	Arkema S.A.	15	1510	
Anika Therapeutics, Inc.	35	3510	351010	Armstrong World Industries, Inc.	20	2010	201020
Anritsu Corporation	45	4520	452030	Arrow Electronics, Inc.	45	4520	452030
Ansaldo STS S.p.A.	20	2030	203050	Arrowhead Properties Limited			601010
Ansys, Inc.	45	4510	451030	Arthur J. Gallagher & Co.			403010
ANTA Sports Products Limited	25	2520	252030	Artis Real Estate Investment Trust			601010
Antofagasta plc	15	1510	151040	Arvind Limited	25	2520	252030
Anton Oilfield Services Group	10	1010	101010	As One Corp.	35	3510	351020
AOKI Holdings Inc.	25			Asahi Co., Ltd.	25	2550	255040
Aoyama Trading Co., Ltd.	25	2550	255040	Asahi Diamond Industrial Co., Ltd.	20	2010	201060
Aozora Bank, Ltd.			401010	Asahi Glass Co., Ltd.	20	2010	
AP (Thailand) Public Company Limited			601020	Asahi Group Holdings, Ltd.	30	3020	302010
APA Group	55		551020	Asahi Holdings, Inc.	15	1510	151040
Apartment Investment and Management Company			601010	Asahi Intecc Co., Ltd.	35	3510	351010
APG SGA SA	25	2540		Asahi Kasei Corporation	15	1510	
Apogee Enterprises, Inc.	20			Asatsu-DK Inc.	25	2540	
Apollo Tyres Limited	25	2510	251010	Asbury Automotive Group, Inc.	25	2550	255040
Apple Inc.	45	4520	452020	Ascendas Real Estate Investment Trust			601010
Applied Industrial Technologies, Inc.	20	2010	201070	Ascopiave S.p.A.	55		551020
Applied Materials, Inc.	45	4530		Ashland Global Holdings Inc.	15	1510	151010
APT Satellite Holdings Limited	50		501010				
Aqua America, Inc.	55		551040				

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Ashmore Group PLC			402030			
Ashok Leyland Limited	20	2010	201060	athenahealth, Inc.	35	3510 351030
Ashoka Buildcon Limited	20	2010	201030	Athens Water Supply and Sewerage	55	551040
Ashtead Group plc	20	2010	201070	Atlantia S.p.A.	20	2030 203050
Asia Cement (China) Holdings Corporation	15	1510	151020	Atlas Air Worldwide Holdings, Inc.	20	
Asia Cement Corporation	15	1510	151020	Atlas Copco AB	20	2010 201060
Asia Polymer Corporation	15	1510	151010	Atmos Energy Corporation	55	551020
Asia Vital Components Co., Ltd.	45	4520	452020	ATN International, Inc.	50	
Asian Paints Limited	15	1510	151010	ATOM Corporation	25	2530 253010
ASICS Corporation	25	2520	252030	Atresmedia Corporación de Medios de Comunicación, S.A.	25	2540
ASKA Pharmaceutical Co., Ltd.	35	3520	352020	Atria Oyj	30	3020 302020
ASKUL Corporation	25	2550	255020	ATS Automation Tooling Systems Inc.	20	2010 201060
ASM International NV	45	4530		Atwood Oceanics, Inc.	10	1010 101010
ASM Pacific Technology Limited	45	4530		Auckland International Airport Limited	20	2030 203050
ASML Holding N.V.	45	4530		Aurizon Holdings Limited	20	2030 203040
Aspen Insurance Holdings Limited			403010	Aurobindo Pharma Limited	35	3520 352020
Aspen Pharmacare Holdings Limited	35	3520	352020	Aurubis AG	15	1510 151040
ASSA ABLOY AB (publ)	20	2010	201020	AusNet Services Ltd	55	551010
Asseco Poland S.A.	45	4510	451030	Austral Limited	20	2010 201010
Assicurazioni Generali S.p.A.			403010	Austevoll Seafood ASA	30	3020 302020
Associated Banc-Corp			401010	Australian Pharmaceutical Industries Limited	35	3510 351020
Associated British Foods plc	30	3020	302020	Autobacs Seven Co., Ltd.	25	2550 255040
Assore Limited	15	1510	151040	AutoCanada Inc.	25	2550 255040
Assura Plc			601010	Autogrill S.p.A.	25	2530 253010
Assurant, Inc.			403010	Autoliv, Inc.	25	2510 251010
Assystem SA	20	2020	202020	Automatic Data Processing, Inc.	45	4510 451020
Astaldi S.p.A.	20	2010	201030	Automotive Holdings Group Limited	25	2550 255040
Astec Industries, Inc.	20	2010	201060	AutoNation, Inc.	25	2550 255040
Astellas Pharma Inc.	35	3520	352020	Autoneum Holding AG	25	2510 251010
ASTM S.p.A.	20	2030	203050	AvalonBay Communities, Inc.		601010
Astoria Financial Corporation			401020	Avanza Bank Holding AB (publ)		402030
Astral Foods Limited	30	3020	302020	Avery Dennison Corporation	15	1510
AstraZeneca PLC	35	3520	352020	AVEVA Group plc	45	4510 451030
Astronics Corporation	20	2010	201010	AVI Limited	30	3020 302020
ASX Limited			402030	AviChina Industry & Technology Company Limited	20	2010 201010
AT & S Aktiengesellschaft	45	4520	452030	Avigilon Corporation	45	4520 452030
ATCO Ltd.	55		551030	Avista Corporation	55	551030
Atea ASA	45	4510	451020	Aviva plc		403010
Ateam Inc.	45	4510	451010			
Aten International CO., Ltd.	45	4520	452020			

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Avnet, Inc.	45	4520	452030	Bangkok Aviation Fuel Serv.	20	2030	203050
AVX Corporation	45	4520	452030	Bangkok Bank Public Company Limited			401010
AXA SA			403010	Bangkok Chain Hospital Public Co.	35	3510	351020
Axel Springer SE	25	2540		Bangkok Dusit Medical Services Public Company Limited	35	3510	351020
Axfood AB (publ)	30	3010		Bank Handlowy w Warszawie S.A.			401010
Axial Retailing Inc.	30	3010		Bank Hapoalim B.M.			401010
Axiata Group Berhad	50		501020	Bank Leumi le- Israel B.M.			401010
Axis Real Estate Investment Trust			601010	Bank Millennium S.A.			401010
Axon Enterprise, Inc.	20	2010	201010	Bank Mutual Corporation			401020
Axway Software SA	45	4510	451030	Bank of Communications Co., Ltd.			401010
Ayala Land, Inc.			601020	Bank of Hawaii Corporation			401010
Aygaz Anonim Sirketi	55		551020	Bank of Kaohsiung Co., Ltd.			401010
Azbil Corporation	45	4520	452030	Bank of Montreal			401010
Azimut Holding S.p.A.			402030	Bank of Queensland Limited			401010
Azrieli Group Ltd			601020	Bank of The Ryukyus, Limited			401010
B&G Foods, Inc.	30	3020	302020	Bank Zachodni WBK S.A.			401010
Babcock International Group plc	20			Banner Corporation			401010
Badger Daylighting Ltd.	20	2010	201030	Banpu Public Company Limited	10	1010	101020
Badger Meter, Inc.	45	4520	452030	Banregio Grupo Financiero, S.A.B de C.V.			401010
BAE Systems plc	20	2010	201010	Barco NV	45	4520	452030
Bajaj Auto Limited	25	2510	251020	Barnes Group Inc.	20	2010	201060
Bajaj Corp Limited	30	3030	303020	Barratt Developments plc	25	2520	252010
Bajaj Finance Limited			402020	Barry Callebaut AG	30	3020	302020
Balkrishna Industries Limited	25	2510	251010	Barwa Real Estate Company Q.P.S.C.			601020
Ball Corporation	15	1510	151030	BASF India Limited	15	1510	151010
Bâloise Holding AG			403010	BASF SE	15	1510	151010
Balrampur Chini Mills Limited	30	3020	302020	Basso Industry Corp.	25	2520	252010
Banca Generali S.p.A.			402030	Bata India Limited	25	2520	252030
Banca IFIS S.p.A.			402010	Baxter International Inc.	35	3510	
Banco ABC Brasil S.A.			401010	Bayer CropScience Limited	15	1510	151010
Banco Bilbao Vizcaya Argentaria			401010	Bayerische Motoren Werke Aktienges	25	2510	251020
Banco Bradesco S.A.			401010	Bayside Land Corporation Ltd			601020
Banco de Chile			401010	BBA Aviation plc	20	2030	203050
Banco de Crédito e Inversiones			401010	BCE Inc.	50		501010
Banco de Sabadell, S.A.			401010	BDO Unibank, Inc.			401010
Banco do Brasil S.A.			401010	BE Semiconductor Industries N.V.	45	4530	
Banco do Estado do Rio Grande do Sul S.A.			401010	Beacon Roofing Supply, Inc.	20	2010	201070
Banco Santander, S.A.			401010				
Banco Santander-Chile			401010				
Bancolombia S.A.			401010				

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Beazer Homes USA, Inc.	25	2520	252010	Biesse S.p.A.	20	2010	201060
Beazley plc			403010	Big 5 Sporting Goods Corporation	25	2550	255040
BEC World Public Company Limited	25	2540		Big Lots, Inc.	25	2550	255030
Becton, Dickinson and Company	35			BIG Shopping Centers Ltd			601020
Bed Bath & Beyond Inc.	25	2550	255040	Big Yellow Group Plc			601010
Bega Cheese Limited	30	3020	302020	Biglari Holdings Inc.	25	2530	253010
Beiersdorf Aktiengesellschaft	30	3030	303020	Bijou Brigitte modische Accessoires Aktiengesellschaft	25	2520	252030
Beijing Capital International Airport Company Limited	20	2030	203050	Bilfinger SE	20	2020	202010
Beijing Capital Land Ltd.			601020	Bilia AB	25	2550	255040
Beijing Enterprises Water Group	55		551040	BillerudKorsnäs AB (publ)	15	1510	151030
Beijing North Star Company Limited			601020	BIM Birlesik Magazalar A.S.	30	3010	
Belc CO., LTD.	30	3010		BinckBank N.V.			402030
Belden Inc.	45	4520		Binggrae Co., Ltd.	30	3020	302020
Bell Food Group AG	30	3020	302020	Biocon Limited	35	3520	
Belluna Co., Ltd.	25	2550	255020	BioGaia AB	35	3520	352010
Bellway p.l.c.	25	2520	252010	Biogen Inc.	35	3520	352010
Bemis Company, Inc.	15	1510	151030	Bio-Rad Laboratories, Inc.	35		
BEML Limited	20	2010	201060	Bio-Techne Corporation	35	3520	352030
Benchmark Electronics, Inc.	45	4520	452030	Bioteque Corporation	35	3510	351010
Benefit One Inc.	20	2020	202020	Biotest Aktiengesellschaft	35	3520	352010
Benesse Holdings, Inc.	25	2530	253020	Birchcliff Energy Ltd.	10	1010	101020
Bénéteau S.A.	25	2520	252020	Bird Construction Inc.	20	2010	201030
Berendsen plc	20	2020	202010	Bizlink Holding Inc.	20	2010	201040
Bergman & Beving AB	20	2010	201070	BJ's Restaurants, Inc.	25	2530	253010
Berjaya Sports Toto Berhad	25			BKW AG	55		
Berli Jucker Public Company Limited	20	2010	201050	Black Hills Corporation	55		
Bertrandt Aktiengesellschaft	20	2020	202020	Blackbaud, Inc.	45	4510	451030
BES Engineering Corporation	20	2010	201030	Blackmores Limited	30	3030	303020
Best Buy Co., Inc.	25	2550	255040	BlackRock, Inc.			402030
Bet-At-Home.com AG	25	2530	253010	Blucora, Inc.	45	4510	451010
Betsson AB	25	2530	253010	Blue Dart Express Limited	20	2030	203010
Bezeq The Israel Telecommunication Corporation Limited	50		501010	Blue Label Telecoms Limited	20	2020	202010
Bharat Forge Limited	25	2510	251010	Blue Square Real Estate Ltd.			601020
Bharat Heavy Electricals Limited	20	2010	201040	BML, Inc.	35	3510	351020
Bharat Petroleum Corporation Limited	10	1010	101020	BNK Financial Group Inc.			401010
Bharti Airtel Limited	50		501020	Boardwalk Real Estate Investment Trust			601010
BHP Billiton Limited	15	1510	151040	Bob Evans Farms, Inc.	30	3020	302020
Bic Camera Inc.	25	2550	255040	Bobst Group SA	20	2010	201060
				BOC Hong Kong (Holdings) Limited			401010

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Bodycote plc	20	2010		British Land Company Plc			601010
Boer Power Holdings Limited	20	2010	201040	Britvic Plc	30	3020	302010
Bofl Holding, Inc.			401020	Broadcom Limited	45	4530	
Boiron SA	35	3520	352020	Broadridge Financial Solutions, Inc.	45	4510	451020
Boliden AB	15	1510	151040	Brocade Communications Systems	45	4520	452010
Bollore	20	2030	203010	Bronco Billy Co., Ltd.	25	2530	253010
Bolsa Mexicana de Valores, S.A.B. de C.V.			402030	Brookfield Asset Management Inc.			402030
Bolsas y Mercados Españ., Soc.			402030	Brookline Bancorp, Inc.			401010
Bonduelle SA	30	3020	302020	Brooks Automation, Inc.	45	4530	
Bonterra Energy Corp	10	1010	101020	Brother Industries, Ltd.	45		
Booker Group PLC	30	3010		Brown & Brown, Inc.			403010
Booking Holdings Inc.	25	2550	255020	Brown-Forman Corporation	30	3020	302010
Boral Limited	15	1510	151020	Bruker Corporation	35	3520	352030
BorgWarner Inc.	25	2510	251010	Brunel International N.V.	20	2020	202020
Borussia Dortmund GmbH & Co. Kommanditgesellschaft auf Aktien	25	2540		BRUNELLO CUCINELLI S.p.A.	25	2520	252030
Boryszew S.A.	15	1510	151040	Brunswick Corporation	25		
Boryung Pharmaceutical Co., Ltd.	35	3520	352020	BT Group plc	50		501010
Bosch Limited	25	2510	251010	BT Investment Management Limited			402030
Bosideng International Holdings Limited	25	2520	252030	BTG plc	35	3520	352020
Bossard Holding AG	20	2010	201070	Bucher Industries AG	20	2010	201060
Boston Properties, Inc.			601010	Budimex SA	20	2010	201030
Bovis Homes Group PLC	25	2520	252010	Buffalo Wild Wings, Inc.	25	2530	253010
BP p.l.c.	10	1010	101020	Bukwang Pharmaceutical Co., Ltd.	35	3520	352020
BPER Banca S.p.A.			401010	Bumitama Agri Ltd.	30	3020	302020
BR Malls Participações S.A.			601020	Bumrungrad Hospital Public Company Limited	35	3510	351020
BR Properties S.A.			601020	Bunge Limited	30	3020	302020
Brambles Limited	20	2020	202010	Bunka Shutter Co., Ltd.	20	2010	201020
Braskem S.A.	15	1510	151010	Bunzl plc	20	2010	201070
Brembo S.p.A.	25	2510	251010	Burberry Group plc	25	2520	252030
Brenntag AG	20	2010	201070	Burckhardt Compression Holding AG	20	2010	201060
Breville Group Limited	25	2520	252010	Bure Equity AB			402030
Brewin Dolphin Holdings PLC			402030	Bureau Veritas SA	20	2020	202020
BRF S.A.	30	3020	302020	Burkhalter Holding AG	20	2010	201030
Brickworks Limited	15	1510	151020	Bursa Malaysia Berhad			402030
Bridgestone Corporation	25	2510	251010				
Bright Smart Securities & Commodities Group Limited			402030				
Bristol-Myers Squibb Company	35	3520	352020				
British American Tobacco Berhad	30	3020	302030				
British American Tobacco p.l.c.	30	3020	302030				

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Buzzi Unicem SpA	15	1510	151020	Calgon Carbon Corporation	15	1510	151010
BWP Trust			601010	California Water Service Group	55		551040
BYD Electronic (International) Co	45	4520	452010	Cal-Maine Foods, Inc.	30	3020	302020
Byggmax Group AB (publ)	25	2550	255040	Caltex Australia Limited	10	1010	101020
Byucksan Corporation	20	2010	201020	Cambrex Corporation	35	3520	352030
C C Land Holdings Limited			601020	Camden Property Trust			601010
C&C Group plc	30	3020	302010	Cameco Corporation	10	1010	101020
C. R. Bard, Inc.	35	3510	351010	Campbell Soup Company	30	3020	302020
C.BANNER INTERNATIONAL Holdings Limited	25	2520	252030	Can Fin Homes Limited			401020
C.H. Robinson Worldwide, Inc.	20	2030		Canadian Apartment Properties Real Estate Investment Trust			601010
C.I. Takiron Corporation	15	1510	151010	Canadian Imperial Bank of Commerce			401010
CA Immobilien Anlagen AG			601020	Canadian National Railway Company	20	2030	203040
CA, Inc.	45	4510	451030	Canadian Natural Resources Limited	10	1010	101020
Cabcharge Australia Limited	20	2020	202010	Canadian Pacific Railway Limited	20	2030	203040
Cabot Corporation	15	1510	151010	Canadian Real Estate Investment Trust			601010
Cabot Microelectronics Corporation	45	4530		Canadian Tire Corporation, Limited	25	2550	255030
Cabot Oil & Gas Corporation	10	1010	101020	Canadian Utilities Limited	55		551030
Cache Logistics Trust			601010	Canadian Western Bank			401010
CACI International Inc	45	4510	451020	Canara Bank			401010
Cadence Design Systems, Inc.	45	4510	451030	Cancom SE	45	4510	451020
Cadila Healthcare Limited	35	3520	352020	Canfor Corporation	15	1510	151050
CAE Inc.	20	2010	201010	Canon Electronics Inc.	45	4520	452030
Café de Coral Holdings Limited	25	2530	253010	Canon Marketing Japan Inc.	25	2550	255010
Cairo Communication S.p.A.	25	2540		Capella Education Company	25	2530	253020
CaixaBank, S.A.			401010	Capgemini SE	45	4510	451020
CalAmp Corp.	45	4520	452010	Capital One Financial Corporation			402020
Calavo Growers, Inc.	30	3020	302020	Capital Power Corporation	55		551050
Calbee, Inc.	30	3020	302020	Capital Securities Corporation			402030
Cal-Comp Electronics (Thailand) Public Company Limited	45	4520	452030	Capital Stage AG	55		551050
Caleres, Inc.	25	2550	255040	CapitaLand Commercial Trust			601010
				CapitaLand Limited			601020
				CapitaLand Malaysia Mall Trust			601010
				CapitaLand Mall Trust			601010
				CapitaLand Retail China Trust			601010
				Capitec Bank Holdings Limited			401010
				CARBO Ceramics Inc.	10	1010	101010
				Cardinal Health, Inc.	35	3510	351020
				Cargotec Corporation	20	2010	201060

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Carillion plc	20			Cellcom Israel Ltd.	50		
Carl Zeiss Meditec AG	35	3510	351010	Celltrion Pharm Inc.	35	3520	352020
Carlsberg A/S	30	3020	302010	Celltrion, Inc.	35	3520	352010
Carlsberg Brewery Malaysia Berhad	30	3020	302010	Cementir Holding S.p.A.	15	1510	151020
CarMax Inc.	25	2550	255040	Cementos Argos S.A.	15	1510	151020
Carnival Corporation	25	2530	253010	Cencosud S.A.	30	3010	
Carpenter Technology Corporation	15	1510	151040	Genovus Energy Inc.	10	1010	101020
Carrefour SA	30	3010		Centene Corporation	35	3510	351020
Carriage Services, Inc.	25	2530	253020	Center Laboratories, Inc.	35	3520	352020
carsales.com Ltd	45	4510		CenterPoint Energy, Inc.	55		
Carter's, Inc.	25	2520		Centerra Gold Inc.	15	1510	151040
Casey's General Stores, Inc.	30	3010		Central China Real Estate Limited			601020
Cashbuild Limited	25	2550	255040	Central Japan Railway Company	20	2030	203040
Casino, Guichard-Perrachon Soc.	30	3010		Central Pacific Financial Corp.			401010
Casio Computer Co., Ltd.	25	2520	252010	Central Pattana Public Company Limited			601020
Cass Information Systems, Inc.	45	4510	451020	Centrica plc	55		551030
Castellum AB			601020	CENTROTEC Sustainable AG	20	2010	201020
Catcher Technology Co., Ltd.	45	4520	452020	Century Plyboards (India) Limited	15	1510	151050
Caterpillar Inc.	20	2010	201060	Century Textiles and Industries Limited	15	1510	
Cathay Financial Holding Co., Ltd.			403010	CenturyLink, Inc.	50		501010
Cathay General Bancorp			401010	Cera Sanitaryware Limited	20	2010	201020
Cathay Real Estate Development Co.,Ltd.			601020	Cerner Corporation	35	3510	351030
Cavco Industries, Inc.	25	2520	252010	CES Energy Solutions Corp.	10	1010	101010
Cawachi Limited	30	3010		CESC Limited	55		551010
CB Industrial Product Holding Berhad	20	2010	201060	CESP - Companhia Energética de São Paulo	55		551050
CBL & Associates Properties, Inc			601010	CEVA, Inc.	45	4530	
CBRE Group, Inc.			601020	CEWE Stiftung & Co. KGaA	20	2020	202010
CBS Corporation	25	2540		CEZ, a. s.	55		
CCC S.A.	25	2520		CF Industries Holdings, Inc.	15	1510	151010
CCL Industries Inc.	15	1510	151030	CG Power and Industrial Solutions Limited	20	2010	
CCR S.A.	20	2030	203050	CGI Group Inc.	45	4510	451020
CD Projekt S.A.	45	4510	451030	CH. Karnchang Public Company Limited	20	2010	201030
CEAT Limited	25	2510	251010				
Cebu Air, Inc.	20	2030	203020				
Cedar Woods Properties Limited			601020				
Celanese Corporation	15	1510	151010				
Celestica Inc.	45	4520	452030				
Celgene Corporation	35	3520	352010				
Cell Biotech Co., Ltd.	35	3520	352010				

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Chailease Holding Company Limited			402010	China Coal Energy Company Limited	10	1010	101020
Challenger Limited			402010	China Communications Construction	20	2010	201030
Changchai Company, Limited	20	2010	201060	China Communications Services Corporation Limited	50		501010
Chaowei Power Holdings Limited	25	2510	251010	China Construction Bank Corp.			401010
Charles River Laboratories International, Inc.	35	3520	352030	China Development Financial Holding Corporation			401010
Charoen Pokphand Enterprise (Taiwan) Co., Ltd.	30	3020	302020	China Dongxiang (Group) Co., Ltd.	25	2520	252030
Charoen Pokphand Foods Public Company Limited	30	3020	302020	China Everbright International Limited	20	2020	
Chart Industries, Inc.	20	2010	201060	China Everbright Limited			402030
Charter Communications, Inc.	25	2540		China Everbright Water Limited	55		551040
Charter Hall Retail Real Estate Investment Trust			601010	China Evergrande Group			601020
Chase Corporation	15	1510	151010	China First Capital Group Limited	25	2510	251010
Chatham Lodging Trust			601010	China Foods Limited	30	3020	302020
Chaun-Choung Technology Corp.	45	4520	452030	China Gas Holdings Limited	55		551020
CHC Resources Corporation	15	1510	151020	China General Plastics Corporation	15	1510	151010
Check Point Software Technologies Ltd.	45	4510	451030	China Gold International Resources Corp. Ltd.	15	1510	151040
Cheil Worldwide Inc.	25	2540		China High Speed Transmission Equipment Group Co., Ltd.	20	2010	201040
Chemring Group plc	20	2010	201010	China Jinmao Holdings Group Limited			601020
Cheng Loong Corporation	15	1510	151030	China Lesso Group Holdings Limited	20	2010	201020
Cheng Shin Rubber Ind. Co., Ltd.	25	2510	251010	China Life Insurance Co., Ltd.			403010
Cheng Uei Precision Industry Co., Ltd.	45	4520	452030	China Life Insurance Company Limited			403010
Chesapeake Lodging Trust			601010	China Lilang Limited	25	2520	252030
Chesapeake Utilities Corporation	55		551020	China Medical System Holdings Limited	35	3520	352020
Chesnara plc			403010	China Mengniu Dairy Company Limited	30	3020	302020
Chevron Corporation	10	1010	101020	China Merchants Bank Co., Ltd.			401010
Chicony Electronics Co., Ltd.	45	4520	452020	China Merchants Land Limited			601020
Chico's FAS, Inc.	25	2550	255040	China Merchants Port Holdings Company Limited	20	2030	203050
Chimei Materials Technology Corp.	45	4520	452030	China Metal Products Co., Ltd.	15	1510	151040
Chin Poon Industrial Co., Ltd.	45	4520	452030	China Mobile Limited	50		501020
China Agri-Industries Holdings Limited	30	3020	302020	China Modern Dairy Holdings Ltd.	30	3020	302020
China Airlines, Ltd.	20	2030	203020	China Motor Corporation	25	2510	251020
China All Access (Holdings) Limited	45	4520	452010	China Oil And Gas Group Limited	55		551020
China Aoyuan Property Group Limited			601020	China Overseas Grand Oceans Group Limited			601020
China BlueChemical Ltd	15	1510	151010	China Overseas Land & Investment Limited			601020
China CITIC Bank Corporation Limited			401010	China Pacific Insurance (Group) Co., Ltd.			403010
				China Petroleum & Chemical Corp.	10	1010	101020

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China Power International Development Limited	55			Chubb Limited			403010
China Railway Construction Corp.	20	2010	201030	Chubu Electric Power Company, Incorporated	55		
China Railway Group Limited	20	2010	201030	Chudenko Corporation	20	2010	201030
China Resources Beer (Holdings) Company Limited	30	3020	302010	Chugai Pharmaceutical Co., Ltd.	35	3520	352020
China Resources Gas Group Limited	55		551020	Chugoku Marine Paints, Ltd.	15	1510	151010
China Resources Land Limited			601020	Chunghwa Telecom Co., Ltd.	50		
China Resources Power Holdings Company Limited	55		551050	Church & Dwight Co., Inc.	30	3030	303010
China SCE Property Holdings Limited			601020	Chuy's Holdings, Inc.	25	2530	253010
China Shenhua Energy Company Limited	10	1010	101020	CI Financial Corp			402030
China Shineway Pharmaceutical Group Limited	35	3520	352020	Ci:z Holdings Co.,Ltd.	30	3030	303020
China Singyes Solar Technologies Holdings Limited	20	2010	201030	Cia. Hering	25	2550	255040
China South City Holdings Limited			601020	CIE Automotive, S.A.	25	2510	251010
China State Construction International Holdings Limited	20	2010	201030	Cielo S.A.	45	4510	451020
China Steel Chemical Corporation	15	1510	151010	CIMC Enric Holdings Limited	20	2010	201060
China Taiping Insurance Holdings Company Limited			403010	CIMIC Group Limited	20	2010	201030
China Telecom Corporation Limited	50		501010	Çimsa Çimento Sanayi ve Ticaret Anonim Şirketi	15	1510	151020
China Traditional Chinese Medicine Holdings Co. Limited	35	3520	352020	Cincinnati Financial Corporation			403010
China Travel International Investment Hong Kong Limited	25	2530	253010	Cinemark Holdings, Inc.	25	2540	
China Unicom (Hong Kong) Limited	50		501010	Cineplex Inc.	25	2540	
China Water Affairs Group Limited	55		551040	Cineworld Group plc	25	2540	
China Yuchai International Limited	20	2010	201060	Cintas Corporation	20	2020	202010
China Zhengtong Auto Services Holdings Limited	25	2550	255040	Cipla Limited	35	3520	352020
Chinasoft International Limited	45	4510	451020	CIRCOR International, Inc.	20	2010	
Chipbond Technology Corporation	45	4530		Cirrus Logic, Inc.	45	4530	
Chipotle Mexican Grill, Inc.	25	2530	253010	Cisco Systems, Inc.	45	4520	452010
Chiyoda Co., Ltd.	25	2550	255040	Citi Trends, Inc.	25	2550	255040
Chiyoda Corporation	20	2010	201030	CITIC Limited	20	2010	201050
Chocoladefabriken Lindt & Sprüngli AG	30	3020	302020	CITIC Securities Company Limited			402030
Chofu Seisakusho Co., Ltd.	25	2520	252010	CITIC Telecom International Holdings Limited	50		501010
Chong Hong Construction Co., Ltd.			601020	Citrix Systems, Inc.	45	4510	451030
Chongqing Machinery & Electric Co., Ltd.	20	2010	201050	City Holding Company			401010
Chori Co., Ltd.	25	2550	255010	City Lodge Hotels Limited	25	2530	253010
Chow Sang Sang Holdings International Limited	25	2550	255040	Citychamp Watch & Jewellery Group Limited	25	2520	252030
Chroma ATE Inc.	45	4520	452030	Citycon Oyj			601020
Chu Kong Shipping Enterprises	20	2030	203030	CJ CGV Co., Ltd.	25	2540	
				CJ E&M Corporation	25	2540	
				CJ Freshway Corporation	30	3010	
				CJ O Shopping Co., Ltd	25		
				CK Infrastructure Holdings Limited	55		551010

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CKD Corporation	20	2010	201060	Comba Telecom Systems Holdings Limited	45	4520	452010
Clal Insurance Enterprises Holdings Ltd.			403010	comdirect bank Aktiengesellschaft			401010
Clariant AG	15	1510	151010	Comet Holding AG	45	4520	452030
Clarion Co., Ltd.	25	2520	252010	Comfort Systems USA, Inc.	20	2010	201030
Clas Ohlson AB (publ)	25	2550	255040	ComfortDelGro Corporation Limited	20	2030	203040
Clean Harbors, Inc.	20	2020	202010	Cominar Real Estate Investment Trust			601010
Cleanaway Company Limited	20	2020	202010	Commercial International Bank (Egypt) S.A.E.			401010
Cleanup Corporation	25	2520	252010	Commercial Metals Company	15	1510	151040
Clevo Co.	45	4520	452020	Commonwealth Bank of Australia			401010
Clinigen Group Plc	35			Community Bank System, Inc.			401010
Cloetta AB (publ)	30	3020	302020	Commvault Systems, Inc.	45	4510	451030
Clover Industries Limited	30	3020	302020	Compagnie de Saint-Gobain S.A.	20	2010	
CME Group Inc.			402030	Compagnie d'Entreprises CFE SA	20	2010	201030
CMIC HOLDINGS Co., Ltd.	35	3520	352030	Compagnie Financière Richemont SA	25	2520	252030
CMS Energy Corporation	55			Compagnie Générale Établissements	25	2510	251010
CNO Financial Group, Inc.			403010	Compagnie Plastic Omnium SA	25	2510	251010
CNOOC Limited	10	1010	101020	Compal Electronics, Inc.	45	4520	452020
CNP Assurances SA			403010	Companhia Brasileira de Distribuição	30	3010	
Coal India Limited	10	1010	101020	Companhia de Saneamento de Minas Gerais	55		551040
Coca-Cola Amatil Limited	30	3020	302010	Companhia de Saneamento do Paraná - SANEPAR	55		551040
Coca-Cola Bottling Co. Consolidated	30	3020	302010	Companhia Energética do Ceará	55		551010
Coca-Cola FEMSA, S.A.B. de C.V.	30	3020	302010	Companhia Paranaense de Energia - COPEL	55		
Coca-Cola İçecek Anonim Sirketi	30	3020	302010	Companhia Siderúrgica Nacional	15	1510	151040
Cochlear Limited	35	3510	351010	Compañía Cervecerías Unidas S.A.	30	3020	302010
cocukara fine Inc.	30	3010		Compañía de Minas Buenaventura S.A.A.	15	1510	151040
Cofinimmo SA			601010	Compass Group PLC	25	2530	253010
Cogeco Communications Inc.	25	2540		Compass Minerals International, Inc.	15	1510	151040
Cogeco Inc.	25	2540		Compeq Manufacturing Co., Ltd.	45	4520	452030
Cognex Corporation	45	4520	452030	CompuGroup Medical Societas Europa	35	3510	351030
Cognizant Technology Solutions Corporation	45	4510	451020	Computer Modelling Group Ltd.	45	4510	451030
Coherent, Inc.	45	4520	452030	COMSYS Holdings Corporation	20	2010	201030
Colbún S.A.	55		551050	Comtech Telecommunications Corp.	45	4520	452010
Colfax Corporation	20	2010	201060	Conagra Brands, Inc.	30	3020	302020
Colliers International Group Inc.			601020	Concentric AB (publ)	20	2010	201060
Coloplast A/S	35	3510	351010	Concord New Energy Group Limited	20	2010	201030
Colowide Co., Ltd.	25	2530	253010	Concordia Financial Group, Ltd.			401010
Columbia Banking System, Inc.			401010	Conexio Corporation	45	4520	452030
Columbia Sportswear Company	25	2520	252030				
Columbus McKinnon Corporation	20	2010	201060				
Com2uS Corporation	45	4510	451030				

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CONMED Corporation	35	3510	351010				
Connecticut Water Service, Inc.	55		551040				
Conn's, Inc.	25	2550	255040				
ConocoPhillips	10	1010	101020				
Consolidated Communications Holdings, Inc.	50		501010				
Consolidated Edison, Inc.	55						
Consolidated Infrastructure Group Limited	20	2010	201030				
Consorcio ARA, S. A. B. de C. V.	25	2520	252010				
Constellation Brands, Inc.	30	3020	302010				
Constellation Software Inc.	45	4510	451030				
Construcciones y Auxiliar de Ferrocarriles, S.A.	20	2010	201060				
Contact Energy Limited	55						
Container Corporation of India Limited	20	2030	203040				
Continental Aktiengesellschaft	25	2510	251010				
Continental Holdings Corporation	20	2010	201030				
Continental Resources, Inc.	10	1010	101020				
Convergys Corporation	45	4510	451020				
Conwert Immobilien Invest SE			601020				
Cooper Tire & Rubber Company	25	2510	251010				
Cooper-Standard Holdings Inc.	25	2510	251010				
Copart, Inc.	20	2020	202010				
Corby Spirit and Wine Limited	30	3020	302010				
CoreCivic, Inc.			601010				
Core-Mark Holding Company, Inc.	25	2550	255010				
CoreSite Realty Corporation			601010				
Coretronic Corp.	45	4520	452030				
Corning Incorporated	45	4520					
Coromandel International Limited	15	1510	151010				
Corona Corporation	25	2520	252010				
Coronation Fund Managers Limited			402030				
Corporación Financiera Colombiana S.A.			402010				
Corporación Inmobiliaria Vesta S.A.B. de C.V.			601020				
Corporate Office Properties Trust			601010				
Corporate Travel Management Limited	25	2530	253010				
Corus Entertainment Inc.	25	2540					
CorVel Corporation	35	3510	351020				
Cosan S.A. Indústria e Comércio	10	1010	101020				
				Cosel Co., Ltd.	20	2010	201040
				Cosmo Pharmaceuticals N.V.	35	3520	352020
				COSMOS Pharmaceutical Corporation	30	3010	
				Costain Group plc	20	2010	201030
				CoStar Group, Inc.	45	4510	451010
				Costco Wholesale Corporation	30	3010	
				Cott Corporation	30	3020	302010
				Country Garden Holdings Company			601020
				Cousins Properties Incorporated			601010
				Covanta Holding Corporation	20	2020	202010
				Covenant Transportation Group	20	2030	203040
				Coway Co., Ltd.	25	2520	252010
				Cox & Kings Limited	25	2530	253010
				CP ALL Public Company Limited	30	3010	
				CPFL Energia S.A.	55		551010
				CPMC Holdings Limited	15	1510	151030
				Cracker Barrel Old Country Store, Inc.	25	2530	253010
				Cramo Oyj	20	2010	201070
				Crane Co.	20	2010	
				Crawford & Company			403010
				Cray Inc.	45	4520	452020
				create restaurants holdings inc.	25	2530	253010
				Create SD Holdings Co., Ltd.	30	3010	
				Credicorp Ltd.			401010
				Credit Acceptance Corporation			402020
				Credit Agricole S.A.			401010
				Credit Corp Group Limited			402020
				Credit Saison Co.,Ltd.			402020
				Credit Suisse Group AG			402030
				Credito Emiliano S.p.A.			401010
				Cree, Inc.	45	4530	
				CRISIL Limited			402030
				Crocs, Inc.	25	2520	252030
				Croda International plc	15	1510	151010
				CROOZ, Inc.	45	4510	451010
				Crown Castle International Corp. (REIT)			601010
				CROWNHAITAI Holdings CO.,LTD.	30	3020	302020

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CryoLife, Inc.	35			Daiho Corporation	20	2010	201030
CSBC Corporation, Taiwan	20	2010	201060	Dai-ichi Life Holdings, Inc.			403010
CSG Systems International, Inc.	45	4510	451020	Daiichi Sankyo Company, Limited	35	3520	352020
CSL Limited	35	3520	352010	Daiken Corporation	15	1510	151050
CSPC Pharmaceutical Group Limited	35	3520	352020	Daikin Industries, Ltd.	20	2010	201020
CSS Industries, Inc.	25	2520	252010	Daikokutenbussan Co., Ltd.	30	3010	
CSX Corporation	20	2030	203040	Daikyo Incorporated			601020
CTCI Corporation	20	2010	201030	Daimler AG	25	2510	251020
CTS Corporation	45	4520	452030	Dainichiseika Color & Chemicals Mfg. Co., Ltd.	15	1510	151010
CTS Eventim AG & Co. KGaA	25			Dairy Crest Group plc	30	3020	302020
Cub Elecparts Inc.	25	2510	251010	Daiseki Co., Ltd.	20	2020	202010
CubeSmart			601010	Daishin Securities Co., Ltd.			402030
Cullen/Frost Bankers, Inc.			401010	Daiwa House Industry Co., Ltd.			601020
Curro Holdings Limited	25	2530	253020	Daiwa House REIT Investment Corporation			601010
CVB Financial Corp.			401010	Daiwa Industries Ltd.	20	2010	201060
CVR Energy, Inc.	10	1010	101020	Daiwa Office Investment Corporation			601010
CVS Group plc	35	3510	351020	Daiwabo Holdings Co., Ltd.	45	4520	452030
CWT Limited	20	2010	201070	Daktronics, Inc.	45	4520	452030
Cyfrowy Polsat S.A.	25	2540		Dalian Refrigeration Company Limited	20	2010	201060
D.R. Horton, Inc.	25	2520	252010	Dalmia Bharat Limited	15	1510	151020
Da Ming International Holdings Limited	15	1510	151040	Dana Incorporated	25	2510	251010
Dabur India Limited	30	3030	303020	Danaher Corporation	35		
DAE HWA Pharmaceutical Co., Ltd.	35	3520	352020	Danieli & C. Officine Meccaniche S.p.A.	20	2010	201060
Daeduck Electronics Co., Ltd.	45	4520	452030	Danone	30	3020	
Daeduck GDS Co., Ltd.	45	4520	452030	Daou Data Corp.			402030
Daehan Flour Mills Co., Ltd.	30	3020	302020	Daou Tech, Inc.			402030
Daekyo Co., Ltd.	25	2530	253020	Darden Restaurants, Inc.	25	2530	253010
Daelim Industrial Co., Ltd.	20	2010	201030	Dart Group plc	20	2030	203020
Daesang Corporation	30	3020	302020	Dassault Aviation SA	20	2010	201010
Daesang Holdings Co., Ltd.	30	3020	302020	Dassault Systèmes SE	45	4510	451030
Daewon Pharmaceutical Co., Ltd.	35	3520	352020	Datalogic S.p.A.	45	4520	452030
Daewoong Co., Ltd.	35	3520	352020	Datatec Limited	45		
Daewoong Pharmaceutical Co., Ltd.	35	3520	352020	Dätwyler Holding Inc.	20	2010	201050
Dah Chong Hong Holdings Limited	25	2550	255010	Davide Campari-Milano S.p.A.	30	3020	302010
Dah Sing Banking Group Limited			401010	DaVita Inc.	35	3510	351020
Dah Sing Financial Holdings Limited			401010	Dawnrays Pharmaceutical (Holdings) Limited	35	3520	352020
Dai Nippon Printing Co., Ltd.	20	2020	202010	Dawonsys Co., Ltd.	20	2010	201060
Daibiru Corporation			601020	DCB Bank Limited			401010
Daicel Corporation	15	1510	151010	DCM Holdings Co., Ltd.	25	2550	255040
DAIHEN Corporation	20	2010		DCT Industrial Trust Inc.			601010

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Debenhams plc	25	2550	255030	DiaSorin S.p.A.	35	3510	351010
Deckers Outdoor Corporation	25	2520	252030	DIC Asset AG			601020
Deere & Company	20	2010	201060	DIC Corporation	15	1510	151010
Delek Automotive Systems Ltd.	25	2550	255040	Dick's Sporting Goods, Inc.	25	2550	255040
Delek US Holdings, Inc.	10	1010	101020	Diebold Nixdorf Aktiengesellschaft	45	4520	452020
De'Longhi S.p.A.	25	2520	252010	Diebold Nixdorf, Incorporated	45	4520	452020
Delta Corp Limited	25	2530	253010	D'leteren SA	25		
Delta Galil Industries Ltd.	25	2520	252030	DiGi.Com Berhad	50		501020
Deltic Timber Corporation	15	1510	151050	Digital China Holdings Limited	45	4510	451020
Deluxe Corporation	20	2020	202010	Digital Realty Trust, Inc.			601010
DeNA Co., Ltd.	45	4510	451010	Dillard's, Inc.	25	2550	255030
Denka Company Limited	15	1510	151010	Dime Community Bancshares, Inc.			401020
Denki Kogyo Co.,Ltd.	45	4520	452010	Dine Brands Global, Inc.	25		
DENSO Corporation	25	2510	251010	DIO Corporation	35	3510	351010
DENTSPLY SIRONA Inc.	35	3510	351010	Diodes Incorporated	45	4530	
Dentsu Inc.	25	2540		Diös Fastigheter AB (publ)			601020
Denyo Co., Ltd.	20	2010	201040	DIP Corporation	45	4510	451010
Depo Auto Parts Industrial Co., Ltd.	25	2510	251010	Disco Corporation	45	4530	
Depomed, Inc.	35	3520	352020	Discover Financial Services			402020
Derichebourg	20	2020	202010	Discovery Communications, Inc.	25	2540	
Derwent London Plc			601010	DISH Network Corporation	25	2540	
Descente Ltd.	25	2520	252030	Distribuidora Internacional de Alimentación, S.A.	30	3010	
Deutsche Beteiligungs AG			402030	Divi's Laboratories Limited	35	3520	352030
Deutsche Börse Aktiengesellschaft			402030	DMCI Holdings, Inc.	20	2010	201050
Deutsche EuroShop AG			601020	DMG Mori Aktiengesellschaft	20	2010	201060
Deutsche Lufthansa Aktiengesellschaft	20			DMG Mori Co., Ltd.	20		
Deutsche Post AG	20	2030	203010	DO & CO Aktiengesellschaft	25	2530	253010
Deutsche Telekom AG	50			Doha Bank Q.P.S.C.			401010
DEUTZ Aktiengesellschaft	20	2010	201060	Dolby Laboratories, Inc.	45	4520	452030
Devoteam SA	45	4510	451020	Dollar General Corporation	25	2550	255030
Dewan Housing Finance Corp.			401020	Dollar Tree, Inc.	25	2550	255030
Dexus			601010	Dollarama Inc.	25	2550	255030
Deyaar Development PJSC			601020	Dominion Diamond Corporation	15	1510	151040
DFDS A/S	20	2030		Dominion Energy, Inc.	55		
Dhanuka Agritech Limited	15	1510	151010	Domino's Pizza Enterprises Limited	25	2530	253010
Diageo plc	30	3020	302010	Domino's Pizza Group plc	25	2530	253010
Dialog Group Berhad	10	1010	101010	Domtar Corporation	15	1510	151050
Dialog Semiconductor Plc	45	4530		Don Quijote Holdings Co., Ltd.	25	2550	255030
Diamond Offshore Drilling, Inc.	10	1010	101010				
DiamondRock Hospitality Company			601010				

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Donaldson Company, Inc.	20	2010	201060	DyDo Group Holdings, Inc.	30	3020	302020
Dong Suh Companies Inc.	30	3010		Dynasty Ceramic Public Company Ltd	20	2010	201020
Dong-A Socio Holdings Co., Ltd.	35			E*TRADE Financial Corporation			402030
Dongfeng Motor Group Company Limited	25	2510	251020	E.I.D.- Parry (India) Limited	15		
Dongjin Semichem Co., Ltd.	15	1510	151010	Eagle Materials Inc.	15	1510	151020
Dongkook Pharmaceutical Co., Ltd.	35	3520	352020	Earth Chemical Co., Ltd.	30	3030	303010
Dongkuk Structures & Construction	20	2010	201030	Eastern & Oriental Berhad			601020
Dongwha Enterprise Co., Ltd.	15	1510	151050	EastGroup Properties, Inc.			601010
DongWon Development Co.,Ltd.			601020	Eastman Chemical Company	15	1510	151010
Dongwon F&B Co., Ltd.	30	3020	302020	EASY BIO, Inc.	30	3020	302020
Dongwon Industries Co., Ltd.	30	3020	302020	easyJet plc	20	2030	203020
Dorel Industries Inc.	25	2520		Eaton Vance Corp.			402030
dormakaba Holding AG	20	2010	201020	Ebara Corporation	20	2010	201060
Dorman Products, Inc.	25	2510	251010	eBay Inc.	45	4510	451010
Doshisha Co.,Ltd.	25	2550	255010	Ebix, Inc.	45	4510	451030
Douglas Emmett, Inc.			601010	Ebro Foods, S.A.	30	3020	302020
DOUTOR NICHIREN Holdings Co., Ltd.	25	2530	253010	Echo Global Logistics, Inc.	20	2030	203010
Douzone Bizon Co., Ltd.	45	4510	451030	Eclat Textile Corporation Ltd.	25	2520	252030
Dover Corporation	20	2010	201060	eClerx Services Limited	45	4510	451020
Downer EDI Limited	20			Eco World Development Group Berhad			601020
DP World Limited	20	2030	203050	Ecopetrol S.A.	10	1010	101020
Dr Pepper Snapple Group, Inc.	30	3020	302010	EcoRodovias Infraestrutura e Logística S.A.	20	2030	203050
Drax Group plc	55		551050	Edelweiss Financial Services Limited			402030
DRB-HICOM Berhad	25	2510	251020	Edgewell Personal Care Company	30	3030	303020
Drillisch AG	50		501020	EDION Corporation	25	2550	255040
Dril-Quip, Inc.	10	1010	101010	Edison International	55		551010
DS Smith Plc	15	1510	151030	EDP - Energias de Portugal, S.A.	55		
DSV A/S	20	2030		EDP - Energias do Brasil S.A.	55		551010
DSW Inc.	25	2550	255040	Education Realty Trust, Inc.			601010
DTE Energy Company	55			Edwards Lifesciences Corporation	35	3510	351010
DTS Corporation	45	4510	451020	EFG Hermes Holding S.A.E.			402030
Dufry AG	25	2550	255040	Ei Group plc	25	2530	253010
Duke Energy Corporation	55		551010	EI Towers S.p.A	50		501010
Duke Realty Corporation			601010	Eicher Motors Limited	20	2010	201060
Dunelm Group plc	25	2550	255040	Eiffage SA	20	2010	201030
Duni AB (publ)	25	2520	252010	EIH Limited	25	2530	253010
Dunkin' Brands Group, Inc.	25	2530	253010	Eiken Chemical Co., Ltd.	35	3510	351010
Dunlop Sports Co. Ltd.	25	2520	252020	EIS Eczacıbaşı İlaç, Sınai ve Finansal Yatırımlar Sanayi ve Ticaret A.S.	30	3030	303020
DXP Enterprises, Inc.	20			Eisai Co., Ltd.	35	3520	352020
Dycom Industries, Inc.	20	2010	201030	EIZO Corporation	45	4520	452020

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El Al Israel Airlines Ltd	20	2030	203020	Employers Holdings, Inc.			403010
El Paso Electric Company	55		551010	Empresa Nacional de Telecomunicaciones S.A.	50		501020
El Puerto de Liverpool, SAB de CV	25	2550	255030	Empresas Copec S.A.	10	1010	101020
ELAN Microelectronics Corporation	45	4530		EMS-Chemie Holding AG	15	1510	151010
Elanders AB (publ)	20	2020	202010	Enagás, S.A.	10	1010	101020
Elbit Systems Ltd.	20	2010	201010	Enbridge Inc.	10	1010	101020
Elecom Co., Ltd.	45	4520	452020	ENCE Energía y Celulosa, S.A.	15	1510	151050
Electra Ltd	20	2010	201030	Encompass Health Corporation	35	3510	351020
Electric Power Development Co., Ltd.	55		551050	Encore Capital Group, Inc.			402020
Electricité de France S.A.	55		551010	Encore Wire Corporation	20	2010	201040
Electrocomponents plc	45	4520	452030	Endesa, S.A.	55		551010
Electronic Arts Inc.	45	4510	451030	Enel Américas S.A.	55		551010
Electronics for Imaging, Inc.	45	4520	452020	Enel Generación Chile S.A.	55		551050
Elekta AB (publ)	35	3510	351010	Enel SpA	55		551010
Elematec Corporation	45	4520	452030	EnerCare Inc.	25	2530	253020
Elementis plc	15	1510	151010	Enerflex Ltd.	10	1010	101010
Eli Lilly and Company	35	3520	352020	EnerSys	20	2010	201040
Elia System Operator SA	55		551010	Enghouse Systems Limited	45	4510	451030
Elisa Oyj	50		501010	Engie Brasil Energia S.A.	55		551050
Elite Advanced Laser Corporation	45			Engie Energia Chile S.A.	55		551010
Elite Material Co., Ltd.	45	4520	452030	Engineers India Limited	20	2010	201030
Elite Semiconductor Memory Technology Inc.	45	4530		en-japan inc.	20	2020	202020
Elitegroup Computer Systems Co., Ltd.	45	4520	452020	ENN Energy Holdings Limited	55		551020
ElringKlinger AG	25	2510	251010	Ennis, Inc.	20	2020	202010
Emaar Properties PJSC			601020	EnPro Industries, Inc.	20	2010	201060
Embotelladora Andina S.A.	30	3020	302010	Ensign Energy Services Inc.	10	1010	101010
Embraer S.A.	20	2010	201010	Entercom Communications Corp.	25	2540	
EMCOR Group, Inc.	20			Entergy Corporation	55		551010
Emera Incorporated	55		551010	Entertainment One Ltd.	25	2540	
Emergent BioSolutions Inc.	35	3520	352010	Entravision Communications Corporation	25	2540	
Emerson Pacific Inc.	25	2530	253010	Envision Healthcare Corporation	35	3510	351020
Emira Property Fund Limited			601010	EO Technics Co., Ltd.	45	4530	
Emirates Telecommunications Group Company PJSC	50		501010	EOG Resources, Inc.	10	1010	101020
EMIS Group plc	35	3510	351030	EOH Holdings Limited	45	4510	451020
Emmi AG	30	3020	302020	ePlus inc.	45	4520	452030
Emperor Entertainment Hotel Limited	25	2530	253010	EPR Properties			601010
Emperor International Holdings Limited			601020				

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EPS Holdings, Inc.	35	3520	352030	Evertz Technologies Limited	45	4520	452030
EQT Corporation	10	1010	101020	EVN AG	55		551010
Equatorial Energia S.A.	55		551010	Evotec AG	35	3520	352030
Equifax Inc.	20	2020	202020	EVS Broadcast Equipment S.A.	45	4520	452010
Equinix, Inc. (REIT)			601010	Exactech, Inc.	35	3510	351010
Equity Residential			601010	Exchange Income Corporation	20	2030	203020
Eregli Demir ve Çelik Fabrikalari T.A.S.	15	1510	151040	Exco Technologies Limited	20	2010	201060
ERG S.p.A.	55		551050	EXEDY Corporation	25	2510	251010
Erie Indemnity Company			403010	Exelon Corporation	55		
Esprinet S.p.A.	45	4520	452030	Exmar NV	10	1010	101020
ESR-REIT			601010	Exor N.V.			402010
Essel Propack Limited	15	1510	151030	Expedia, Inc.	25	2550	255020
Essendant Inc.	20	2020	202010	Expeditors International of Washington, Inc.	20	2030	203010
Essex Property Trust, Inc.			601010	Experian plc	20	2020	202020
Essilor Int'l Société Anonyme	35	3510	351010	Exponent, Inc.	20	2020	202020
Estácio Participações S.A.	25	2530	253020	Express Scripts Holding Company	35	3510	351020
Etablissements Maurel & Prom S.A.	10	1010	101020	Express, Inc.	25	2550	255040
eTEC E&C Limited	20	2010	201030	Extencicare Inc.	35	3510	351020
Eternal Materials Co., Ltd.	15	1510	151010	Extra Space Storage Inc.			601010
Ethan Allen Interiors Inc.	25			Exxaro Resources Limited	10	1010	101020
Etn. Fr. Colruyt NV	30	3010		Exxon Mobil Corporation	10	1010	101020
Eugene Corporation	15	1510	151020	Ezaki Glico Co.,Ltd.	30	3020	302020
Eugene Investment & Securities Co., Ltd.			402030	EZCORP, Inc.			402020
Eugene Technology Co., Ltd.	45	4530		Ezdan Holding Group Q.S.C.			601020
Euler Hermes Group SA			403010	F.C.C. Co., Ltd.	25	2510	251010
Eurazeo SE			402010	F.N.B. Corporation			401010
Eurocash S.A.	30	3010		F@N Communications, Inc.	45	4510	451010
Eurocommercial Properties N.V.			601010	F5 Networks, Inc.	45	4520	452010
Eurofins Scientific SE	35	3520	352030	Fabegge AB (publ)			601020
Euronav NV	10	1010	101020	Fabrinet	45	4520	452030
Eutelsat Communications S.A.	25	2540		Facebook, Inc.	45	4510	451010
EVA Airways Corp.	20	2030		FactSet Research Systems Inc.			402030
Eveready Industries India Limited	30	3030	303010	Faes Farma, S.A.	35	3520	352020
Everest Re Group, Ltd.			403010	Fair Isaac Corporation	45	4510	451030
Evergreen Intl. Storage & Trans.	20	2030	203040	Fairfax Financial Holdings Limited			403010
Everlight Chemical Industrial Corporation	15	1510	151010	FamilyMart UNY Holdings Co., Ltd.	30	3010	
Everlight Electronics Co., Ltd.	45	4530		Famous Brands Limited	25	2530	253010
Eversource Energy	55		551010	Fancl Corporation	30	3030	303020
				Fantasia Holdings Group Co., Limited			601020

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Fanuc Corporation	20	2010	201060	First American Financial Corporation			403010
Far East Consortium International Limited			601020	First Capital Realty Inc.			601020
Far East Horizon Limited			402010	First Commonwealth Financial Corporation			401010
Far Eastern Department Stores, Ltd.	25	2550	255030	First Financial Bancorp.			401010
Far Eastern International Bank Ltd.			401010	First Financial Bankshares, Inc.			401010
Far EasTone Telecommunications Co., Ltd.	50			First Gen Corporation	55		551050
Faraday Technology Corporation	45	4530		First Industrial Realty Trust, Inc.			601010
Farmer Bros. Co.	30	3020	302020	First International Bank of Israel Ltd			401010
Farmsco	30	3020	302020	First Midwest Bancorp, Inc.			401010
FARO Technologies, Inc.	45	4520	452030	First Pacific Company Limited			402010
Fast Retailing Co., Ltd.	25	2550	255040	First Quantum Minerals Ltd.	15	1510	151040
Fastenal Company	20	2010	201070	First Real Estate Investment Trust			601010
Fastighets AB Balder (publ)			601020	First Resources Limited	30	3020	302020
Faurecia S.A.	25	2510	251010	First Solar, Inc.	45		
FDC Limited	35	3520	352020	FirstCash, Inc.			402020
Federal Realty Investment Trust			601010	Firstgroup plc	20	2030	203040
Federated Investors, Inc.			402030	Fiserv, Inc.	45	4510	451020
FedEx Corporation	20	2030		Fisher & Paykel Healthcare Corporation Limited	35	3510	351010
Feintool International Holding AG	20	2010	201060	Five Below, Inc.	25	2550	255040
Feng Hsin Steel Co.,Ltd	15	1510	151040	Flagstar Bancorp, Inc.			401020
Feng Tay Enterprises Co., Ltd.	25	2520	252030	Fleury S.A.	35	3510	351020
Fenner PLC	20	2010	201060	Flex Ltd.	45	4520	452030
Ferrexpo Plc	15	1510	151040	FlexiGroup Limited			402020
Ferrovial, S.A.	20			Flexium Interconnect, Inc.	45	4520	452030
Fiat Chrysler Automobiles N.V.	25	2510	251020	Flight Centre Travel Group Limited	25	2530	253010
Fibra UNO			601010	FLIR Systems, Inc.	45	4520	452030
Fidelity National Financial, Inc.			403010	Flowers Foods, Inc.	30	3020	302020
Fidelity Nat'l Info Services	45	4510	451020	Flowserve Corporation	20	2010	201060
Fields Corporation	25	2520	252020	FLSmith & Co. A/S	20		
Fiesta Restaurant Group, Inc.	25	2530	253010	Flughafen Zürich AG	20	2030	203050
Fila Korea Ltd.	25	2520	252030	Fluor Corporation	20	2010	201030
Filinvest Land, Inc.			601020	Flytech Technology Co., Ltd.	45	4520	452030
Financial Engines, Inc.			402030	FMC Corporation	15	1510	151010
Financial Products Group Co., Ltd.			402010	FocalTech Systems Co., Ltd.	45	4530	
Finisar Corporation	45	4520	452010	Folkestone Education Trust			601010
Finning International Inc.	20	2010	201070	Folli-Follie Commercial Manufacturing and Technical Societe Anonyme	25		
Firich Enterprises Co., Ltd.	45	4520	452030	Fomento Económico Mexicano, S.A.B. de C.V.	30		
First Abu Dhabi Bank P.J.S.C.			401010	Foncière des Régions			601010
				Foosung Co., Ltd.	15	1510	151010

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Foot Locker, Inc.	25	2550	255040	Fufeng Group Limited	15	1510	151010
Force Motors Limited	20	2010	201060	Fuji Co., Ltd.	25	2550	255030
Ford Motor Company	25	2510	251020	Fuji Kyuko Co., Ltd.	25	2530	253010
Forest City Realty Trust, Inc.			601010	Fuji Machine Mfg. Co., Ltd.	20	2010	201060
Formosa Advanced Technologies Co., Ltd.	45	4530		Fuji Oil Holdings Inc.	30	3020	302020
Formosa Chemicals & Fibre Corporation	15	1510	151010	Fuji Seal International, Inc.	15	1510	151030
Formosa International Hotels Corporation	25	2530	253010	Fuji Soft Incorporated	45	4510	451030
Formosa Petrochemical Corporation	10	1010	101020	Fujicco Co., Ltd.	30	3020	302020
Formosa Plastics Corporation	15	1510		Fujimori Kogyo Co., Ltd.	15	1510	151010
Formosan Rubber Group Inc.	15	1510	151010	Fujitec Co.,Ltd.	20	2010	201060
Formula Systems (1985) Ltd.	45	4510	451020	Fujitsu General Limited	25	2520	252010
Forrester Research, Inc.	20	2020	202020	Fujitsu Limited	45	4510	451020
Fortescue Metals Group Limited	15	1510	151040	Fukuda Corporation	20	2010	201030
Fortinet, Inc.	45	4510	451030	Fukuda Denshi Co., Ltd.	35	3510	351010
Fortis Inc.	55		551010	Fukui Computer Holdings,Inc.	45	4510	451030
Fortum Oyj	55		551010	Fukuoka Financial Group, Inc.			401010
Forus S.A.	25	2520	252030	Fukuoka REIT Corporation			601010
Forward Air Corporation	20	2030	203010	Fukushima Industries Corp.	20	2010	201060
Foshan Electrical and Lighting Co., Ltd.	20	2010	201040	Fukuyama Transporting Co., Ltd.	20	2030	203040
Fossil Group, Inc.	25	2520	252030	Fulton Financial Corporation			401010
Foxconn Technology Co., Ltd.	45	4520		Funai Soken Holdings Incorporated	20	2020	202020
FP Corporation	15	1510	151030	Furukawa Electric Co., Ltd.	20	2010	201040
France Bed Holdings Co. Ltd.	25	2520	252010	Fuso Chemical Co.,Ltd.	15	1510	151010
Francesca's Holdings Corporation	25	2550	255040	Future Corporation	45	4510	451020
Franco-Nevada Corporation	15	1510	151040	Fuyao Glass Industry Group Co., Ltd.	25	2510	251010
Franklin Electric Co., Inc.	20	2010	201060	Fuyo General Lease Co., Ltd.			402010
Franklin Resources, Inc.			402030	G4S plc	20	2020	202010
Franklin Street Properties Corp.			601010	G8 Education Limited	25	2530	253020
Frasers Commercial Trust			601010	GAIL (India) Limited	55		551020
Freehold Royalties Ltd.	10	1010	101020	Galaxy Entertainment Group Limited	25	2530	253010
freenet AG	50		501020	GAM Holding AG			402030
Fresh Del Monte Produce Inc.	30	3020	302020	GameStop Corp.	25	2550	255040
Fresnillo PLC	15	1510	151040	GAMEVIL Inc.	45	4510	451030
Frontier Real Estate Investment Corporation			601010	Garmin Ltd.	25	2520	
Frutarom Industries Ltd.	15	1510	151010	Gas Malaysia Berhad	55		551020
Fubon Financial Holding Co., Ltd.			402010	Gas Natural SDG, S.A.	55		
Fudo Tetra Corporation	20	2010	201030	Gateway Distriparks Limited	20	2030	203050
				GATX Corporation	20	2010	201070
				Gazit Globe Ltd			601020
				GCL-Poly Energy Holdings Limited	45	4530	
				GE Power India Limited	20	2010	201030
				GE T&D India Limited	20	2010	201040

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GEA Group Aktiengesellschaft	20	2010	201060	Gildan Activewear Inc.	25	2520	252030
Geberit AG	20	2010	201020	Gilead Sciences, Inc.	35	3520	352010
Gecina			601010	Gillette India Limited	30	3030	303020
Gecoss Corporation	20	2010	201070	GIMV NV			402030
GEDI Gruppo Editoriale S.p.A.	25	2540		Ginko International Co. Ltd	35	3510	351010
Geely Automobile Holdings Limited	25	2510	251020	Giordano International Limited	25	2550	255040
Gemdale Properties and Investment Corporation Limited			601020	Gjensidige Forsikring ASA			403010
General Mills, Inc.	30			GL Events	20	2020	202010
General Motors Company	25	2510	251020	Glacier Bancorp, Inc.			401010
Genesco Inc.	25	2550	255040	Glanbia plc	30		
Genesee & Wyoming Inc.	20	2030	203040	GlaxoSmithKline plc	35	3520	352020
Genomma Lab Internacional, S.A.B. de C.V.	35	3520	352020	Glenmark Pharmaceuticals Limited	35	3520	352020
Gentex Corporation	25	2510	251010	Global One Real Estate Investment Corporation			601010
Gentherm Incorporated	25	2510	251010	Global Payments Inc.	45	4510	451020
Genting Berhad	25	2530	253010	Global UniChip Corp.	45	4530	
Genting Malaysia Berhad	25	2530	253010	Globe Telecom, Inc.	50		501020
Genting Plantations Berhad	30	3020	302020	Globetronics Technology Bhd	45	4530	
Genting Singapore PLC	25	2530	253010	Globus Medical, Inc.	35	3510	351010
Genworth MI Canada Inc.			401020	Gloria Material Technology Corp.	15	1510	151040
GEO Group, Inc.			601010	Glory Ltd.	20	2010	
Geo Holdings Corporation	25	2550	255040	Glow Energy Public Company Limited	55		551050
George Weston Limited	30	3010		GLP Pte. Ltd.			601020
Geox S.p.A.	25	2520	252030	GMO Internet, Inc.	45	4510	451010
Gerdau S.A.	15	1510	151040	Godfrey Phillips India Limited	30	3020	302030
Gerry Weber International AG	25			Godrej Consumer Products Limited	30	3030	303020
Getac Technology Corporation	45	4520	452020	Godrej Industries Limited	15	1510	151010
Getin Noble Bank S.A.			401010	Godrej Properties Limited			601020
Getinge AB	35	3510		GOLDCREST Co., Ltd.			601020
Getlink	20	2030	203050	Golden Eagle Retail Group Limited	25	2550	255030
Getty Realty Corp.			601010	Golden Land Property Development Public Company Limited			601020
GF Securities Co., Ltd.			402030	Goldwin Inc.	25	2520	252030
GFPT Public Company Limited	30	3020	302020	Goodbaby International Holdings Limited	25	2520	252020
GFT Technologies SE	45	4510	451020	Goodman Group			601010
GGP Inc.			601010	Goodman Property Trust			601010
Giant Manufacturing Co., Ltd.	25	2520	252020	Goodyear Lastikleri Türk A.S.	25	2510	251010
Giga Solar Materials Corp.	45	4530		Gourmet Master Co. Ltd.	25	2530	253010
Gigabyte Technology Co.,Ltd	45	4520	452020	Government Properties Income Trust			601010
G-III Apparel Group, Ltd.	25	2520	252030	GP Strategies Corporation	20	2020	202020
Giken Ltd.	20	2010	201060	GPT Group			601010

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Graco Inc.	20	2010	201060	Greggs plc	25	2530	253010
Graham Holdings Company	25			Grenke AG			402010
GrainCorp Limited	30	3020		Griffon Corporation	20	2010	
Grainger plc			601020	Grifols, S.A.	35	3520	352010
Grammer Aktiengesellschaft	25	2510	251010	Group 1 Automotive, Inc.	25	2550	255040
Grand Korea Leisure Co., Ltd.	25	2530	253010	Group Lease Public Company Limited			402020
Grand Pacific Petrochemical Corporation	15	1510	151010	Groupe Bruxelles Lambert SA			402010
Granite Construction Incorporated	20	2010	201030	Groupe CRIT SA	20	2020	202020
Granite Real Estate Investment Trust			601010	Growthpoint Properties Australia			601010
Granules India Limited	35	3520	352020	Growthpoint Properties Limited			601010
Grape King Bio Ltd	30	3030	303020	GRUH Finance Limited			401020
Graphic Packaging Holding Company	15	1510	151030	Gruma, S.A.B. de C.V.	30	3020	302020
Grasim Industries Limited	15	1510		Grupo Aeroméxico, S.A.B. de C.V.	20	2030	203020
Gray Television, Inc.	25	2540		Grupo Aeroportuario del Centro Norte, S. A. B. de C. V.	20		
Great Canadian Gaming Corporation	25	2530	253010	Grupo Aeroportuario del Pacífico, S.A.B. de C.V.	20	2030	203050
Great China Metal Ind. Co., Ltd.	15	1510	151030	Grupo Aeroportuario del Sureste, S. A. B. de C. V.	20	2030	203050
Great Lakes Dredge & Dock Corporation	20	2010	201030	Grupo Argos S.A.	15	1510	151020
Great Plains Energy Incorporated	55		551010	Grupo Aval Acciones Y Valores S.A.			401010
Great Wall Enterprise Co., Ltd.	30	3020	302020	Grupo Bimbo, S.A.B. de C.V.	30	3020	302020
Great Wall Motor Company Limited	25	2510	251020	Grupo Catalana Occidente, S.A.			403010
Greatek Electronics Inc.	45	4530		Grupo Comercial Chedraui, S.A.B. DE C.V.	30	3010	
Greatview Aseptic Packaging Co.	15	1510	151030	Grupo de Inversiones Suramericana S.A.			402010
Great-West Lifeco Inc.			403010	Grupo Financiero Banorte, S.A.B. de C.V.			401010
Greaves Cotton Limited	20	2010	201060	Grupo Herdez, S.A.B. de C.V.	30	3020	302020
Gree, Inc.	45	4510	451010	Grupo México, S.A.B. de C.V.	15	1510	151040
Greek Organization of Football Prognostics S.A.	25	2530	253010	Grupo Televisa, S.A.B.	25	2540	
Green Cross Corporation	35	3520	352010	GS Home Shopping Inc.	25	2550	255020
Green Cross Holdings Corporation	35	3520	352010	G-Smatt Global Co., Ltd.	45	4530	
Green Dot Corporation			402020	GSRetail Co., Ltd.	30	3010	
Greencore Group plc	30	3020	302020	GT Capital Holdings, Inc.			402010
Greene King plc	25	2530	253010	G-Tekt Corporation	25	2510	251010
Greenhill & Co., Inc.			402030	Guangdong Investment Limited	55		551040
Greenland Hong Kong Holdings Limited			601020	Guangdong Yueyun Transportation Company Limited	20	2030	203010
Greenply Industries Limited	15	1510	151050	Guangzhou R&F Properties Co., Ltd.			601020
Greentown China Holdings Limited			601020	Guararapes Confecoes S.A.	25	2520	252030
Greenyard NV	30	3020	302020	Gübre Fabrikalari T.A.S.	15	1510	151010
				GUD Holdings Limited	25		
				Guerbet SA	35	3510	351010

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Guess?, Inc.	25	2550	255040	Hanesbrands Inc.	25	2520	252030
Gujarat Fluorochemicals Limited	15	1510	151010	Hang Lung Group Limited			601020
Gujarat Narmada Valley Fertilizers & Chemicals Limited	15	1510	151010	Hang Lung Properties Limited			601020
Gujarat Pipavav Port Limited	20	2030	203050	Hang Seng Bank Limited			401010
Gujarat State Petronet Limited	55		551020	Hanil Cement. Co., Ltd.	15	1510	151020
GungHo Online Entertainment, Inc.	45	4510	451030	Hanjin Transportation Co., Ltd.	20	2030	
Gunnebo AB	20	2020	202010	Hankook Shell Oil Co.,Ltd.	10	1010	101020
Guotai Junan International Holdings Limited			402030	Hankuk Carbon Co., Ltd.	15	1510	151010
Gurit Holding AG	15	1510	151010	Hankyu REIT Inc.			601010
Gurunavi, Inc.	45	4510	451010	Hanmi Financial Corporation			401010
GWA Group Limited	20	2010	201020	Hanmi Pharm. Co., Ltd.	35	3520	352020
Gwangju Shinsegae Co., Ltd.	25	2550	255030	Hanmi Science Co., Ltd.	35	3520	352020
H & M Hennes & Mauritz AB (publ)	25	2550	255040	HANMI Semiconductor Co., Ltd.	45	4530	
H&E Equipment Services, Inc.	20	2010	201070	Hannover Rück SE			403010
H&R GmbH & Co. KGaA	15	1510	151010	Hanon Systems	25	2510	251010
H&R Real Estate Investment Trust			601010	Hansae Co., Ltd.	25	2520	252030
H.B. Fuller Company	15	1510	151010	Hansae Yes24 Holdings Co., Ltd	25	2520	252030
H.I.S. Co., Ltd.	25	2530	253010	Hansen Technologies Ltd	45	4510	451030
Haci Ömer Sabancı Holding A.S.			402010	Hansol Chemical Co., Ltd.	15	1510	151010
Haemonetics Corporation	35	3510	351010	Hanssem Co., Ltd.	25	2520	252010
Haier Electronics Group Co., Ltd.	25			Hansteen Holdings PLC			601010
Haitian International Holdings Limited	20	2010	201060	Hanwa Co., Ltd.	20		
Haitong International Securities Group Limited			402030	Hanwha General Insurance Co., Ltd.			403010
Haitong Securities Co., Ltd.			402030	Hanwha Life Insurance Co., Ltd.			403010
Hakuhodo DY Holdings Inc	25	2540		Hanwha Techwin Co., Ltd.	20	2010	201010
Haldex AB (publ)	20	2010	201060	Hap Seng Consolidated Berhad	20	2010	201050
Halfords Group plc	25	2550	255040	Harbin Electric Company Limited	20	2010	201040
Halla Holdings Corp.	25	2510	251010	Hargreaves Lansdown plc			402030
Halma plc	45	4520	452030	Harim Holdings Co., Ltd.	20	2010	201050
Halows Co.,Ltd.	30	3010		Harley-Davidson, Inc.	25	2510	251020
Hamamatsu Photonics K.K.	45			Harmonic Drive Systems Inc.	20	2010	201060
Hamborner REIT AG			601010	Harris Corporation	20	2010	
Hamburger Hafen und Logistik Aktiengesellschaft	20	2030	203050	Hartalega Holdings Berhad	35	3510	351010
Hana Financial Group Inc.			401010	Harvey Norman Holdings Limited	25	2550	255030
Hana Microelectronics Public Company Limited	45	4520	452030	Hasbro, Inc.	25	2520	252020
Hanatour Service Inc.	25	2530	253010	Haulotte Group SA	20	2010	201060
Hancock Holding Company			401010	Havas SA	25	2540	
Hancom Inc.	45	4510	451030	Havells India Limited	20	2010	201040
Handok Inc.	35	3520	352020	Haverty Furniture Companies,	25	2550	255040
HANDSOME Corp.	25	2520	252030				

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Inc.				HFF, Inc.			601020
Hawaiian Electric Industries, Inc.	55		551010	Hibbett Sports, Inc.	25	2550	255040
Hawaiian Holdings, Inc.	20	2030	203020	Hibiya Engineering, Ltd.	20	2010	201030
Haynes International, Inc.	15	1510	151040	Hiday Hidaka Corp.	25	2530	253010
Hays plc	20	2020	202020	High Liner Foods Incorporated	30	3020	302020
Hazama Ando Corporation	20	2010	201030	Highwealth Construction Corp.			601020
HCI Group, Inc.			403010	Highwoods Properties, Inc.			601010
Healthcare Realty Trust Incorporated			601010	Hikma Pharmaceuticals PLC	35	3520	352020
Healthcare Services Group, Inc.	20	2020	202010	Hill-Rom Holdings, Inc.	35	3510	351010
HealthStream, Inc.	35	3510	351030	Hilong Holding Limited	10	1010	101010
Heartland Express, Inc.	20	2030	203040	Himatsingka Seide Limited	25	2520	252030
Hearts United Group Co., Ltd.	45	4510	451020	Hindalco Industries Limited	15	1510	151040
Hecla Mining Company	15	1510	151040	Hindustan Petroleum Corporation Limited	10	1010	101020
Hefei Meiling Co., Ltd.	25	2520	252010	Hindustan Unilever Limited	30	3030	303010
HeidelbergCement India Limited	15	1510	151020	Hino Motors, Ltd.	20	2010	201060
Heidrick & Struggles International, Inc.	20	2020	202020	Hiramatsu Inc.	25	2530	253010
Heineken N.V.	30	3020	302010	Hirata Corporation	20	2010	201060
Heiwa Corporation	25	2520	252020	Hiroca Holdings Ltd.	25	2510	251010
Heiwa Real Estate Co., Ltd.			601020	Hirose Electric Co.,Ltd.	45	4520	452030
Heiwa Real Estate REIT, Inc.			601010	Hisaka Works, Ltd.	20	2010	201060
Heiwado Co., Ltd.	30	3010		Hisamitsu Pharmaceutical Co., Inc.	35	3520	352020
Helical plc			601020	Hiscox Ltd			403010
Heliopolis Co. for Housing & Dev			601020	Hisense Kelon Electrical Holdings Company Limited	25	2520	252010
Hellenic Exchanges			402030	Hitachi Chemical Company, Ltd.	15	1510	151010
Hellenic Telecommunications Organization S.A.	50			Hitachi Construction Machinery Co., Ltd.	20	2010	201060
Helmerich & Payne, Inc.	10	1010	101010	Hitachi High-Technologies Corporation	45	4520	452030
Helvetia Holding AG			403010	Hitachi Kokusai Electric Inc.	45	4520	452010
Henderson Land Development Company Limited			601020	Hitachi Metals, Ltd.	15	1510	151040
Hengan International Group Company Limited	30	3030		Hitachi Transport System, Ltd.	20	2030	203040
Hengdeli Holdings Limited	25	2550		Hitachi Zosen Corporation	20	2010	201060
Henry Schein, Inc.	35	3510	351020	HITEJINRO Co., Ltd.	30	3020	302010
Hera S.p.A.	55			Hiwin Technologies Corp.	20	2010	
Herman Miller, Inc.	20	2020	202010	HKC (Holdings) Limited			601020
Hermès International Société	25	2520	252030	HKT Trust and HKT Limited	50		501010
Hero MotoCorp Limited	25	2510	251020	HMS Holdings Corp.	35	3510	351030
Hexagon AB	45	4520	452030	HNA Infrastructure Company Limited	20	2030	203050
Hexagon Composites ASA	20	2010	201060				
Hexaware Technologies Limited	45	4510	451020				
Hexcel Corporation	20	2010	201010				
Hexpol AB (Publ)	15	1510	151010				

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HNI Corporation	20	2020	202010				
Ho Tung Chemical Corp.	15	1510	151010	HSN, Inc.	25	2550	255020
HOCHTIEF Aktiengesellschaft	20	2010	201030	HTC Corporation	45	4520	452020
Hogy Medical Co.,Ltd.	35	3510	351010	Hu Lane Associate Inc.	25	2510	251010
Hokuetsu Kishu Paper Co., Ltd.	15	1510	151050	Hua Nan Financial Holdings Co., Ltd.			401010
Hokuhoku Financial Group, Inc.			401010	Huabao International Holdings Limited	15	1510	151010
Hokuto Corporation	30	3020	302020	Huaku Development Co., Ltd.			601020
HollyFrontier Corporation	10	1010	101020	Huaneng Power International, Inc.	55		551050
Holtek Semiconductor Inc.	45	4530		Huang Hsiang Construction Corporation			601020
Holy Stone Enterprise Company Limited	45	4520	452030	Huatai Securities Co., Ltd.			402030
Home Bancshares, Inc. (Conway, AR)			401010	Huaxin Cement Co., Ltd.	15	1510	151020
Home Capital Group Inc.			401020	Hub Group, Inc.	20	2030	203010
Home Product Center Public Company Limited	25	2550	255040	Hubbell Incorporated	20	2010	201040
homecast Co., Ltd.	45	4520	452010	Huber+Suhner AG	20	2010	201040
HomeServe plc	20	2020	202010	Huchems Fine Chemical Corporation	15	1510	151010
Hon Hai Precision Industry Co.	45	4520	452030	Hufvudstaden AB (publ)			601020
Honda Motor Co., Ltd.	25	2510	251020	Hugo Boss AG	25	2520	252030
Hong Kong Exchanges and Clearing Limited			402030	Huhtamäki Oyj	15	1510	151030
Hong Leong Bank Berhad			401010	Hulic Co., Ltd.			601020
Hong Leong Financial Group Berhad			401010	Humax Co., Ltd.	45	4520	452010
Hong Leong Industries Berhad	20	2010	201050	HUNG SHENG Construction Co., Ltd.			601020
Hong Pu Real Estate Development CO.,LTD.			601020	Huntington Bancshares Incorporated			401010
Honghua Group Limited	10	1010	101010	Huntington Ingalls Industries, Inc.	20	2010	201010
Hongkong Land Holdings Limited			601020	Huntsman Corporation	15	1510	151010
Hope Bancorp, Inc.			401010	Husky Energy Inc.	10	1010	101020
Hopson Development Holdings Limited			601020	Husqvarna AB (publ)	25	2520	252010
Horace Mann Educators Corporation			403010	Hutchison Telecommunications Hong Kong Holdings Limited	50		501010
HORIBA, Ltd.	45			Hwaseung Industries Co., Ltd.	25	2520	252030
Hormel Foods Corporation	30	3020	302020	Hy-Lok Corporation, Ltd.	20	2010	201060
Hornbach Baumarkt AG	25	2550	255040	Hypera S.A.	35	3520	352020
Hoshizaki Corporation	20	2010	201060	Hypoport AG			402010
Hospitality Properties Trust			601010	Hysan Development Company Limited			601020
Host Hotels & Resorts, Inc.			601010	Hyundai Corporation	20	2010	201070
Hota Industrial Mfg. Co., Ltd.	25	2510	251010	Hyundai Department Store Co., Ltd.	25	2550	255030
Hotai Motor Co., Ltd.	25	2550	255040	Hyundai Engineering & Construction Co., Ltd.	20	2010	201030
Hotel Shilla Co.,Ltd	25	2550	255040	Hyundai HCN Co., Ltd.	25	2540	
House Foods Group Inc.	30			Hyundai Home Shopping Network Corporation	25	2550	255020
Housing Development and Infrastructure Limited			601020	Hyundai Marine & Fire Insurance Co. Ltd.			403010
Howden Joinery Group Plc	20	2010	201070	Hyundai Mobis Co.,Ltd	25	2510	251010

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Hyundai Motor Company	25	2510	251020	IMI plc	20	2010	201060
Hyundai Steel Company	15	1510	151040	Immobiliare Grande Distribuzione SIIQ SpA			601010
HYUNDAI WIA Corporation	25	2510	251010	Imperial Holdings Limited	25	2550	
I.M.A. Industria Macchine Automatiche S.p.A.	20	2010	201060	Imperial Oil Limited	10	1010	101020
IAC/InterActiveCorp	45	4510	451010	Implenia AG	20	2010	201030
Iberdrola, S.A.	55			Inaba Denki Sangyo Co.,Ltd.	20	2010	201070
IBJ Leasing Company, Limited			402010	Inari Amertron Berhad	45	4520	452030
IC Group A/S	25	2520	252030	InBody Co., Ltd.	35	3510	351010
Icade			601010	Inchcape plc	25	2550	255010
Ichibanya Co., Ltd.	25	2530	253010	Incitec Pivot Limited	15	1510	151010
Ichigo Inc.			601020	Independent Bank Corp.			401010
Ichigo Office REIT Investment Corporation			601010	Indiabulls Real Estate Limited			601020
Ichiyoshi Securities Co., Ltd.			402030	Indo Count Industries Limited	25	2520	252030
Icom Incorporated	45	4520	452010	Indofood Agri Resources Ltd.	30	3020	302020
ICU Medical, Inc.	35	3510	351010	Indorama Ventures Public Company Limited	15	1510	151010
ID Logistics Group SA	20	2030	203010	INDUS Holding AG	20	2010	201050
IdaCorp, Inc.	55		551010				
Idea Cellular Limited	50		501020				
				Industria de Diseño Textil, S.A.	25	2550	255040
IDEC Corporation	20	2010	201040	Industrial & Commercial Bank China			401010
Idemitsu Kosan Co.,Ltd.	10	1010	101020	Industrial & Infrastructure Fund Investment Corporation			601010
IDOM Inc.	25	2550	255040	Industrial Alliance Insurance and Financial Services Inc.			403010
IDT Corporation	50		501010	Industrial Bank of Korea			401010
IEI Integration Corp.	45	4520	452020	Industrias Bachoco, S.A.B. de C.V.	30	3020	302020
IFCI Limited			402010	Industrias Peñoles, S.A.B. de C.V.	15	1510	151040
IG Group Holdings plc			402030				
IGM Financial Inc.			402030	Industries Qatar Q.S.C.	20	2010	201050
Iguatemi Empresa de Shopping Centers S.A.			601020	Indutrade AB (publ)	20	2010	201070
IHH Healthcare Berhad	35	3510	351020				
IHI Corporation	20	2010		INES Corporation	45	4510	451020
				INFICON Holding AG	45	4520	452030
IHS Markit Ltd.	20	2020	202020	Infineon Technologies AG	45	4530	
				Infinity Property and Casualty Corporation			403010
IIFL Holdings Limited			402030	Info Edge (India) Limited	45	4510	451010
Iino Kaiun Kaisha, Ltd.	20	2030	203030	Infocom Corporation	45	4510	451020
II-VI Incorporated	45	4520	452030	Infomart Corporation	45	4510	451010
ILG, Inc.	25	2530	253010	Informa plc	25	2540	
				Information Services International-Dentsu, Ltd.	45	4510	451020
Iliad SA	50		501010				
Illumina, Inc.	35	3520	352030	Infosys Limited	45	4510	451020
Ilshin Spinning Co., Ltd	25	2520	252030	Infratil Limited	55		
Iluka Resources Limited	15	1510	151040				
Ilyang Pharmaceutical Co.,Ltd	35	3520	352020				
iMarketKorea Inc.	20	2010	201070				
Imerys SA	15	1510	151020				

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ING Groep N.V.			401010				
Ingenico Group - GCS	45	4520	452030				
Ingles Markets, Incorporated	30	3010					
Ingredion Incorporated	30	3020	302020				
Inmarsat Plc	50		501010				
InnerWorkings, Inc.	20	2020	202010				
Innophos Holdings, Inc.	15	1510	151010				
Innospec Inc.	15	1510	151010				
Inox Leisure Limited	25	2540					
Inpex Corporation	10	1010	101020				
Insight Enterprises, Inc.	45	4520	452030				
Insperty, Inc.	20	2020	202020				
Insteel Industries, Inc.	20	2010	201020				
Insurance Australia Group Limited			403010				
Intact Financial Corporation			403010				
Integer Holdings Corporation	35	3510	351010				
Integra LifeSciences Holdings Corporation	35						
Integrated Device Technology, Inc.	45	4530					
Intel Corporation	45	4530					
Inter Parfums, Inc.	30	3030	303020				
Interactive Brokers Group, Inc.			402030				
Interconexión Eléctrica S.A. E.S.P.	55		551010				
Intercontinental Exchange, Inc.			402030				
InterDigital, Inc.	45	4520	452010				
Interface, Inc.	20	2020	202010				
Interfor Corporation	15	1510	151050				
Intermediate Capital Group plc			402030				
International Bancshares Corporation			401010				
International Business Machines	45	4510					
International Container Terminal Services, Inc.	20	2030	203050				
International Games System Co., LTD	45	4510	451030				
International Paper Company	15	1510	151030				
International Personal Finance Plc			402020				
International Speedway Corporation	25	2530	253010				
Internet Initiative Japan Inc.	45	4510	451010				
Interajo Inc.	35	3510	351010				
InterParfums SA	30	3030	303020				
Interpump Group S.p.A.	20	2010	201060				
Interserve plc	20						
Intertape Polymer Group Inc.	15	1510	151030				
Intertek Group plc	20	2020	202020				
Intervest Offices & Warehouses			601010				
Int'l Consolidated Airlines	20	2030	203020				
INTL FCStone Inc.			402030				
iNtRON Biotechnology, Inc.	35	3520	352010				
intu properties plc			601010				
Intuit Inc.	45	4510	451030				
Intuitive Surgical, Inc.	35	3510	351010				
Inventec Corporation	45	4520	452020				
Inversiones Aguas Metropolitanas S.A.	55		551040				
Inversiones La Construcción S.A.			402010				
Invesco Ltd.			402030				
Investa Office Fund			601010				
Investec plc			402030				
Investment AB Öresund (publ)			402010				
Investor AB			402010				
Invicta Holdings Limited	20	2010	201070				
Invincible Investment Corporation			601010				
InvoCare Limited	25	2530	253020				
Iochepe-Maxion S.A.	20	2010	201060				
IOI Corporation Berhad	30	3020	302020				
iomart Group plc	45	4510	451010				
Ion Beam Applications SA	35	3510	351010				
IOOF Holdings Ltd			402030				
Ipca Laboratories Limited	35	3520	352020				
IPG Photonics Corporation	45	4520	452030				
Ipsen S.A.	35	3520	352020				
Ipsos SA	25	2540					
IRB Infrastructure Developers Limited	20	2010	201030				
Iren SpA	55						
IRESS Limited	45	4510	451030				
Iridium Communications Inc.	50		501010				
Iriso Electronics Co., Ltd.	45	4520	452030				
iRobot Corporation	25	2520	252010				
Iron Mountain Incorporated			601010				
IS DongSeo Co., Ltd.	20	2010	201020				
Is Gayrimenkul Yatirim Ortakligi A.S.			601010				
Iseki & Co., Ltd.	20	2010	201060				
Isetan Mitsukoshi Holdings Ltd.	25	2550	255030				
Isgec Heavy Engineering Limited	20	2010	201060				
Ishihara Sangyo Kaisha, Ltd.	15	1510	151010				

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Isra Vision AG	45	4520	452030				
Israel Chemicals Ltd.	15	1510	151010	Japan Cash Machine Co., Ltd.	45	4520	452030
Israel Discount Bank Limited			401010	Japan Excellent, Inc.			601010
istyle Inc.	45	4510	451010	Japan Exchange Group, Inc.			402030
Isuzu Motors Limited	25	2510	251020	Japan Hotel REIT Investment Corporation			601010
Itab Shop Concept AB	20	2020	202010	Japan Lifeline Co., Ltd.	35	3510	351020
Itaú CorpBanca			401010	Japan Logistics Fund, Inc.			601010
Itaúsa - Investimentos Itaú S.A.			401010	JAPAN MATERIAL Co., Ltd.	45	4530	
ITC Limited	30	3020		Japan Petroleum Exploration Co., Ltd.	10	1010	101020
ITE Group plc	25	2540		Japan Prime Realty Investment Corporation			601010
ITEQ Corporation	45	4520	452030	Japan Pulp and Paper Company Limited	20	2010	201070
Ito En, Ltd.	30	3020	302010	Japan Real Estate Investment Corporation			601010
Itochu Enex Co.,Ltd.	10	1010	101020	Japan Rental Housing Investments Inc.			601010
ITOCHU Techno-Solutions Corporation	45	4510	451020	Japan Retail Fund Investment Corporation			601010
ITOCHU-SHOKUHIN Co., Ltd.	30	3010		Japan Securities Finance Co., Ltd.			402010
Itoham Yonekyu Holdings Inc.	30	3020	302020	Japan Tobacco Inc.	30	3020	302030
Itoki Corporation	20	2020	202010	Jardine Cycle & Carriage Limited	25	2550	255010
ITV plc	25	2540		Jardine Matheson Holdings Limited	20	2010	201050
IWG PLC	20	2020	202010	Jardine Strategic Holdings Limited	20	2010	201050
IXYS Corporation	45	4530		Jasmine International Public Company Limited	50		501010
Izumi Co., Ltd.	25	2550	255030				
J D Wetherspoon plc	25	2530	253010	JB Hi-Fi Limited	25	2550	255040
J Sainsbury plc	30	3010		JBS S.A.	30	3020	302020
J&J Snack Foods Corp.	30	3020	302020	JCDecaux SA	25	2540	
J. B. Chemicals & Pharmaceuticals Limited	35	3520	352020	Jcontentree corp.	25	2540	
J.B. Hunt Transport Services, Inc.	20	2030	203040				
J.K. Cement Limited	15	1510	151020	JCR Pharmaceuticals Co., Ltd.	35	3520	352020
j2 Global, Inc.	45	4510	451010	JCY International Berhad	45	4520	452020
Jabil Inc.	45	4520	452030	JD Sports Fashion plc	25	2550	255040
JAC Recruitment Co., Ltd.	20	2020	202020				
JACCS Co., Ltd.			402020	Jenoptik AG	45		
Jack Henry & Associates, Inc.	45	4510	451020	Jerónimo Martins, SGPS, S.A.	30	3010	
Jacobs Engineering Group Inc.	20	2010	201030	JGC Corporation	20	2010	201030
Jacquet Metal Service SA	20	2010	201070	Jiangsu Expressway Company Limited	20	2030	203050
JAFCO Co., Ltd.			402030	Jimoto Holdings, Inc.			401010
Jagran Prakashan Limited	25	2540		JINS Inc.	25	2550	255040
JAMCO Corporation	20	2010	201010				
Japan Airlines Co., Ltd.	20	2030	203020	JK Lakshmi Cement Limited	15	1510	151020
Japan Airport Terminal Co., Ltd.	20	2030	203050	JK Tyre & Industries Limited	25	2510	251010
Japan Aviation Electronics Industry, Limited	45	4520	452030	JM AB (publ)	25	2520	252010

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JM Financial Limited			402030	Kagome Co., Ltd.	30	3020	302020
John B. Sanfilippo & Son, Inc.	30	3020	302020	Kaiser Aluminum Corporation	15	1510	151040
John Bean Technologies Corporation	20	2010	201060	Kajaria Ceramics Limited	20	2010	201020
John Wiley & Sons, Inc.	25	2540		Kajima Corporation	20	2010	201030
John Wood Group PLC	10	1010	101010	Kakaku.com, Inc.	45	4510	451010
				Kakao Corp.	45	4510	451010
Johnson & Johnson	35	3520	352020	Kaken Pharmaceutical Co., Ltd.	35	3520	352020
Johnson Controls - Hitachi	25	2520	252010	Kalpataru Power Transmission Limited	20	2010	201030
Johnson Electric Holdings Limited	20	2010	201040				
Johnson Health Tech. Co., Ltd.	25	2520	252020	Kaman Corporation	20	2010	
Johnson Matthey Plc	15	1510		Kameda Seika CO., Ltd.	30	3020	302020
J-Oil Mills, Inc.	30	3020	302020				
				Kamei Corporation	20	2010	201070
Jollibee Foods Corporation	25	2530	253010	Kamigumi Co., Ltd.	20	2030	203050
Jones Lang LaSalle Incorporated			601020	Kanamoto Company Ltd.	20	2010	201070
Joshin Denki Co., Ltd.	25	2550	255040	Kandenko Co., Ltd.	20	2010	201030
JSE Limited			402030	Kanematsu Electronics Ltd.	45	4510	451020
JSL S.A.	20	2030	203040	Kangwon Land, Inc.	25	2530	253010
JSP Corporation	15	1510	151010				
JSR Corporation	15	1510	151010	Kansai Nerolac Paints Limited	15	1510	151010
JSW Steel Limited	15	1510	151040				
JTEKT Corporation	20	2010	201060	Kansai Paint Co., Ltd.	15	1510	151010
Ju Teng International Holdings Limited	45	4520	452030	Kansai Super Market Ltd.	30	3010	
Jubilant FoodWorks Limited	25	2530	253010	Kansai Urban Banking Corporation			401010
Jubilant Life Sciences Limited	35	3520	352020				
Juhayna Food Industries S.A.E.	30	3020	302020	Kansas City Southern	20	2030	203040
Julius Baer Group Ltd.			402030	Kanto Denka Kogyo Co., Ltd.	15	1510	151010
Jumbo S.A.	25	2550	255040	Kao Corporation	30	3030	
Jungheinrich Aktiengesellschaft	20	2010	201060	KappAhl AB (publ)	25	2550	255040
Juniper Networks, Inc.	45	4520	452010	Kapsch TrafficCom AG	45	4520	452030
				Kardex AG	20	2010	201060
Jupiter Fund Management Plc			402030	Kasai Kogyo Co., Ltd.	25	2510	251010
JustSystems Corporation	45	4510	451030	Kasikornbank Public Company Limited			401010
				Kato Sangyo Co., Ltd.	30	3010	
Jvm Co., Ltd.	20	2010	201060				
				Kato Works Co., Ltd.	20	2010	201060
JXTG Holdings, Inc.	10	1010	101020	Kaveri Seed Company Limited	30	3020	302020
Jyothy Laboratories Limited	30	3030	303010	KB Home	25	2520	252010
K. Wah International Holdings Limited			601020				401010
K.P.R. Mill Limited	25	2520	252030	KBC Group NV			
K+S Aktiengesellschaft	15	1510		KCE Electronics Public Company Limited	45	4520	452030
K12 Inc.	25	2530	253020	KCOM Group PLC	50		501010
kabu.com Securities Co., Ltd.			402030	KDDI Corporation	50		501020
Kadant Inc.	20	2010	201060	KEC International Limited	20	2010	201030
Kaga Electronics Co.,Ltd.	45			Keihin Corporation	25	2510	251010
				Keikyu Corporation	20		

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Keisei Electric Railway Co., Ltd.	20			Kingsoft Corporation Limited	45	4510	451030
Keiyo Co., Ltd.	25	2550	255040	Kingspan Group plc	20	2010	201020
Keller Group plc	20	2010	201030	Kinik Company	20	2010	
Kellogg Company	30	3020	302020	Kinpo Electronics, Inc.	25	2520	252010
Kelly Services, Inc.	20	2020	202020	Kinsus Interconnect Technology Corp.	45	4530	
Kemira Oyj	15	1510	151010	Kintetsu World Express, Inc.	20	2030	203010
Kemper Corporation			403010	Kirby Corporation	20	2030	203030
Kenda Rubber Industrial Co. Ltd.	25	2510	251010	Kirin Holdings Company, Limited	30	3020	302010
Kenedix Office Investment Corporation			601010	Kirkland Lake Gold Ltd.	15	1510	151040
Kenedix, Inc.			601020	Kirkland's, Inc.	25	2550	255040
KENKO Mayonnaise Co.,Ltd.	30	3020	302020	Kisco Corp.	15	1510	151040
Kennametal Inc.	20	2010	201060	Kisoji Co., Ltd.	25	2530	253010
KEPCO Engineering & Construction Company, Inc.	20	2010	201030	Kissei Pharmaceutical Co., Ltd.	35	3520	352020
KEPCO Plant Service & Engineering Co., Ltd.	20	2020	202010	KisWire Ltd.	15	1510	151040
Kering SA	25			KITZ Corporation	20	2010	201060
Kerry Group plc	30	3020	302020	Kiwi Property Group Limited			601010
Kerry Properties Limited			601020	Kiwoom Securities Co., Ltd.			402030
Kerry T.J. Logistics Company Limited	20	2030	203010	Klabi S.A.	15	1510	
Key Coffee Inc.	30	3020	302020	KLA-Tencor Corporation	45	4530	
Keyence Corporation	45	4520	452030	Klövern AB			601020
Keyera Corp.	10	1010	101020	KMC (Kuei Meng) International Inc.	25	2520	252020
KG Inicis Co., Ltd.	45	4510		Knoll, Inc.	20	2020	202010
Khon Kaen Sugar Industry Public Company Limited	30	3020	302020	KNT-CT Holdings Co., Ltd.	25	2530	253010
Kia Motors Corporation	25	2510	251020	KOA Corporation	45	4520	452030
Kier Group plc	20			Koatsu Gas Kogyo Co., Ltd.	15	1510	151010
Kikkoman Corporation	30			Kobayashi Pharmaceutical Co., Ltd.	30	3030	303020
Kilroy Realty Corporation			601010	Kobe Bussan Co., Ltd.	30	3010	
Kimball International, Inc.	20	2020	202010	Koei Tecmo Holdings Co., Ltd.	45	4510	451030
Kimberly-Clark Corporation	30	3030		Koh Young Technology Inc.	45	4530	
Kimberly-Clark de México, S. A. B. de C. V.	30	3030	303010	Kohl's Corporation	25	2550	255030
Kimco Realty Corporation			601010	Kohnan Shoji Co., Ltd.	25	2550	255040
Kinden Corporation	20	2010	201030	Koito Manufacturing Co., Ltd.	25	2510	251010
Kinder Morgan, Inc.	10	1010	101020	Kolao Holdings	25	2550	
Kindom Construction Corp.			601020	Kolon Corporation	20	2010	201050
King Slide Works Co., Ltd.	20	2010	201060	Kolon Industries, Inc.	15	1510	151010
King Yuan ELECTRONICS CO., LTD.	45	4530		Kolon Life Science Inc.	35	3520	352020
Kingboard Laminates Holdings Limited	45	4520	452030	Komatsu Ltd.	20	2010	201060
Kingdee International Software Group Company Limited	45	4510	451030	Komax Holding AG	20	2010	201060
Kingfisher plc	25	2550	255040	Komercni banka, a.s.			401010
Kingpak Technology Inc.	45	4520	452030				

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Komeri Co.,Ltd.	25	2550	255040	Kubota Corporation	20	2010	201060
Komori Corporation	20	2010	201060	Kudelski SA	45	4520	452030
KONE Oyj	20	2010	201060	Kuehne + Nagel International AG	20	2030	203030
Konecranes Plc	20			Kukdo Chemical Co., Ltd.	15	1510	151010
Kongsberg Automotive ASA	25	2510	251010	Kulicke and Soffa Industries, Inc.	45	4530	
Konica Minolta, Inc.	45	4520	452020	Kumagai Gumi Co., Ltd.	20	2010	201030
Koninklijke Ahold Delhaize N.V.	30	3010		Kumho Petrochemical Co., Ltd.	15	1510	151010
Koninklijke KPN N.V.	50			Kumho Tire Co., Inc.	25	2510	251010
Konishi Co., Ltd.	15	1510	151010	Kumiai Chemical Industry Co., Ltd.	15	1510	151010
Korea Aerospace Industries, Ltd.	20	2010	201010	Kung Long Batteries Industrial Co.	20	2010	201040
Korea District Heating Corp.	55		551010	Kungsleden AB			601020
Korea Electric Power Corporation	55		551010	Kunlun Energy Company Limited	10	1010	101020
Korea Electric Terminal Co., Ltd.	20	2010	201040	Kuoyang Construction Co.			601020
Korea Information & Communications Co., Ltd.	45	4510	451020	Kura Corporation	25	2530	253010
Korea Investment Holdings Co., Ltd.			402030	Kuroda Electric Co., Ltd.	20	2010	201070
Korea Kolmar Holdings Co., Ltd.	30	3030	303020	Kwang Dong Pharmaceutical Co., Ltd.	35	3520	352020
Korea Petrochemical Ind. Co., Ltd.	15	1510	151010	KWG Property Holding Limited			601020
Korea United Pharm Inc.	35	3520	352020	KWS Saat SE	30	3020	302020
Korea Zinc Co., Ltd.	15	1510	151040	Kyobo Securities Co., Ltd			402030
Korean Reinsurance Company			403010	Kyocera Corporation	45		
KOREIT			601020	Kyodo Printing Co., Ltd.	20	2020	202010
Korian	35	3510	351020	Kyoei Steel Ltd.	15	1510	151040
Korn/Ferry International	20	2020	202020	Kyokuto Kaihatsu Kogyo Co., Ltd.	20	2010	201060
KOSÉ Corporation	30	3030	303020	Kyokuto Securities Co., Ltd.			402030
Koshidaka Holdings Co., Ltd.	25	2530	253010	KYORIN Holdings, Inc.	35	3520	352020
Kossan Rubber Industries Bhd	35	3510	351010	Kyowa Exeo Corporation	20	2010	201030
Kotobuki Spirits Co., Ltd.	30	3020	302020	Kyowa Hakko Kirin Co., Ltd.	35	3520	352020
KPIT Technologies Limited	45	4510		Kyudenko Corporation	20	2010	201030
KPJ Healthcare Berhad	35	3510	351020	Kyung Dong Navien Co., Ltd.	20	2010	201020
Kraton Corporation	15	1510	151010	Kyungbang Co.,Ltd	25	2520	252030
KRBL Limited	30	3020	302020	Kyushu Financial Group, Inc.			401010
Krones AG	20	2010	201060	L&T Finance Holdings Limited			402010
KRUK Spółka Akcyjna			402020	L.P.N. Development Public Company Limited			601020
Krung Thai Bank Public Company Limited			401010	La Doria SpA	30	3020	302020
Krungthai Card Public Company Limited			402020	La Opala RG Limited	25	2520	252010
K's Holdings Corporation	25	2550	255040	Laboratory Corporation of America Holdings	35		
KSL Holdings Berhad			601020	Labrador Iron Ore Royalty Corp.	15	1510	151040
KT Skylife Co., Ltd.	25	2540		Ladbroke's Coral Group plc	25	2530	253010
Kuala Lumpur Kepong Berhad	30			Lafarge Malaysia Berhad	15	1510	151020
				LafargeHolcim Ltd	15	1510	151020
				Lagardère SCA	25		

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Lai Sun Development Company Limited			601020	LF Corp.	25	2520	252030
Laird PLC	45	4520	452030	LG Display Co., Ltd.	45	4520	452030
Lakeland Bancorp, Inc.			401010	LG Hausys Ltd.	20	2010	201020
Lakshmi Machine Works Limited	20	2010	201060	LG Household & Health Care Ltd.	30	3030	303020
Lam Research Corporation	45	4530		LG Innotek Co., Ltd.	45	4520	452030
Lamar Advertising Company (REIT)			601010	LG International Corp.	20		
Lancashire Holdings Limited			403010	LHC Group, Inc.	35	3510	351020
Lancaster Colony Corporation	30	3020	302020	Li & Fung Limited	25	2520	252030
Land Securities Group plc			601010	Li Cheng Enterprise Co., Ltd.	25	2520	252030
Landauer, Inc.	35	3510	351020	Li Peng Enterprise Co., Ltd.	25	2520	252030
Landstar System, Inc.	20	2030	203040	Libbey Inc.	25	2520	252010
Lannett Company, Inc.	35	3520	352020	Liberty Holdings Limited			403010
Largan Precision Co., Ltd.	45	4520	452030	Liberty Property Trust			601010
Las Vegas Sands Corp.	25	2530	253010	LIC Housing Finance Limited			401020
LaSalle Hotel Properties			601010	Lien Hwa Industrial Corp.	30	3020	302020
Lasertec Corporation	45	4530		Life Corporation	30	3010	
Laurentian Bank of Canada			401010	Life Healthcare Group Holdings Limited	35	3510	351020
Lawson, Inc.	30	3010		Life Storage, Inc.			601010
La-Z-Boy Incorporated	25			LifePoint Health, Inc.	35	3510	351020
LCI Industries	25	2510	251010	Ligand Pharmaceuticals Incorporated	35	3520	352010
LCY Chemical corp.	15	1510	151010	Light S.A.	55		551010
Leaders Cosmetics Co., Ltd.	30	3030	303020	Linamar Corporation	25	2510	251010
Lealea Enterprise Co., Ltd.	25	2520	252030	Lincoln Electric Holdings, Inc.	20	2010	201060
Lee and Man Paper Manufacturing Limited	15	1510	151050	Lincoln National Corporation			403010
LEENO Industrial Inc.	45	4530		Lindab International AB	20	2010	201020
Lee's Pharmaceutical Holdings Limited	35			Linde Aktiengesellschaft	15	1510	151010
LegacyTexas Financial Group, Inc.			401010	Lindsay Corporation	20	2010	201060
Legg Mason, Inc.			402030	Linical Co., Ltd.	35	3520	352030
Legrand SA	20	2010	201040	Link Real Estate Investment Trust			601010
Leidos Holdings, Inc.	45			Lion Corporation	30	3030	303010
LendingTree, Inc.			401020	Lippo Malls Indonesia Retail Trust			601010
LendLease Group			601020	Lisi S.A.	20	2010	201010
Lennar Corporation	25	2520	252010	Lite-On Semiconductor Corp.	45	4530	
Lenovo Group Limited	45	4520	452020	Lite-On Technology Corporation	45	4520	
Lenzing Aktiengesellschaft	15	1510	151010	Lithia Motors, Inc.	25	2550	255040
Leopalace21 Corporation			601020	Littelfuse, Inc.	45	4520	452030
Lerøy Seafood Group Asa	30	3020	302020	Liu Chong Hing Investment Limited			601020
Lewis Group Limited	25	2550	255040	LIXIL Group Corporation	20	2010	201020
Lexington Realty Trust			601010				
Lextar Electronics Corporation	45	4530					

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LKQ Corporation	25	2550	255010	Lungyen Life Service Corporation	25	2530	253020
Loblaw Companies Limited	30	3010		Lupin Limited	35	3520	352020
Localiza Rent a Car S.A.	20	2030	203040	Lutronic Corporation	35	3510	351010
Lock&Lock Co., Ltd.	15	1510	151030	Luxottica Group S.p.A.	25	2520	252030
Lockheed Martin Corporation	20	2010	201010	M. Dias Branco S.A. Indústria e Comércio de Alimentos	30	3020	302020
LOEN Entertainment, Inc.	25	2540		M.D.C. Holdings, Inc.	25	2520	252010
Logitech International S.A.	45	4520	452020	M/I Homes, Inc.	25	2520	252010
LogMeln, Inc.	45	4510	451010	M1 Limited	50		501020
Lojas Americanas S.A.	25	2550		M3, Inc.	35	3510	351030
Lojas Renner S.A.	25	2550	255030	Mabuchi Motor Co., Ltd.	20	2010	201040
LondonMetric Property Plc			601010	Macauto Industrial Co., Ltd.	25	2510	251010
Long Bon International Co., Ltd.			403010	Macerich Company			601010
Long Chen Paper Co., Ltd.	15	1510	151050	Mack-Cali Realty Corporation			601010
Longfor Properties Co. Ltd.			601020	Macnica Fuji Electronics Holdings, Inc.	45	4520	452030
Lonking Holdings Limited	20	2010	201060	Macquarie Group Limited			402030
Lookers plc	25	2550	255040	Macrogen Inc.	35	3520	352030
Loomis AB (publ)	20	2020	202010	Macy's, Inc.	25	2550	255030
L'Oréal S.A.	30	3030	303020	Madinet Nasr for Housing & Dev			601020
LOTES Co., Ltd.	45	4520	452030	Maeda Corporation	20	2010	201030
Lotte Chemical Corporation	15	1510	151010	Maeda Kosen Co., Ltd.	20	2010	201020
Lotte Chilsung Beverage Co.,Ltd.	30	3020	302010	MAEDA ROAD CONSTRUCTION Co., Ltd.	20	2010	
Lotte Fine Chemical Co., Ltd.	15	1510	151010	Maeil Holdings Co., Ltd.	30	3020	302020
Lotte Food Co.,Ltd.	30	3020	302020	Magazine Luiza S.A.	25	2550	255030
LOTTE Himart Co.,Ltd.	25	2550	255040	Magellan Aerospace Corporation	20	2010	201010
Lotte Non - Life Insurance Co., Ltd.			403010	Magellan Financial Group			402030
Louisiana-Pacific Corporation	15	1510	151050	Magellan Health, Inc.	35	3510	351020
Lowe's Companies, Inc.	25	2550	255040	Magna International Inc.	25	2510	251010
LPP Spolka Akcyjna	25	2520	252030	Magnum Berhad	25	2530	253010
LS Corp.	20	2010	201040	Magyar Telekom			
LSIS Co., Ltd.	20	2010		Telecommunications Public Limited Company	50		501010
LTC Properties, Inc.			601010	Mah Sing Group Berhad			601020
Lubelski Wegiel Bogdanka S.A.	10	1010	101020	Mahindra & Mahindra Financial Services Limited			402020
Lucara Diamond Corp.	15	1510	151040	Mahindra CIE Automotive Limited	25	2510	251010
Luk Fook Holdings (International) Limited	25	2550		Mahindra Holidays & Resorts India Limited	25	2530	253010
Lumber Liquidators Holdings, Inc.	25	2550	255040	Mahle Metal Leve S.A.	25	2510	251010
Luminex Corporation	35	3520	352030	Maiden Holdings, Ltd.			403010
Lumos Networks Corp.	50			Makalot Industrial Co., Ltd.	25	2520	252030
Lundin Mining Corporation	15	1510	151040	Makino Milling Machine Co., Ltd.	20	2010	201060
				Makita Corporation	20	2010	201060

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Malayan Banking Berhad			401010	Maruha Nichiro Corporation	30	3020	302020
Malaysia Airports Holdings Berhad	20			Marui Group Co., Ltd.	25	2550	255030
Malaysia Building Society Berhad			401020	Maruichi Steel Tube Ltd.	15	1510	151040
Malaysian Pacific Industries Berhad	45	4530		Marusan Securities Co., Ltd.			402030
Malee Group Public Company Limited	30	3020	302020	Maruti Suzuki India Limited	25	2510	251020
MAN SE	20	2010	201060	Maruzen Showa Unyu Co., Ltd.	20	2030	203040
Man Wah Holdings Limited	25	2520	252010	Marvell Technology Group Ltd.	45	4530	
Manappuram Finance Limited			402020	Marvelous Inc.	45	4510	451030
Mandom Corporation	30	3030	303020	Masimo Corporation	35	3510	351010
Manhattan Associates, Inc.	45	4510	451030	Massmart Holdings Limited	30	3010	
Mani, Inc.	35	3510	351010	MasTec, Inc.	20	2010	201030
Manila Water Company, Inc.	55		551040	MasterLink Securities Corporation			402030
Manitou BF SA	20	2010	201060	Materion Corporation	15	1510	151040
ManpowerGroup Inc.	20	2020	202020	Matrix IT Ltd.	45	4510	451020
ManTech International Corporation	45	4510	451020	Matrix Service Company	10	1010	
Manulife Financial Corporation			403010	Matson, Inc.	20	2030	203030
Mapfre, S.A.			403010	Matsui Securities Co., Ltd.			402030
Maple Leaf Foods Inc.	30	3020	302020	Matsumotokiyoshi Holdings Co., Ltd.	30	3010	
Mapletree Commercial Trust			601010	Matsuya Co., Ltd.	25	2550	255030
Mapletree Industrial Trust			601010	Matsuya Foods Co., Ltd.	25	2530	253010
Mapletree Logistics Trust			601010	Mattel, Inc.	25	2520	252020
Marathon Oil Corporation	10	1010	101020	Max Co., Ltd.	20		
Marathon Petroleum Corporation	10	1010	101020	Max Financial Services Limited			403010
Marcopolo S.A.	20	2010	201060	Maxim Integrated Products, Inc.	45	4530	
Marico Limited	30	3030	303020	MAXIMUS, Inc.	45	4510	451020
Marine Harvest ASA	30	3020	302020	Maxis Berhad	50		501020
MarineMax, Inc.	25	2550	255040	Mayne Pharma Group Limited	35	3520	352020
Marisa Lojas S.A.	25	2550	255030	Mazaya Qatar Real Estate Dev.			601020
MarketAxess Holdings Inc.			402030	Mazda Motor Corporation	25	2510	251020
Marksans Pharma Limited	35	3520	352020	mBank S.A.			401010
MARR S.p.A.	30	3010		McCormick & Company, Incorporated	30	3020	302020
Marriott Vacations Worldwide Corporation	25	2530	253010	MCJ Co., Ltd.	45	4520	452020
Marshalls plc	15	1510	151020	McKesson Corporation	35	3510	351020
Marten Transport, Ltd.	20	2030	203040	McLeod Russel India Limited	30	3020	302020
Martin Marietta Materials, Inc.	15	1510	151020				
Martinrea International Inc.	25	2510	251010				
Marubeni Corporation	20	2010	201070				
Marudai Food Co., Ltd.	30	3020	302020				

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MCUBS MidCity Investment Corporation			601010	Mercury General Corporation			403010
				Mercury Systems, Inc.	20	2010	201010
				Meredith Corporation	25	2540	
Media Prima Berhad	25	2540		Merida Industry Co.,Ltd.	25	2520	252020
Mediaset España Comunicación, S.A.	25	2540		Meridian Bioscience, Inc.	35		
				Merit Medical Systems, Inc.	35	3510	351010
MediaTek Inc.	45	4530		Meritage Homes Corporation	25	2520	252010
				Meritz Financial Group Inc.			402010
Medical Properties Trust, Inc.			601010	Meritz Fire & Marine Insurance Co., Ltd.			403010
Medicare Group Q.S.C.	35	3510	351020	Meritz Securities Co., Ltd.			402030
Medidata Solutions, Inc.	35	3510	351030	Merry Electronics Co., Ltd.	45	4520	452030
Medifast, Inc.	30	3030	303020	Methanex Corporation	15	1510	151010
				Methode Electronics, Inc.	45	4520	452030
MEDNAX, Inc.	35	3510	351020	MetLife, Inc.			403010
				Metlifecare Limited	35	3510	351020
Medy-Tox Inc.	35	3520	352010	Metro Inc.	30	3010	
				Metro Pacific Investments Corporation			402010
MegaChips Corporation	45	4530		Métropole Télévision S.A.	25	2540	
Megaworld Corporation			601020	Metsä Board Oyj	15	1510	151050
Meggitt PLC	20	2010	201010	Metso Corporation	20	2010	201060
Megmilk Snow Brand Co., Ltd.	30	3020		Mettler-Toledo International Inc.	35	3520	352030
Meiji Holdings Co., Ltd.	30	3020	302020	MGE Energy, Inc.	55		
Meiko Network Japan Co., Ltd.	25	2530	253020	MGI Coutier SA	25	2510	251010
				MGIC Investment Corporation			401020
Meitec Corporation	20	2020	202020	MGM China Holdings Limited	25	2530	253010
Mekonomen AB	25	2550	255040	MGM Resorts International	25	2530	253010
Melco Holdings Inc.	45	4520	452020	MGP Ingredients, Inc.	30	3020	302010
Melco International Development Limited	25	2530	253010	Michael Hill International Limited	25	2550	255040
				Michael Kors Holdings Limited	25	2520	
Melexis NV	45	4530		Microchip Technology Incorporated	45	4530	
				Microlife Corporation	35	3510	351010
Meliá Hotels International, S.A.	25	2530	253010	Micron Technology, Inc.	45	4530	
Melisron Ltd.			601020	Micronics Japan Co.,Ltd.	45	4530	
Melrose Industries PLC	20			MicroPort Scientific Corporation	35	3510	351010
Menora Mivtachim Holdings Ltd			403010	Microsemi Corporation	45	4530	
Mercadolibre, Inc.	45	4510	451010	Microsoft Corporation	45	4510	451030
Mercer International Inc.	15	1510	151050	Micro-Star International Co., Ltd.	45	4520	452020
Mercialys			601010	MicroStrategy Incorporated	45	4510	451030
Merck & Co., Inc.	35	3520	352020	Mid-America Apartment Communities, Inc.			601010
Merck Kommanditgesellschaft Aktien	35	3520	352020				
Mercuries & Associates, Holding Ltd.			403010	Midas Holdings Limited	15	1510	151040
Mercuries Life Insurance Co., Ltd.			403010				

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Middlesex Water Company	55		551040	Mitsui Sugar Co., Ltd.	30	3020	302020
Milbon Co., Ltd.	30	3030	303020	Miura Co., Ltd.		20	
Millicom International Cellular	50		501020	mixi, Inc.	45	4510	451010
Mimasu Semiconductor				Mizrahi Tefahot Bank Ltd.			401010
Industry Co., Ltd.	45	4530		Mizuho Financial Group, Inc.			401010
MiMedx Group, Inc.	35	3520	352010	Mizuno Corporation	25	2520	252020
Mindtree Limited	45	4510		MKS Instruments, Inc.	45	4530	
MinebeaMitsumi Inc.	20			MMI Holdings Limited			403010
Mineral Resources Limited	15	1510	151040	Mobile Mini, Inc.	20	2020	202010
Minerals Technologies Inc.	15	1510		Mobimo Holding AG			601020
MINISTOP Co., Ltd.	30	3010		Mochida Pharmaceutical Co., Ltd.	35	3520	352020
Minmetals Land Limited			601020	MODEC, Inc.	10	1010	101010
Minor International Public				Modern Times Group Mtg AB	25	2540	
Company Limited	25	2530	253010	MODETOUR NETWORK Inc.	25	2530	253010
Minth Group Limited	25	2510	251010	Modine Manufacturing			
Miquel y Costas & Miquel, S.A.	15	1510	151050	Company	25	2510	251010
Miraca Holdings Inc.	35	3510	351020	Mohawk Industries, Inc.	25	2520	252010
Mirae Asset Daewoo Co., Ltd.			402030	MOIL Limited	15	1510	151040
Miroku Jyoho Service Co., Ltd.	45	4510	451030	MOL Magyar Olaj- es Gazipari			
Mirvac Group			601010	Nyilvanosan Mukodo			
Misawa Homes Co., Ltd.	25	2520	252010	Reszvenytarsasag	10	1010	101020
MISC Berhad	20	2030	203030	Molina Healthcare, Inc.	35	3510	351020
Mitchells & Butlers plc	25	2530	253010	Monadelphous Group Limited	20	2010	201030
Mitel Networks Corporation	45	4520	452010	Monarch Casino & Resort, Inc.	25	2530	253010
Mitie Group plc	20			Mondelez International, Inc.	30	3020	302020
Mitsuba Corporation	25	2510	251010	Mondi plc	15	1510	151050
Mitsubishi Gas Chemical				Monex Group, Inc.			402030
Company, Inc.	15	1510	151010	Moneysupermarket.com Group			
Mitsubishi Heavy Industries,				PLC	45	4510	451010
Ltd.	20	2010	201060	Monolithic Power Systems, Inc.	45	4530	
Mitsubishi Logistics				MonotaRO Co., Ltd.	20	2010	201070
Corporation	20	2030	203050	Monotype Imaging Holdings			
Mitsubishi Motors Corporation	25	2510	251020	Inc.	45	4510	451030
Mitsubishi Pencil Co., Ltd.	20	2020	202010	Monsanto India Limited	15	1510	151010
Mitsubishi Shokuhin Co., Ltd.	30	3010		Monster Beverage Corporation	30	3020	302010
Mitsubishi Steel Mfg. Co., Ltd.	15	1510	151040	Moog Inc.	20	2010	
Mitsubishi Tanabe Pharma				Morgan Stanley			402030
Corporation	35	3520	352020	Mori Hills REIT Investment			
Mitsuboshi Belting Ltd.	20	2010	201060	Corporation			601010
Mitsui Chemicals, Inc.	15	1510	151010	MORI TRUST Sogo Reit,			
Mitsui Engineering &				Incorporation			601010
Shipbuilding Co., Ltd.	20	2010		Morinaga & Co., Ltd.	30	3020	302020
Mitsui Fudosan Co., Ltd.			601020	Morinaga Milk Industry Co., Ltd.	30	3020	302020
Mitsui High-tec, Inc.	45	4530		Morita Holdings Corporation	20	2010	201060
Mitsui Home Co., Ltd.	25	2520	252010	Morneau Shepell Inc.	20	2020	202020
				Morningstar, Inc.			402030
				Morpho, Inc.	45	4510	451030

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MOS Food Services, Inc.	25	2530	253010	Nagatanien Holdings Co.,Ltd.	30	3020	302020
Mota-Engil, SGPS, S.A.	20	2010	201030	Nagoya Railroad Co., Ltd.	20	2030	
Motherson Sumi Systems Limited	25	2510	251010	Nakanishi Inc.	35	3510	351010
Motilal Oswal Financial Services Limited			402030	Namhae Chemical Corporation	15	1510	151010
Movado Group, Inc.	25	2520	252030	Namura Shipbuilding Co., Ltd.	20	2010	201060
Mpact Limited	15	1510	151030	NamYang Dairy Products Co., Ltd	30	3020	302020
MphasiS Limited	45	4510	451020	Nan Liu Enterprise Co., Ltd.	25	2520	252030
Mr Price Group Limited	25	2550	255040	NanKang Rubber Tire Corp., Ltd.	25	2510	251010
MS&AD Insurance Group Holdings, Inc.			403010	Nanometrics Incorporated	45	4530	
MSA Safety Incorporated	20	2020	202010	Naphtha Israel Petroleum Corp. Ltd.	10	1010	101020
MSC Industrial Direct Co., Inc.	20	2010	201070	Nasdaq, Inc.			402030
MSCI Inc.			402030	NATCO Pharma Limited	35	3520	352020
MTI Ltd.	45	4510	451030	National Australia Bank Limited			401010
MTN Group Limited	50		501020	National Bank of Canada			401010
MTS Systems Corporation	45	4520	452030	National Beverage Corp.	30	3020	302010
MTU Aero Engines AG	20			National Central Cooling Company PJSC	20	2010	201020
Mueller Water Products, Inc.	20	2010	201060	National Express Group PLC	20	2030	203040
Muhak Co., Ltd.	30	3020	302010	National Grid plc	55		
Muhibbah Engineering (M) Bhd.	20	2010	201030	National HealthCare Corporation	35	3510	351020
Mullen Group Ltd.	10	1010	101010	National Instruments Corporation	45	4520	452030
Multi Commodity Exchange of India Limited			402030	National Oilwell Varco, Inc.	10	1010	101010
Multi-Color Corporation	20	2020	202010	National Retail Properties, Inc.			601010
Multiplan Empreendimentos Imobiliários S.A.			601020	Natixis S.A.			402030
Multiplus S.A.	25	2540		Natura Cosméticos S.A.	30	3030	303020
Münchener Rückversicherungs-Gesellschaft Aktiengesellschaft			403010	Natural Gas Services Group, Inc.	10	1010	101010
Murata Manufacturing Co., Ltd.	45	4520	452030	Natus Medical Incorporated	35	3510	351010
Murphy Oil Corporation	10	1010	101020	Nautilus, Inc.	25		
Murray & Roberts Holdings Limited	20	2010	201030	Navitas Limited	25	2530	253020
Musashi Seimitsu Industry Co., Ltd.	25	2510	251010	NBT Bancorp Inc.			401010
Muthoot Finance Limited			402020	NCC Limited	20	2010	201030
My E.G. Services Berhad	45	4510	451020	NCI Building Systems, Inc.	20	2010	201020
Mycronic AB (publ)	45	4520	452030	NCR Corporation	45		
Myer Holdings Limited	25	2550	255030	NCsoft Corporation	45	4510	451030
MYR Group Inc.	20	2010	201030	NEC Capital Solutions Limited			402010
Myriad Genetics, Inc.	35	3520	352010	NEC Corporation	45	4520	
N Brown Group plc	25	2550	255020	NEC Networks & System Integration Corporation	45	4510	451020
Nabtesco Corporation	20	2010		Nedbank Group Limited			401010
NACCO Industries, Inc.	10			Neenah, Inc.	15	1510	151050
Nagaiben Co., Ltd.	35	3510	351010	Nemetschek SE	45	4510	451030

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Neogen Corporation	35			NIC Inc.	45	4510	451010
Neopost S.A.	45	4520	452020	NICE Holdings Co., Ltd.			402010
Nestlé India Limited	30	3020	302020	Nice Information & Telecommunication, Inc.	45	4510	451020
Nestlé S.A.	30	3020	302020	NICE Information Service Co., Ltd.			402010
Net 1 UEPS Technologies, Inc.	45			NICE Ltd.	45	4510	451030
Net Holding A.S	25	2530	253010	Nichicon Corporation	45	4520	452030
Net One Systems Co., Ltd.	45	4510	451020	NICHIDEN Corporation	20	2010	201070
NetApp, Inc.	45	4520	452020	Nichiha Corporation	20	2010	201020
Netcare Limited	35	3510	351020	NichiiGakkan Co., Ltd.	35	3510	351020
NetEnt AB (publ)	45	4510	451010	Nichi-Iko Pharmaceutical Co., Ltd.	35	3520	352020
Netflix, Inc.	25	2550	255020	Nickel Asia Corporation	15	1510	151040
NETGEAR, Inc.	45	4520	452010	Nien Hsing Textile Co., Ltd.	25	2520	252030
Netia S.A.	50		501010	Nifco Inc.	25	2510	251010
NetScout Systems, Inc.	45	4520	452010	Nihon Chouzai Co.,Ltd.	30	3010	
NEUCA SA	35	3510	351020	Nihon Kohden Corporation	35	3510	351010
Nevsun Resources Ltd.	15	1510	151040	Nihon Nohyaku Co., Ltd.	15	1510	151010
New Flyer Industries Inc.	20	2010	201060	Nihon Trim Co., Ltd.	20	2010	201060
New Jersey Resources Corporation	55		551020	Nihon Unisys, Ltd.	45		
New Wave Group AB (publ)	25			NIIT Technologies Limited	45	4510	451030
New World Development Company Limited			601020	NIKE, Inc.	25	2520	252030
New York Community Bancorp, Inc.			401020	Nikkon Holdings Co., Ltd.	20		
Newmont Mining Corporation	15	1510	151040	Nine Dragons Paper (Holdings) Limited	15	1510	151050
Newpark Resources, Inc.	10	1010	101010	Nippo Corporation	20	2010	201030
NewRiver REIT plc			601010	Nippon Accommodations Fund Inc.			601010
NEX Group plc			402030	Nippon Beet Sugar Manufacturing Co., Ltd.	30	3020	302020
Nexen Tire Corporation	25	2510	251010	Nippon Building Fund Incorporation			601010
Nexity SA			601020	Nippon Ceramic Co., Ltd.	45	4520	452030
NEXON Co., Ltd.	45	4510	451030	Nippon Denko Co., Ltd.	15	1510	151040
Nexon GT Co., Ltd.	45	4510	451030	Nippon Densetsu Kogyo Co., Ltd.	20	2010	201030
Next Plc	25	2550		Nippon Electric Glass Co., Ltd.	45	4520	452030
NextEra Energy, Inc.	55		551010	Nippon Express Co., Ltd.	20	2030	203040
NGK Spark Plug Co., Ltd.	25	2510	251010	Nippon Flour Mills Co., Ltd.	30	3020	302020
NH Foods Ltd.	30	3020	302020	Nippon Gas Co., Ltd.	55		551020
NH Investment & Securities Co., Ltd.			402030	Nippon Kanzai Co., Ltd.	20	2020	202010
NHK Spring Co., Ltd.	25	2510	251010	Nippon Light Metal Holdings Company, Ltd.	15	1510	151040
NHN KCP Corp.	45	4510	451020	Nippon Paint Holdings Co., Ltd.	15	1510	151010
				Nippon Paper Industries Co.,	15	1510	151050

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Ltd.				Nordex SE	20	2010	201040
NIPPON PARKING DEVELOPMENT Co.,Ltd.	20	2020	202010	Nordic Semiconductor ASA	45	4530	
Nippon Shinyaku Co., Ltd.	35	3520	352020	Nordstrom, Inc.	25	2550	255030
Nippon Shokubai Co., Ltd.	15	1510	151010	Norfolk Southern Corporation	20	2030	203040
Nippon Steel & Sumikin Bussan Corp	20	2010	201070	Noritz Corporation	20	2010	201020
NIPPON STEEL & SUMITOMO METAL CORP	15	1510	151040	NORMA Group SE	20	2010	201060
Nippon Suisan Kaisha, Ltd.	30	3020	302020	North Pacific Bank, Ltd.			401010
Nippon Telegraph and Telephone	50			Northern Star Resources Limited	15	1510	151040
Nippon Thompson Co., Ltd.	20	2010	201060	Northern Trust Corporation			402030
Nipro Corporation	35			Northgate plc	20	2030	203040
Nishimatsu Construction Co., Ltd.	20	2010	201030	Northland Power Inc.	55		551050
Nishimatsuya Chain Co., Ltd.	25	2550	255040	Northrop Grumman Corporation	20	2010	201010
Nishio Rent All Co., Ltd.	20	2010	201070	Northview Apartment Real Estate Investment Trust			601010
NiSource Inc.	55			Northwest Bancshares, Inc.			401020
Nissan Motor Co., Ltd.	25	2510	251020	Northwest Natural Gas Company	55		551020
Nissan Shatai Co., Ltd.	25	2510	251020	Northwestern Corporation	55		551030
Nisshin Seifun Group Inc.	30			Norway Royal Salmon AS	30	3020	302020
Nissin Corporation	20	2030	203050	Norwegian Air Shuttle ASA	20	2030	203020
Nissin Electric Co.,Ltd.	20	2010	201040	Norwegian Property ASA			601020
Nissin Foods Holdings Co., Ltd	30	3020	302020	NOS, S.G.P.S., S.A.	25	2540	
Nissin Kogyo Co., Ltd.	25	2510	251010	Novartis AG	35	3520	352020
Nitori Holdings Co., Ltd.	25	2550	255040	Novatek Microelectronics Corp.	45	4530	
Nitta Corporation	20	2010	201060	Novo Nordisk A/S	35	3520	352020
Nittetsu Mining Co., Ltd.	15	1510	151040	Novozymes A/S	15	1510	151010
Nitto Kohki Co., Ltd.	20	2010		NS Solutions Corporation	45	4510	451020
NKT A/S	20	2010	201040	NS United Kaiun Kaisha, Ltd.	20	2030	203030
Nobia AB (publ)	25	2520	252010	NSD Co., Ltd.	45	4510	451030
Noevir Holdings Co., Ltd.	30	3030	303020	NTN Corporation	20	2010	201060
Nohmi Bosai Ltd.	45	4520	452030	NTPC Limited	55		551050
Nojima Corporation	25	2550	255040	NTT Data Corporation	45	4510	451020
Nokian Renkaat Oyj	25	2510	251010	NTT DOCOMO, INC.	50		501020
NOMURA Co., Ltd.	20	2020	202020	NTT Urban Development Corporation			601020
Nomura Holdings, Inc.			402030	Nu Skin Enterprises, Inc.	30	3030	303020
Nomura Research Institute, Ltd.	45	4510	451020	Nucor Corporation	15	1510	151040
NongShim Co., Ltd.	30	3020	302020	Nufarm Limited	15	1510	151010
Norbord Inc.	15	1510	151050	NuFlare Technology, Inc.	45	4530	
				Nutrien Ltd.	15	1510	151010
				Nutrisystem, Inc.	25	2550	255020
				NuVasive, Inc.	35	3510	351010

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NV Bekaert SA	15	1510	151040			
NVIDIA Corporation	45	4530		ON Semiconductor Corporation	45	4530
NVR, Inc.	25	2520	252010	On-Bright Electronics Incorporated	45	4530
NWS Holdings Limited	20	2010	201050	ONEOK, Inc.	10	1010 101020
O2 Czech Republic a.s.	50		501010	O-Net Technologies (Group) Limited	45	4520 452010
Obara Group Incorporated	20	2010	201060	Ono Pharmaceutical Co., Ltd.	35	3520 352020
Obayashi Corporation	20	2010	201030	Onward Holdings Co., Ltd.	25	2520 252030
Oberoi Realty Limited			601020	Ooredoo Q.P.S.C.	50	501010
OBIC Business Consultants Co., Ltd.	45	4510	451030	Open Text Corporation	45	4510 451030
OBIC Co., Ltd.	45	4510	451020	OPTEX Group Co., Ltd.	45	4520 452030
Ocado Group plc	25	2550	255020	Oracle Corporation	45	4510 451030
Oceana Group Limited	30	3020	302020	Oracle Corporation Japan	45	4510 451030
OceanaGold Corporation	15	1510	151040	Orange Belgium S.A.	50	501020
Odontoprev S.A.	35	3510	351020	Orange Polska S.A.	50	501010
Oeneo SA	15	1510	151030	Orange S.A.	50	
Office Depot, Inc.	25	2550	255040	Orbital ATK, Inc.	20	2010 201010
OGE Energy Corp.	55		551010	Orbotech Ltd.	45	4520 452030
OHB SE	20	2010	201010	O'Reilly Automotive, Inc.	25	2550 255040
Ohsho Food Service Corp.	25	2530	253010	Organo Corporation	20	2010 201060
Oil and Natural Gas Corporation Limited	10	1010	101020	Orica Limited	15	1510 151010
Oil Search Limited	10	1010	101020	Orient Corporation		402020
Oil States International, Inc.	10	1010	101010	Orient Overseas (Int'l) Ltd	20	2030 203030
Oiles Corporation	20	2010	201060	Orient Semiconductor Electronics, Ltd.	45	
Oji Holdings Corporation	15	1510	151050	Oriental Land Co., Ltd.	25	2530 253010
Okabe Co., Ltd.	20	2010	201020	Oriental Union Chemical Corporation	15	1510 151010
Okamura Corporation	20	2020	202010	Oriental Weavers Company For Carpets (S.A.E)	25	2520 252010
Okasan Securities Group Inc.			402030	Origin Enterprises plc	30	3020 302020
Oki Electric Industry Co., Ltd.	45	4520		Oriola Oyj	35	3510 351020
Okuma Corporation	20	2010	201060	Orion Oyj	35	3520 352020
OKUWA Co., Ltd.	30	3010		ORIOR AG	30	3020 302020
Old Dominion Freight Line, Inc.	20	2030	203040	Oritani Financial Corp.		401020
Old National Bancorp			401010	ORIX JREIT Inc.		601010
Old Republic International Corporation			403010	Orkla ASA	30	3020 302020
Olin Corporation	15	1510	151010	ORPEA Société Anonyme	35	3510 351020
Olympus Corporation	35	3510	351010	Orthofix International N.V.	35	3510 351010
Omega Healthcare Investors, Inc.			601010	Osaka Soda Co., Ltd.	15	1510 151010
Omnia Holdings Limited	15	1510		Osaka Steel Co., Ltd.	15	1510 151040
Omnicell, Inc.	35	3510	351030	Osaki Electric Co., Ltd.	45	4520 452030
Omnicom Group Inc.	25	2540		OSG Corporation	20	2010 201060
OMV Aktiengesellschaft	10	1010	101020	Oshkosh Corporation	20	2010
On Assignment, Inc.	20	2020	202020	OSI Systems, Inc.	45	4520 452030
				OSJB Holdings Corporation	20	2010 201030
				Osstem Implant Co., Ltd.	35	3510 351010

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Österreichische Post AG	20	2030	203010	Paramount Bed Holdings Co., Ltd.	35	3510	351010
Otokar Otomotiv ve Savunma Sanayi A.S.	20	2010	201060	Parco Co. Ltd.	25	2550	255030
OTP Bank Plc.			401010	PAREXEL International Corporation	35	3520	352030
Otsuka Corporation	45	4510	451020	Pargesa Holding SA			402010
Otogi Corporation	30	3020	302020	Park Electrochemical Corp.	45	4520	452030
OUTSOURCING Inc.	20	2020		Park National Corporation			401010
Overstock.com, Inc.	25	2550	255020	Park24 Co., Ltd.	20		
Owens & Minor, Inc.	35	3510	351020	Parker-Hannifin Corporation	20	2010	201060
Owens-Illinois, Inc.	15	1510	151030	Parkland Fuel Corporation	10	1010	101020
Oxford Industries, Inc.	25	2520	252030	Park-Ohio Holdings Corp.	20	2010	201060
Oxford Instruments plc	45	4520	452030	Parkson Retail Group Limited	25	2550	255030
OZ Minerals Limited	15	1510	151040	Parque Arauco S.A.			601020
P. H. Glatfelter Company	15	1510	151050	Partner Communications Company Ltd.	50		501020
P/F Bakkafrost	30	3020	302020	Partners Group Holding AG			402030
PACCAR Inc	20	2010	201060	Partron Co., Ltd.	45	4520	452030
Pacific Industrial Co., Ltd.	25	2510	251010	Pason Systems Inc.	10	1010	101010
Pacific Online Limited	45	4510	451010	Patrick Industries, Inc.	20	2010	201020
Pacific Textiles Holdings Limited	25	2520	252030	PATRIZIA Immobilien AG			601020
Packaging Corporation of America	15	1510	151030	Patterson Companies, Inc.	35	3510	351020
PacWest Bancorp			401010	Patterson-UTI Energy, Inc.	10	1010	101010
Paddy Power Betfair plc	25	2530	253010	PAX Global Technology Limited	45	4520	452030
Padini Holdings Berhad	25	2550	255040	Paychex, Inc.	45	4510	451020
Page Industries Limited	25	2520	252030	PC Connection, Inc.	45	4520	452030
PageGroup plc	20	2020	202020	PC Depot Corporation	25	2550	255040
PAL GROUP Holdings CO., LTD.	25	2550		PCCW Limited	50		501010
Palm Hills Developments Company (S.A.E)			601020	PChome Online Inc.	45	4510	451010
Paltac Corporation	25	2550	255010	PDF Solutions, Inc.	45	4530	
Panalpina World Transport (Holding) Ltd.	20	2030		Pegas Nonwovens S.A.	25	2520	252030
Pandora A/S	25	2520	252030	Pegasystems, Inc.	45	4510	451030
Pan-International Industrial Corp.	45	4520	452030	Pegatron Corporation	45	4520	452020
PAO NOVATEK	10	1010	101020	Pembina Pipeline Corporation	10	1010	101020
PAO Severstal	15	1510	151040	Pennon Group Plc	55		551040
PAO TMK	10	1010	101010	Penske Automotive Group, Inc.	25	2550	255040
Papeles y Cartones de Europa, S.A.	15	1510		Penta-Ocean Construction Co., Ltd.	20	2010	201030
Parade Technologies, Ltd.	45	4530		People's United Financial, Inc.			401010
Paradise Co., Ltd.	25	2530	253010	Pepsico, Inc.	30	3020	
				Per Aarsleff Holding A/S	20	2010	201030
				Peregrine Holdings Limited			402030
				Perficient, Inc.	45	4510	451020

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PerkinElmer, Inc.	35	3520	352030	Piper Jaffray Companies			402030
Pernod Ricard SA	30	3020	302010	Piraeus Port Authority S.A.	20	2030	203050
Perpetual Limited			402030	Pitney Bowes Inc.	20	2020	202010
Persimmon plc	25	2520	252010	PixArt Imaging Inc.	45	4530	
Persistent Systems Limited	45	4510	451020	PJSC LUKOIL	10	1010	101020
Perusahaan Perseroan (Persero) PT Aneka Tambang Tbk	15	1510	151040	PJSC PhosAgro	15	1510	151010
Petkim Petrokimya Holding Anonim Sirketi	15	1510	151010	Plantronics, Inc.	45	4520	452010
PetMed Express, Inc.	25	2550	255020	Platinum Investment Management			402030
Petra Diamonds Limited	15	1510	151040	PLDT Inc.	50		
PetroChina Company Limited	10	1010	101020	Plenus Company Limited	25	2530	253010
Petronas Chemicals Group Berhad	15	1510	151010	Plexus Corp.	45	4520	452030
Peyto Exploration & Development Corp	10	1010	101020	PNM Resources, Inc.	55		551010
Pfeiffer Vacuum Technology AG	20	2010	201060	POLA Orbis Holdings Inc.	30	3030	303020
Pfizer Inc.	35	3520	352020	Polaris Industries Inc.	25	2520	252020
Pfizer Limited	35	3520	352020	Poly Property Group Co., Limited			601020
PG&E Corporation	55		551010	Ponsse Oyj	20	2010	201060
PGE Polska Grupa Energetyczna S.A.	55		551010	Pool Corporation	25	2550	255010
PGT Innovations, Inc.	20	2010	201020	Poongsan Holdings Corporation	15	1510	151040
Pharma Mar, S.A.	35	3520		Portland General Electric Company	55		551010
PharMerica Corporation	35	3510	351020	Porto Seguro S.A.			403010
Philip Morris CR a.s.	30	3020	302030	Posco Chemtech Company Ltd.	15	1510	151020
Phillips 66	10	1010	101020	Posco Daewoo Corporation	20	2010	201070
Phison Electronics Corporation	45	4530		Posco ICT Company Ltd.	45	4510	451020
Phoenix Group Holdings			403010	Posiflex Technology, Inc.	45	4520	452030
Photronics, Inc.	45	4530		PotlatchDeltic Corporation			601010
PI Industries Limited	15	1510	151010	Pou Chen Corporation	25	2520	252030
Piaggio & C. SpA	25	2510	251020	Pou Sheng International (Holdings) Limited	25	2550	255040
PICC Property and Casualty Company Limited			403010	Powell Industries, Inc.	20	2010	201040
Pick n Pay Stores Limited	30	3010		Power Assets Holdings Limited	55		551010
Pier 1 Imports, Inc.	25	2550	255040	Power Corporation of Canada			403010
Pigeon Corporation	30	3030	303010	Power Finance Corporation Limited			402010
Pilot Corporation	20	2020	202010	Power Financial Corporation			403010
Ping An Insurance (Group) Co. Pinnacle Financial Partners, Inc.			403010	Power Integrations, Inc.	45	4530	
Pinnacle West Capital Corporation	55		551010	Powerlong Real Estate Holdings Limited			601020
Piolax, Inc.	25	2510	251010	Powertech Technology Inc.	45	4530	
Pioneers Holding Co.			402030	Powszechna Kasa Oszczednosci Bank Polski Spółka Akcyjna			401010
				POYA International Co., Ltd.	25	2550	255030
				PPB Group Berhad	30	3020	302020

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PPC Ltd	15	1510	151020	Prysmian S.p.A.	20	2010	
PPG Industries, Inc.	15	1510	151010	PS Business Parks, Inc.			601010
PPL Corporation	55		551010	PSG Group Limited			402010
PRA Group, Inc.			402020	PSP Swiss Property AG			601020
Praxair, Inc.	15	1510	151010	PT Ace Hardware Indonesia Tbk	25	2550	255040
Precinct Properties New Zealand Limited			601010	PT Adaro Energy Tbk	10	1010	101020
Premier Investments Limited	25	2550	255040	PT Adhi Karya (Persero) Tbk	20	2010	201030
Premium Brands Holdings Corporation	30	3020	302020	PT AKR Corporindo Tbk	20	2010	201070
President Securities Corporation			402030	PT Alam Sutera Realty Tbk			601020
Press Kogyo Co., Ltd.	25	2510	251010	PT Astra International Tbk	25	2510	251020
Prestariang Berhad	25	2530	253020	PT Bank Central Asia Tbk			401010
Prestige Brands Holdings, Inc.	35	3520	352020	PT Bank Mandiri (Persero) Tbk			401010
Prestige International Inc.	20	2020	202010	PT Bank Negara Indonesia (Persero) Tbk			401010
PriceSmart, Inc.	30	3010		PT Bank Pembangunan Daerah Jawa			401010
Prima Meat Packers, Ltd.	30	3020	302020	PT Bank Pembangunan Daerah Jawa Barat dan Banten Tbk			401010
Primary Health Care Limited	35	3510	351020	PT Bank Tabungan Negara (Persero) Tbk			401010
Primary Health Properties Plc			601010	PT Bumi Serpong Damai Tbk			601020
Prince Housing & Development Corp.			601020	PT Charoen Pokphand Indonesia Tbk	30	3020	302020
Principal Financial Group, Inc.			403010	PT Ciputra Development Tbk			601020
ProAssurance Corporation			403010	PT Eagle High Plantations Tbk	30	3020	302020
Probi AB (publ)	35	3520	352010	PT Gudang Garam Tbk	30	3020	302030
Programmed Maintenance Services Limited	20	2020	202010	PT Hanjaya Mandala Sampoerna Tbk	30	3020	302030
Progress Software Corporation	45	4510	451030	PT Hanson International Tbk			601020
Prologis, Inc.			601010	PT Holcim Indonesia Tbk	15	1510	151020
Promotora y Operadora de Infraestructura, S. A. B. de C. V.	20	2030	203050	PT Indo Tambangraya Megah Tbk	10	1010	101020
Prosegur Compañía de Seguridad	20	2020	202010	PT Indocement Tunggul Prakarsa Tbk	15	1510	151020
Prosperity Bancshares, Inc.			401010	PT Indofood CBP Sukses Makmur Tbk	30	3020	302020
Prosperity Real Estate Investment Trust			601010	PT Intiland Development Tbk			601020
Protector Forsikring ASA			403010	Pt Jasa Marga (Persero) Tbk	20	2030	203050
Proto Corporation	25	2540		PT Kalbe Farma Tbk.	35	3520	352020
Proto Labs, Inc.	20	2010	201060	PT Kawasan Industri Jababeka Tbk			601020
Provident Financial plc			402020	PT Matahari Putra Prima Tbk	30	3010	
Provident Financial Services, Inc.			401020	PT Modernland Realty Tbk			601020
Proximus PLC	50		501010	PT Nippon Indosari Corpindo Tbk	30	3020	302020
Prudential Financial, Inc.			403010				
Prudential plc			403010				

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PT Pakuwon Jati Tbk			601020	Public Joint Stock Company Magnit	30	3010	
PT Panin Financial Tbk			403010	Public Joint Stock Company Mining and Metallurgical Company Norilsk Nickel	15	1510	151040
PT Pembangunan Perumahan (Persero) Tbk	20	2010	201030	Public Joint Stock Company Mosenergo	55		551010
PT Perusahaan Gas Negara (Persero) Tbk	55		551020	Public Joint Stock Company Rosneft Oil Company	10	1010	101020
PT Perusahaan Perkebunan London Sumatra Indonesia Tbk	30	3020	302020	Public Joint Stock Company Transneft	10	1010	101020
PT Ramayana Lestari Sentosa Tbk	25	2550	255030	Public Joint-Stock Company Federal Hydro-Generating Company - RusHydro	55		551010
PT Semen Indonesia (Persero) Tbk	15	1510	151020	Public Joint-Stock Company Mobile TeleSystems	50		501020
PT Summarecon Agung Tbk			601020	Public Service Enterprise Group	55		551030
PT Surya Citra Media Tbk	25	2540		Public Storage			601010
PT Telekomunikasi Indonesia Tbk	50			Publicis Groupe S.A.	25	2540	
PT Tiga Pilar Sejahtera Food Tbk	30	3020	302020	Pulmuone Co., Ltd.	30	3020	302020
PT Timah (Persero) Tbk	15	1510	151040	PulteGroup, Inc.	25	2520	252010
PT Tower Bersama Infrastructure Tbk	50		501010	PVH Corp.	25		
PT Unilever Indonesia Tbk	30	3030	303010	PVR Limited	25	2540	
PT United Tractors Tbk	10	1010	101020	Pyeong Hwa Automotive Co., Ltd.	25	2510	251010
PT Visi Media Asia Tbk	25	2540		PZ Cussons Plc	30	3030	303010
PT Wijaya Karya (Persero) Tbk	20	2010		QAF Limited	30	3020	302020
PT XL Axiata Tbk	50		501020	Qatar Electricity and Water Co	55		551030
PT. Global Mediacom Tbk	25	2540		Qatar Gas Transport Company Limited (Nakilat) Q.S.C.	10	1010	101020
PT. Media Nusantara Citra Tbk	25	2540		Qatar Industrial Manufacturing Company Q.P.S.C.			402010
PT. Mitra Adiperkasa Tbk	25	2550	255030	Qatar Insurance Company S.A.Q.			403010
PTC Inc.	45	4510	451030	Qatar Islamic Bank (Q.P.S.C.)			401010
PTC India Financial Services Limited			402030	Qatar National Bank (Q.P.S.C.)			401010
PTC India Limited	55		551050	Qatar National Cement Company (Q.P.S.C.)	15	1510	151020
PTT Exploration and Production Public Company Limited	10	1010	101020	QBE Insurance Group Limited			403010
PTT Public Company Limited	10	1010	101020	QGEP Participações S.A.	10	1010	101020
Public Bank Berhad			401010	QinetiQ Group Plc	20	2010	201010
Public Joint Stock Company ALROSA	15	1510	151040	Qingling Motors Co., Ltd.	25	2510	251020
Public Joint Stock Company Dixy Group	30	3010		Qisda Corporation	45	4520	
Public Joint Stock Company Inter RAO UES	55		551010	QL Resources Berhad	30	3020	302020
Public Joint Stock Company Long-Distance and International Telecommunications Rostelecom	50		501010	Qol Co., Ltd.	30	3010	
Public Joint Stock Company M.video	25	2550	255040	Qorvo, Inc.	45	4530	
				Quaker Chemical Corporation	15	1510	151010
				QUALCOMM Incorporated	45		
				Qualicorp S.A.	35	3510	351020
				Qualitas Controladora, S.A.B. de C.V.			403010

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Quality Houses Public Company Limited			601020	Recordati S.p.A.	35	3520	352020
Quality Systems, Inc.	35	3510	351030	Red Eléctrica Corporación, S.A.	55		551010
Qualys, Inc.	45	4510	451030	Red Hat, Inc.	45	4510	451030
Quanex Building Products Corporation	20	2010	201020	Red Robin Gourmet Burgers, Inc.	25	2530	253010
Quanta Computer Inc.	45	4520	452020	Redde plc	20	2030	203040
Quanta Services, Inc.	20	2010	201030	Redefine Properties Limited			601010
Qube Holdings Limited	20	2030		Redington (India) Limited	45	4520	452030
Quebecor Inc.	25	2540		Redrow plc	25	2520	252010
Quest Diagnostics Incorporated	35	3510	351020	Regal Beloit Corporation	20	2010	
Radian Group Inc.			401020	Regency Centers Corporation			601010
Radiant Opto-Electronics Corporation	45	4530		Regeneron Pharmaceuticals, Inc.	35	3520	352010
Radium Life Technology Co., Ltd.			601020	Regions Financial Corporation			401010
Raffles Medical Group Ltd	35	3510	351020	Regis Resources Limited	15	1510	151040
Raia Drogasil S.A.	30	3010		Reinsurance Group of America, Incorporated			403010
Raiffeisen Bank International AG			401010	Reit 1 Ltd			601010
Raito Kogyo Co., Ltd.	20	2010	201030	Relia, Inc.	20	2020	202010
Rajesh Exports Limited	25	2520	252030	Reliance Infrastructure Limited	55		551010
RAK Properties P.J.S.C.			601020	Reliance Steel & Aluminum Co.	15	1510	151040
Rallis India Limited	15	1510	151010	Relo Group, Inc.			601020
Ralph Lauren Corporation	25	2520	252030	RELX PLC	20	2020	202020
Rambus Inc.	45	4530		Remgro Limited			402010
Rami Levi Chain Stores Hashikma	30	3010		Rémy Cointreau SA	30	3020	302010
Ramirent Oyj	20	2010	201070	REN - Redes Energéticas Nacionais, SGPS, S.A.	55		
Ramsay Health Care Limited	35	3510	351020	RenaissanceRe Holdings Ltd.			403010
Rand Merchant Investment Holdings Limited			403010	Renault SA	25	2510	251020
Randgold Resources Limited	15	1510	151040	Rengo Co., Ltd.	15	1510	151030
Randstad Holding NV	20	2020	202020	Renishaw plc	45	4520	452030
Rassini, S.A.B. de C.V.	25	2510	251010	Repligen Corporation	35	3520	352010
RATIONAL Aktiengesellschaft	20	2010	201060	Reply S.p.A.	45	4510	451020
Raubex Group Limited	20	2010	201030	Repsol, S.A.	10	1010	101020
Raymond James Financial, Inc.			402030	Republic Services, Inc.	20	2020	202010
Raymond Limited	25	2520	252030	ResMed Inc.	35	3510	351010
Raytheon Company	20	2010	201010	Resolute Mining Limited	15	1510	151040
RBC Bearings Incorporated	20	2010	201060	Resona Holdings, Inc.			401010
REA Group Limited	45	4510	451010	Resorttrust, Inc.	25	2530	253010
Realtek Semiconductor Corp.	45	4530		Resources Connection, Inc.	20	2020	202020
Rebosis Property Fund Limited			601010	Retail Opportunity Investments Corp.			601010
Rechi Precision Co., Ltd.	20	2010	201060	REX American Resources Corporation	10	1010	101020
Reckitt Benckiser Group plc	30	3030	303010	Rexel S.A.	20	2010	201070

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REYON Pharmaceutical Co., Ltd.	35	3520	352020	Royal Bank of Canada			401010
Rezidor Hotel Group AB (publ)	25	2530	253010	Royal Boskalis Westminster N.V.	20	2010	201030
RHB Bank Berhad			401010	Royal Caribbean Cruises Ltd.	25	2530	253010
Rhön-Klinikum Aktiengesellschaft	35	3510	351020	Royal Dutch Shell plc	10	1010	101020
RIB Software SE	45	4510	451030	Royal Holdings Co., Ltd.	25	2530	253010
Richter Gedeon Vegyészeti Gyár Nyilvánosan Muködo Rt.	35	3520	352020	Royal Unibrew A/S	30	3020	302010
Ricoh Company, Ltd.	45	4520	452020	RPC Group Plc	15	1510	151030
Ricoh Leasing Company, Ltd.			402010	RPC, Inc.	10	1010	101010
Rieter Holding AG	20	2010	201060	RPM International Inc.	15	1510	151010
RIGHT ON Co., Ltd.	25	2550	255040	RPS Group plc	20	2020	202010
Riken Corporation	25	2510	251010	RS Public Company Limited	25	2540	
Riken Vitamin Co., Ltd.	30	3020	302020	RSA Insurance Group plc			403010
Ringer Hut Co., Ltd.	25	2530	253010	RTL Group SA	25	2540	
Rinnai Corporation	25	2520	252010	Rubis	55		551020
Rio Tinto plc	15	1510	151040	Rudolph Technologies, Inc.	45	4530	
RioCan Real Estate Investment Trust			601010	Rush Enterprises, Inc.	20	2010	201070
Riso Kagaku Corporation	45	4520	452020	Russel Metals Inc.	20	2010	201070
Ritchie Bros. Auctioneers Incorporated	20	2020	202010	Ruth's Hospitality Group, Inc.	25	2530	253010
Riverstone Holdings Limited	20	2020	202010	Ryanair Holdings plc	20	2030	203020
Rizal Commercial Banking Corporation			401010	Ryder System, Inc.	20	2030	203040
RLI Corp.			403010	Ryman Healthcare Limited	35	3510	351020
RMB Holdings Limited			402010	Ryman Hospitality Properties, Inc.			601010
Road King Infrastructure Limited			601020	Ryobi Limited	20	2010	201060
Roadrunner Transportation Systems, Inc.	20	2030	203040	Ryohin Keikaku Co., Ltd.	25	2550	255030
Robert Half International Inc.	20	2020	202020	Ryosan Company, Limited	45	4520	452030
Robinson Public Company Limited	25	2550	255030	Ryoyo Electro Corporation	45	4520	452030
Robinsons Land Corporation			601020	S Foods Inc.	30	3020	302020
Roche Holding AG	35	3520	352020	S IMMO AG			601020
Rock Field Co., Ltd.	30	3020	302020	S&P Global Inc.			402030
Rockwell Collins, Inc.	20	2010	201010	S&T AG	45		
Rogers Communications Inc.	50		501020	S&T Bancorp, Inc.			401010
ROHM Co., Ltd.	45	4530		S&T Dynamics Co. Ltd.	20	2010	201010
Rohto Pharmaceutical Co., Ltd.	35	3520	352020	S.M. Entertainment Co., Ltd.	25	2540	
Rokko Butter Co., Ltd.	30	3020	302020	S-1 Corporation	20	2020	202010
Roland DG Corporation	45	4520	452020	SA Corporate Real Estate Limited			601010
Rollins, Inc.	20	2020	202010	Sa Sa International Holdings Limited	25	2550	255040
Rolls-Royce Holdings plc	20	2010		Saab AB (publ)	20	2010	201010
Roper Technologies, Inc.	20	2010					
Ross Stores, Inc.	25	2550	255040				

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Sabra Health Care REIT, Inc.			601010	Sanki Engineering Co., Ltd.	20	2010	201030
Sac's Bar Holdings Inc.	25	2550	255040	Sankyo Co., Ltd.	25	2520	252020
Safestore Holdings plc			601010	Sankyu Inc.	20		
Safety Insurance Group, Inc.			403010	Sanlam Limited			403010
Saf-Holland S.A.	25	2510	251010	Sanmina Corporation	45	4520	452030
Safran SA	20	2010	201010	Sanofi	35	3520	352020
Saia, Inc.	20	2030	203040	Sanofi India Limited	35	3520	352020
Saint Marc Holdings Co., Ltd.	25	2530	253010	Sanrio Company, Ltd.	25	2550	255040
Saizeriya Co., Ltd.	25	2530	253010	Sansiri Public Company Limited			601020
Sajo Industries Company Limited	30	3020	302020	Santen Pharmaceutical Co., Ltd.	35	3520	352020
Sakai Chemical Industry Co., Ltd.	15	1510	151010	Sanwa Holdings Corporation	20	2010	201020
Sakai Moving Service Co.,Ltd.	20	2030	203040	Sanyo Chemical Industries Ltd.	15	1510	151010
Sakata INX Corporation	15	1510	151010	Sanyo Denki Co., Ltd.	20	2010	201040
Sakata Seed Corporation	30	3020	302020	Sanyo Special Steel Co., Ltd.	15	1510	151040
Salfacorp S.A.	20	2010	201030	São Martinho S.A.	30	3020	302020
Salini Impregilo S.p.A.	20	2010	201030	SAP SE	45	4510	451030
SalMar ASA	30	3020	302020	Sapiens International Corporation N.V.	45	4510	451030
Salvatore Ferragamo S.p.A.	25	2520	252030	Sapporo Holdings Limited	30	3020	
Sam Kwang Glass Co., Ltd.	15	1510	151030	Saputo Inc.	30	3020	302020
Samchully Co.,Ltd	55		551020	Saracen Mineral Holdings Limited	15	1510	151040
Samjin Pharmaceuticals Co., Ltd.	35	3520	352020	Sartorius Stedim Biotech S.A.	35	3510	351010
Sampo Corporation	25	2520	252010	SAS AB (publ)	20	2030	203020
Sampo Oyj			403010	Sato Holdings Corporation	20	2020	202010
Samsung Card Co., Ltd.			402020	Saul Centers, Inc.			601010
Samsung Electro-Mechanics Co., Ltd.	45			Savills plc			601020
Samsung Electronics Co., Ltd.	45			Sawai Pharmaceutical Co., Ltd.	35	3520	352020
Samsung Fire & Marine Insurance Co., Ltd.			403010	Sberbank of Russia			401010
Samsung Heavy Industries Co., Ltd.	20	2010	201060	SBI Holdings, Inc.			402030
Samsung Life Insurance Co., Ltd.			403010	SBS Media Holdings Co., Ltd.	25	2540	
Samsung Securities Co.,Ltd.			402030	SC Asset Corporation Public Company Limited			601020
Samyung Trading Co., Ltd.	20	2010	201070	ScanSource, Inc.	45	4520	452030
San Fang Chemical Industry Co., Ltd.	15	1510	151010	Scentre Group			601010
San Shing Fastech Corp.	20	2010	201060	Schindler Holding AG	20	2010	201060
SAN-A CO.,LTD.	30	3010		Schlumberger Limited	10	1010	101010
San-Ai Oil Co., Ltd.	10	1010	101020	Schneider Electric S.E.	20		
Sanderson Farms, Inc.	30	3020	302020	Scholastic Corporation	25	2540	
Sandfire Resources NL	15	1510	151040	Schroder Real Estate Investment			601010
Sands China Ltd.	25	2530	253010	Schroders plc			402030
Sangetsu Corporation	25	2520	252010	Schweiter Technologies AG	20	2010	201020
Sanken Electric Co., Ltd.	45	4530		Schweitzer-Mauduit International, Inc.	15	1510	151050
				ScinoPharm Taiwan, Ltd.	35	3520	352020

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SCOR SE			403010	Sercomm Corporation	45	4520	452010
SCREEN Holdings Co., Ltd.	45			Seria Co., Ltd.	25	2550	255030
Scripps Networks Interactive, Inc.	25	2540		SES S.A.	25	2540	
SCSK Corporation	45	4510	451020	Seven & i Holdings Co., Ltd.	30	3010	
Seaboard Corporation	30			Seven Bank, Ltd.			401010
SeAH Besteel Corporation	15	1510	151040	Seven Group Holdings Limited	20	2010	201070
SeAH Steel Corporation	15	1510	151040	Severn Trent Plc	55		551040
SEB SA	25	2520	252010	SGS SA	20	2020	202020
sebang Co., Ltd.	20	2030	203050	Shaftesbury PLC			601010
Sebang Global Battery Co., Ltd.	25	2510	251010	Shandong Chenming Paper Holdings Limited	15	1510	151050
Seegene, Inc.	35	3520	352010	Shandong Weigao Group Medical Polymer Company Limited	35	3510	351010
Sega Sammy Holdings Inc.	25			Shanghai Baosight Software Co., Ltd.	45	4510	451030
SEGRO plc			601010	Shanghai Fudan Microelectronics Group Company Limited	45	4530	
SEI Investments Co.			402030	Shanghai Industrial Urban Development Group Limited			601020
Seikagaku Corporation	35	3520	352020	Shanghai Jin Jiang Intl Industrial	20	2030	203040
Seiko Epson Corporation	45	4520		Shanghai Pharmaceuticals Holding Co., Ltd.	35	3510	351020
Seiko Holdings Corporation	25	2520	252030	Shanghai Prime Machinery Company Limited	20	2010	201060
Seino Holdings Co., Ltd.	20			Shanghai Shenqi Pharmaceutical Investment Management Co.,Ltd.	35	3520	352020
Seiren Co.,Ltd.	25			Shanghai Shibe Hi-Tech Co.,Ltd.			601020
Sekisui House Residential Investment Corporation			601010	Shangri-La Asia Limited	25	2530	253010
Sekisui House, Ltd.	25	2520	252010	Shaw Communications Inc.	25	2540	
Sekisui Jushi Corporation	20	2010	201020	ShawCor Ltd.	10	1010	101010
Sekisui Plastics Co., Ltd.	15	1510	151010	Shenandoah Telecommunications Company	50		
Selçuk Ecza Deposu Ticaret ve Sanayi A.S.	35	3510	351020	Sheng Siong Group Ltd	30	3010	
Select Harvests Limited	30	3020	302020	Shenwan Hongyuan (H.K.) Limited			402030
Select Medical Holdings Corporation	35	3510	351020	Shenzhen Expressway Company Limited	20	2030	203050
Selective Insurance Group, Inc.			403010	Shenzhen International Holdings Limited	20	2030	203050
Selvaag Bolig ASA			601020	Shenzhen Investment Limited			601020
SEMAFO Inc.	15	1510	151040	Shenzhen SEG Co., Ltd.			601020
Semcorp Marine Ltd	20	2010	201060	Shenzhou International Group Holdings Limited	25	2520	252030
Semiconductor Manufacturing International Corporation	45	4530		Shilpa Medicare Limited	35	3520	352020
Sempra Energy	55			Shima Seiki Mfg., Ltd.	20	2010	201060
Semtech Corporation	45	4530		Shimachu Co., Ltd.	25	2550	255040
Senao International Co., Ltd.	25	2550	255040	Shimamura Co. Ltd.	25	2550	255040
Seneca Foods Corporation	30	3020	302020	Shimano Inc.	25	2520	252020
Senshu Ikeda Holdings, Inc.			401010				
Senshukai Co., Ltd.	25	2550	255020				
Seoul Semiconductor Co., Ltd.	45	4530					
Septeni Holdings Co., Ltd.	25	2540					

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Shimao Property Holdings Limited			601020	Siemens Limited	20	2010	201050
Shimizu Corporation	20	2010		Sigma Healthcare Limited	35	3510	351020
Shin Kong Financial Holding Co., Ltd.			403010	Signature Bank			401010
Shin Zu Shing Co., Ltd.	20	2010	201060	Signet Jewelers Limited	25	2550	255040
Shindengen Electric Manufacturing Co.,Ltd.	45	4530		Sigurd Microelectronics Corporation	45	4530	
Shin-Etsu Polymer Co.,Ltd.	15	1510	151010	SIIIX Corporation	45	4520	452030
Shinko Electric Industries Co., Ltd.	45	4530		Sika AG	15	1510	151010
Shinko Plantech Co., Ltd.	10	1010	101010	Silgan Holdings Inc.	15	1510	151030
Shinkong Insurance Co., Ltd.			403010	Silicon Laboratories Inc.	45	4530	
Shinkong Synthetic Fibers Corporation	15	1510	151010	Silicon Works Co., Ltd.	45	4530	
ShinMaywa Industries, Ltd.	20	2010		Siliconware Precision Industries Co., Ltd.	45	4530	
SHINSEGAE FOOD Inc.	25	2530	253010	Silverlake Axis Ltd	45	4510	451030
Shinsegae Inc.	25			SimCorp A/S	45	4510	451030
Shinsegae International Co., Ltd.	25	2550	255040	Simmons First National Corporation			401010
Shinyoung Securities Co., Ltd.			402030	Simon Property Group, Inc.			601010
Shionogi & Co., Ltd.	35	3520	352020	Simplo Technology Co., Ltd.	45	4520	452030
Ship Healthcare Holdings, Inc.	35	3510	351020	Simpson Manufacturing Co., Inc.	20	2010	201020
Shire plc	35	3520	352010	SINA Corporation	45	4510	451010
Shiseido Company, Limited	30	3030	303020	Sinanen Holdings Co Ltd	10	1010	101020
Shizuoka Gas Co., Ltd.	55		551020	Sinclair Broadcast Group, Inc.	25	2540	
SHO-BOND Holdings Co.,Ltd.	20	2010	201030	sindoh Co.,Ltd.	45	4520	452020
Shochiku Co., Ltd.	25	2540		Singapore Airlines Limited	20	2030	203020
Shoe Carnival, Inc.	25	2550	255040	Singapore Exchange Limited			402030
Shoppers Stop Limited	25	2550	255030	Singapore Post Limited	20	2030	203010
Shoptite Holdings Limited	30	3010		Singapore Technologies Engineering Ltd	20	2010	201010
Shougang Fushan Resources Group Limited	15	1510	151040	Singapore Telecommunications Limited	50		
SHOWA Corporation	25	2510	251010	Sinko Industries Ltd.	20	2010	201020
Showa Sangyo Co., Ltd.	30	3020	302020	Sino Biopharmaceutical Limited	35	3520	352020
Showa Shell Sekiyu K.K.	10	1010	101020	Sino Land Company Limited			601020
Showbox Corp.	25	2540		Sino-Ocean Group Holding Limited			601020
Shriram Transport Finance Company Limited			402020	Sinopec Kantons Holdings Limited	10	1010	101020
Shufersal Ltd	30	3010		Sinopec Shanghai Petrochemical Company Limited	15	1510	151010
Shui On Land Limited			601020	Sinopharm Group Co. Ltd.	35	3510	351020
Shutterfly, Inc.	25	2550	255020	Sino-Thai Engineering and Construction Public Company Limited	20	2010	201030
Siam Global House Public Company Limited	25	2550	255040	Sinotrans Limited	20	2030	203010
Siamgas and Petrochemicals Public Company Limited	10	1010	101020				
Sidi Kerir Petrochemicals Co.	15	1510	151010				
Siegfried Holding AG	35	3520	352030				

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Sinotruk (Hong Kong) Limited	20	2010	201060	SNC-Lavalin Group Inc.	20	2010	201030
Sintokogio,Ltd.	20	2010	201060	Snyder's-Lance, Inc.	30	3020	302020
Sinyi Realty Inc.			601020	Sociedad Química y Minera de Chile S.A.	15	1510	
Sioen Industries NV	25	2520	252030	Società Cattolica di Assicurazione - Società Cooperativa			403010
Sirtex Medical Limited	35	3520	352010	Società Iniziative Autostradali e Servizi S.p.A.	20	2030	203050
SITC Int'l Holdings Co. Ltd.	20	2030	203030	SOCO International plc	10	1010	101020
Sitronix Technology Corporation	45	4530		Soda Sanayii A.S.	15	1510	151010
Sixth of October for Development and Investment Company SODIC S.A.E			601020	Sodick Co., Ltd.	20	2010	201060
SJW Group	55		551040	Sofina Société Anonyme			402010
SK Discovery Co., Ltd.	15	1510	151010	Software Aktiengesellschaft	45	4510	451030
SK Gas Co., Ltd.	10	1010	101020	Soft-World International Corporation	45	4510	451030
SK Holdings Co., Ltd.	20	2010	201050	Sogo Medical Co., Ltd.	30	3010	
SK Hynix Inc.	45	4530		Sohgo Security Services Co.,Ltd.	20	2020	202010
SK Innovation Co., Ltd.	10	1010	101020	SOHO China Limited			601020
SK Materials Co., Ltd.	15	1510	151010	S-Oil Corporation	10	1010	101020
SK Telecom Co., Ltd.	50		501020	Solar A/S	20	2010	
Skanska AB (publ)	20	2010	201030	Solvay SA	15	1510	151010
SKbioland Co., Ltd.	30	3030	303020	Somany Ceramics Limited	20	2010	201020
SKC Co., Ltd.	15	1510		Sompo Holdings, Inc.			403010
Skechers U.S.A., Inc.	25	2520		Sonae Sierra Brasil S.A.			601020
SkiStar AB (publ)	25	2530	253010	Sonda S.A.	45		
SKP Resources Bhd	20	2010	201060	Songwon Industrial Co., Ltd.	15	1510	151010
SKY Network Television Limited	25	2540		Sonic Healthcare Limited	35	3510	351020
Sky plc	25	2540		Sonoco Products Company	15	1510	151030
SKYCITY Entertainment Group Limited	25	2530	253010	Sonova Holding AG	35	3510	351010
Skyworks Solutions, Inc.	45	4530		Sony Financial Holdings Inc.			403010
SL Corporation	25	2510	251010	Sopra Steria Group	45	4510	451020
SL Green Realty Corp.			601010	Sotetsu Holdings, Inc.	20	2030	203040
SLC Agrícola S.A.	30	3020	302020	Sotheby's	25	2530	253020
SM Prime Holdings, Inc.			601020	Soulbrain Co.,Ltd.	15	1510	151010
SMA Solar Technology AG	45	4530		South Jersey Industries, Inc.	55		
SmarTone Telecommunications Holdings Limited	50		501020	Southern Copper Corporation	15	1510	151040
SMC Corporation	20	2010	201060	Southwest Airlines Co.	20	2030	203020
SMI Holdings Group Limited	25	2540		Spar Nord Bank A/S			401010
Smith & Nephew plc	35	3510	351010	SpareBank 1 Nord-Norge			401010
SMS Co., Ltd.	45	4510	451010	SpartanNash Company	30	3010	
Smurfit Kappa Group plc	15	1510	151030				
Snam S.p.A.	10	1010	101020				

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SPC Samlip Co., Ltd.	30	3020	302020	Steelcase Inc.	20	2020	202010
Spectris plc	45	4520	452030	Stella Chemifa Corporation	15	1510	151010
Speedway Motorsports, Inc.	25	2530	253010	Stella-Jones Inc.	15	1510	151050
Spirax-Sarco Engineering plc	20	2010	201060	Stepan Company	15	1510	151010
Spire Inc.	55		551020	Stericycle, Inc.	20	2020	202010
Spirit AeroSystems Holdings, Inc.	20	2010	201010	Sterlite Technologies Limited	45	4520	452010
Spok Holdings, Inc.	50		501020	Steven Madden, Ltd.	25	2520	252030
Sponda Plc			601020	Stewart Information Services Corporation			403010
Sporton International Inc.	20	2020	202020	Stifel Financial Corp.			402030
Sports Direct International plc	25	2550	255040	Sto SE & Co. KGaA	15	1510	151020
SPS Commerce, Inc.	45	4510	451010	Stockland			601010
SPX Corporation	20	2010	201060	Stolt-Nielsen Limited	20	2030	203030
Square Enix Holdings Co., Ltd.	45	4510	451030	Stora Enso Oyj	15	1510	
SREI Infrastructure Finance Limited			402010	Storebrand ASA			403010
SRF Limited	25	2520	252030	STP&I Public Company Limited	15	1510	151040
Sri Trang Agro-Industry Public Company Limited	25	2510	251010	STRATEC Biomedical AG	35	3510	351010
Ssangyong Cement Industrial Co., Ltd.	15	1510	151020	Straumann Holding AG	35	3510	
SSE plc	55			Strauss Group Ltd.	30	3020	302020
SSY Group Limited	35	3520	352020	Strayer Education, Inc.	25	2530	253020
St. Galler Kantonalbank AG			401010	Strides Shasun Limited	35	3520	352020
St. James's Place plc			402030	Ströer SE & Co. KGaA	25	2540	
St. Modwen Properties PLC			601020	Stryker Corporation	35	3510	351010
St.Shine Optical Company Limited	35	3510	351010	Studio Alice Co., Ltd.	25	2530	253020
STADA Arzneimittel Aktiengesellschaft	35	3520	352020	Sturm, Ruger & Company, Inc.	25	2520	252020
Stagecoach Group plc	20	2030	203040	Subaru Corporation	25	2510	251020
Stallergenes Greer Plc	35	3520	352020	Subsea 7 S.A.	10	1010	101010
Stamps.com Inc.	45	4510	451010	Südzucker AG	30	3020	302020
Standard Chartered PLC			401010	SUEZ SA	55		551030
Standard Foods Corporation	30	3020	302020	Sugi Holdings Co. Ltd.	30	3010	
Standard Motor Products, Inc.	25	2510	251010	Suheung Co., Ltd.	35	3510	351010
Stanley Black & Decker, Inc.	20	2010		Sulzer Ltd	20	2010	201060
Stantec Inc.	20	2020	202020	Sumitomo Dainippon Pharma Co., Ltd.	35	3520	352020
Starbreeze AB (publ)	45	4510	451030	Sumitomo Densetsu Co., Ltd.	20	2010	201030
Starbucks Corporation	25	2530	253010	Sumitomo Heavy Industries, Ltd.	20	2010	
StarHub Ltd.	50		501020	Sumitomo Metal Mining Co., Ltd.	15	1510	151040
Start Today Co., Ltd.	25	2550	255020	Sumitomo Mitsui Trust Holdings, Inc.			401010
Starzen Company Limited	30	3020	302020	Sumitomo Osaka Cement Co., Ltd.	15	1510	151020
State Street Corporation			402030	Sumitomo Realty & Development Co., Ltd.			601020
Steel Dynamics, Inc.	15	1510	151040				

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Sumitomo Riko Company Limited	25	2510	251010	Svenska Handelsbanken AB (publ)			401010
Sumitomo Rubber Industries, Ltd.	25	2510	251010	SVI Public Company Limited	45	4520	452030
Sumitomo Seika Chemicals Company Limited	15	1510	151010	Sweco AB (publ)	20	2010	201030
Summerset Group Holdings Limited	35	3510	351020	Swedbank AB (publ)			401010
Sun Art Retail Group Limited	30	3010		Swedish Orphan Biovitrum AB	35	3520	352010
Sun Frontier Fudousan Co., Ltd.			601020	Swire Properties Limited			601020
Sun Hung Kai & Co. Limited			402020	Swiss Life Holding AG			403010
Sun Hung Kai Properties Limited			601020	Swiss Re Ltd			403010
Sun Hydraulics Corporation	20	2010	201060	Swisscom AG	50		501010
Sun Life Financial Inc.			403010	Swissquote Group Holding Ltd			402030
Sun Pharmaceutical Industries Limited	35	3520	352020	Syarikat Takaful Malaysia Berhad			403010
Sunac China Holdings Limited			601020	Sydbank A/S			401010
SunCoke Energy, Inc.	15	1510	151040	Sydney Airport Limited	20	2030	203050
Suncor Energy Inc.	10	1010	101020	Sykes Enterprises, Incorporated	45	4510	451020
Suncorp Group Limited			403010	Symantec Corporation	45	4510	451030
Sundram Fasteners Limited	25	2510	251010	Symphony Limited	25	2520	252010
Sundrug Co.,Ltd.	30	3010		Synaptics Incorporated	45	4530	
SUNeVision Holdings Ltd.	45	4510	451010	Synchronoss Technologies, Inc.	45	4510	451030
Sung Kwang Bend Co.,Ltd.	20	2010	201020	Syncmold Enterprise Corp.	20	2010	201060
Sunlight Real Estate Investment Trust			601010	Synergie SE	20	2020	202020
Sunny Optical Technology (Group) Company Limited	45	4520	452030	SYNNEX Corporation	45	4520	452030
Sunstone Hotel Investors, Inc.			601010	Synnex Technology International Corporation	45	4520	452030
SunTrust Banks, Inc.			401010	Synopsys, Inc.	45	4510	451030
Sunway Real Estate Investment Trust			601010	Synovus Financial Corp.			401010
Supalai Public Company Limited			601020	Synthomer plc	15	1510	151010
Super Retail Group Limited	25	2550	255040	Synthos S.A.	15	1510	151010
Superdry Plc	25	2550		Sysco Corporation	30	3010	
Superior Industries International, Inc.	25	2510	251010	Sysmex Corporation	35	3510	351010
Surgutneftegas Open Joint Stock Company	10	1010	101020	Systema Corporation	45		
Surmodics, Inc.	35	3510	351010	Systex Corporation	45	4510	451020
Suruga Bank Ltd.			401010	T&D Holdings, Inc.			403010
Suven Life Sciences Limited	35	3520	352020	T. Rowe Price Group, Inc.			402030
Suzuken Co., Ltd.	35	3510	351020	Ta Chen Stainless Pipe Co., Ltd.	15	1510	151040
Suzuki Motor Corporation	25	2510	251020	Tabcorp Holdings Limited	25	2530	253010
SVB Financial Group			401010	TACHI-S Co., Ltd.	25	2510	251010

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Tadano Ltd.	20	2010	201060	TAKKT AG	25	2550	255020
Taekwang Industrial Co., Ltd.	15	1510	151010	Takuma Co., Ltd.	20	2010	201060
Taewoong Co.,Ltd	20	2010	201060	TalkTalk Telecom Group PLC	50		501010
TAG Immobilien AG			601020	Tamburi Investment Partners S.p.A.			402030
Taichung Commercial Bank Co., Ltd.			401010	Tamron Co.,Ltd.	25	2520	252010
Taihei Dengyo Kaisha, Ltd.	20	2010	201030	Tanger Factory Outlet Centers, Inc.			601010
Taiho Kogyo Co., Ltd.	25	2510	251010	Tanseisha Co., Ltd.	20		
Taikisha Ltd.	20	2010	201030	Target Corporation	25	2550	255030
Tainan Spinning Co., Ltd.	25	2520	252030	Tassal Group Limited	30	3020	302020
Taisei Corporation	20	2010	201030	Tata Consultancy Services Limited	45	4510	451020
Taisho Pharmaceutical Holdings Co., Ltd.	35	3520	352020	Tata Elxsi Limited	45	4510	451030
Taiwan Business Bank, Ltd.			401010	Tata Global Beverages Limited	30	3020	302020
Taiwan Cement Corp.	15	1510	151020	Tata Investment Corporation Ltd.			402030
Taiwan Cooperative Financial Holding Co., Ltd.			401010	Tata Motors Limited	25	2510	251020
Taiwan Fertilizer Co., Ltd.	15	1510	151010	Tate & Lyle plc	30	3020	302020
Taiwan Fire & Marine Insurance Co.			403010	Tatts Group Limited	25	2530	253010
Taiwan Hon Chuan Enterprise Co., Ltd.	15	1510	151030	TAURON Polska Energia S.A.	55		551010
Taiwan Paiho Limited	25	2520	252030	TAV Havalimanlari Holding A.S.	20	2030	203050
Taiwan Pcb Techvest Co., Ltd.	45	4520	452030	Taylor Wimpey plc	25	2520	252010
Taiwan Semiconductor Co., Ltd.	45	4530		TCF Financial Corporation			401010
Taiwan Shin Kong Security Co.,Ltd.	20	2020	202010	TCL Multimedia Technology Holdings Limited	25	2520	252010
Taiwan Styrene Monomer Corporation	15	1510	151010	TD Ameritrade Holding Corporation			402030
Taiwan Surface Mounting Technology Corp.	45	4530		TDC A/S	50		501010
Taiwan Tea Corporation	30	3010		TDK Corporation	45		
Taiyo Holdings Co., Ltd.	15	1510	151010	TE Connectivity Ltd.	45	4520	
Taiyo Nippon Sanso Corporation	15	1510	151010	Team, Inc.	20	2020	
Taiyo Yuden Co., Ltd.	45	4520	452030	Tecan Group Ltd.	35	3520	352030
Takara Bio Inc.	35	3520	352010	Tech Data Corporation	45	4520	452030
Takara Leben Co., Ltd.			601020	Tech Mahindra Limited	45	4510	451020
Takara Standard Co.,Ltd.	20	2010	201020	Technology One Limited	45	4510	
Takasago International Corporation	15	1510	151010	Technopolis Plc			601020
Takasago Thermal Engineering Co., Ltd.	20	2010	201020	Technovator International Limited	45		
Takashimaya Company, Limited	25	2550	255030	Techtronic Industries Company Limited	25	2520	252010
Takeda Pharmaceutical Company Limited	35	3520	352020	Teck Resources Limited	15	1510	151040
Takeuchi Mfg. Co., Ltd.	20	2010	201060	Técnicas Reunidas, S.A.	10	1010	101010
				TECO Electric & Machinery Co., Ltd.	20	2010	201040
				Ted Baker PLC	25	2520	252030
				Teikoku Sen-i Co., Ltd.	20	2010	201060

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Tekken Corporation	20	2010	201030	Teva Pharmaceutical Industries Limited	35	3520	352020
Tele2 AB (publ)	50		501020	Texas Capital Bancshares, Inc.			401010
Telecom Plus plc	55		551030	Texas Instruments Incorporated	45	4530	
Teledyne Technologies Incorporated	20	2010	201010	Texas Roadhouse, Inc.	25	2530	253010
Teleflex Incorporated	35	3510	351010	Texhong Textile Group Limited	25	2520	252030
Telefonaktiebolaget LM Ericsson	45			Texwinca Holdings Limited	25	2520	252030
Telefônica Brasil S.A.	50		501010	TFI International Inc.	20	2030	203040
Telefônica, S.A.	50		501010	T-Gaia Corporation	25	2550	255040
Telekom Malaysia Berhad	50		501010	TGS-NOPEC Geophysical Company ASA	10	1010	101010
Telenor ASA	50		501010	Thai Oil Public Company Limited	10	1010	101020
Teleperformance SE	20	2020	202020	Thai Union Group Public Company Limited	30	3020	302020
Telephone and Data Systems, Inc.	50		501020	Thai Vegetable Oil Public Company Limited	30	3020	302020
Television Broadcasts Limited	25	2540		Thaicom Public Company Limited	50		501010
Télévision Française 1 SA	25	2540		Thales S.A.	20	2010	201010
Telia Company AB	50		501010	Thanachart Capital Public Company Limited			401010
Telit Communications PLC	45	4520	452010	The 77 Bank, Ltd.			401010
Telstra Corporation Limited	50			The a2 Milk Company Limited	30	3020	302020
TELUS Corporation	50		501010	The Advisory Board Company	20	2020	202020
Temenos Group AG	45	4510	451030	The AES Corporation	55		551050
Tempur Sealy International, Inc.	25	2520	252010	The Aichi Bank, Ltd.			401010
Tenaga Nasional Berhad	55		551010	The Akita Bank, Ltd.			401010
Tenaris S.A.	10	1010	101010	The Allstate Corporation			403010
Tencent Holdings Limited	45	4510	451010	The Ambassador Hotel, Ltd.	25	2530	253010
Tenma Corporation	15	1510	151010	The Aomori Bank, Ltd.			401010
Tennant Company	20	2010	201060	The Awa Bank, Limited			401010
Tenneco Inc.	25	2510	251010	The Bank of Iwate, Ltd.			401010
Teradata Corporation	45	4510	451020	The Bank of Kyoto, Ltd.			401010
Teradyne, Inc.	45	4530		The Bank of New York Mellon Corporation			402030
Terex Corporation	20	2010	201060	The Bank of Nova Scotia			401010
TERNA - Rete Elettrica Nazionale Società per Azioni	55		551010	The Bank of Saga Ltd.			401010
Terna Energy Societe Anonyme	55		551050	The Berkeley Group Holdings plc	25	2520	252010
Terumo Corporation	35	3510	351010	The Boeing Company	20	2010	201010
TES Co., Ltd	45	4530		The Boston Beer Company, Inc.	30	3020	302010
Tesco PLC	30	3010		The Brink's Company	20	2020	202010
Test Research, Inc.	45	4520	452030	The Buckle, Inc.	25	2550	255040
Test-Rite International Co., Ltd.	25	2550		The Cato Corporation	25	2550	255040
Tetra Tech, Inc.	20	2020	202010	The Charles Schwab Corporation			402030

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The Cheesecake Factory Incorporated	25	2530	253010	Comp Ltd			
The Chiba Bank, Ltd.			401010	The Hyakugo Bank, Ltd.			401010
The Chiba Kogyo Bank, Ltd.			401010	The Hyakujushi Bank, Ltd.			401010
The Children's Place, Inc.	25	2550	255040	The India Cements Limited	15	1510	151020
The Chugoku Bank, Limited			401010	The Interpublic Group of Companies, Inc.	25	2540	
The Chukyo Bank, Limited			401010	The Iyo Bank, Ltd.			401010
The Coca-Cola Company	30	3020	302010	The J. M. Smucker Company	30	3020	302020
The Commercial Bank (P.S.Q.C.)			401010	The Japan Wool Textile Co., Ltd.	25	2520	252030
The Cooper Companies, Inc.	35	3510	351010	The Jean Coutu Group (PJC) Inc.	30	3010	
The Descartes Systems Group Inc	45	4510	451030	The Juroku Bank, Ltd.			401010
The E. W. Scripps Company	25	2540		The Karur Vysya Bank Limited			401010
The Ehime Bank, Ltd.			401010	The Keiyo Bank, Ltd.			401010
The Eighteenth Bank, Limited			401010	The Kiyu Bank, Ltd.			401010
The Ensign Group, Inc.	35	3510	351020	The Kroger Co.	30	3010	
The Erawan Group Public Company Limited	25	2530	253010	The Manitowoc Company, Inc.	20	2010	201060
The Estée Lauder Companies Inc.	30	3030	303020	The Marcus Corporation	25		
The Finish Line, Inc.	25	2550	255040	The Middleby Corporation	20	2010	201060
The Foschini Group Limited	25	2550	255040	The Mie Bank, Ltd.			401010
The Gap, Inc.	25	2550	255040	The Minato Bank, Ltd.			401010
The Go-Ahead Group plc	20	2030	203040	The Miyazaki Bank, Ltd.			401010
The Goldman Sachs Group, Inc.			402030	The Musashino Bank, Ltd.			401010
The Gorman-Rupp Company	20	2010	201060	The Nanto Bank, Ltd.			401010
The Greenbrier Companies, Inc.	20	2010	201060	The Navigator Company, S.A.	15	1510	151050
The Gunma Bank, Ltd.			401010	The Navigators Group, Inc.			403010
The Hachijuni Bank, Ltd.			401010	The New York Times Company	25	2540	
The Hackett Group, Inc.	45	4510	451020	The New Zealand Refining Company Limited	10	1010	101020
The Hain Celestial Group, Inc.	30	3020	302020	THE NIPPON ROAD Co., Ltd.	20	2010	
The Hanover Insurance Group, Inc.			403010	The Nisshin Oillio Group, Ltd.	30	3020	302020
The Hartford Financial Services Group, Inc.			403010	The Oita Bank, Ltd.			401010
The Hershey Company	30	3020	302020	The Okinawa Electric Power Company, Incorporated	55		551010
The Hiroshima Bank, Ltd.			401010	The Pack Corporation	15	1510	151030
The Hokkoku Bank, Ltd.			401010	The PNC Financial Services Group, Inc.			401010
The Hokuetsu Bank, Ltd.			401010	The Procter & Gamble Company	30	3030	
The Home Depot, Inc.	25	2550	255040	The Progressive Corporation			403010
The Hong Kong & China Gas	55		551020	The Providence Service Corporation	35	3510	351020
				The Ramco Cements Limited	15	1510	151020

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The Restaurant Group plc	25	2530	253010	Thomas Cook (India) Limited	25	2530	253010
The Sage Group plc	45	4510	451030	Thomson Reuters Corporation			402030
The San-in Godo Bank,Ltd.			401010	Thor Industries, Inc.	25	2510	251020
The Scotts Miracle-Gro Company	15	1510	151010	Tian Shan Development (Holding) Limited			601020
The Shiga Bank, Ltd.			401010	Tianjin Capital Environmental Protection Group Company Limited	20	2020	202010
The Shikoku Bank, Ltd.			401010	Tianjin Port Development Holdings Limited	20	2030	203050
The Shizuoka Bank, Ltd.			401010	Tianjin Zhongxin Pharmaceutical Group Corporation Limited	35	3520	352020
The Siam Cement Public Company Limited	15	1510		Tianneng Power International Limited	25	2510	251010
The Siam Commercial Bank Public Company Limited			401010	Tibet Water Resources Ltd.	30	3020	302010
The Southern Company	55		551010	TICON Industrial Connection Public Company Limited			601020
The SPAR Group Ltd	30	3010		Tieto Oyj	45	4510	451020
The Star Entertainment Group Limited	25	2530	253010	Tiffany & Co.	25	2550	255040
The Sumitomo Warehouse Co., Ltd.	20	2030	203050	Tiger Brands Limited	30	3020	302020
The Swatch Group AG	25	2520	252030	TIM Participações S.A.	50		501020
The TJX Companies, Inc.	25	2550	255040	TIME dotCom Berhad	50		501010
The Tochigi Bank, Ltd.			401010	Time Warner Inc.	25	2540	
The Toho Bank, Ltd.			401010	Timken India Limited	20	2010	201060
The Toronto-Dominion Bank			401010	Tingyi (Cayman Islands) Holding Corp.	30	3020	302020
The Towa Bank, Ltd.			401010	TIS Inc.	45	4510	451020
The Travelers Companies, Inc.			403010	TISCO Financial Group Public Company Limited			401010
The Tsukuba Bank, Limited			401010	Titan Cement Company S.A.	15	1510	151020
The Ultimate Software Group, Inc.	45	4510	451030	Titan Company Limited	25	2520	252030
The Unite Group plc			601010	TiVo Corporation	45	4510	451030
The United Laboratories International Holdings Limited	35	3520	352020	TKC Corporation	45	4510	451020
The Walt Disney Company	25			TKH Group N.V.	20	2010	
The Weir Group PLC	20	2010	201060	TOA Corporation	20	2010	201030
The Wendy's Company	25	2530	253010	Toagosei Co., Ltd.	15	1510	151010
The Western Union Company	45	4510	451020	TOC Co., Ltd.			601020
The Williams Companies, Inc.	10	1010	101020	TOCALO Co., Ltd.	20	2010	201060
The Yamagata Bank, Ltd.			401010	TOD'S S.p.A.	25	2520	252030
The Yamanashi Chuo Bank, Ltd.			401010	Toei Animation Co., Ltd.	25	2540	
The Yokohama Rubber Co., Ltd.	25	2510	251010	Toei Company, Ltd.	25	2540	
The York Water Company	55		551040	Toenec Corporation	20	2010	201030
Thermax Limited	20	2010	201060	Tofas Türk Otomobil Fabrikasi A.S.	25	2510	251020
THK Co., Ltd.	20	2010	201060				

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TOHO GAS Co., Ltd.	55		551020	TORIDOLL Holdings Corporation	25	2530	253010
Toho Holdings Co., Ltd.	35	3510	351020	Torii Pharmaceutical Co., Ltd.	35	3520	352020
TOKAI CARBON KOREA Co., Ltd.	45	4530		Toromont Industries Ltd.	20	2010	201070
Tokai Rika Co., Ltd.	25	2510	251010	Torrent Power Limited	55		551010
Tokai Tokyo Financial Holdings, Inc.			402030	Tosei Corporation			601020
Tokio Marine Holdings, Inc.			403010	Toshiba Machine Co., Ltd.	20	2010	201060
Tokushu Tokai Paper Co., Ltd.	15	1510	151050	Toshiba Plant Systems & Services Corporation	20	2010	201030
Tokyo Broadcasting System Holdings, Inc.	25	2540		Tosho Co., Ltd.	25	2530	253010
Tokyo Century Corporation			402010	Tosho Printing Company, Limited	20	2020	202010
Tokyo Dome Corporation	25	2530	253010	Tosoh Corporation	15	1510	151010
Tokyo Electron Limited	45	4530		Total Energy Services Inc.	10	1010	101010
Tokyo Ohka Kogyo Co., Ltd.	15	1510	151010	Total System Services, Inc.	45	4510	451020
Tokyo Seimitsu Co., Ltd.	45			Totetsu Kogyo Co., Ltd.	20	2010	201030
Tokyo Tatemono Co., Ltd.			601020	Toto Ltd.	20	2010	201020
Tokyo TY Financial Group, Inc.			401010	TOTVS S.A.	45	4510	451030
Tokyotokeiba Co., Ltd.	25	2530	253010	Toung Loong Textile MFG. Co., LTD.	25	2520	252030
Tokyu Construction Co., Ltd.	20	2010	201030	Tourmaline Oil Corp.	10	1010	101020
Tokyu Corporation	20			Towa Pharmaceutical Co., Ltd.	35	3520	352020
Tokyu Fudosan Holdings Corporation			601020	Towngas China Company Limited	55		551020
Tokyu REIT, Inc.			601010	Tox Free Solutions Limited	20	2020	202010
Toll Brothers, Inc.	25	2520	252010	Toyo Construction Co., Ltd.	20	2010	201030
TOMONY Holdings, Inc.			401010	TOYO Corporation	45	4520	452030
Tompkins Financial Corporation			401010	Toyo Ink SC Holdings Co., Ltd.	15	1510	151010
Ton Yi Industrial Corp.	15	1510		Toyo Kanetsu Kabushiki Kaisha	10	1010	101010
Tong Hsing Electronic Industries, Ltd.	45	4520	452030	Toyo Kohan Co., Ltd.	15	1510	151040
Tong Ren Tang Technologies Co. Ltd.	35	3520	352020	Toyo Seikan Group Holdings, Ltd.	15	1510	151030
Tong Yang Industry Co.,Ltd.	25	2510	251010	Toyo Suisan Kaisha, Ltd.	30	3020	302020
Tong Yang Life Insurance Co., Ltd.			403010	Toyo Tire & Rubber Co., Ltd.	25	2510	251010
Tongaat Hulett Limited	30	3020	302020	Toyoda Gosei Co., Ltd.	25	2510	251010
Tongda Group Holdings Limited	45	4520	452030	Toyota Boshoku Corporation	25	2510	251010
Tootsie Roll Industries, Inc.	30	3020	302020	Toyota Motor Corporation	25	2510	251020
Top Glove Corporation Bhd.	35	3510	351010	TPG Telecom Limited	50		501010
Topdanmark A/S			403010	TPK Holding Co., Ltd.	45	4520	452030
Topkey Corporation	25	2520	252020	TPR Co., Ltd.	25	2510	251010
Toppan Forms Co., Ltd.	20	2020	202010	Tractor Supply Company	25	2550	255040
Toptec Co., Ltd.	45	4530		Trade Me Group Limited	25	2550	255020
Torchmark Corporation			403010	Trakya Cam Sanayii A.S.	20	2010	201020
				Trancom Co., Ltd.	20	2030	

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Transaction Capital Limited			402020	Tsumura & Co.	35	3520	352020
TransCanada Corporation	10	1010	101020	Tsuruha Holdings Inc.	30	3010	
Transcend Information, Inc.	45	4520	452020	Tsurumi Manufacturing Co., Ltd.	20	2010	201060
Transcontinental Inc.	20	2020	202010	Tsutsumi Jewelry Co., Ltd.	25	2520	252030
transcosmos inc.	45	4510	451020	TTEC Holdings, Inc.	45	4510	451020
Transurban Group	20	2030	203050	TTET Union Corporation	30	3020	302020
TravelSky Technology Limited	45	4510	451020	TTK Prestige Limited	25	2520	252010
Travis Perkins plc	20	2010	201070	TTW Public Company Limited	55		551040
Treasury Wine Estates Limited	30	3020	302010	TTY Biopharm Company Limited	35	3520	352020
Tredegar Corporation	15	1510		Tubacex, S.A.	15	1510	151040
TreeHouse Foods, Inc.	30	3020	302020	TUI AG	25	2530	253010
Trend Micro Incorporated	45	4510	451030	Tung Ho Steel Enterprise Corporation	15	1510	151040
Trex Company, Inc.	20	2010	201020	Tung Thih Electronic Co., Ltd.	25	2510	251010
Trigano S.A.	25	2520	252020	Tupperware Brands Corporation	25	2520	252010
Trigiant Group Limited	45	4520	452010	Tupy S.A.	25	2510	251010
Trimble Inc.	45	4520	452030	Türk Hava Yollari Anonim Ortakligi	20	2030	203020
Trinity Industries, Inc.	20	2010	201060	Türk Telekomünikasyon A.S.	50		501010
TripAdvisor, Inc.	25	2550	255020	Turkcell Iletisim Hizmetleri A.S.	50		501020
Triple-S Management Corporation	35	3510	351020	Turkiye Garanti Bankasi A.S.			401010
Tripod Technology Corporation	45	4520	452030	Türkiye Halk Bankasi A.S.			401010
Tropicana Corporation Berhad			601020	Türkiye Is Bankasi Anonim Sirketi			401010
TrueBlue, Inc.	20	2020	202020	Türkiye Petrol Rafinerileri A.S.	10	1010	101020
Truly International Holdings Limited	45	4520	452030	Turkiye Sinai Kalkinma Bankasi A.S.			401010
Trusco Nakayama Corporation	20	2010	201070	Türkiye Sise Ve Cam Fabrikalari A.S.	20	2010	
TrustCo Bank Corp NY			401020	Tutor Perini Corporation	20	2010	201030
Trustmark Corporation			401010	TV Asahi Holdings Corporation	25	2540	
Truworhs International Limited	25	2550	255040	TV Azteca SAB de CV	25	2540	
Tryg A/S			403010	TV18 Broadcast Limited	25	2540	
TS TECH Co., Ltd.	25	2510	251010	TVS Motor Company Limited	25	2510	251020
TSC Auto ID Technology Co., Ltd.	45	4520	452020	Twenty-First Century Fox, Inc.	25	2540	
Tsingtao Brewery Company Limited	30	3020	302010	TXC Corporation	45	4520	452030
Tsogo Sun Holdings Limited	25	2530	253010	TYC Brother Industrial Co., Ltd.	25	2510	251010
TSRC Corporation	15	1510	151010	Tyler Technologies, Inc.	45	4510	451030
Tsubakimoto Chain Co.	20	2010	201060	Tyson Foods, Inc.	30	3020	302020
Tsugami Corporation	20	2010	201060	U.S. Physical Therapy, Inc.	35	3510	351020
Tsukishima Kikai Co., Ltd.	20						
Tsukui Corporation	35	3510	351020				

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UACJ Corporation	15	1510	151040	United Arrows Ltd.	25	2550	255040
Ube Industries, Ltd.	15	1510		United Bankshares, Inc.			401010
u-blox Holding AG	45	4530		United Community Banks, Inc.			401010
UBM plc	25	2540		United Continental Holdings, Inc.	20	2030	203020
UCB SA	35	3520	352020	United Fire Group, Inc.			403010
UDG Healthcare plc	35	3510		United Integrated Services Co., Ltd.	20	2010	201030
UDR, Inc.			601010	United Microelectronics Corporation	45	4530	
UEM Edgenta Berhad	20	2010	201030	United Natural Foods, Inc.	30	3010	
UEM Sunrise Berhad			601020	United Overseas Bank Limited			401010
UGI Corporation	55		551020	United Parcel Service, Inc.	20	2030	
UKC Holdings Corporation	45	4520	452030	United Rentals, Inc.	20	2010	201070
Ülker Bisküvi Sanayi A.S.	30	3020	302020	United States Cellular Corporation	50		501020
Ulta Beauty, Inc.	25	2550	255040	United Therapeutics Corporation	35	3520	352010
Ultra Electronics Holdings plc	20	2010	201010	United Urban Investment Corporation			601010
Ultrapar Participações S.A.	10	1010	101020				
UltraTech Cement Limited	15	1510	151020	United Utilities Group PLC	55		551040
UMB Financial Corporation			401010	UNITED, Inc.	45	4510	451010
U-Ming Marine Transport Corp.	20	2030	203030	Unitil Corporation	55		
UMW Holdings Berhad	25	2510		Univentures Public Company Limited			601020
Under Armour, Inc.	25	2520	252030	Universal Cement Corporation	15	1510	151020
Unibail-Rodamco SE			601010	Universal Corporation	30	3020	302030
Unicharm Corporation	30	3030	303010	Universal Display Corporation	45	4520	452030
Unichem Laboratories Limited	35	3520	352020	Universal Electronics Inc.	25	2520	252010
UNID Company Ltd.	15	1510	151010	Universal Entertainment Corporation	25	2520	252020
Unifi, Inc.	25			Universal Forest Products, Inc.	20	2010	201020
UniFirst Corporation	20	2020	202010	Universal Health Realty Income Tr			601010
Unilever PLC	30	3030	303020	Universal Health Services, Inc.	35	3510	351020
Unimicron Technology Corporation	45	4520	452030	Universal Insurance Holdings, Inc.			403010
Union Pacific Corporation	20	2030	203040	Universal Logistics Holdings, Inc.	20	2030	203040
Union Tool Co.	20	2010	201060	Universal Robina Corporation	30	3020	302020
UnipolSai Assicurazioni S.p.A.			403010	UNIZO Holdings Company, Limited			601020
Unipres Corporation	25	2510	251010	Unum Group			403010
Uni-President Enterprises Corp.	30			UOA Development Bhd			601020
UNIQA Insurance Group AG			403010	UPC Technology Corporation	15	1510	151010
Unique Engineering And Construction Public Company Limited	20	2010	201030	UPL Limited	15	1510	151010
Uni-Select Inc.	25	2550	255010	UPM-Kymmene Oyj	15	1510	151050
Unisem (M) Berhad	45	4530					

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Urban Outfitters, Inc.	25	2550	255040	Viad Corp	20	2020	202010
Urstadt Biddle Properties Inc.			601010	Viavi Solutions Inc.	45	4520	
US Ecology, Inc.	20	2020	202010	Vibhavadi Medical Center Public Company Limited	35	3510	351020
USANA Health Sciences, Inc.	30	3030	303020	Vicat SA	15	1510	151020
USG Corporation	20	2010	201020	Victrex plc	15	1510	151010
USI Corporation	15	1510	151010	Vienna Insurance Group AG			403010
USS Co., Ltd.	25	2550	255040	Vieworks Co. Ltd.	35	3510	351010
V Technology Co., Ltd.	45	4520	452030	Village Roadshow Limited	25		
V.F. Corporation	25			Village Super Market, Inc.	30	3010	
V.S. Industry Berhad	45	4520	452030	Viña Concha y Toro S.A.	30	3020	302010
VA Tech Wabag Limited	55		551040	Vinati Organics Limited	15	1510	151010
Vail Resorts, Inc.	25	2530	253010	VINCI SA	20	2010	201030
Vakrangee Limited	45	4510		Vinda International Holdings Limited	30	3030	303010
Vale S.A.	15	1510	151040	Virbac SA	35	3520	352020
Valeo SA	25	2510	251010	Virtus Investment Partners, Inc.			402030
Valero Energy Corporation	10	1010	101020	Virtusa Corporation	45	4510	451020
Valiant Holding AG			401010	Viscofan, S.A.	30	3020	302020
Valor Holdings Co., Ltd.	30	3010		Vishay Intertechnology, Inc.	45	4520	452030
Valora Holding AG	25	2550	255040	Vista Land & Lifescapes, Inc.			601020
Value Added Technology Co., Ltd.	35	3510	351010	Visual Photonics Epitaxy Co., Ltd.	45	4530	
Value Partners Group Limited			402030	Vita Group Limited	25	2550	255040
Van De Velde NV	25	2520	252030	Vital KSK Holdings, Inc.	35	3510	351020
Vanachai Group Public Company Limited	20	2010	201020	Vitamin Shoppe, Inc.	25	2550	255040
Vanguard International Semiconductor Corporation	45	4530		Vitrolife AB (publ)	35	3520	352010
Vardhman Textiles Limited	25	2520	252030	Vivendi SA	25	2540	
Varian Medical Systems, Inc.	35	3510	351010	VMware, Inc.	45	4510	451030
VASCO Data Security International, Inc.	45	4510	451030	Vodacom Group Limited	50		501020
Vastned Retail N.V.			601010	Vodafone Group Plc	50		501020
Vector Inc.	25	2540		Voestalpine AG	15	1510	151040
Ventas, Inc.			601010	Vonage Holdings Corp.	50		
Venture Corporation Limited	45	4520	452030	Vontobel Holding AG			402030
Veolia Environnement S.A.	55		551030	Vornado Realty Trust			601010
Vera Bradley, Inc.	25	2520	252030	VT Holdings Co., Ltd.	25	2550	255040
Verint Systems Inc.	45	4510	451030	Vtech Holdings Limited	45	4520	452010
Verizon Communications Inc.	50			VTG Aktiengesellschaft	20	2030	203040
Vermilion Energy Inc.	10	1010	101020	Vulcan Materials Company	15	1510	151020
Vestas Wind Systems A/S	20	2010	201040	VZ Holding AG			402030
Viacom, Inc.	25	2540					

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W. R. Berkley Corporation			403010	WEC Energy Group, Inc.	55		551030
W. R. Grace & Co.	15	1510	151010	WEG S.A.	20	2010	201060
				Weingarten Realty Investors			601010
W.W. Grainger, Inc.	20	2010	201070	Weis Markets, Inc.	30	3010	
Wabash National Corporation	20	2010	201060	Welcia Holdings Co., Ltd.	30	3010	
WABCO Holdings Inc.	20	2010	201060	Welltower Inc.			601010
				Welspun India Limited	25	2520	252030
Wabco India Limited	25	2510	251010	Wereldhave N.V.			601010
Wacker Chemie AG	15	1510	151010	Werner Enterprises, Inc.	20	2030	203040
Wacker Neuson SE	20	2010	201060	WESCO International, Inc.	20	2010	201070
Wacoal Holdings Corp.	25	2520	252030	West Fraser Timber Co. Ltd.	15	1510	151050
Wacom Co., Ltd.	45	4520	452020	West Pharmaceutical Services, Inc.	35	3510	351010
Waddell & Reed Financial, Inc.			402030	Westamerica Bancorporation			401010
WageWorks, Inc.	20	2020	202020	Westar Energy, Inc.	55		551010
Wajax Corporation	20	2010	201070	Western Digital Corporation	45	4520	452020
Walgreens Boots Alliance, Inc.	30	3010		Western Forest Products Inc.	15	1510	151050
Wallenius Wilhelmsen Logistics ASA	20	2030	203030	Westfield Corporation			601010
Wallenstam AB (publ)			601020	Westinghouse Air Brake Technologies Corporation	20	2010	201060
Wal-Mart de México, S.A.B. de C.V.	30	3010		WestJet Airlines Ltd.	20	2030	203020
Walmart Inc.	30	3010		Westpac Banking Corporation			401010
Walsin Technology Corporation	45	4520	452030	WestRock Company	15	1510	
Walter Meier AG	20	2010	201060	Weyco Group, Inc.	25	2550	255010
				Weyerhaeuser Company			601010
Wan Hai Lines Ltd.	20	2030	203030	WGL Holdings, Inc.	55		551020
Want Want China Holdings Limited	30	3020	302020	WH Smith PLC	25	2550	255040
Warabeya Nichiyo Holdings Co., Ltd.	30	3020	302020	Whan In Pharm Co.,Ltd.	35	3520	352020
Warehouses De Pauw			601010	Wharf (Holdings) Limited			601020
Wärtsilä Oyj Abp	20	2010	201060	Wheaton Precious Metals Corp.	15	1510	151040
				Wheelock and Company Limited			601020
Washington Federal, Inc.			401020	Whirlpool Corporation	25	2520	252010
Wasion Group Holdings Limited	45	4520		Whirlpool of India Limited	25	2520	252010
Waste Management, Inc.	20	2020	202010	Whitbread PLC	25	2530	253010
				White Mountains Insurance Group, Ltd.			403010
Waters Corporation	35	3520	352030	Whitecap Resources Inc.	10	1010	101020
Watsco, Inc.	20	2010	201070	Wihlborgs Fastigheter AB (publ)			601020
Watts Water Technologies, Inc.	20	2010	201060	William Demant Holding A/S	35	3510	351010
WCT Holdings Berhad	20	2010	201030	William Hill plc	25	2530	253010
WD-40 Company	30	3030	303010				
Webjet Limited	25	2550	255020				
Webster Financial Corporation			401010				
Webzen Inc.	45	4510	451030				

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Williams-Sonoma, Inc.	25	2550		Xingda International Holdings Limited	25	2510	251010
Wilmar International Limited	30	3020	302020	Xinhua Winshare Publishing & Media	25	2550	255010
Wilson Bayly Holmes-Ovcon Limited	20	2010	201030	Xintec Inc.	45	4530	
WIN Semiconductors Corp.	45	4530		Xinyi Glass Holdings Limited	25		
Winbond Electronics Corporation	45	4530		XL Group Ltd			403010
Winnebago Industries, Inc.	25	2510		XO Group Inc.	45	4510	451010
Winpak Ltd.	15	1510	151030	Xperi Corporation	45	4530	
Wintrust Financial Corporation			401010	Xtep International Holdings Limited	25	2520	252030
Wipro Limited	45	4510	451020	Xxentria Technology Materials Co.	20	2010	201020
Wisdom Marine Lines Co., Limited	20	2030	203030	Xylem Inc.	20	2010	201060
WisdomTree Investments, Inc.			402030	Yageo Corporation	45	4520	452030
Wistron Corporation	45	4520	452020	Yahagi Construction Co.,Ltd.	20	2010	201030
Wistron NeWeb Corporation	45	4520	452010	Yahoo Japan Corporation	45	4510	451010
Wm Morrison Supermarkets PLC	30	3010		Yakult Honsha Co.,Ltd.	30	3020	302020
Wockhardt Limited	35	3520	352020	Yakuodo Co., Ltd.	30	3010	
Wolverine World Wide, Inc.	25	2520	252030	Yamabiko Corporation	20	2010	201060
Wonik IPS Co., Ltd.	45	4530		Yamada Denki Co., Ltd.	25	2550	255040
Wonik Materials Co., Ltd.	15	1510	151010	Yamaguchi Financial Group, Inc.			401010
Woodside Petroleum Ltd	10	1010	101020	Yamaha Corporation	25	2520	
Woongjin Thinkbig Co., Ltd.	25	2540		Yamaha Motor Co., Ltd.	25		
Workpoint Entertainment Pub. Comp.	25	2540		Yamato Holdings Co., Ltd.	20	2030	203010
Workspace Group plc			601010	Yamato Kogyo Co., Ltd.	15	1510	151040
World Acceptance Corporation			402020	Yamazaki Baking Co., Ltd.	30	3020	302020
World Wrestling Entertainment, Inc.	25	2540		Yamazen Corporation	20	2010	201070
WOWOW INC.	25	2540		Yangzijiang Shipbuilding (Holdings) Ltd.	20	2010	
Wowprime Corp.	25	2530	253010	Yanlord Land Group Limited			601020
WPG Holdings Limited	45	4520	452030	Yanzhou Coal Mining Company Limited	10	1010	101020
WPP AUNZ Limited	25	2540		Yaoko Co.,Ltd.	30	3010	
WPP plc	25	2540		Yapi ve Kredi Bankasi A.S.			401010
W-SCOPE Corporation	15	1510	151010	YASKAWA Electric Corporation	45	4520	452030
WSP Global Inc.	20	2010	201030	YC Inox Co., Ltd.	15	1510	151040
WT Microelectronics Co., Ltd.	45	4520	452030	Yellow Hat Ltd.	25	2550	255040
Wüstenrot & Württembergische AG			403010	Yeong Guan Energy Technology Group Co., Ltd.	15	1510	151040
Wynn Macau, Limited	25	2530	253010	YFY Inc.	15	1510	151050
Xcel Energy Inc.	55		551010	YG Entertainment Inc.	25	2540	
Xcerra Corporation	45	4530		Yieh Phui Enterprise Co., Ltd.	15	1510	151040
Xebio Holdings Co., Ltd.	25	2550	255040	Yinson Holdings Berhad	10	1010	101010
Xerox Corporation	45						
Xiamen International Port Co., Ltd	20	2030	203050				
Xilinx, Inc.	45	4530					

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Yip's Chemical Holdings Limited	15	1510	151010	Zeng Hsing Industrial Co., Ltd.	25	2520	252010
Yodogawa Steel Works, Ltd.	15	1510	151040	Zenrin Co., Ltd.	25	2540	
Yokogawa Bridge Holdings Corp.	20	2010	201030	Zensar Technologies Limited	45	4510	451030
Yokogawa Electric Corporation	45	4520	452030	Zensho Holdings Co., Ltd.	25	2530	253010
Yokohama Reito Co.,Ltd.	30	3010		ZEON Corporation	15	1510	151010
Yomiuri Land Co., Ltd.	25	2530	253010	Zeria Pharmaceutical Co., Ltd.	35	3520	352020
Yondoshi Holdings Inc.	25	2520	252030	Zhaojin Mining Industry Company Limited	15	1510	151040
Yonex Co., Ltd.	25	2520	252020	Zhejiang Expressway Co., Ltd.	20	2030	203050
YOOX Net-A-Porter Group S.p.A.	25	2550	255020	Zhen Ding Technology Holding Limited	45	4520	452030
Yorozu Corporation	25	2510	251010	Zhongsheng Group Holdings Limited	25	2550	255040
Yoshinoya Holdings Co., Ltd.	25	2530	253010	Zignago Vetro S.p.A.	15	1510	151030
Youlchon Chemical Co.,Ltd.	15	1510	151030	Zijin Mining Group Company Limited	15	1510	151040
Youngone Corporation	25	2520	252030	Zimmer Biomet Holdings, Inc.	35	3510	351010
Youngone Holdings Co., Ltd.	25	2520	252030	Zinwell Corporation	45	4520	452010
Ypsomed Holding AG	35	3510		Zions Bancorporation			401010
YTL Power International Berhad	55			Zodiac Aerospace	20	2010	201010
Yuanta Financial Holding Co., Ltd.			402030	Zojirushi Corporation	25	2520	252010
Yue Yuen Industrial (Holdings) Limited	25			zooplus AG	25	2550	255020
Yuexiu Property Company Limited			601020	ZTE Corporation	45	4520	
Yuexiu Real Estate Investment Trust			601010	Zumiez Inc.	25	2550	255040
Yuexiu Transport Infrastructure Limited	20	2030	203050	Zurich Insurance Group AG			403010
Yuhan Corporation	35	3520	352020	Zyduz Wellness Limited	30	3020	302020
Yulon Motor Company Ltd.	25	2510	251020				
Yumeshin Holdings Co.,Ltd.	20						
Yung Chi Paint & Varnish Mfg. Co.,Ltd	15	1510	151010				
Yungjin Pharm. Co., Ltd.	35	3520	352020				
YungShin Global Holding Corporation	35	3520	352020				
Yungtay Engineering Co., Ltd.	20	2010	201060				
Yurtec Corporation	20	2010	201030				
Yusen Logistics Co.,Ltd.	20	2030	203010				
Yushin Precision Equipment Co., Ltd.	20	2010	201060				
Yuzhou Properties Company Limited			601020				
Zardoya Otis, S.A.	20	2010	201060				
ZEAL Network SE	25	2530	253010				
Zebra Technologies Corporation	45	4520	452030				
Zeder Investments Ltd.			402030				
Zee Entertainment Enterprises Limited	25	2540					

Appendix F: GICS Codes in which Companies ("High-Financial-Risk" Set) are Included, World

In Appendix F, a listing of the GICS codes in which each of the companies in the set of "high-financial-risk" companies in the World region in the *2017 Valuation Handbook – International Industry Cost of Capital* Semi-annual Update (data through September 30, 2017) is presented.

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3D Systems Corporation	45	4520	452020	Avianca Holdings S.A.	20	2030	203020
A. Schulman, Inc.	15	1510	151010	Avis Budget Group, Inc.	20	2030	
Acacia Mining plc	15	1510	151040	Avon Products, Inc.	30		
Acer Incorporated	45	4520	452020	Axtel, S.A.B. de C.V.	50		501010
Adani Power Limited	55		551050	B2Gold Corp.	15	1510	151040
Advanced Micro Devices, I	45	4530		B2W - Companhia Digital	25	2550	
Advantage Oil & Gas Ltd.	10	1010	101020	Balfour Beatty plc	20	2010	201030
Advantest Corporation	45	4530		Barnes & Noble, Inc.	25	2550	255040
Aerojet Rocketdyne Holdin	20	2010	201010	Barrick Gold Corporation	15	1510	151040
Agnico Eagle Mines Limite	15	1510	151040	Bavarian Nordic A/S	35	3520	352010
Aimia Inc.	25	2540		Baytex Energy Corp.	10	1010	101020
Air Canada	20	2030	203020	Beach Energy Limited	10	1010	101020
Air France-KLM SA	20	2030	203020	Beijing Enterprises Envir	20	2020	202010
AK Steel Holding Corporat	15	1510	151040	Belmond Ltd.	25	2530	253010
Akastor ASA	10	1010	101010	Bengang Steel Plates Co.,	15	1510	151040
Akebono Brake Industry Co	25	2510	251010	Beni Stabili SpA SIIQ			601010
Aker BP ASA	10	1010	101020	Berjaya Corporation Berha	20		
Alacer Gold Corp.	15	1510	151040	Bill Barrett Corporation	10	1010	101020
Alamos Gold Inc.	15	1510	151040	BINEX Co., Ltd.	35	3520	352020
Alere Inc.	35	3510	351010	BioTelemetry, Inc.	35	3510	351020
Allegheny Technologies In	15	1510	151040	BlackBerry Limited	45	4510	451030
Allscripts Healthcare Sol	35	3510		BlueScope Steel Limited	15	1510	151040
Altus Group Limited			601020	Bombardier Inc.	20	2010	201010
AMC Networks Inc.	25	2540		Bonavista Energy Corporat	10	1010	101020
Amec Foster Wheeler plc	10	1010	101010	Boralex Inc.	55		551050
Amedisys, Inc.	35	3510	351020	Boston Scientific Corpora	35	3510	351010
American Axle & Manufactu	25	2510	251010	Bottomline Technologies (45	4510	451030
Ameris Bancorp			401010	Bourbon Corporation SA	10	1010	101010
Anadarko Petroleum Corpor	10	1010	101020	Boyd Gaming Corporation	25	2530	253010
AngioDynamics, Inc.	35	3510	351010	Brinker International, In	25	2530	253010
Anglo American Platinum L	15	1510	151040	Bristow Group Inc.	10	1010	101010
Apache Corporation	10	1010	101020	Brookdale Senior Living I	35	3510	351020
Archrock, Inc.	10	1010	101010	Builders FirstSource, Inc	20	2010	
ARYZTA AG	30	3020	302020	BW Offshore Limited	10	1010	101010
Ascena Retail Group, Inc.	25	2550	255040	Callaway Golf Company	25	2520	
Ascom Holding AG	45	4520	452010	Callon Petroleum Company	10	1010	101020
Asia Optical Co., Inc.	45	4520	452030	Canaccord Genuity Group I			402030
Asia Pacific Telecom Co.,	50		501010	Capital Environment Holdi	20	2020	202010
Asiana Airlines, Inc.	20	2030	203020	Career Education Corporat	25	2530	253020
Aspen Technology, Inc.	45	4510	451030	Cascades Inc.	15	1510	
Atlantic Power Corporatio	55		551050	Casella Waste Systems, In	20	2020	202010
AU Optronics Corp.	45	4520	452030	Cedar Realty Trust, Inc.			601010
AURELIUS Equity Opportuni			402030	CEMEX, S.A.B. de C.V.	15	1510	151020
Autodesk, Inc.	45	4510	451030	Centrais Elétricas Brasil	55		551010
AutoZone, Inc.	25	2550	255040	Central European Media En	25	2540	

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Century Aluminum Company	15	1510	151040	De La Rue plc	20	2020	202010
CGG	10	1010	101010	DeA Capital S.p.A.			402030
Chemical Financial Corpor			401010	Dean Foods Company	30	3020	302020
Chennai Petroleum Corpora	10	1010	101020	Delta Air Lines, Inc.	20	2030	203020
China Datang Corporation	55		551050	Denny's Corporation	25	2530	253010
China Daye Non-Ferrous Me	15	1510	151040	Devon Energy Corporation	10	1010	101020
China Huiyuan Juice Group	30	3020	302020	DGB Financial Group Co.,			401010
China Longyuan Power Grou	55		551050	Dignity plc	25	2530	253020
China LotSynergy Holdings	25	2530	253010	D-Link Corporation	45	4520	452010
China National Building M	15	1510	151020	DNO ASA	10	1010	101020
China NT Pharma Group Com	35			Domino's Pizza, Inc.	25	2530	253010
China Petrochemical Devel	15	1510	151010	Dongkuk Steel Mill Compan	15	1510	151040
China Suntien Green Energy	10	1010	101020	Doosan Heavy Industries &	20	2010	
China Water Industry Grou	55			Doosan Infracore Co., Ltd	20	2010	201060
China Yurun Food Group Li	30	3020	302020	Dream Global Real Estate			601010
Choice Hotels Internation	25	2530	253010	DXC Technology Company	45	4510	451020
Chongqing Changan Automob	25	2510		E Ink Holdings Inc.	45	4520	452030
Chung Hwa Pulp Corporatio	15	1510	151050	E.ON SE	55		
Ciena Corporation	45	4520	452010	Edenred SA	20	2020	202010
Cimarex Energy Co.	10	1010	101020	Eldorado Gold Corporation	15	1510	151040
Cleanaway Waste Managemen	20	2020	202010	Empire Company Limited	30	3010	
Clear Channel Outdoor Hol	25	2540		Encana Corporation	10	1010	101020
CMC Magnetics Corporation	45	4520	452020	Endeavour Mining Corporat	15	1510	151040
CMG Pharmaceutical Co., L	35	3520	352020	Endeavour Silver Corp.	15	1510	151040
Cobham plc	20	2010	201010	Energen Corporation	10	1010	101020
Codere, S.A.	25	2530	253010	Enerplus Corporation	10	1010	101020
Cogent Communications Hol	50		501010	ENGIE SA	55		
Cohu, Inc.	45	4530		Engility Holdings, Inc.	20	2010	201010
Colgate-Palmolive Company	30			EnQuest PLC	10	1010	101020
Community Health Systems,	35	3510	351020	EPICSTAR corporation	45	4530	
Compagnie des Alpes SA	25	2530	253010	ERAMET S.A.	15	1510	151040
Compagnie Industriali Riu	20			Esprit Holdings Limited	25	2550	255040
Concho Resources Inc.	10	1010	101020	Esso (Thailand) Public Co	10	1010	101020
Corbion N.V.	15	1510	151010	Esso S.A.F.	10	1010	101020
Cosmo Energy Holdings Co.	10	1010	101020	Evergreen Marine Corporat	20	2030	203030
Crescent Point Energy Cor	10	1010	101020	Evolution Mining Limited	15	1510	151040
Crew Energy Inc.	10	1010	101020	EVRAZ plc	15	1510	151040
Crombie Real Estate Inves			601010	Extreme Networks, Inc.	45	4520	452010
Cross Country Healthcare,	35	3510	351020	Ezion Holdings Limited	10	1010	101010
Crown Holdings, Inc.	15	1510		Ezz Steel Company	15	1510	151040
Customers Bancorp, Inc.			401010	Fagron NV	35	3510	351020
Cypress Semiconductor Cor	45	4530		Fairfax Media Limited	25	2540	
Dampskibsselskabet Norden	20	2030	203030	Falck Renewables S.p.A.	55		551050
Darwin Precisions Corpora	45	4530		Ferro Corporation	15	1510	151010
DDR Corp.			601010	Fibria Celulose S.A.	15	1510	151050

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Fidelity Southern Corpora			401010	HCA Healthcare, Inc.	35	3510	351020
Finnair Oyj	20	2030	203020	HCL Technologies Limited	45	4510	451020
First Majestic Silver Cor	15	1510	151040	Heidelberger Druckmaschin	20		
First Philippine Holdings	55		551010	Helix Energy Solutions Gr	10	1010	101010
FirstEnergy Corp.	55		551010	Herbalife Ltd.	30		
Fomento de Construcciones	20	2010	201030	Hertz Global Holdings, In	20	2030	
Forestar Group Inc.			601020	Hess Corporation	10	1010	101020
Fortuna Silver Mines Inc.	15	1510	151040	Hindustan Construction Co	20	2010	201030
Fosun International Limit	20	2010		HMC Investment Securities			402030
Fred's, Inc.	25	2550		Hochschild Mining PLC	15	1510	151040
Freeport-McMoRan Inc.	15	1510	151040	Höegh LNG Holdings Ltd.	10	1010	101020
Frontier Communications C	50		501010	Hokkaido Electric Power C	55		551010
Fujita Kanko Inc.	25	2530	253010	Hokuriku Electric Power C	55		551010
Funai Electric Co., Ltd.	25	2520	252010	Hologic, Inc.	35	3510	351010
Futaba Corporation	20	2010		Hosiden Corporation	45	4520	452030
Futaba Industrial Co., Lt	25	2510	251010	Hovnanian Enterprises, In	25	2520	252010
Gartner, Inc.	45	4510	451020	HP Inc.	45	4520	452020
Gayatri Projects Limited	20	2010	201030	HRG Group, Inc.	30		
GCI Liberty, Inc.	50		501010	HT&E Limited	25	2540	
General Cable Corporation	20	2010	201040	Huadian Energy Company Li	55		551050
Genus plc	35	3520	352010	Huadian Fuxin Energy Corp	55		551050
Gibson Energy Inc.	10	1010	101020	Huaneng Renewables Corpor	55		551050
Gigastorage Corporation	45	4530		Hudbay Minerals Inc.	15	1510	151040
Gintech Energy Corporatio	45	4530		Hunting plc	10	1010	101010
Global Telecom Holding S.	50			Hutchison Port Holdings T	20	2030	
Glorious Property Holding			601020	Hyflux Ltd	55		
GMR Infrastructure Limite	20			Hyprop Investments Limite			601010
Godo Steel, Ltd.	15	1510	151040	Hyundai Elevator Co., Ltd	20	2010	201060
GOL Linhas Aéreas Intelig	20	2030	203020	IAMGOLD Corporation	15	1510	151040
Goldcorp Inc.	15	1510	151040	Iconix Brand Group, Inc.	25	2520	
Golden Meditech Holdings	35	3510		IDEXX Laboratories, Inc.	35	3510	351010
Golden Ocean Group Limite	20	2030	203030	IGB Real Estate Investmen			601010
Gran Tierra Energy Inc.	10	1010	101020	ILJIN Materials Co., Ltd.	45	4520	452030
Green Cross Cell corporat	35	3520	352010	Impala Platinum Holdings	15	1510	151040
Greif, Inc.	15	1510		Impax Laboratories, Inc.	35	3520	352020
Grindrod Limited	20	2030	203030	Incyte Corporation	35	3520	352010
Guangzhou Automobile Grou	25	2510		Independence Group NL	15	1510	151040
H&R Block, Inc.	25	2530	253020	Indra Sistemas, S.A.	45	4510	451020
Hanjin Heavy Industries &	20	2010		Infigen Energy	55		551050
HannStar Display Corporat	45	4520	452030	Infinera Corporation	45	4520	452010
Hansol Technics Co., Ltd.	45	4530		Innergex Renewable Energy	55		551050
Harim Co., Ltd.	30	3020	302020	Innolux Corporation	45	4520	452030
Harmonic Inc.	45	4520	452010	Inter Pipeline Ltd.	10	1010	101020
Harmony Gold Mining Compa	15	1510	151040	InterContinental Hotels G	25	2530	253010
Harsco Corporation	20			Interpark Holdings Corpor	25	2550	

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Invacare Corporation	35	3510	351010	LivePerson, Inc.	45	4510	
Investment Technology Gro			402030	Lonmin Plc	15	1510	151040
Italian-Thai Development	20	2010	201030	Lopez Holdings Corporatio	55		551050
Itron, Inc.	45	4520	452030	Lotus Pharmaceutical Co.,	35	3520	352020
J. C. Penney Company, Inc	25	2550		Lundin Petroleum AB (publ	10	1010	101020
Jack in the Box Inc.	25	2530	253010	Magnesita Refratários S.A	15	1510	151020
Japan Communications Inc.	50			Major Drilling Group Inte	15	1510	151040
Japan Drilling Co., Ltd.	10	1010	101010	Man Group plc			402030
JEOL Ltd.	35			Marfrig Global Foods S.A.	30	3020	302020
Jerusalem Economy Ltd.			601020	Marie Brizard Wine & Spir	30	3020	
Jet Airways (India) Limit	20	2030	203020	Marriott International, I	25	2530	253010
Just Energy Group Inc.	55			MaxLinear, Inc.	45	4530	
Jusung Engineering Co., L	45	4530		McDermott International,	10	1010	101010
Juventus Football Club S.	25	2540		McDonald's Corporation	25	2530	253010
JW Holdings Corporation	35	3520	352020	McDonald's Holdings Compa	25	2530	253010
JW Pharmaceutical Corpora	35	3520	352020	Mediaset S.p.A.	25	2540	
JW Shinyak Corporation	35	3520	352020	MEDIPOST Co., Ltd.	35	3510	351020
Kappa-Create Co., Ltd.	25	2530	253010	MEG Energy Corp.	10	1010	101020
Kawasaki Kisen Kaisha, Lt	20	2030	203030	Meritor, Inc.	20	2010	201060
KAZ Minerals plc	15	1510	151040	Mexichem, S.A.B. de C.V.	15	1510	151010
KBR, Inc.	20	2010	201030	MIE Holdings Corporation	10	1010	101020
Kenedix Residential Inves			601010	Migros Ticaret A.S.	30	3010	
Kindred Healthcare, Inc.	35	3510	351020	Minera Frisco, S.A.B. de	15	1510	151040
Kinross Gold Corporation	15	1510	151040	Minerva S.A.	30	3020	302020
Kintetsu Department Store	25	2550		Mitsui O.S.K. Lines, Ltd.	20	2030	203030
Kite Realty Group Trust			601010	Mitsui Soko Holdings Co.,	20	2030	
Klöckner & Co SE	20	2010	201070	MMG Limited	15	1510	151040
Koenig & Bauer AG	20	2010	201060	mobilezone holding ag	25	2550	255040
Komipharm International C	35	3520	352020	MoneyGram International,	45	4510	451020
Koninklijke Wessanen N.V.	30	3020	302020	Motech Industries, Inc.	45	4530	
Korea Gas Corporation	55			Motorcar Parts of America	25	2510	251010
Kratos Defense & Security	20			Motorola Solutions, Inc.	45		
Kumho Industrial Co., Ltd	20	2010	201030	Nabors Industries Ltd.	10	1010	101010
Kyushu Electric Power Com	55		551010	Nan Ya Printed Circuit Bo	45	4520	452030
L Brands, Inc.	25	2550	255040	Nanjing Panda Electronics	45	4520	
L&F Co., Ltd.	45	4520	452030	Nanya Technology Corporat	45	4530	
Laox CO., LTD.	25	2550	255040	National CineMedia, Inc.	25	2540	
LATAM Airlines Group S.A.	20	2030	203020	New Gold Inc.	15	1510	151040
Latécoère S.A.	20	2010	201010	Newcrest Mining Limited	15	1510	151040
Lattice Semiconductor Cor	45	4530		NewMarket Corporation	15	1510	151010
Leonardo S.p.a.	20	2010	201010	Nexans S.A.	20	2010	201040
Leyou Technologies Holdin	45	4510	451030	NEXTDC Limited	45	4510	
Li Ning Company Limited	25	2520		NH Hotel Group, S.A.	25	2530	253010
Lianhua Supermarket Holdi	30	3010		Nintendo Co., Ltd.	45	4510	451030
Live Nation Entertainment	25	2540		Nippon Sharyo, Ltd.	20	2010	201060

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Nippon Yusen Kabushiki Ka	20	2030		Promotora de Informacione	25	2540	
Nisshin Steel Co., Ltd.	15	1510	151040	PT Bank Danamon Indonesia			401010
Noble Energy, Inc.	10	1010	101020	PT Krakatau Steel (Perser	15	1510	151040
Noble Group Limited	20	2010	201070	PT. Garuda Indonesia (Per	20	2030	
Nokia Corporation	45	4520	452010	Public Joint Stock Compan	20	2030	203020
Norstar Holdings Inc.			601020	Public Power Corporation	55		551010
Northam Platinum Limited	15	1510	151040	Pure Industrial Real Esta			601010
NRG Energy, Inc.	55		551050	Qantas Airways Limited	20	2030	203020
NuVista Energy Ltd.	10	1010	101020	QEP Resources, Inc.	10	1010	101020
Nyrstar NV	15	1510	151040	Quidel Corporation	35	3510	351010
Obrascón Huarte Lain, S.A	20	2010	201030	QVC Group	25	2550	
Obsidian Energy Ltd.	10	1010	101020	R.R. Donnelley & Sons Com	20		
OCI Company Ltd	15	1510	151010	Rallye SA	30	3010	
OFG Bancorp			401010	Range Resources Corporati	10	1010	101020
Oil Refineries Ltd.	10	1010	101020	Realia Business, S.A.			601020
OraSure Technologies, Inc	35	3510	351010	REC Silicon ASA	45	4530	
ORBCOMM Inc.	50		501010	Regal Entertainment Group	25	2540	
Origin Energy Limited	10	1010	101020	Regis Corporation	25	2530	253020
OSAKA Titanium technologi	15	1510	151040	Reliance Communications L	50		
Otello Corporation ASA	45	4510		Rent-A-Center, Inc.	25	2550	255040
Outokumpu Oyj	15	1510	151040	Rentokil Initial plc	20	2020	202010
Pacific Basin Shipping Li	20	2030	203030	Resilient REIT Limited			601010
Pacific Metals Co., Ltd.	15	1510	151040	Revlon, Inc.	30		
Painted Pony Energy Ltd.	10	1010	101020	Rite Aid Corporation	30	3010	
Pan American Silver Corp.	15	1510	151040	RITEK Corporation	45	4520	452020
Paramount Resources Ltd.	10	1010	101020	Round One Corporation	25	2530	253010
Parex Resources Inc.	10	1010	101020	Royal Bafokeng Platinum L	15	1510	151040
Pavilion Real Estate Inve			601010	RWE Aktiengesellschaft	55		
PDC Energy, Inc.	10	1010	101020	Sacyr, S.A.	20		
Pearson plc	25	2540		Sadbhav Engineering Limit	20	2010	201030
Pengrowth Energy Corporat	10	1010	101020	Safilo Group S.p.A.	25	2520	
Penn National Gaming, Inc	25	2530	253010	Saipem S.p.A.	10	1010	101010
Pennsylvania Real Estate			601010	Salesforce.com, inc.	45	4510	451030
Petroleum Geo-Services AS	10	1010	101010	Sally Beauty Holdings, In	25	2550	255040
Peugeot S.A.	25	2510		Samsung SDI Co., Ltd.	45		
Philip Morris Internation	30	3020		Sandstorm Gold Ltd.	15	1510	151040
Pinnacle Entertainment, I	25	2530	253010	Sanoma Oyj	25	2540	
Pioneer Corporation	25	2520	252010	Santos Limited	10	1010	101020
Pioneer Natural Resources	10	1010	101020	Sany Heavy Equipment Inte	20	2010	201060
Post Holdings, Inc.	30	3020	302020	Sanyang Motor Co., Ltd.	25	2510	
PostNL N.V.	20	2030		Sappi Limited	15	1510	151050
Precious Shipping Public	20	2030	203030	Saras S.p.A.	10	1010	101020
Precision Drilling Corpor	10	1010	101010	SBA Communications Corpor			601010
Premier Foods plc	30	3020	302020	Schmolz + Bickenbach AG	15	1510	151040
Premier Oil plc	10	1010	101020	Schneider Electric Infrac	20	2010	201040

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Schnitzer Steel Industrie	15	1510	151040	Sun International Limited	25	2530	253010
SEACOR Holdings Inc.	10			Sungwoo Hitech Co., Ltd.	25	2510	251010
Secure Energy Services In	10	1010	101010	SunPower Corporation	45	4530	
Sejong Telecom, Inc.	50		501010	Super Micro Computer, Inc	45	4520	452020
Semapa - Sociedade de Inv	15	1510	151050	Superblock Public Company	55		551050
Seobu T&D Co., Ltd.	25	2550	255040	Superior Energy Services,	10	1010	101010
Sequent Scientific Limite	35	3520	352020	Superior Plus Corp.	55		
Serco Group plc	20	2020	202010	SUPERVALU Inc.	30	3010	
Seven West Media Limited	25	2540		Surge Energy Inc.	10	1010	101020
SFA Semicon Co., Ltd.	45	4530		Suzano Papel e Celulose S	15	1510	151050
SGL Carbon SE	20	2010	201040	Suzlon Energy Limited	20	2010	201040
Shanghai Jin Jiang Intern	25	2530	253010	Syntel, Inc.	45	4510	451020
Shanghai Lingyun Industri	55		551050	Tailored Brands, Inc.	25	2550	255040
Sharp Corporation	25	2520		Taiwan Building Materials	15	1510	151020
Shenzhen Wongtee Internat			601020	Taiwan Cogeneration Corpo	55		551050
Shikoku Electric Power Co	55		551010	Take-Two Interactive Soft	45	4510	451030
Sierra Wireless, Inc.	45	4520	452010	Tata Communications Limit	50		
SIG plc	20	2010	201070	Tata Steel Limited	15	1510	151040
Silvercorp Metals Inc.	15	1510	151040	Taubman Centers, Inc.			601010
Singha Estate Public Comp			601020	Telecom Italia S.p.A.	50		501010
Sino-American Silicon Pro	45	4530		Telenet Group Holding NV	25	2540	
Sinofert Holdings Limited	15	1510	151010	Teligent, Inc.	35	3520	352020
Sinotrans Shipping Limite	20	2030	203030	Tenet Healthcare Corporat	35	3510	351020
Sirius XM Holdings Inc.	25	2540		Thai Airways Internationa	20	2030	203020
SITI Networks Limited	25	2540		The Chugoku Electric Powe	55		551010
SK Networks Company Limit	20	2010	201070	The Dun & Bradstreet Corp	20	2020	
SK Securities Co., Ltd.			402030	The Goodyear Tire & Rubbe	25	2510	251010
SkyWest, Inc.	20	2030	203020	The Indian Hotels Company	25	2530	253010
SM Energy Company	10	1010	101020	The Kansai Electric Power	55		551010
Sonic Automotive, Inc.	25	2550	255040	The Royal Bank of Scotlan			401010
Sonic Corp.	25	2530	253010	The Shipping Corporation	20	2030	203030
Southern Cross Media Grou	25	2540		The Tata Power Company Li	55		551010
Southside Bancshares, Inc			401010	Tile Shop Holdings, Inc.	25	2550	255040
Southwestern Energy Compa	10	1010	101020	Titan Machinery Inc.	20	2010	201070
SPARX Group Co., Ltd			402030	Tivity Health, Inc.	35	3510	351020
Spectrum Pharmaceuticals,	35	3520	352010	TMX Group Limited			402030
SRC Energy Inc.	10	1010	101020	Toda Corporation	20	2010	201030
SSAB AB	15	1510	151040	Toho Titanium Co., Ltd.	15	1510	151040
Ssangyong Motor Company	25	2510		Toho Zinc Co., Ltd.	15	1510	151040
St Barbara Limited	15	1510	151040	Tohoku Electric Power Com	55		551010
Starhill Global Real Esta			601010	Tokuyama Corporation	15	1510	151010
Sterling Bancorp			401010	Tokyo Electric Power Comp	55		551010
Stockmann Oyj ABP	25	2550		Tokyo Steel Manufacturing	15	1510	151040
Sumco Corporation	45	4530		TomTom N.V.	25	2520	252010
Summit Hotel Properties,			601010	TOMY Company, Ltd.	25	2520	

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Tongfang Kontafarma Holdi	15	1510	151020	WeMade Entertainment Co.,	45	4510	451030
Tongyang Inc.	15	1510	151020	Western Areas Limited	15	1510	151040
Toshiba Tec Corporation	45	4520	452020	Whitehaven Coal Limited	10	1010	101020
Tower Semiconductor Ltd.	45	4530		Whiting Petroleum Corpora	10	1010	101020
Toyo Engineering Corporat	20	2010	201030	Wienerberger AG	15	1510	151020
TransAlta Corporation	55		551050	Windstream Holdings, Inc.	50		501010
TransDigm Group Incorpora	20	2010	201010	WPX Energy, Inc.	10	1010	101020
Transocean Ltd.	10	1010	101010	Wynn Resorts, Limited	25	2530	253010
Trencor Limited	20	2010	201070	Xinjiang Xinxin Mining In	15	1510	151040
Trican Well Service Ltd.	10	1010	101010	Yamana Gold Inc.	15	1510	151040
Tricon Capital Group Inc.			601020	YRC Worldwide Inc.	20	2030	
Trinidad Drilling Ltd.	10	1010	101010	YUM! Brands, Inc.	25	2530	253010
Triumph Group, Inc.	20	2010	201010				
True Corporation Public C	50						
TSI Holdings Co.,Ltd.	25	2520					
TTM Technologies, Inc.	45	4520	452030				
Tullow Oil plc	10	1010	101020				
Turquoise Hill Resources	15	1510	151040				
U.S. Concrete, Inc.	15	1510	151020				
ULVAC, Inc.	45	4530					
UniCredit S.p.A.			401010				
Unione di Banche Italiane			401010				
Unisys Corporation	45	4510	451020				
Unit Corporation	10	1010	101010				
United Spirits Limited	30	3020					
United States Steel Corpo	15	1510	151040				
Usinas Siderúrgicas de Mi	15	1510	151040				
Valeant Pharmaceuticals I	35	3520	352020				
Vallourec SA	10	1010	101010				
Vectura Group plc	35	3520	352020				
Vedanta Limited	15	1510	151040				
Vedanta Resources plc	15	1510	151040				
Veeco Instruments Inc.	45	4530					
Veresen Inc.	10	1010	101020				
VeriFone Systems, Inc.	45	4520					
VeriSign, Inc.	45	4510					
Vestel Elektronik Sanayi	25	2520	252010				
Vicor Corporation	20	2010	201040				
ViroMed Co., Ltd.	35	3520	352010				
Vocus Group Limited	50		501010				
Vodafone Qatar Q.S.C.	50						
Vossloh AG	20	2010	201060				
Watami Co., Ltd.	25	2530	253010				
Wei Chuan Foods Corporati	30	3020	302020				
Weight Watchers Internati	25	2530	253020				

Appendix G: Companies (Main Set) in Each Industry, by GICS Code, in European Union

In Appendix G, a listing of companies in the main set of "healthy" companies for each GICS code in the European Union region in the *2017 Valuation Handbook – International Industry Cost of Capital* Semi-annual Update (data through September 30, 2017) is presented.

GICS 10

AB Klaipedos nafta
 Amerisur Resources PLC
 Awilco Drilling Plc
 BP p.l.c.
 CropEnergies AG
 Enagás, S.A.
 Etablissements Maurel & P
 Euronav NV
 Exmar NV
 Gas Plus S.p.A.
 GETECH Group Plc
 Guideline Geo AB (publ)
 Hargreaves Services Plc
 Heurtey Petrochem S.A.
 Jadranski naftovod d.d.
 James Fisher and Sons plc
 John Wood Group PLC
 Lubelski Wegiel Bogdanka
 Misen Energy AB (publ)
 MOL Magyar Olaj- es Gazip
 Oil & Gas Exploration & P
 OMV Aktiengesellschaft
 OMV Petrom S.A.
 Petro Welt Technologies A
 Petrolina (Holdings) Publ
 Repsol, S.A.
 Royal Dutch Shell plc
 S.N.T.G.N. Transgaz S.A.
 Snam S.p.A.
 SOCO International plc
 Subsea 7 S.A.
 Técnicas Reunidas, S.A.
 Tenaris S.A.
 Volga Gas plc
 Zamet S.A.

Lubelski Wegiel Bogdanka
 Misen Energy AB (publ)
 MOL Magyar Olaj- es Gazip
 Oil & Gas Exploration & P
 OMV Aktiengesellschaft
 OMV Petrom S.A.
 Petrolina (Holdings) Publ
 Repsol, S.A.
 Royal Dutch Shell plc
 S.N.T.G.N. Transgaz S.A.
 Snam S.p.A.
 SOCO International plc
 Volga Gas plc

GICS 15

Acerinox, S.A.
 Air Liquide, société anon
 Akzo Nobel N.V.
 Alchemia S.A.
 Alcomet AD
 Altri, S.G.P.S., S.A.
 AMAG Austria Metall AG
 Anglo Asian Mining PLC
 Antofagasta plc
 Arkema S.A.
 Aurubis AG
 BASF SE
 BillerudKorsnäs AB (publ)
 Boliden AB
 Boryszew S.A.
 BSC Drukarnia Opakowan
 Sp
 Buzzi Unicem SpA
 Caltagirone SpA
 Cementir Holding S.p.A.
 Central Asia Metals Plc
 Coil S.A./N.V.
 Croda International plc
 Delignit AG
 Drillcon AB
 DS Smith Plc
 Elementis plc
 ENCE Energia y Celulosa,
 EPC Groupe
 Ercros, S.A.
 ERG Spółka Akcyjna
 Ergis S.A.
 Euro Ressources S.A.
 Exacompta Clairefontaine
 F. Ramada Investimentos,
 Fazerles AD
 Ferrexpo Plc
 Flexopack Soc. Anonyme PI
 Flügger A/S
 Fresnillo PLC
 Groupe Guillin S.A.
 Grupa Azoty Zaklady
 Chemi
 Grupa Kety S.A.
 H&R GmbH & Co. KGaA
 Hexpol AB (Publ)
 Highland Gold Mining Limi

Hill & Smith Holdings PLC
 Holland Colours NV
 Huhtamäki Oyj
 Iberpapel Gestión, S.A.
 Iktinos Hellas S.A.
 Imerys SA
 Impexmetal S.A.
 Isagro S.p.A.
 Izostal Spółka Akcyjna
 James Cropper plc
 Johnson Matthey Plc
 K+S Aktiengesellschaft
 KARATZIS S.A.
 Kemira Oyj
 Le Bélier S.A.
 Lenzing Aktiengesellschaft
 Libet S.A.
 Linde Aktiengesellschaft
 Low & Bonar plc
 Marshalls plc
 Mayr-Melnhof Karton AG
 Metsä Board Oyj
 Michelmersh Brick Holding
 Miquel y Costas & Miquel,
 Mondy plc
 Nabaltec AG
 Nanogate AG
 Novozymes A/S
 NV Bekaert SA
 Oeneo SA
 Orapi
 Paged S.A.
 Papeles y Cartones de Eur
 Paperpack A.B.E.E.
 PCC Exol Spółka Akcyjna
 Pfeleiderer Group Spółka A
 Plastics Capital plc
 Polska Grupa Odlewnicza S
 ProfilGruppen AB
 Przedsiębiorstwo Produkcy
 PSB Industries
 Reno De Medici S.p.A.
 Resilux NV
 RHI Magnesita N.V.
 Rio Tinto plc
 Robinson plc
 Rottneros AB (publ)
 RPC Group Plc
 Selena FM S.A.
 SIMONA Aktiengesellschaft
 Smurfit Kappa Group plc
 Société Internationale de
 Sol SpA
 Solvay SA
 SP Group A/S
 Stalprodukt S.A.
 Sto SE & Co. KGaA
 Stora Enso Oyj
 Synthomer plc
 Synthos S.A.
 TFF Group

GICS 101010

Awilco Drilling Plc
 GETECH Group Plc
 Guideline Geo AB (publ)
 Heurtey Petrochem S.A.
 John Wood Group PLC
 Petro Welt Technologies A
 Subsea 7 S.A.
 Técnicas Reunidas, S.A.
 Tenaris S.A.
 Zamet S.A.

GICS 101020

AB Klaipedos nafta
 Amerisur Resources PLC
 BP p.l.c.
 CropEnergies AG
 Enagás, S.A.
 Etablissements Maurel & P
 Euronav NV
 Exmar NV
 Gas Plus S.p.A.
 Hargreaves Services Plc
 Jadranski naftovod d.d.

The Navigator Company, S.
Tikkurila Oyj
Titan Cement Company
S.A.
Treatt plc
Tubacex, S.A.
Unior Kovaska industrija
UNIPETROL, a.s.
UPM-Kymmene Oyj
Vassiliko Cement Works Pu
Vicat SA
Victrex plc
Vidrala, S.A.
Voestalpine AG
Wacker Chemie AG
Zaklady Azotowe Pulawy S.
Zaklady Magnezytowe
ROPCZ
Zignago Vetro S.p.A.
Zimplats Holdings Limited
Zotefoams plc

GICS 151010

Air Liquide, société anon
Akzo Nobel N.V.
BASF SE
Croda International plc
Elementis plc
EPC Groupe
Ercros, S.A.
ERG Spółka Akcyjna
Ergis S.A.
Flügger A/S
Grupa Azoty Zaklady
Chemi
H&R GmbH & Co. KGaA
Hexpol AB (Publ)
Holland Colours NV
Isagro S.p.A.
Kemira Oyj
Lenzing Aktiengesellschaft
Linde Aktiengesellschaft
Nabaltec AG
Nanogate AG
Novozymes A/S
Orapi
PCC Exol Spółka Akcyjna
Selena FM S.A.
SIMONA Aktiengesellschaft
Société Internationale de
Sol SpA
Solvay SA
SP Group A/S
Synthomer plc
Synthos S.A.
Tikkurila Oyj
Treatt plc
UNIPETROL, a.s.
Victrex plc
Wacker Chemie AG
Zaklady Azotowe Pulawy S.
Zotefoams plc

GICS 151020

Buzzi Unicem SpA
Caltagirone SpA
Cementir Holding S.p.A.
Imerys SA
Libet S.A.
Low & Bonar plc
Marshalls plc
Michelmersh Brick Holding
RHI Magnesita N.V.
Sto SE & Co. KGaA
Titan Cement Company
S.A.
Vassiliko Cement Works Pu
Vicat SA
Zaklady Magnezytowe
ROPCZ

GICS 151030

BillerudKorsnäs AB (publ)
BSC Drukarnia Opakowan
Sp
DS Smith Plc
Flexopack Soc. Anonyme Pl
Groupe Guillin S.A.
Huhtamäki Oyj
KARATZIS S.A.
Oeneo SA
Paperpack A.B.E.E.
PSB Industries
Reno De Medici S.p.A.
Resilux NV
Robinson plc
RPC Group Plc
Smurfit Kappa Group plc
TFF Group
Vidrala, S.A.
Zignago Vetro S.p.A.

GICS 151040

Acerinox, S.A.
Alchemia S.A.
Alcomet AD
AMAG Austria Metall AG
Anglo Asian Mining PLC
Antofagasta plc
Aurubis AG
Boliden AB
Boryszew S.A.
Central Asia Metals Plc
Coil S.A./N.V.
Drillcon AB
Euro Ressources S.A.
F. Ramada Investimentos,
Ferrexpo Plc
Fresnillo PLC
Grupa Kety S.A.
Highland Gold Mining Limi
Hill & Smith Holdings PLC
Iktinos Hellas S.A.
Impexmetal S.A.

Izostal Spółka Akcyjna
Le Bélier S.A.
NV Bekaert SA
Polska Grupa Odlewnicza S
ProfilGruppen AB
Rio Tinto plc
Stalprodukt S.A.
Tubacex, S.A.
Unior Kovaska industrija
Voestalpine AG
Zimplats Holdings Limited

GICS 151050

Altri, S.G.P.S., S.A.
Delignit AG
ENCE Energía y Celulosa,
Exacompta Clairefontaine
Fazerles AD
Iberpapel Gestión, S.A.
James Cropper plc
Metsä Board Oyj
Miquel y Costas & Miquel,
Mondi plc
Paged S.A.
Pfleiderer Group Spółka A
Przedsiębiorstwo Produkcy
Rottneros AB (publ)
The Navigator Company, S.
UPM-Kymmene Oyj

GICS 20

A.P. Møller - Mærsk A/S
AB Fagerhult
AB Panevezio Statybos Tre
AB Volvo (publ)
Abertis Infraestructuras,
ACS, Actividades de Const
ADA Société Anonyme
Aegean Airlines S.A.
Aéroports de Paris SA
ÂF AB (publ)
Aggreko plc
Agraria Group Holding JSC
Air Partner plc
Airbus SE
AKKA Technologies SE
Alfa Laval AB (publ)
Alstom SA
Amadeus FiRe AG
Andrews Sykes Group plc
Andritz AG
Ansaldo STS S.p.A.
AQ Group AB (publ)
ARCADIS NV
Arcam AB (publ)
Arkil Holding A/S
AS Merko Ehitus
AS Tallink Grupp
Ashtead Group plc
ASSA ABLOY AB (publ)
Assystem SA

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Astaldi S.p.A.	Constructions Industriell	General Commercial & Indu
ASTM S.p.A.	Costain Group plc	Gérard Perrier Industrie
Atlantia S.p.A.	Cpl Resources plc	Getlink
Atlas Copco AB	Cramo Oyj	GL Events
Augean plc	CTT Systems AB	Grafenia Plc
Aukett Swanke Group Plc	Danieli & C. Officine Mec	Grodno Spółka Akcyjna
Aurea SA	Dart Group plc	Groupe CRIT SA
Autostrade Meridionali S.	Dassault Aviation SA	Groupe Gorgé SA
Avia Solutions Group AB	Deceuninck NV	Groupe Pizzorno Environne
Babcock International Gro	Delta Plus Group	Grupa Kapitalowa
BAE Systems plc	Derichebourg	IMMOBILE
Batenburg Techniek N.V.	Deufol SE	Gunnebo AB
BAUER Aktiengesellschaft	Deutsche Lufthansa Aktien	Haldex AB (publ)
BBA Aviation plc	Deutsche Post AG	Hamburger Hafen und
Beijer Alma AB (publ)	DEUTZ Aktiengesellschaft	Logis
Beijer Ref AB (publ)	Dewhurst plc	Harvey Nash Group plc
Benefit Systems S.A.	DFDS A/S	Haulotte Group SA
Berendsen plc	DLSI	Hays plc
Bergman & Beving AB	DMG Mori Aktiengesellscha	Herkules S.A.
Berling S.A.	Dovre Group Plc	Hiolle Industries
Bertrandt Aktiengesellsch	DPA Group N.V.	HOCHTIEF
Best Union Company S.p.A.	DSV A/S	Aktiengesellscha
Biesse S.p.A.	Dürkopp Adler AG	HomeServe plc
Bilfinger SE	easyJet plc	Howden Joinery Group Plc
Bodycote plc	ECA SA	I.M.A. Industria Macchine
Bolloré	edding AG	ID Logistics Group SA
Bowim S.A.	Eiffage SA	IMI plc
Braemar Shipping Services	Elanders AB (publ)	Impel S.A.
Brd. Klee A/S	Elecnor, S.A.	INDUS Holding AG
Brenntag AG	Elecster Oyj	Indutrade AB (publ)
Brødrene A & O Johansen A	Elektrobudowa SA	Innotec TSS AG
Brunel International N.V.	Elektrotim S.A.	Instal Kraków S.A.
BTS Group AB (publ)	Elemental Holding S.A.	Installux SA
Budimex SA	Elhim-Iskra JSC	International Fibres Grou
Bumech S.A.	Eltrak S.A.	Interpump Group S.p.A.
Bunzl plc	Empresaria Group plc	Interquest Group PLC
Bureau Veritas SA	Eolus Vind AB	Interserve plc
BWT Aktiengesellschaft	Erbud S.A.	Intertek Group plc
Cargotec Corporation	ES-System Spółka Akcyjna	Int'l Consolidated Airlin
Carillion plc	Eurocon Consulting AB (pu	IRCE S.p.A.
Carr's Group plc	EUROKAI GmbH & Co.	Itab Shop Concept AB
Castings P.L.C.	KGaA	Jacquet Metal Service SA
Catering International &	Exel Composites Oyj	James Halstead plc
Cembre S.p.A.	Fabryka Obrabiarek	James Latham plc
CENTROTEC Sustainable	RAFAME	Jensen-Group NV
AG	Fabryki Sprzetu i Narzedz	Joh. Friedrich Behrens AG
Centrum Nowoczesnych	Famur S.A.	Johnson Service Group plc
Tech	Fenner PLC	Judges Scientific plc
Ceramika Nowa Gala SA	FERRO S.A.	Jungheinrich Aktiengesell
CEWE Stiftung & Co. KGaA	Ferrovial, S.A.	KAP Beteiligungs-AG
Chemring Group plc	Fidia S.p.A.	KDM Shipping Public Limit
Chimimport AD	Financière de l'Odet SA	Keller Group plc
Clasquin S.A.	Firstgroup plc	Kesla Oyj
Cohort PLC	FLSmith & Co. A/S	Kier Group plc
Colas SA	Flughafen Wien Aktiengese	Kingspan Group plc
Communis plc	FNM S.p.A.	Københavns Lufthavne A/S
Compagnie de Saint-	FRIWO AG	Koncar - Elektroindustrij
Gobain	FW Thorpe Plc	KONE Oyj
Compagnie d'Entreprises C	G4S plc	Konecranes Plc
Compagnie Industrielle Fi	Gama Aviation Plc	Krakchemia S.A.
Concentric AB (publ)	Gattaca plc	KROMI Logistik AG
Construcciones y Auxiliar	GEA Group Aktiengesellsch	Krones AG

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Krynicky Recykling Spólka	PayPoint plc	Skanska AB (publ)
KSB SE & Co. KGaA	PCC Intermodal S.A.	SMT Scharf AG
KUKA Aktiengesellschaft	Per Aarsleff Holding A/S	Società Iniziative Autost
Lammhults Design Group AB	Pfeiffer Vacuum Technolog	Sogclair SA
Lassila & Tikanoja Oyj	Picanol NV	Solar A/S
Legrand SA	Piraeus Port Authority S.	Somfy SA
Lena Lighting S.A.	PKC Group Oyj	Spirax-Sarco Engineering
Lindab International AB	PNE Wind AG	SRV Group Plc
Lisi S.A.	Polna Spólka Akcyjna	Staffline Group plc
Loomis AB (publ)	Ponsse Oyj	Stagecoach Group plc
LPA Group plc	Poolia AB (publ)	Stara Planina Hold Plc
Lubawa S.A.	Porvair plc	STEF S.A.
LUG S.A.	Poujoulat SA	SThree plc
Luka Koper d.d.	Precia SA	Strabag SE
M+S Hydraulic AD	Prima Industrie S.p.A.	Svedbergs i Dalstorp AB
MacFarlane Group plc	Prosegur Compañía de Segu	Svejsmaskinefabrikken Mi
Malmbergs Elektriska AB (MAN SE	Prysmian S.p.A.	Sweco AB (publ)
Mangata Holding S.A.	Przedsiębiorstwo Hydraul	Synergie SE
Manitou BF SA	QinetiQ Group Plc	Systemair AB (publ)
Maschinenfabrik Berthold	R. Stahl AG	Technotrans AG
Masterflex SE	Rába Járműipari Holding N	Teleperformance SE
MAX Automation SE	Rafako S.A.	Tesmec S.p.A.
Mears Group plc	Ramirent Oyj	Thales S.A.
Meggitt PLC	Randstad Holding NV	The Alumasc Group plc
Melrose Industries PLC	RATIONAL Aktiengesellscha	The Go-Ahead Group plc
Mercor SA	Raute Oyj	The Weir Group PLC
Metso Corporation	Rawlplug S.A.	Thermador Groupe Sociéte
Mevaco S.A.	Redde plc	Thessaloniki Port Authori
MIRBUD Spólka Akcyjna	Rejlers AB	Titon Holdings plc
Mitie Group plc	Relpol S.A.	Tivoly S.A.
MonBat AD	RELX PLC	TKH Group N.V.
Mota-Engil, SGPS, S.A.	Renew Holdings plc	Toscana Aeroporti S.p.A.
Moury Construct SA	Renold plc	Trace Group Hold PLC
Mpac Group plc	Rexel S.A.	Trakcja PRKil S.A.
MS Industrie AG	Ricardo plc	Travis Perkins plc
MS INTERNATIONAL plc	Robert Walters PLC	Trifast plc
MTU Aero Engines AG	Rolls-Royce Holdings plc	Turbon AG
Muehlhan AG	Rosenbauer International	Tyman plc
Müller - Die lila Logisti	Royal Boskalis Westminste	Ultra Electronics Holding
Murgitroyd Group plc	RPS Group plc	UNIBEP S.A.
National Express Group PL	RWS Holdings plc	Uniflex AB (publ)
Nederman Holding AB (publ)	Ryanair Holdings plc	URSUS Spólka Akcyjna
NKT A/S	S.C. Aerostar S.A.	Utilitywise Plc
Nordex SE	S.C. Mecanica Ceahlau S.A	Vestas Wind Systems A/S
Nordwest Handel AG	Saab AB (publ)	VINCI SA
NORMA Group SE	Safran SA	Vp plc
Northbridge Industrial Se	Saga Furs Oyj	VTG Aktiengesellschaft
Northgate plc	Salini Impregilo S.p.A.	Wacker Neuson SE
NSC Groupe SA	SAS AB (publ)	Wärtsilä Oyj Abp
NSE Industries SA	SAVE S.p.A.	Washtec AG
OEM International AB (pub	Scandbook Holding AB	WDX S.A.
OHB SE	Schneider Electric S.E.	Wielton S.A.
Oranjewoud N.V.	Science Group plc	WISE Group AB
Orzel Bialy S.A.	Seco/Warwick S.A.	Work Service S.A.
Österreichische Post AG	Severfield plc	WYG PLC
PageGroup plc	Siemens Gamesa Renewable	XANO Industri AB (publ)
Palfinger AG	Signaux Girod S.A.	XPO Logistics Europe SA
Panariagroup Industrie Ce	SinterCast AB (publ)	Zardoya Otis, S.A.
Patentus S.A.	SKAKO A/S	Zodiac Aerospace
		ZPUE S.A.
		ZUE S.A.

GICS 2010

AB Fagerhult	DMG Mori Aktiengesellscha	Krones AG
AB Panevezio Statybos Tre	Dürkopp Adler AG	KSB SE & Co. KGaA
AB Volvo (publ)	ECA SA	KUKA Aktiengesellschaft
ACS, Actividades de Const	Eiffage SA	Legrand SA
Agria Group Holding JSC	Elecnor, S.A.	Lena Lighting S.A.
Airbus SE	Elecster Oyj	Lindab International AB
Alfa Laval AB (publ)	Elektrobudowa SA	Lisi S.A.
Alstom SA	Elektrotim S.A.	LPA Group plc
Andrews Sykes Group plc	Elhim-Iskra JSC	Lubawa S.A.
Andritz AG	Eltrak S.A.	LUG S.A.
AQ Group AB (publ)	Eolus Vind AB	M+S Hydraulic AD
ARCADIS NV	Erbud S.A.	MacFarlane Group plc
Arcam AB (publ)	ES-System Spółka Akcyjna	Malmbergs Elektriska AB (
Arkil Holding A/S	Exel Composites Oyj	MAN SE
AS Merko Ehitus	Fabryka Obrabiarek	Mangata Holding S.A.
Ashtead Group plc	RAFAME	Manitou BF SA
ASSA ABLOY AB (publ)	Fabryki Sprzetu i Narzedz	Maschinenfabrik Berthold
Astaldi S.p.A.	Famur S.A.	Masterflex SE
Atlas Copco AB	Fenner PLC	MAX Automation SE
BAE Systems plc	FERRO S.A.	Meggitt PLC
Batenburg Techniek N.V.	Fidia S.p.A.	Mercor SA
BAUER Aktiengesellschaft	FRIWO AG	Metso Corporation
Beijer Alma AB (publ)	FW Thorpe Plc	Mevaco S.A.
Beijer Ref AB (publ)	GEA Group Aktiengesellsch	MIRBUD Spółka Akcyjna
Bergman & Beving AB	General Commercial & Indu	MonBat AD
Berling S.A.	Gérard Perrier Industrie	Mota-Engil, SGPS, S.A.
Biesse S.p.A.	Grodno Spółka Akcyjna	Moury Construct SA
Bodycote plc	Groupe Gorgé SA	Mpac Group plc
Bowim S.A.	Grupa Kapitalowa	MS Industrie AG
Brd. Klee A/S	IMMOBILE	MS INTERNATIONAL plc
Brenntag AG	Haldex AB (publ)	Nederman Holding AB
Brødrene A & O Johansen A	Haulotte Group SA	(publ)
Budimex SA	Herkules S.A.	NKT A/S
Bunzl plc	Hiolle Industries	Nordex SE
Cargotec Corporation	HOCHTIEF	Nordwest Handel AG
Carr's Group plc	Aktiengesellscha	NORMA Group SE
Castings P.L.C.	Howden Joinery Group Plc	Northbridge Industrial Se
Cembre S.p.A.	I.M.A. Industria Macchine	NSC Groupe SA
CENTROTEC Sustainable	IMI plc	NSE Industries SA
AG	INDUS Holding AG	OEM International AB (pub
Centrum Nowoczesnych	Indutrade AB (publ)	OHB SE
Tech	Innotec TSS AG	Oranjewoud N.V.
Ceramika Nowa Gala SA	Instal Kraków S.A.	Palfinger AG
Chemring Group plc	Installux SA	Panariagroup Industrie Ce
Chimimport AD	International Fibres Grou	Patentus S.A.
Colas SA	Interpump Group S.p.A.	Per Aarsleff Holding A/S
Compagnie de Saint-	IRCE S.p.A.	Pfeiffer Vacuum Technolog
Gobain	Jacquet Metal Service SA	Picanol NV
Compagnie d'Entreprises C	James Halstead plc	PKC Group Oyj
Compagnie Industrielle Fi	James Latham plc	PNE Wind AG
Concentric AB (publ)	Jensen-Group NV	Polna Spółka Akcyjna
Construcciones y Auxiliar	Joh. Friedrich Behrens AG	Ponsse Oyj
Costain Group plc	Judges Scientific plc	Porvair plc
Cramo Oyj	Jungheinrich Aktiengesell	Poujoulat SA
CTT Systems AB	KAP Beteiligungs-AG	Precia SA
Danieli & C. Officine Mec	Keller Group plc	Prima Industrie S.p.A.
Dassault Aviation SA	Kesla Oyj	Prysmian S.p.A.
Deceuninck NV	Kingspan Group plc	Przedsiębiorstwo Hydraulii
DEUTZ Aktiengesellschaft	Koncar - Elektroindustrij	QinetiQ Group Plc
Dewhurst plc	KONE Oyj	R. Stahl AG
	Krakchemia S.A.	Rába Järmûipari Holding N
	KROMI Logistik AG	

Rafako S.A.
 Ramirent Oyj
 RATIONAL
 Aktiengesellscha
 Raute Oyj
 Rawlplug S.A.
 Relpol S.A.
 Renew Holdings plc
 Renold plc
 Rexel S.A.
 Rolls-Royce Holdings plc
 Rosenbauer International
 Royal Boskalis Westminste
 S.C. Aerostar S.A.
 S.C. Mecanica Ceahlau S.A
 Saab AB (publ)
 Safran SA
 Salini Impregilo S.p.A.
 Seco/Warwick S.A.
 Severfield plc
 Siemens Gamesa
 Renewable
 SinterCast AB (publ)
 SKAKO A/S
 Skanska AB (publ)
 SMT Scharf AG
 Sogclair SA
 Solar A/S
 Somfy SA
 Spirax-Sarco Engineering
 SRV Group Plc
 Stara Planina Hold Plc
 Strabag SE
 Svedbergs i Dalstorp AB
 Svejsmaskinefabrikken Mi
 Sweco AB (publ)
 Systemair AB (publ)
 Tesmec S.p.A.
 Thales S.A.
 The Alumasc Group plc
 The Weir Group PLC
 Thermador Groupe Soci  t  
 Titon Holdings plc
 Tivoly S.A.
 TKH Group N.V.
 Trace Group Hold PLC
 Trakcja PRKiil S.A.
 Travis Perkins plc
 Trifast plc
 Tyman plc
 Ultra Electronics Holding
 UNIBEP S.A.
 URSUS Sp  lka Akcyjna
 Vestas Wind Systems A/S
 VINCI SA
 Vp plc
 Wacker Neuson SE
 W  rtsil   Oyj Abp
 Washtec AG
 WDX S.A.
 Wielton S.A.
 WYG PLC

XANO Industri AB (publ)
 Zardoya Otis, S.A.
 Zodiac Aerospace
 ZPUE S.A.
 ZUE S.A.

GICS 201010

Airbus SE
 BAE Systems plc
 Chemring Group plc
 CTT Systems AB
 Dassault Aviation SA
 ECA SA
 Lisi S.A.
 Lubawa S.A.
 Meggitt PLC
 NSE Industries SA
 OHB SE
 QinetiQ Group Plc
 S.C. Aerostar S.A.
 Saab AB (publ)
 Safran SA
 Sogclair SA
 Thales S.A.
 Ultra Electronics Holding
 Zodiac Aerospace

GICS 201020

ASSA ABLOY AB (publ)
 CENTROTEC Sustainable
 AG
 Ceramika Nowa Gala SA
 Deceuninck NV
 FERRO S.A.
 Innotec TSS AG
 Installux SA
 James Halstead plc
 Joh. Friedrich Behrens AG
 Kingspan Group plc
 Lindab International AB
 Mercor SA
 Nederman Holding AB
 (publ)
 Panariagroup Industrie Ce
 Poujoulat SA
 Svedbergs i Dalstorp AB
 Systemair AB (publ)
 The Alumasc Group plc
 Titon Holdings plc
 Tyman plc

GICS 201030

AB Panevezio Statybos Tre
 ACS, Actividades de Const
 ARCADIS NV
 Arkil Holding A/S
 AS Merko Ehitus
 Astaldi S.p.A.
 Budimex SA
 Centrum Nowoczesnych
 Tech
 Colas SA

Compagnie d'Entreprises C
 Compagnie Industrielle Fi
 Costain Group plc
 Eiffage SA
 Elecnor, S.A.
 Eolus Vind AB
 Erbud S.A.
 HOCHTIEF
 Aktiengesellscha
 Instal Krak  w S.A.
 Keller Group plc
 MIRBUD Sp  lka Akcyjna
 Mota-Engil, SGPS, S.A.
 Moury Construct SA
 Oranjewoud N.V.
 Per Aarsleff Holding A/S
 Renew Holdings plc
 Royal Boskalis Westminste
 Salini Impregilo S.p.A.
 Severfield plc
 Skanska AB (publ)
 SRV Group Plc
 Strabag SE
 Sweco AB (publ)
 Trace Group Hold PLC
 Trakcja PRKiil S.A.
 UNIBEP S.A.
 VINCI SA
 WYG PLC
 ZUE S.A.

GICS 201040

AB Fagerhult
 AQ Group AB (publ)
 Cembre S.p.A.
 Dewhurst plc
 Elektrotim S.A.
 Elhim-Iskra JSC
 FRIWO AG
 FW Thorpe Plc
 G  rard Perrier Industrie
 IRCE S.p.A.
 Koncar - Elektroindustrij
 Legrand SA
 Lena Lighting S.A.
 LPA Group plc
 LUG S.A.
 MonBat AD
 NKT A/S
 Nordex SE
 PKC Group Oyj
 PNE Wind AG
 Relpol S.A.
 Siemens Gamesa
 Renewable
 Somfy SA
 Vestas Wind Systems A/S
 ZPUE S.A.

GICS 201050

Agria Group Holding JSC
 Carr's Group plc

Chimimport AD
Grupa Kapitalowa
IMMOBILE
INDUS Holding AG
KAP Beteiligungs-AG

Pfeiffer Vacuum Technolog
Picanol NV
Polna Spólka Akcyjna
Ponsse Oyj
Porvair plc
Precia SA
Prima Industrie S.p.A.
Przedsiębiorstwo Hydraul
R. Stahl AG
Rába Jár múipari Holding N
Rafako S.A.
RATIONAL
Aktiengesellscha
Raute Oyj
Rawlplug S.A.
Renold plc
Rosenbauer International
S.C. Mecanica Ceahlau S.A.
Seco/Warwick S.A.
SinterCast AB (publ)
SKAKO A/S
SMT Scharf AG
Spirax-Sarco Engineering
Stara Planina Hold Plc
Svejsmaskinefabrikken Mi
Tesmec S.p.A.
The Weir Group PLC
Tivoly S.A.
Trifast plc
URSUS Spólka Akcyjna
Wacker Neuson SE
Wärtsilä Oyj Abp
Washtec AG
Wielton S.A.
XANO Industri AB (publ)
Zardoya Otis, S.A.

Nordwest Handel AG
OEM International AB (pub
Ramirent Oyj
Rexel S.A.
Thermador Groupe Société
Travis Perkins plc
Vp plc

GICS 201060

AB Volvo (publ)
Alfa Laval AB (publ)
Alstom SA
Arcam AB (publ)
Atlas Copco AB
Biesse S.p.A.
Cargotec Corporation
Castings P.L.C.
Concentric AB (publ)
Construcciones y Auxiliar
Danieli & C. Officine Mec
DEUTZ Aktiengesellschaft
DMG Mori Aktiengesellscha
Dürkopp Adler AG
Elecster Oyj
Exel Composites Oyj
Fabryka Obrabiarek
RAFAME
Fabryki Sprzetu i Narzedz
Famur S.A.
Fenner PLC
Fidia S.p.A.
GEA Group Aktiengesellsch
Groupe Gorgé SA
Haldex AB (publ)
Haulotte Group SA
Hiolle Industries
I.M.A. Industria Macchine
IMI plc
International Fibres Grou
Interpump Group S.p.A.
Jensen-Group NV
Judges Scientific plc
Jungheinrich Aktiengesell
Kesla Oyj
KONE Oyj
Krones AG
KSB SE & Co. KGaA
KUKA Aktiengesellschaft
M+S Hydraulic AD
MAN SE
Mangata Holding S.A.
Manitou BF SA
Maschinenfabrik Berthold
Masterflex SE
MAX Automation SE
Metso Corporation
Mevaco S.A.
Mpac Group plc
MS Industrie AG
NORMA Group SE
Northbridge Industrial Se
NSC Groupe SA
Palfinger AG
Patentus S.A.

GICS 2020

ÅF AB (publ)
AKKA Technologies SE
Amadeus FiRe AG
Assystem SA
Augean plc
Aukett Swanke Group Plc
Aurea SA
Benefit Systems S.A.
Berendsen plc
Bertrandt Aktiengesellsch
Best Union Company S.p.A.
Bilfinger SE
Brunel International N.V.
BTS Group AB (publ)
Bumech S.A.
Bureau Veritas SA
BWT Aktiengesellschaft
Catering International &
CEWE Stiftung & Co. KGaA
Communis plc
Constructions Industriell
Cpl Resources plc
Delta Plus Group
Derichebourg
DLSI
Dovre Group Plc
DPA Group N.V.
edding AG
Elanders AB (publ)
Elemental Holding S.A.
Empresaria Group plc
Eurocon Consulting AB (pu
G4S plc
Gattaca plc
GL Events
Grafenia Plc
Groupe CRIT SA
Groupe Pizzorno Environne
Gunnebo AB
Harvey Nash Group plc
Hays plc
HomeServe plc
Impel S.A.
Interquest Group PLC
Intertek Group plc
Itab Shop Concept AB
Johnson Service Group plc
Krynicky Recykling Spólka
Lammhults Design Group
AB
Lassila & Tikanoja Oyj
Loomis AB (publ)

GICS 201070

Andrews Sykes Group plc
Ashtead Group plc
Beijer Ref AB (publ)
Bergman & Beving AB
Berling S.A.
Bowim S.A.
Brd. Klee A/S
Brenntag AG
Brødrene A & O Johansen A
Bunzl plc
Cramo Oyj
Eltrak S.A.
General Commercial & Indu
Grodno Spólka Akcyjna
Herkules S.A.
Howden Joinery Group Plc
Indutrade AB (publ)
Jacquet Metal Service SA
James Latham plc
Krakchemia S.A.
KROMI Logistik AG
MacFarlane Group plc
Malmbergs Elektriska AB (

Mears Group plc
Murgitroyd Group plc
Orzel Bialy S.A.
PageGroup plc
PayPoint plc
Poolia AB (publ)
Prosegur Compañía de Seguros
Randstad Holding NV
Rejlers AB
RELX PLC
Ricardo plc
Robert Walters PLC
RPS Group plc
RWS Holdings plc
Saga Furs Oyj
Scandbook Holding AB
Science Group plc
Staffline Group plc
SThree plc
Synergie SE
Teleperformance SE
Turbon AG
Uniflex AB (publ)
Utilitywise Plc
WISE Group AB
Work Service S.A.

Prosegur Compañía de Seguros
RPS Group plc
Saga Furs Oyj
Scandbook Holding AB
Turbon AG

Avia Solutions Group AB
BBA Aviation plc
Bollore
Braemar Shipping Services
Clasquin S.A.
Dart Group plc
Deufol SE
Deutsche Post AG
DFDS A/S
DSV A/S
easyJet plc
EUROKAI GmbH & Co. KGaA
Financière de l'Odette SA
Firstgroup plc
Flughafen Wien Aktiengesellschaft
FNM S.p.A.
Gama Aviation Plc
Getlink
Hamburger Hafen und Logistik AG
ID Logistics Group SA
Int'l Consolidated Airlines
KDM Shipping Public Limited
Københavns Lufthavn A/S
Luka Koper d.d.
Müller - Die lila Logisti
National Express Group PLC
Northgate plc
Österreichische Post AG
PCC Intermodal S.A.
Piraeus Port Authority S.A.
Redde plc
Ryanair Holdings plc
SAS AB (publ)
SAVE S.p.A.
Signaux Girard S.A.
Società Iniziative Autostad
Stagecoach Group plc
STEF S.A.
The Go-Ahead Group plc
Thessaloniki Port Authority
Toscana Aeroporti S.p.A.
VTG Aktiengesellschaft
XPO Logistics Europe SA

GICS 202020

ÅF AB (publ)
AKKA Technologies SE
Amadeus FiRe AG
Assystem SA
Aukett Swanke Group Plc
Benefit Systems S.A.
Bertrandt Aktiengesellschaft
Brunel International N.V.
BTS Group AB (publ)
Bureau Veritas SA
Cpl Resources plc
DLSI
Dovre Group Plc
DPA Group N.V.
Empresaria Group plc
Eurocon Consulting AB (publ)
Gattaca plc
Groupe CRIT SA
Harvey Nash Group plc
Hays plc
Interquest Group PLC
Intertek Group plc
Murgitroyd Group plc
PageGroup plc
Poolia AB (publ)
Randstad Holding NV
Rejlers AB
RELX PLC
Ricardo plc
Robert Walters PLC
RWS Holdings plc
Science Group plc
Staffline Group plc
SThree plc
Synergie SE
Teleperformance SE
Uniflex AB (publ)
Utilitywise Plc
WISE Group AB
Work Service S.A.

GICS 202010

Augean plc
Aurea SA
Berendsen plc
Best Union Company S.p.A.
Bilfinger SE
Bumeh S.A.
BWT Aktiengesellschaft
Catering International & CEWE Stiftung & Co. KGaA
Communis plc
Constructions Industrielle
Delta Plus Group
Derichebourg
edding AG
Elanders AB (publ)
Elemental Holding S.A.
G4S plc
GL Events
Grafiere Plc
Groupe Pizzorno Environnementale
Gunnebo AB
HomeServe plc
Impel S.A.
Itab Shop Concept AB
Johnson Service Group plc
Krynicky Recykling Spółka
Lammhults Design Group AB
Lassila & Tikanoja Oyj
Loomis AB (publ)
Mears Group plc
Orzel Bialy S.A.
PayPoint plc

GICS 2030

A.P. Møller - Mærsk A/S
Abertis Infraestructuras, S.A.
ADA Société Anonyme
Aegean Airlines S.A.
Aéroports de Paris SA
Air Partner plc
Ansaldo STS S.p.A.
AS Tallink Grupp
ASTM S.p.A.
Atlantia S.p.A.
Autostrade Meridionali S.p.A.

GICS 203010

Bollore
Clasquin S.A.
Deufol SE
Deutsche Post AG
Financière de l'Odette SA
ID Logistics Group SA
Müller - Die lila Logisti
Österreichische Post AG
XPO Logistics Europe SA

GICS 203020

Aegean Airlines S.A.
Air Partner plc
Dart Group plc
easyJet plc

Gama Aviation Plc
Int'l Consolidated Airlin
Ryanair Holdings plc
SAS AB (publ)

Amer Sports Corporation
Amica S.A.
AmRest Holdings SE
APB Apranga
Artprice.com
AS Company S.A.
AS Silvano Fashion Group
AST Groupe
Atresmedia Corporación de
Autogrill S.p.A.
Axel Springer SE
B&C Speakers S.p.A.
B.V. Delftsch Aardewerkfa
Barratt Developments plc
BasicNet S.p.A.
Bayerische Motoren Werke
Bellway p.l.c.
Bénéteau S.A.

KGaA
Cyfrowy Polsat S.A.
Daimler AG
Damartex
Debenhams plc
Decora S.A.
Delfingen Industry S.A.
Delko S.A.
De'Longhi S.p.A.
Delticom AG
Dierig Holding AG
D'leteren SA
DO & CO Aktiengesellschaft
Domino's Pizza Group plc
Dunelm Group plc
Duni AB (publ)
egetæpper a/s
Ei Group plc
Einhell Germany AG
Electra Gruppen AB
Elica S.p.A.
ElringKlinger AG
Emak S.p.A.
ESOTIQ & Henderson S.A.
Eutelsat Communications
S

GICS 203040

ADA Société Anonyme
Firstgroup plc
FNM S.p.A.
National Express Group PL
Northgate plc
PCC Intermodal S.A.
Redde plc
Stagecoach Group plc
STEF S.A.
The Go-Ahead Group plc
VTG Aktiengesellschaft

Bet-At-Home.com AG
Beter Bed Holding N.V.
Betsson AB
BHS tabletop AG
Bialetti Industrie S.p.A
BigBen Interactive
Bijou Brigitte modische A
Bilia AB
Björn Borg AB (publ)
Bloomsbury Publishing plc
Borussia Dortmund GmbH
&
Bourellier Group SA
Bovis Homes Group PLC
Brembo S.p.A.
Brijju S.A.
BRUNELLO CUCINELLI
S.p.A.
Bulten AB (publ)
Burberry Group plc
Burelle SA
Byggmax Group AB (publ)
Bytom S.A.
Caffyns plc
Cairo Communication S.p.A
Cambria Automobiles plc
Carpetright plc
CCC S.A.
Ceconomy AG
Cherry AB (publ)
Churchill China plc
CIE Automotive, S.A.
Cineworld Group plc
Clas Ohlson AB (publ)
Cofina, SGPS, S.A.
Compagnie Du Mont-Blanc
Compagnie Générale Établi
Compagnie Plastic
Omnium
Compass Group PLC
Constantin Medien AG
Continental Aktiengesells
CSP International Fashion
CTS Eventim AG & Co.

F.G. Europe S.A.
Fabryki Mebli Forte Spółk
Faurecia S.A.
Fiat Chrysler Automobiles
Fielmann AG
Fiskars Oyj Abp
Folli-Follie Commercial M
Fortuna Entertainment Gro
Funespaña, S.A.
Gabriel Holding A/S
Games Workshop Group
PLC
Gaumont SA
GEDI Gruppo Editoriale S.
Genting Singapore PLC
Geox S.p.A.
Gerry Weber International
Goals Soccer Centres plc
GORENJE, d.d.
Graines Voltz
Grammer
Aktiengesellschaft
Greek Organization of Foo
Greene King plc
Greggs plc
Groupe LDLC
H & M Hennes & Mauritz
AB
Halfords Group plc
Havas SA
Headlam Group plc
Hermès International Soci
High Co. SA
HomeMaid AB (publ)
Hopscotch Global PR
Group
Hornbach Baumarkt AG

GICS 203050

Abertis Infraestructuras,
Aéroports de Paris SA
Ansaldo STS S.p.A.
ASTM S.p.A.
Atlantia S.p.A.
Autostrade Meridionali S.
Avia Solutions Group AB
BBA Aviation plc
Braemar Shipping Services
EUROKAI GmbH & Co.
KGaA
Flughafen Wien Aktiengese
Getlink
Hamburger Hafen und
Logis
Københavns Lufthavne A/S
Luka Koper d.d.
Piraeus Port Authority S.
SAVE S.p.A.
Signaux Giroud S.A.
Società Iniziative Autost
Thessaloniki Port Authori
Toscana Aeroporti S.p.A.

GICS 25

4fun Media SA
4imprint Group plc
A.S. Création Tapeten AG
AB Electrolux (publ)
AB Snaige
Abbey plc
Accell Group N.V.
Accor SA
AD Plastik d.d.
Adidas AG
Adler Modemärkte AG
ADLPartner
Adriatic Croatia Internat
Agora S.A.
Ahlers AG
AIK Fotboll AB
AIREA plc
Albena AD

2017 Valuation Handbook – International Industry Cost of Capital (data through September 30, 2017); Company and GICS List

House of Friends AB (publ)	Millennium & Copthorne Ho	Sabaf S.p.A.
Hugo Boss AG	Mitchells & Butlers plc	Saf-Holland S.A.
HUP-Zagreb d.d.	MJ Gleeson plc	Salvatore Ferragamo S.p.A
Husqvarna AB (publ)	Modern Times Group Mtg	Samse SA
Ibersol, S.G.P.S., S.A.	AB	Samsonite International S
IC Group A/S	Mondo TV S.p.A.	SEB SA
IFA Hotel & Touristik Akt	Monnari Trade S.A.	SES S.A.
IG Design Group Plc	Moss Bros Group plc	SHW AG
IMS S.A.	MQ Holding AB	Silkeborg IF Invest A/S
Inchcape plc	Mulberry Group plc	SinnerSchrader Aktiengesese
Industria de Diseño Texti	Muza S.A.	Sioen Industries NV
Infas Holding Aktiengesel	N Brown Group plc	SkiStar AB (publ)
Informa plc	Netmedia Spólka Akcyjna	Sky plc
Inter Cars S.A.	New Wave Group AB (publ)	SnowWorld N.V.
INTERFERIE Spólka	Next Fifteen Communicatio	Société Française de Casi
Akcyjna	Next Plc	Sogefi S.p.A.
Ipsos SA	Nobia AB (publ)	Solar Company S.A.
ITE Group plc	Nokian Renkaat Oyj	Splendid Medien AG
ITV plc	NOS, S.G.P.S., S.A.	Sportech PLC
J D Wetherspoon plc	Novita S.A.	Sports Direct Internation
JCDecaux SA	NRJ Group SA	Sprue Aegis PLC
JD Sports Fashion plc	Ocado Group plc	Stern Groep N.V.
JM AB (publ)	Odd Molly International A	Ströer SE & Co. KGaA
Jumbo S.A.	Olympic Entertainment Gro	Superdry Plc
KABE AB (publ.)	Oponeo.pl S.A.	Swedol AB
KappAhl AB (publ)	Orbis Spólka Akcyjna	System1 Group PLC
Kaufman & Broad S.A.	Orchestra-Prémaman S.A.	Syzygy AG
Kering SA	Paddy Power Betfair plc	TAKKT AG
Keskisuomalainen Oyj	Pandora A/S	Tasty plc
Kingfisher plc	Paragon AG	Taylor Wimpey plc
Kino Polska TV Spolka Akc	Passat Société Anonyme	Ted Baker PLC
Klassik Radio AG	Pegas Nonwovens S.A.	Telegraaf Media Groep N.V
Komputronik S.A.	Pendragon PLC	Télévision Française 1 SA
Koninklijke Brill NV	Persimmon plc	The Berkeley Group Holdin
KTM Industries AG	Petrol d.d.	The Character Group plc
Ladbrokes Coral Group plc	pferdewetten.de AG	The Restaurant Group plc
Lagardère SCA	Photo-Me International pl	The Vitec Group plc
Leifheit Aktiengesellscha	Piaggio & C. SpA	Tivoli A/S
LIBURNIA RIVIERA HOTELI	Piquadro S.p.A.	TOD'S S.p.A.
d	Piscines Desjoyaux SA	TOYA Spólka Akcyjna
Lingotes Especiales, S.A.	Plaisio Computers S.A.	Trigano S.A.
Linz Textil Holding Aktie	Plava laguna d.d.	Trinity Mirror plc
L'Occitane International	PMPG Polskie Media SA	TUI AG
Lookers plc	Pohjois-Karjalan Kirjapai	Turisthotel d.d.
LPP Spolka Akcyjna	Polytec Holding AG	U10 SA
LUDWIG BECK am	Portmeirion Group plc	Unlimited Travel Group UT
Rathauseck	Prada S.p.A	Valeo SA
Luxottica Group S.p.A.	Procad Spólka Akcyjna	Van De Velde NV
M&C Saatchi plc	Progress Werk Oberkirch A	Vertu Motors plc
Maisons France Confort S.	Protektor S.A.	Victoria plc
Makheia Group Société Ano	Publicis Groupe S.A.	Viking Line ABP
Manutan International SA	PUMA SE	Vistula Group Spólka Akcy
Marimekko Oyj	Rainbow Tours Spolka	Vivendi SA
Media 6 SA	Akcy	Walker Greenbank plc
MEDIACAP SA	Rapala VMC Corporation	WH Smith PLC
Mediaset España	Ratti S.p.A.	Whitbread PLC
Comunicac	Redrow plc	William Hill plc
Mekonomen AB	Renault SA	Wojas S.A.
Meliá Hotels Internationa	Renk Aktiengesellschaft	Xilam Animation
Métropole Télévision S.A.	Rezidor Hotel Group AB (p	YOOX Net-A-Porter Group
Mex Polska Spólka Akcyjna	Roularta Media Group NV	S
MGI Coutier SA	RTL Group SA	

YouGov plc
 Young & Co.'s Brewery, P.
 Zapf Creation AG
 ZEAL Network SE
 zooplus AG

SHW AG
 Sogefi S.p.A.
 Valeo SA

IC Group A/S
 IG Design Group Plc
 JM AB (publ)
 KABE AB (publ.)
 Kaufman & Broad S.A.
 Leifheit Aktiengesellscha
 Linz Textil Holding Aktie
 LPP Spolka Akcyjna
 Luxottica Group S.p.A.
 Maisons France Confort S.
 Marimekko Oyj
 MJ Gleeson plc
 Monnari Trade S.A.
 Mulberry Group plc
 Nobia AB (publ)
 Novita S.A.
 Odd Molly International A
 Orchestra-Prémaman S.A.
 Pandora A/S
 Pegas Nonwovens S.A.
 Persimmon plc
 Photo-Me International pl
 Piquadro S.p.A.
 Piscines Desjoyaux SA
 Portmeirion Group plc
 Prada S.p.A
 Protektor S.A.
 PUMA SE
 Ratti S.p.A.
 Redrow plc
 Sabaf S.p.A.
 Salvatore Ferragamo S.p.A
 Samsonite International S
 SEB SA
 Sioen Industries NV
 Solar Company S.A.
 Sprue Aegis PLC
 Taylor Wimpey plc
 Ted Baker PLC
 The Berkeley Group Holdin
 The Character Group plc
 TOD'S S.p.A.
 TOYA Spólka Akcyjna
 Trigano S.A.
 Van De Velde NV
 Victoria plc
 Vistula Group Spólka Akcy
 Walker Greenbank plc
 Wojas S.A.
 Zapf Creation AG

GICS 2510

AD Plastik d.d.
 Bayerische Motoren Werke
 Brembo S.p.A.
 Bulten AB (publ)
 Burelle SA
 CIE Automotive, S.A.
 Compagnie Générale Établi
 Compagnie Plastic
 Omnium
 Continental Aktiengesells
 Daimler AG
 Delfingen Industry S.A.
 ElringKlinger AG
 Faurecia S.A.
 Fiat Chrysler Automobiles
 Grammer
 Aktiengesellschaf
 KTM Industries AG
 Lingotes Especiales, S.A.
 MGI Coutier SA
 Nokian Renkaat Oyj
 Paragon AG
 Piaggio & C. SpA
 Polytec Holding AG
 Progress Werk Oberkirch A
 Renault SA
 Renk Aktiengesellschaft
 Saf-Holland S.A.
 SHW AG
 Sogefi S.p.A.
 Valeo SA

GICS 251020

Bayerische Motoren Werke
 Daimler AG
 Fiat Chrysler Automobiles
 KTM Industries AG
 Piaggio & C. SpA
 Renault SA

GICS 2520

A.S. Création Tapeten AG
 AB Electrolux (publ)
 AB Snaige
 Abbey plc
 Accell Group N.V.
 Adidas AG
 Ahlers AG
 AIREA plc
 Amer Sports Corporation
 Amica S.A.
 AS Company S.A.
 AST Groupe
 B&C Speakers S.p.A.
 B.V. Delftsch Aardewerkfa
 Barratt Developments plc
 Bellway p.l.c.
 Bénétteau S.A.
 BHS tabletop AG
 Bialetti Industrie S.p.A
 Bijou Brigitte modische A
 Bovis Homes Group PLC
 Briju S.A.
 BRUNELLO CUCINELLI
 S.p.A.
 Burberry Group plc
 Bytom S.A.
 CCC S.A.
 Churchill China plc
 CSP International Fashion
 Damartex
 Decora S.A.
 De'Longhi S.p.A.
 Dierig Holding AG
 Duni AB (publ)
 egetæpper a/s
 Einhell Germany AG
 Elica S.p.A.
 Emak S.p.A.
 ESOTIQ & Henderson S.A.
 Fabryki Mebli Forte Spólk
 Fiskars Oyj Abp
 Gabriel Holding A/S
 Games Workshop Group
 PLC
 Geox S.p.A.
 GORENJE, d.d.
 Hermès International Soci
 Hugo Boss AG
 Husqvarna AB (publ)

GICS 252010

A.S. Création Tapeten AG
 AB Electrolux (publ)
 AB Snaige
 Abbey plc
 AIREA plc
 Amica S.A.
 AST Groupe
 B&C Speakers S.p.A.
 B.V. Delftsch Aardewerkfa

GICS 251010

AD Plastik d.d.
 Brembo S.p.A.
 Bulten AB (publ)
 Burelle SA
 CIE Automotive, S.A.
 Compagnie Générale Établi
 Compagnie Plastic
 Omnium
 Continental Aktiengesells
 Delfingen Industry S.A.
 ElringKlinger AG
 Faurecia S.A.
 Grammer
 Aktiengesellschaf
 Lingotes Especiales, S.A.
 MGI Coutier SA
 Nokian Renkaat Oyj
 Paragon AG
 Polytec Holding AG
 Progress Werk Oberkirch A
 Renk Aktiengesellschaft
 Saf-Holland S.A.

Barratt Developments plc
 Bellway p.l.c.
 BHS tabletop AG
 Bialetti Industrie S.p.A
 Bovis Homes Group PLC
 Churchill China plc
 Decora S.A.
 De'Longhi S.p.A.
 Duni AB (publ)
 egetæpper a/s
 Einhell Germany AG
 Elica S.p.A.
 Emak S.p.A.
 Fabryki Mebli Forte Spółka
 Fiskars Oyj Abp
 GORENJE, d.d.
 Husqvarna AB (publ)
 IG Design Group Plc
 JM AB (publ)
 Kaufman & Broad S.A.
 Leifheit Aktiengesellschaft
 Maisons France Confort S.
 MJ Gleeson plc
 Nobia AB (publ)
 Persimmon plc
 Portmeirion Group plc
 Redrow plc
 Sabaf S.p.A.
 SEB SA
 Sprue Aegis PLC
 Taylor Wimpey plc
 The Berkeley Group Holdin
 TOYA Spółka Akcyjna
 Victoria plc
 Walker Greenbank plc

GICS 252020

Accell Group N.V.
 AS Company S.A.
 Bénétteau S.A.
 KABE AB (publ.)
 Photo-Me International pl
 Piscines Desjoyaux SA
 The Character Group plc
 Trigano S.A.
 Zapf Creation AG

GICS 252030

Adidas AG
 Ahlers AG
 Bijou Brigitte modische A
 Brijju S.A.
 BRUNELLO CUCINELLI
 S.p.A.
 Burberry Group plc
 Bytom S.A.
 CSP International Fashion
 Damartex
 Dierig Holding AG
 ESOTIQ & Henderson S.A.
 Gabriel Holding A/S

Geox S.p.A.
 Hermès International Soci
 Hugo Boss AG
 IC Group A/S
 Linz Textil Holding Aktie
 LPP Spolka Akcyjna
 Luxottica Group S.p.A.
 Marimekko Oyj
 Monnari Trade S.A.
 Mulberry Group plc
 Novita S.A.
 Orchestra-Prémaman S.A.
 Pandora A/S
 Pegas Nonwovens S.A.
 Piquadro S.p.A.
 Prada S.p.A
 Protektor S.A.
 PUMA SE
 Ratti S.p.A.
 Salvatore Ferragamo S.p.A
 Samsonite International S
 Sioen Industries NV
 Solar Company S.A.
 Ted Baker PLC
 TOD'S S.p.A.
 Van De Velde NV
 Vistula Group Spółka Akcy
 Wojas S.A.

GICS 2530

Accor SA
 Adriatic Croatia Internat
 Albena AD
 AmRest Holdings SE
 Autogrill S.p.A.
 Bet-At-Home.com AG
 Betsson AB
 Cherry AB (publ)
 Compagnie Du Mont-Blanc
 Compass Group PLC
 DO & CO Aktiengesellschaft
 Domino's Pizza Group plc
 Ei Group plc
 Fortuna Entertainment Gro
 Funespaña, S.A.
 Genting Singapore PLC
 Goals Soccer Centres plc
 Greek Organization of Foo
 Greene King plc
 Greggs plc
 HomeMaid AB (publ)
 HUP-Zagreb d.d.
 Ibersol, S.G.P.S., S.A.
 IFA Hotel & Touristik Akt
 INTERFERIE Spółka
 Akcyjna
 J D Wetherspoon plc
 Ladbrokes Coral Group plc
 LIBURNIA RIVIERA HOTELI
 d
 Meliá Hotels Internationa
 Mex Polska Spółka Akcyjna

Millennium & Copthorne Ho
 Mitchells & Butlers plc
 Olympic Entertainment Gro
 Orbis Spółka Akcyjna
 Paddy Power Betfair plc
 pferdewetten.de AG
 Plava laguna d.d.
 Rainbow Tours Spolka
 Akcy
 Rezidor Hotel Group AB (p
 SkiStar AB (publ)
 SnowWorld N.V.
 Société Française de Casi
 Tasty plc
 The Restaurant Group plc
 Tivoli A/S
 TUI AG
 Turisthotel d.d.
 Unlimited Travel Group UT
 Viking Line ABP
 Whitbread PLC
 William Hill plc
 Young & Co.'s Brewery, P.
 ZEAL Network SE

GICS 253010

Accor SA
 Adriatic Croatia Internat
 Albena AD
 AmRest Holdings SE
 Autogrill S.p.A.
 Bet-At-Home.com AG
 Betsson AB
 Cherry AB (publ)
 Compagnie Du Mont-Blanc
 Compass Group PLC
 DO & CO Aktiengesellschaft
 Domino's Pizza Group plc
 Ei Group plc
 Fortuna Entertainment Gro
 Genting Singapore PLC
 Goals Soccer Centres plc
 Greek Organization of Foo
 Greene King plc
 Greggs plc
 HUP-Zagreb d.d.
 Ibersol, S.G.P.S., S.A.
 IFA Hotel & Touristik Akt
 INTERFERIE Spółka
 Akcyjna
 J D Wetherspoon plc
 Ladbrokes Coral Group plc
 LIBURNIA RIVIERA HOTELI
 d
 Meliá Hotels Internationa
 Mex Polska Spółka Akcyjna
 Millennium & Copthorne Ho
 Mitchells & Butlers plc
 Olympic Entertainment Gro
 Orbis Spółka Akcyjna
 Paddy Power Betfair plc
 pferdewetten.de AG

Plava laguna d.d.
Rainbow Tours Spolka Akcy
Rezidor Hotel Group AB (p
SkiStar AB (publ)
SnowWorld N.V.
Société Française de Casi
Tasty plc
The Restaurant Group plc
Tivoli A/S
TUI AG
Turisthotel d.d.
Unlimited Travel Group UT
Viking Line ABP
Whitbread PLC
William Hill plc
Young & Co.'s Brewery, P.
ZEAL Network SE

Modern Times Group Mtg
AB
Mondo TV S.p.A.
Muza S.A.
Next Fifteen Communicatio
NOS, S.G.P.S., S.A.
NRJ Group SA
PMPG Polskie Media SA
Pohjois-Karjalan Kirjapai
Publicis Groupe S.A.
Roularta Media Group NV
RTL Group SA
SES S.A.
Silkeborg IF Invest A/S
SinnerSchrader Aktiengese
Sky plc
Splendid Medien AG
Ströer SE & Co. KGaA
System1 Group PLC
Syzygy AG
Telegraaf Media Groep N.V
Télévision Française 1 SA
Trinity Mirror plc
Vivendi SA
Xilam Animation
YouGov plc

Komputronik S.A.
L'Occitane International
Lookers plc
LUDWIG BECK am
Rathauseck
Manutan International SA
Mekonomen AB
Moss Bros Group plc
MQ Holding AB
N Brown Group plc
Netmedia Spółka Akcyjna
Next Plc
Ocado Group plc
Oponeo.pl S.A.
Passat Société Anonyme
Pendragon PLC
Petrol d.d.
Plaisio Computers S.A.
Procad Spółka Akcyjna
Samse SA
Sports Direct Internation
Stern Groep N.V.
Superdry Plc
Swedol AB
TAKKT AG
Vertu Motors plc
WH Smith PLC
YOOX Net-A-Porter Group
S
zooplus AG

GICS 2540

4fun Media SA
4imprint Group plc
ADLPartner
Agora S.A.
AIK Fotboll AB
Artprice.com
Atresmedia Corporación de
Axel Springer SE
Bloomsbury Publishing plc
Borussia Dortmund GmbH
&
Cairo Communication S.p.A
Cineworld Group plc
Cofina, SGPS, S.A.
Constantin Medien AG
Cyfrowy Polsat S.A.
Eutelsat Communications
S
Gaumont SA
GEDI Gruppo Editoriale S.
Havas SA
High Co. SA
Hopscotch Global PR
Group
House of Friends AB (publ)
IMS S.A.
Infas Holding Aktiengesel
Informa plc
Ipsos SA
ITE Group plc
ITV plc
JCDecaux SA
Keskisuomalainen Oyj
Kino Polska TV Spolka Akc
Klassik Radio AG
Koninklijke Brill NV
M&C Saatchi plc
Makheia Group Société Ano
Media 6 SA
MEDIACAP SA
Mediaset España
Comunicac
Métropole Télévision S.A.

GICS 2550

Adler Modemärkte AG
APB Apranga
AS Silvano Fashion Group
BasicNet S.p.A.
Beter Bed Holding N.V.
Bilia AB
Bourrelie Group SA
Byggmax Group AB (publ)
Caffyns plc
Cambria Automobiles plc
Carpetright plc
Ceconomy AG
Clas Ohlson AB (publ)
Debenhams plc
Delko S.A.
Delticom AG
Dunelm Group plc
Electra Gruppen AB
F.G. Europe S.A.
Fielmann AG
Graines Voltz
Groupe LDLC
H & M Hennes & Mauritz
AB
Halfords Group plc
Headlam Group plc
Hornbach Baumarkt AG
Inchcape plc
Industria de Diseño Texti
Inter Cars S.A.
JD Sports Fashion plc
Jumbo S.A.
KappAhl AB (publ)
Kingfisher plc

GICS 255010

Delko S.A.
F.G. Europe S.A.
Graines Voltz
Headlam Group plc
Inchcape plc
Inter Cars S.A.
Oponeo.pl S.A.

GICS 255020

Delticom AG
Groupe LDLC
Manutan International SA
N Brown Group plc
Netmedia Spółka Akcyjna
Ocado Group plc
Passat Société Anonyme
TAKKT AG
YOOX Net-A-Porter Group
S
zooplus AG

GICS 255040

Adler Modemärkte AG
APB Apranga
AS Silvano Fashion Group
BasicNet S.p.A.
Beter Bed Holding N.V.
Bilia AB
Bourrelie Group SA
Byggmax Group AB (publ)

Caffyns plc	Bonifiche Ferraresi S.p.A	Lotus Bakeries NV
Cambria Automobiles plc	Booker Group PLC	Loulis Mills S.A.
Carpetright plc	British American Tobacco	M.P. Evans Group plc
Ceconomy AG	Britvic Plc	Makarony Polskie S.A.
Clas Ohlson AB (publ)	BT Holding	MARR S.p.A.
Dunelm Group plc	C&C Group plc	McBride plc
Electra Gruppen AB	Camellia PLC	Midsona AB (publ)
Fielmann AG	Carlsberg A/S	Nichols plc
H & M Hennes & Mauritz AB	Carrefour SA	Olvi Oyj
Halfords Group plc	Casino, Guichard-Perracho	Origin Enterprises plc
Hornbach Baumarkt AG	Centrale del Latte d'Ital	Ottakringer Getränke AG
Industria de Diseño Texti	Cloetta AB (publ)	Ovostar Union N.V.
JD Sports Fashion plc	Colian Holding S.A.	Parmalat S.p.A.
Jumbo S.A.	Cranswick plc	Pernod Ricard SA
KappAhl AB (publ)	Dairy Crest Group plc	Philip Morris CR a.s.
Kingfisher plc	Danone	Podravka d.d.
Komputronik S.A.	Davide Campari-Milano S.p	PZ Cussons Plc
L'Occitane International	Devro plc	R.E.A. Holdings plc
Lookers plc	Diageo plc	Raisio plc
Mekonomen AB	Distribuidora Internacion	Real Good Food plc
Moss Bros Group plc	Ebro Foods, S.A.	Reckitt Benckiser Group p
MQ Holding AB	Emperia Holding S.A.	Rémy Cointreau SA
Pendragon PLC	Enervit S.p.A.	Rokiskio Suris AB
Petrol d.d.	Etn. Fr. Colruyt NV	Royal Unibrew A/S
Plaisio Computers S.A.	Eurocash S.A.	Sabeton SA
Procad Spółka Akcyjna	Finsbury Food Group Plc	Sapmer SA
Samse SA	Fleury Michon SA	Saponia d.d.
Sports Direct Internation	Flour Mills Kepenos S.A.	Savencia SA
Stern Groep N.V.	Fromageries Bel	Schloss Wachenheim AG
Swedol AB	FRoSTA Aktiengesellschaft	Skåne-möllan AB (publ)
Vertu Motors plc	Galaxidi Marine Farm S.A.	Sligro Food Group N.V.
WH Smith PLC	Glanbia plc	Socfinasia S.A.
	Gobarto S.A.	Société de Services,de Pa
	Gr. Sarantis S.A.	Société Internationale de
	Greencore Group plc	Stelios Kanakis Industria
	Greenyard NV	Südzucker AG
	Groupe Laurent-Perrier	Suominen Oyj
	Grupa Zywiec S.A.	Swallowfield plc
	Harboes Bryggeri A/S	Tallinna Kaubamaja Grupp
	Harper Hygienics S.A.	Tate & Lyle plc
	Hawesko Holding	Ter Beke NV
	Aktiengesells	TERMES GRUPA d.d.
	Heineken N.V.	Tesco PLC
	Hilton Food Group plc	Tipiak Société Anonyme
	HKScan Oyj	Total Produce plc
	InterParfums SA	Unilever PLC
	J Sainsbury plc	Valsoia SpA
	Jerónimo Martins, SGPS, S	Vilmorin & Cie SA
	Karelia Tobacco Company I	Viro Tvornica Secera d.d.
	Kernel Holding S.A.	Viscofan, S.A.
	Kerry Group plc	Vranken-Pommery
	Koninklijke Ahold Delhaiz	Monopole
	Kras d.d.	WASGAU Produktions &
	Kri Kri S.A.	Hand
	Kulmbacher Brauerei	Wawel S.A.
	KWS Saat SE	Wm Morrison
	L.D.C. S.A.	Supermarkets
	La Doria SpA	Wynnstay Group plc
	Lanson-BCC	Zaklady Miesne Henryk
	Latvijas Balzams AS	Kan
	L'Oréal S.A.	Zaklady Przemyslu Cukiern

GICS 30

A.G. BARR p.l.c.		
AAK AB (publ.)		
AB Linas Agro Group		
AB Zemaitijos pienas		
ADM Hamburg		
Aktiengesells		
AdVini S.A.		
AGRANA Beteiligungs-Aktie		
Alès Groupe S.A.		
Ambra S.A.		
Amsterdam Commodities N.V		
Anglo-Eastern Plantations		
Anheuser-Busch InBev SA/N		
Anpario plc		
AS PRFoods		
Associated British Foods		
Astarta Holding N.V.		
Atlantic Grupa d.d.		
Atria Oyj		
Auga Group AB		
Axfood AB (publ)		
Barón de Ley, S.A.		
Beiersdorf Aktiengesellsc		
Bodegas Riojanas, S.A.		
Bonduelle SA		

Zaklady Tluszczowe
Kruszw
Zwack Unicum Nyrt.

Cranswick plc
Dairy Crest Group plc
Danone
Davide Campari-Milano S.p
Devro plc
Diageo plc
Ebro Foods, S.A.
Finsbury Food Group Plc
Fleury Michon SA
Flour Mills Keponos S.A.
Fromageries Bel
FRoSTA Aktiengesellschaft
Galaxidi Marine Farm S.A.
Gobarto S.A.
Greencore Group plc
Greenyard NV
Groupe Laurent-Perrier
Grupa Zywiec S.A.

Tate & Lyle plc
Ter Beke NV
TERMES GRUPA d.d.
Tipiak Soci t  Anonyme
Valsoia SpA
Vilmorin & Cie SA
Viro Tvmnica Secera d.d.
Viscofan, S.A.
Vranken-Pommery
Monopole
Wawel S.A.
Wynnstay Group plc
Zaklady Miesne Henryk
Kan
Zaklady Przemyslu Cukiern
Zaklady Tluszczowe
Kruszw
Zwack Unicum Nyrt.

GICS 3010

Amsterdam Commodities
N.V
Axfood AB (publ)
Booker Group PLC
Carrefour SA
Casino, Guichard-Perracho
Distribuidora Internacion
Emperia Holding S.A.
Etn. Fr. Colruyt NV
Eurocash S.A.
Hawesko Holding
Aktienges
J Sainsbury plc
Jer nimo Martins, SGPS, S
Koninklijke Ahold Delhaiz
MARR S.p.A.
Sligro Food Group N.V.
Stelios Kanakis Industria
Tallinna Kaubamaja Grupp
Tesco PLC
Total Produce plc
WASGAU Produktions &
Hand
Wm Morrison
Supermarkets

Harboes Bryggeri A/S
Heineken N.V.
Hilton Food Group plc
HKScan Oyj
Karelia Tobacco Company I
Kernel Holding S.A.
Kerry Group plc
Kras d.d.
Kri Kri S.A.
Kulmbacher Brauerei
KWS Saat SE
L.D.C. S.A.
La Doria SpA
Lanson-BCC
Latvijas Balzams AS
Lotus Bakeries NV
Loulis Mills S.A.
M.P. Evans Group plc
Makarony Polskie S.A.
Nichols plc
Olvi Oyj
Origin Enterprises plc
Ottakringer Getr nke AG
Ovostar Union N.V.
Parmalat S.p.A.
Pernod Ricard SA
Philip Morris CR a.s.
Podravka d.d.
R.E.A. Holdings plc
Raisio plc
Real Good Food plc
R my Cointreau SA
Rokiskio Suris AB
Royal Unibrew A/S
Sabeton SA
Sapmer SA
Savencia SA
Schloss Wachenheim AG
Sk ne-m llan AB (publ)
Socfinasia S.A.
Soci t  de Services,de Pa
Soci t  Internationale de
S dzucker AG

GICS 302010

A.G. BARR p.l.c.
AdVini S.A.
Ambra S.A.
Anheuser-Busch InBev
SA/N
Bar n de Ley, S.A.
Bodegas Riojanas, S.A.
Britvic Plc
C&C Group plc
Carlsberg A/S
Davide Campari-Milano S.p
Diageo plc
Groupe Laurent-Perrier
Grupa Zywiec S.A.
Harboes Bryggeri A/S
Heineken N.V.
Kulmbacher Brauerei
Lanson-BCC
Latvijas Balzams AS
Nichols plc
Olvi Oyj
Ottakringer Getr nke AG
Pernod Ricard SA
R my Cointreau SA
Royal Unibrew A/S
Schloss Wachenheim AG
Soci t  de Services,de Pa
Vranken-Pommery
Monopole
Zwack Unicum Nyrt.

GICS 3020

A.G. BARR p.l.c.
AAK AB (publ.)
AB Linas Agro Group
AB Zemaitijos pienas
ADM Hamburg
Aktiengesells
AdVini S.A.
AGRANA Beteiligungs-Aktie
Ambra S.A.
Anglo-Eastern Plantations
Anheuser-Busch InBev
SA/N
Anpario plc
AS PRFoods
Associated British Foods
Astarta Holding N.V.
Atria Oyj
Auga Group AB
Bar n de Ley, S.A.
Bodegas Riojanas, S.A.
Bonduelle SA
Bonifiche Ferraresi S.p.A
British American Tobacco
Britvic Plc
BT Holding
C&C Group plc
Camellia PLC
Carlsberg A/S
Centrale del Latte d'Ital
Cloetta AB (publ)
Colian Holding S.A.

GICS 302020

AAK AB (publ.)
AB Linas Agro Group
AB Zemaitijos pienas
ADM Hamburg
Aktiengesells
AGRANA Beteiligungs-Aktie
Anglo-Eastern Plantations
Anpario plc
AS PRFoods
Associated British Foods
Astarta Holding N.V.

Atria Oyj	Zaklady Przemyslu Cukiern	CareTech Holdings PLC
Auga Group AB	Zaklady Tluszczowe	Carl Zeiss Meditec AG
Bonduelle SA	Kruszw	CellaVision AB (publ)
Bonifiche Ferraresi S.p.A		Centrum Medyczne ENEL-
Camellia PLC	GICS 3030	MED
Centrale del Latte d'Ital	Alès Groupe S.A.	Clínica Baviera, S.A.
Cloetta AB (publ)	Beiersdorf Aktiengesellsc	Clinigen Group Plc
Colian Holding S.A.	Enervit S.p.A.	Coloplast A/S
Cranswick plc	Gr. Sarantis S.A.	CompuGroup Medical
Dairy Crest Group plc	Harper Hygienics S.A.	Societ
Devro plc	InterParfums SA	Consort Medical plc
Ebro Foods, S.A.	L'Oréal S.A.	ContextVision AB (publ)
Finsbury Food Group Plc	McBride plc	Cosmo Pharmaceuticals
Fleury Michon SA	Midsona AB (publ)	N.V
Flour Mills Kepenos S.A.	PZ Cussons Plc	Craneware plc
Fromageries Bel	Reckitt Benckiser Group p	CVS Group plc
FRoSTA Aktiengesellschaft	Saponia d.d.	Dechra Pharmaceuticals pl
Galaxidi Marine Farm S.A.	Suominen Oyj	Dedicare AB
Gobarto S.A.	Swallowfield plc	DiaSorin S.p.A.
Greencore Group plc	Unilever PLC	Eckert & Ziegler BEBIG S.
Greenyard NV		Eckert & Ziegler Strahlen
Hilton Food Group plc	GICS 303010	ECO Animal Health Group p
HKScan Oyj	McBride plc	Eifelhöhen-Klinik AG
Kernel Holding S.A.	PZ Cussons Plc	Elekta AB (publ)
Kerry Group plc	Reckitt Benckiser Group p	Elos Medtech AB (publ)
Kras d.d.	Saponia d.d.	EMIS Group plc
Kri Kri S.A.	Suominen Oyj	Essilor Int'l Société Ano
KWS Saat SE		Eurofins Scientific SE
L.D.C. S.A.	GICS 303020	Euromedis Groupe
La Doria SpA	Alès Groupe S.A.	Evotec AG
Lotus Bakeries NV	Beiersdorf Aktiengesellsc	Faes Farma, S.A.
Loulis Mills S.A.	Enervit S.p.A.	Feelgood Svenska AB (publ)
M.P. Evans Group plc	Harper Hygienics S.A.	Geratherm Medical AG
Makarony Polskie S.A.	InterParfums SA	Getinge AB
Origin Enterprises plc	L'Oréal S.A.	GlaxoSmithKline plc
Ovostar Union N.V.	Midsona AB (publ)	Grifols, S.A.
Parmalat S.p.A.	Swallowfield plc	Guerbet SA
Podravka d.d.	Unilever PLC	HAEMATO AG
R.E.A. Holdings plc		Hikma Pharmaceuticals
Raisio plc	GICS 35	PLC
Real Good Food plc	Abcam Plc	IASO S.A.
Rokiskio Suris AB	Advanced Medical Solution	Ifa Systems Ag
Sabeton SA	ALK-Abelló A/S	Instem plc
Sapmer SA	Alliance Pharma plc	Ion Beam Applications SA
Savencia SA	Almirall, S.A.	Ipsen S.A.
Skåne-möllan AB (publ)	Ambu A/S	Korian
Socfinasia S.A.	Amplifon SpA	Krka, d. d.
Société Internationale de	Animalcare Group plc	Laboratorios Farmaceutico
Südzucker AG	AS Grindeks	LNA Santé SA
Tate & Lyle plc	AS Olainfarm	Medicalgorithmics S.A.
Ter Beke NV	AstraZeneca PLC	MEDICLIN
TERMES GRUPA d.d.	Bastide Le Confort Médica	Aktiengesellscha
Tipiak Société Anonyme	Biofarm S.A.	Merck
Valsoia SpA	BioGaia AB	Kommanditgesellscha
Vilmorin & Cie SA	bioMérieux S.A.	MeVis Medical Solutions A
Viro Tvořnica Secera d.d.	Bioquell plc	NEUCA SA
Viscofan, S.A.	Biotage AB	Nexus AG
Wawel S.A.	Biotest Aktiengesellschaf	NGS Group AB (publ)
Wynnstay Group plc	Boiron SA	NMC Health Plc
Zaklady Miesne Henryk	Boule Diagnostics AB (pub	Novo Nordisk A/S
Kan	BTG plc	Omega Diagnostics Group
		P
		Oriola Oyj

Orion Oyj
 ORPEA Société Anonyme
 Paul Hartmann AG
 PCAS SA
 Pharma Mar, S.A.
 Pharmagest Interactive SA
 Polmed S.A.
 Prim, S.A.
 Probi AB (publ)
 Recordati S.p.A.
 Revenio Group Oyj
 Rhön-Klinikum Aktiengesel
 Richter Gedeon Vegyészeti
 S.C. Zentiva S.A.
 SALUS, Ljubljana, d. d.
 Sanofi
 Sartorius Stedim Biotech
 Sectra AB (publ)
 Servizi Italia S.p.A.
 Smith & Nephew plc
 Sopharma AD
 Sopharma Trading AD
 STADA Arzneimittel Aktien
 Stallergenes Greer Plc
 STRATEC Biomedical AG
 Swedish Orphan Biovitrum
 Synektik Spółka Akcyjna
 Tristel Plc
 UCB SA
 UDG Healthcare plc
 Vetoquinol SA
 Virbac SA
 VITA 34 AG
 Vitrolife AB (publ)
 Voxel S.A.
 William Demant Holding A/

GICS 3510

Advanced Medical Solution
 Ambu A/S
 Amplifon SpA
 Animalcare Group plc
 Bastide Le Confort Médica
 bioMérieux S.A.
 Bioquell plc
 Boule Diagnostics AB (publ)
 CareTech Holdings PLC
 Carl Zeiss Meditec AG
 CellaVision AB (publ)
 Centrum Medyczne ENEL-
 MED
 Clínica Baviera, S.A.
 Coloplast A/S
 CompuGroup Medical
 Societ
 Consort Medical plc
 ContextVision AB (publ)
 Craneware plc
 CVS Group plc
 Dedicare AB
 DiaSorin S.p.A.

Eckert & Ziegler BEBIG S.
 Eifelhöhen-Klinik AG
 Elekta AB (publ)
 Elos Medtech AB (publ)
 EMIS Group plc
 Essilor Int'l Société Ano
 Euromedis Groupe
 Feelgood Svenska AB (publ)
 Geratherm Medical AG
 Getinge AB
 Guerbet SA
 HAEMATO AG
 IASO S.A.
 Ifa Systems Ag
 Instem plc
 Ion Beam Applications SA
 Korian
 LNA Santé SA
 Medicalgorithmics S.A.
 MEDICLIN
 Aktiengesellscha
 MeVis Medical Solutions A
 NEUCA SA
 Nexus AG
 NGS Group AB (publ)
 NMC Health Plc
 Omega Diagnostics Group
 P
 Oriola Oyj
 ORPEA Société Anonyme
 Paul Hartmann AG
 Pharmagest Interactive SA
 Polmed S.A.
 Prim, S.A.
 Revenio Group Oyj
 Rhön-Klinikum Aktiengesel
 SALUS, Ljubljana, d. d.
 Sartorius Stedim Biotech
 Sectra AB (publ)
 Servizi Italia S.p.A.
 Smith & Nephew plc
 Sopharma Trading AD
 STRATEC Biomedical AG
 Synektik Spółka Akcyjna
 Tristel Plc
 UDG Healthcare plc
 VITA 34 AG
 Voxel S.A.
 William Demant Holding A/

GICS 351010

Ambu A/S
 bioMérieux S.A.
 Bioquell plc
 Boule Diagnostics AB (publ)
 Carl Zeiss Meditec AG
 CellaVision AB (publ)
 Coloplast A/S
 DiaSorin S.p.A.
 Eckert & Ziegler BEBIG S.
 Elekta AB (publ)
 Elos Medtech AB (publ)

Essilor Int'l Société Ano
 Euromedis Groupe
 Geratherm Medical AG
 Guerbet SA
 Ion Beam Applications SA
 Medicalgorithmics S.A.
 Omega Diagnostics Group
 P
 Paul Hartmann AG
 Prim, S.A.
 Revenio Group Oyj
 Sartorius Stedim Biotech
 Sectra AB (publ)
 Smith & Nephew plc
 STRATEC Biomedical AG
 Tristel Plc
 William Demant Holding A/

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Amplifon SpA
 Animalcare Group plc
 Bastide Le Confort Médica
 CareTech Holdings PLC
 Centrum Medyczne ENEL-
 MED
 Clínica Baviera, S.A.
 CVS Group plc
 Dedicare AB
 Eifelhöhen-Klinik AG
 Feelgood Svenska AB (publ)
 HAEMATO AG
 IASO S.A.
 Korian
 LNA Santé SA
 MEDICLIN
 Aktiengesellscha
 NEUCA SA
 NGS Group AB (publ)
 NMC Health Plc
 Oriola Oyj
 ORPEA Société Anonyme
 Polmed S.A.
 Rhön-Klinikum Aktiengesel
 SALUS, Ljubljana, d. d.
 Servizi Italia S.p.A.
 Sopharma Trading AD
 VITA 34 AG
 Voxel S.A.

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CompuGroup Medical
 Societ
 ContextVision AB (publ)
 Craneware plc
 EMIS Group plc
 Ifa Systems Ag
 Instem plc
 MeVis Medical Solutions A
 Nexus AG
 Pharmagest Interactive SA
 Synektik Spółka Akcyjna

GICS 3520

Abcam Plc
 ALK-Abelló A/S
 Alliance Pharma plc
 Ammirall, S.A.
 AS Grindeks
 AstraZeneca PLC
 Biofarm S.A.
 BioGaia AB
 Biotage AB
 Biotest Aktiengesellschaft
 Boiron SA
 BTG plc
 Cosmo Pharmaceuticals
 N.V.
 Dechra Pharmaceuticals pl
 ECO Animal Health Group p
 Eurofins Scientific SE
 Evotec AG
 Faes Farma, S.A.
 GlaxoSmithKline plc
 Grifols, S.A.
 Hikma Pharmaceuticals
 PLC
 Ipsen S.A.
 Krka, d. d.
 Laboratorios Farmaceutico
 Merck
 Kommanditgesellschaft
 Novo Nordisk A/S
 Orion Oyj
 PCAS SA
 Pharma Mar, S.A.
 Probi AB (publ)
 Recordati S.p.A.
 Richter Gedeon Vegyészeti
 S.C. Zentiva S.A.
 Sanofi
 STADA Arzneimittel Aktien
 Stallergenes Greer Plc
 Swedish Orphan Biovitrum
 UCB SA
 Vetoquinol SA
 Virbac SA
 Vitrolife AB (publ)

GICS 352010

Abcam Plc
 BioGaia AB
 Biotest Aktiengesellschaft
 Grifols, S.A.
 Probi AB (publ)
 Swedish Orphan Biovitrum
 Vitrolife AB (publ)

GICS 352020

ALK-Abelló A/S
 Alliance Pharma plc
 Ammirall, S.A.
 AS Grindeks
 AstraZeneca PLC
 Biofarm S.A.

Boiron SA
 BTG plc
 Cosmo Pharmaceuticals
 N.V.
 Dechra Pharmaceuticals pl
 ECO Animal Health Group p
 Faes Farma, S.A.
 GlaxoSmithKline plc
 Hikma Pharmaceuticals
 PLC
 Ipsen S.A.
 Krka, d. d.
 Laboratorios Farmaceutico
 Merck
 Kommanditgesellschaft
 Novo Nordisk A/S
 Orion Oyj
 Recordati S.p.A.
 Richter Gedeon Vegyészeti
 S.C. Zentiva S.A.
 Sanofi
 STADA Arzneimittel Aktien
 Stallergenes Greer Plc
 UCB SA
 Vetoquinol SA
 Virbac SA

GICS 401010

Aktia Bank p.l.c.
 Banco Bilbao Vizcaya Arge
 Banco BPI, S.A.
 Banco de Sabadell, S.A.
 Banco di Desio e della Br
 Banco Santander, S.A.
 Bank BGZ BNP Paribas S.A.
 Bank Handlowy w
 Warszawie
 Bank Millennium S.A.
 Bank Zachodni WBK S.A.
 BPER Banca S.p.A.
 BRD - Groupe Société Générale
 Caisse Reg. de Credit Agr
 Caisse Régionale Crédit A
 Caisse Régionale de Crédi
 Caisse Régionale de Crédi
 Caisse régionale de Crédi
 Caisse Régionale de Crédi
 Caisse Régionale de Crédi
 Caisse Régionale De Crédi
 Caisse Régionale de Crédi
 Caisse Régionale de Crédi
 Caisse régionale de Crédi
 CaixaBank, S.A.
 Central Cooperative Bank
 comdirect bank Aktiengese
 Credit Agricole S.A.
 Credito Emiliano S.p.A.
 First Investment Bank AD
 Getin Holding S.A.
 Getin Noble Bank S.A.
 HSBC Trinkaus & Burkhardt

ING Bank Slaski S.A.
 ING Groep N.V.
 KBC Group NV
 Komerční banka, a.s.
 Lollands Bank A/S
 mBank S.A.
 Nordfyns Bank A/S
 Oldenburgische
 Landesbank
 OTP Bank Plc.
 Powszechna Kasa
 Oszczedno
 Privredna banka Zagreb dd
 Raiffeisen Bank Internati
 Secure Trust Bank Plc
 Spar Nord Bank A/S
 Standard Chartered PLC
 Svenska Handelsbanken
 AB
 Swedbank AB (publ)
 Sydbank A/S
 Van Lanschot Kempen NV
 Vseobecná úverová banka,
 Zagrebacka banka dd

GICS 402010

ABC Arbitrage SA
 Ackermans & Van Haaren
 NV
 Aktiebolaget Industrivärd
 Albis Leasing AG
 Banca IFIS S.p.A.
 Compagnie du Bois
 Sauvage
 Eurazeo SE
 Euro-Tax.pl S.A.
 Exor N.V.
 FORIS AG
 Grenke AG
 Groupe Bruxelles Lambert
 Hypoport AG
 IFG Group plc
 Investment AB Öresund (pu
 Investor AB
 Pragma Faktoring Spolka A
 Sofina Société Anonyme
 Standard Life Aberdeen pl
 Svolder AB
 YOLO S.A.

GICS 402020

Fast Finance S.A.
 International Personal Fi
 KRUK Spółka Akcyjna
 Provident Financial plc
 S&U plc

GICS 402030

3i Group plc
 AB Traction
 Aberforth Smaller Compani
 Alantra Partners S.A.

2017 Valuation Handbook – International Industry Cost of Capital (data through September 30, 2017); Company and GICS List

Alliance Trust PLC	Impax Asset Management	Renta 4 Banco, S.A.
Allianz Technology Trust	Gr	Rothschild & Co SCA
Alpha Real Trust Limited	Impax Environmental	Schroder Income Growth
Altamir SCA	Marke	Fu
Ashmore Group PLC	India Capital Growth Fund	Schroder Japan Growth
Avanza Bank Holding AB (p	Intermediate Capital Grou	Fun
Azimut Holding S.p.A.	International Public Part	Schroder UK Mid Cap Fund
B.P. Marsh & Partners PLC	Invesco Perpetual Enhance	Schroders plc
Baillie Gifford Shin Nipp	INVESCO Perpetual UK	Scottish Mortgage Investm
Banca Generali S.p.A.	Smal	Seneca Global Income & Gr
BinckBank N.V.	Investec plc	SIF Banat-Crisana
BlackRock Greater Europe	IP Group Plc	SIF Transilvania S.A.
BlackRock Income and	IPOPEMA Securities Spólka	SL Private Equity
Grow	Jarvis Securities plc	Societatea de Investitii
Bolsas y Mercados Españ.,	JPMorgan American	Societatea de Investitii
Brewin Dolphin Holdings P	Investm	St. James's Place plc
Brooks Macdonald Group	JPMorgan Chinese	Standard Life Equity Inco
pl	Investme	Standard Life UK Smaller
Bucharest Stock Exchange	JPMorgan Claverhouse	Tamburi Investment Partne
Bure Equity AB	Inve	The Baillie Gifford Japan
Caledonia Investments plc	JPMorgan Global Growth &	The Bankers Investment Tr
Capital Gearing Trust p.l	JPMorgan Japan Smaller	The Brunner Investment Tr
CapMan Oyj	Co	The City of London Invest
Catella AB (publ)	JPMorgan US Smaller	The Edinburgh Investment
Cenkos Securities plc	Compa	The Independent
Charles Stanley Group plc	Jupiter European Opportun	Investmen
Chelverton Small	Jupiter Fund Management	The Law Debenture
Companie	P	Corpora
Compagnie Lebon	Jupiter US Smaller	The Mercantile Investment
C-QUADRAT Investment	Compan	The Monks Investment
AG	KAS BANK N.V.	Trus
Deutsche Balaton AG	Keystone Investment Trust	The North American
Deutsche Beteiligungs AG	Lindsell Train Investment	Income
Deutsche Börse Aktiengese	Liontrust Asset	The Scottish American Inv
Electra Private Equity PI	Managemen	The Scottish Investment T
EP Global Opportunities T	Lowland Investment	TR European Growth Trust
eQ Oyj	Compan	TR Property Investment Tr
F&C Capital and Income In	Luxempart S.A.	Troy Income & Growth Trus
F&C Global Smaller	M.W. Trade Spólka Akcyjna	Union Financiere de Franc
Compan	Majedie Investments PLC	Unternehmens Invest AG
F&C Private Equity Trust	Martin Currie Global Port	Value and Income Trust pl
Fidelity Asian Values PLC	Mattioli Woods PLC	VIEL & Cie
Fidelity Investment Trust	Melker Schörling AB	Wiener Privatbank SE
Fidelity Investment Trust	Mid Wynd International In	Witan Investment Trust pl
Finsbury Growth & Income	Miton Global Opportunitie	
FinTech Group AG	Miton Group plc	
Foreign & Colonial Invest	MLP SE	
Frenkel Topping Group Plc	Natixis S.A.	
GIMV NV	NAXS AB (publ)	
Hargreaves Lansdown plc	NEX Group plc	
Hellenic Exchanges	North Atlantic Smaller Co	
Henderson European	Northern Investors	
Focus	Compan	
Henderson EuroTrust plc	Numis Corporation Plc	
Henderson High Income	OVB Holding AG	
Tru	Pacific Horizon Investmen	
Henderson Opportunities T	Pantheon International PL	
Herald Investment Trust P	PEH Wertpapier AG	
HICL Infrastructure Compa	Perpetual Income and	
Highbridge Multi-Strategy	Grow	
ICG Enterprise Trust PLC	Polar Capital Holdings pl	
IDI	Polar Capital Technology	
IG Group Holdings plc	Rathbone Brothers plc	
	Record plc	
	Reinet Investments S.C.A.	

GICS 403010

Admiral Group plc
AEGON N.V.
ageas SA/NV
Allianz SE
Alm. Brand A/S
April Société Anonyme
Assicurazioni Generali S.
Aviva plc
AXA SA
Charles Taylor plc
Chesnara plc
CNP Assurances SA
Euler Hermes Group SA
EUROINS Insurance plc
European Reliance Gen. In
Europejskie Centrum Odszk
FBD Holdings plc

Grupo Catalana Occidente,
Hannover Rück SE
Jardine Lloyd Thompson
Gr
Mapfre, S.A.
Münchener
Rückversicherun
Novae Group Plc
Powszechny Zakład
Ubezpie
Pozavarovalnica Sava, d.d
Prudential plc
RSA Insurance Group plc
Sampo Oyj
SCOR SE
Società Cattolica di Assi
Topdanmark A/S
Tryg A/S
Unipol Gruppo S.p.A.
UnipolSai Assicurazioni S
UNIQA Insurance Group AG
Vienna Insurance Group AG
Vittoria Assicurazioni S.
Votum S.A.
Wüstenrot &
Württembergis
Zavarovalnica Triglav, d.

AURES Technologies S.A.
Avega Group AB (publ)
Avensia AB (publ)
AVEVA Group plc
Axis AB (publ)
Axway Software SA
B+S Banksysteme
Aktienges
Barco NV
Basler Aktiengesellschaft
BasWare Oyj
BE Semiconductor Industri
Be Think, Solve, Execute
Beijer Electronics Group
Bittium Oyj
Blanco Technology Group
Brady plc
Business & Decision SA
CAD IT S.p.A.
Cancom SE
Capgemini SE
cBrain A/S
CD Projekt S.A.
CENIT Aktiengesellschaft
Columbus A/S
Comarch S.A.
Comp S.A.
Computacenter plc
Concurrent Technologies p
D4t4 Solutions Plc
Dalenys
Dalet S.A.
Dassault Systèmes SE
DATA MODUL
Aktiengesellsc
DATAGROUP SE
Datalex plc
Datalogic S.p.A.
Devoteam SA
Dialog Semiconductor Plc
Diebold Nixdorf Aktienges
Digital Bros S.p.A.
Dillistone Group Plc
discoverIE Group plc
Dom Security
Doro AB (publ)
dotDigital Group Plc
EASY SOFTWARE AG
Eckoh Plc
Electrocomponents plc
ELMOS Semiconductor AG
Enea AB (publ)
Ericsson Nikola Tesla d.d
ESI Group SA
Esprinet S.p.A.
EuroInvestor.com A/S
Eurotel S.A.
Evolis SA
EVS Broadcast Equipment
S
eWork Group AB (publ)
exeect Group SE

Exprivia S.p.A.
Fabasoft AG
Fidessa group plc
First Derivatives plc
First Sensor AG
Formpipe Software AB
Fortec Elektronik AG
G5 Entertainment AB (publ)
GB Group plc
Generic Sweden AB
Generix SA
GFI Informatique SA
GFT Technologies SE
GK Software AG
Gooch & Housego PLC
Gresham Technologies plc
Groupe Open
Halma plc
Hexagon AB
HiQ International AB (pub
HMS Networks AB (publ)
HolidayCheck Group AG
i:FAO Aktiengesellschaft
IAR Systems Group AB
(pub
IDOX plc
IGE+XAO Group
IndigoVision Group plc
Infineon Technologies AG
Infotel SA
Ingenico Group - GCS
init innovation in traffi
Innofactor Plc
Introl S.A.
InVision Aktiengesellscha
iomart Group plc
Isra Vision AG
IT Link SA
Itesoft S.A.
ITS Group
IVU Traffic Technologies
Jenoptik AG
K2 Internet S.A.
K3 Business Technology Gr
Kapsch TrafficCom AG
Keyrus S.A.
Keyware Technologies NV
Knowit Aktiebolag (publ)
KPS AG
Lacroix SA
Lagercrantz Group AB (pub
Laird PLC
Lectra SA
Linedata Services S.A.
Logicom Public Limited
LPKF Laser & Electronics
LS telcom AG
Melexis NV
Mensch und Maschine
Softw
Micro Systemation AB
Microgen plc

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A/S SAF Tehnika
AB S.A.
ABC Data S.A.
Acando AB (publ.)
accesso Technology Group
ACTIA Group S.A.
Action S.A.
Addnode Group AB (publ)
adesso AG
ADVA Optical Networking S
Affecto Oyj
Ailleron S.A.
All for One Steeb AG
Allgeier SE
Alten SA
Altran Technologies S.A.
Amadeus IT Group, S.A.
Amino Technologies plc
ams AG
Apator S.A.
Aplisens S.A.
ASBISc Enterprises Plc
ASM International NV
ASML Holding N.V.
Aspocomp Group Oyj
Asseco Business Solutions
Asseco Poland S.A.
Asseco South Eastern Euro
AT & S Aktiengesellschaft
Atende S.A.
ATOSS Software AG
Aubay Société Anonyme
auFeminin.com

Microwave Vision S.A.	Software Aktiengesellscha	auFeminin.com
Mobile Streams Plc	Solid State plc	Avega Group AB (publ)
Moneysupermarket.com	Solteq Oyj	Avensia AB (publ)
Grou	Sonel S.A.	AVEVA Group plc
Mycronic AB (publ)	Sopheon plc	Axway Software SA
N.V. Nederlandsche Appara	Sopra Steria Group	B+S Banksysteme
NCC Group plc	Spectris plc	Aktienges
Nemetschek SE	Spirent Communications pl	BasWare Oyj
Neopost S.A.	SQLi	Be Think, Solve, Execute
Net Insight AB (publ)	SQS Software Quality Syst	Bittium Oyj
Netcall plc	SRT Marine Systems plc	Blanco Technology Group
NetEnt AB (publ)	Stadium Group plc	Brady plc
Neurones S.A.	Starbreeze AB (publ)	Business & Decision SA
Neurosoft Software Produc	StatPro Group plc	CAD IT S.p.A.
Neways Electronics Intern	Streamwide S.A.	Cancom SE
Nice S.p.A.	SÜSS MicroTec SE	Capgemini SE
NOTE AB	Sword Group S.E.	cBrain A/S
Novabase SGPS SA	Synectics plc	CD Projekt S.A.
Novotek AB	Telefonaktiebolaget LM Er	CENIT Aktiengesellschaft
NTT System S.A.	Teleste Corporation	Columbus A/S
OPTeam Spółka Akcyjna	Telit Communications PLC	Comarch S.A.
Opus Group AB (publ)	TerniEnergia S.p.A.	Comp S.A.
ORBIS AG	Tessi SA	Computacenter plc
Oxford Instruments plc	The Sage Group plc	D4t4 Solutions Plc
Oxford Metrics plc	Tieto Oyj	Dalenys
Pennant International Gro	Tracsis plc	Dalet S.A.
Petards Group plc	Trakm8 Holdings PLC	Dassault Systèmes SE
Precio Fishbone AB (publ)	TT Electronics plc	DATAGROUP SE
Prevas AB	TXT e-solutions S.p.A.	Datalex plc
Pricer AB (publ)	Umanis SA	Devoteam SA
Proact IT Group AB (publ)	USU Software AG	Digital Bros S.p.A.
Proactis Holdings Plc	Vaisala Oyj	Dillistone Group Plc
Proware	Vianet Group plc	dotDigital Group Plc
Profile Systems & Softwar	Videlio SA	EASY SOFTWARE AG
PSI Software AG	Viscom AG	Eckoh Plc
RealDolmen NV	Vitec Software Group AB	Enea AB (publ)
Renishaw plc	WASKO Spółka Akcyjna	ESI Group SA
Reply S.p.A.	Wavestone SA	EuroInvestor.com A/S
RIB Software SE	Xaar plc	eWork Group AB (publ)
RM Plc	Xing SE	Exprivia S.p.A.
RS2 Software p.l.c.	Zaklady Urzadzen	Fabasoft AG
RTX A/S	Computer	Fidessa group plc
S&T AG	Zenitel NV	First Derivatives plc
S4E S.A.	Zytronic plc	Formpipe Software AB
SAES Getters S.p.A.		G5 Entertainment AB (publ)
Sanderson Group Plc		GB Group plc
SAP SE	GICS 4510	Generic Sweden AB
Scanfil Oyj	Acando AB (publ.)	Generix SA
Schweizer Electronic AG	Addnode Group AB (publ)	GFI Informatique SA
SciSys plc	adesso AG	GFT Technologies SE
secunet Security Networks	Affecto Oyj	GK Software AG
SES-imagotag	Ailleron S.A.	Gresham Technologies plc
SII (Société pour l'Infor	All for One Steeb AG	Groupe Open
SimCorp A/S	Allgeier SE	HiQ International AB (pub
Simple S.A.	Alten SA	HolidayCheck Group AG
SMA Solar Technology AG	Altran Technologies S.A.	i:FAO Aktiengesellschaft
Smart Metering Systems Pl	Amadeus IT Group, S.A.	IAR Systems Group AB
SNP Schneider-Neureither	Asseco Business Solutions	(pub
Sodifrance SA	Asseco Poland S.A.	IDOX plc
Soft Computing	Atende S.A.	IGE+XAO Group
Softing AG	ATOSS Software AG	Infotel SA
	Aubay Société Anonyme	init innovation in traffi

Innofactor Plc	Starbreeze AB (publ)	GFI Informatique SA
InVision Aktiengesellscha	StatPro Group plc	GFT Technologies SE
iomart Group plc	Streamwide S.A.	Groupe Open
IT Link SA	Sword Group S.E.	HiQ International AB (pub
Itesoft S.A.	Tessi SA	Infotel SA
ITS Group	The Sage Group plc	ITS Group
IVU Traffic Technologies	Tieto Oyj	Keyrus S.A.
K2 Internet S.A.	Tracsis plc	Keyware Technologies NV
K3 Business Technology Gr	TXT e-solutions S.p.A.	Knowit Aktiebolag (publ)
Keyrus S.A.	Umanis SA	KPS AG
Keyware Technologies NV	USU Software AG	NCC Group plc
Knowit Aktiebolag (publ)	Vitec Software Group AB	Neurones S.A.
KPS AG	WASKO Spółka Akcyjna	Novabase SGPS SA
Lectra SA	Wavestone SA	Novotek AB
Linedata Services S.A.	Xing SE	ORBIS AG
LS telcom AG		Precio Fishbone AB (publ)
Mensch und Maschine		Prevas AB
Softw		Proact IT Group AB (publ)
Micro Systemation AB		Proware
Microgen plc		Reply S.p.A.
Mobile Streams Plc		Sanderson Group Plc
Moneysupermarket.com		secunet Security Networks
Grou		SII (Société pour l'Infor
NCC Group plc		Simple S.A.
Nemetschek SE		SNP Schneider-Neureither
Netcall plc		Sodifrance SA
NetEnt AB (publ)		Soft Computing
Neurones S.A.		Sopra Steria Group
Neurosoft Software Produc		Tessi SA
Novabase SGPS SA		Tieto Oyj
Novotek AB		Umanis SA
ORBIS AG		Wavestone SA
Oxford Metrics plc		
Pennant International Gro		
Petards Group plc		
Precio Fishbone AB (publ)		
Prevas AB		
Proact IT Group AB (publ)		
Proactis Holdings Plc		
Proware		
Profile Systems & Softwar		
PSI Software AG		
RealDolmen NV		
Reply S.p.A.		
RIB Software SE		
RS2 Software p.l.c.		
Sanderson Group Plc		
SAP SE		
SciSys plc		
secunet Security Networks		
SII (Société pour l'Infor		
SimCorp A/S		
Simple S.A.		
SNP Schneider-Neureither		
Sodifrance SA		
Soft Computing		
Software Aktiengesellscha		
Solteq Oyj		
Sopheon plc		
Sopra Steria Group		
SQLi		
SQS Software Quality Syst		
	GICS 451010	
	auFeminin.com	
	Avensia AB (publ)	
	B+S Banksysteme	
	Aktienges	
	Dalenys	
	Datalex plc	
	EuroInvestor.com A/S	
	HolidayCheck Group AG	
	Innofactor Plc	
	iomart Group plc	
	K2 Internet S.A.	
	Mobile Streams Plc	
	Moneysupermarket.com	
	Grou	
	NetEnt AB (publ)	
	SQLi	
	Xing SE	
	GICS 451020	
	Acando AB (publ.)	
	adesso AG	
	Affecto Oyj	
	All for One Steeb AG	
	Allgeier SE	
	Alten SA	
	Altran Technologies S.A.	
	Amadeus IT Group, S.A.	
	Atende S.A.	
	ATOSS Software AG	
	Aubay Société Anonyme	
	Avega Group AB (publ)	
	Be Think, Solve, Execute	
	Business & Decision SA	
	Cancom SE	
	Capgemini SE	
	Columbus A/S	
	Comp S.A.	
	Computacenter plc	
	D4t4 Solutions Plc	
	DATAGROUP SE	
	Devoteam SA	
	Eckoh Plc	
	Enea AB (publ)	
	eWork Group AB (publ)	
	Generic Sweden AB	
		GICS 451030
		Ailleron S.A.
		Asseco Business Solutions
		Asseco Poland S.A.
		AVEVA Group plc
		Axway Software SA
		BasWare Oyj
		Bittium Oyj
		Blanco Technology Group
		Brady plc
		CAD IT S.p.A.
		cBrain A/S
		CD Projekt S.A.
		CENIT Aktiengesellschaft
		Comarch S.A.
		Dalet S.A.
		Dassault Systèmes SE
		Digital Bros S.p.A.
		Dillistone Group Plc
		dotDigital Group Plc
		EASY SOFTWARE AG
		ESI Group SA
		Exprivia S.p.A.
		Fabasoft AG
		Fidessa group plc
		Formpipe Software AB
		G5 Entertainment AB (publ)
		GB Group plc

Generix SA
 GK Software AG
 i:FAO Aktiengesellschaft
 IAR Systems Group AB
 (publ)
 IGE+XAO Group
 init innovation in traffi
 InVision Aktiengesellscha
 IT Link SA
 Itesoft S.A.
 IVU Traffic Technologies
 K3 Business Technology Gr
 Lectra SA
 Linedata Services S.A.
 Mensch und Maschine
 Softw
 Micro Systemation AB
 Microgen plc
 Nemetschek SE
 Netcall plc
 Neurosoft Software Produc
 Oxford Metrics plc
 Pennant International Gro
 Petards Group plc
 Proactis Holdings Plc
 Profile Systems & Softwar
 PSI Software AG
 RIB Software SE
 RS2 Software p.l.c.
 SAP SE
 SimCorp A/S
 Software Aktiengesellscha
 Solteq Oyj
 Sopheon plc
 Starbreeze AB (publ)
 StatPro Group plc
 Streamwide S.A.
 The Sage Group plc
 Tracsis plc
 TXT e-solutions S.p.A.
 USU Software AG
 Vitec Software Group AB
 WASKO Spółka Akcyjna

Beijer Electronics Group
 Concurrent Technologies p
 DATA MODUL
 Aktiengesellsc
 Datalogic S.p.A.
 Diebold Nixdorf Aktienges
 discoverIE Group plc
 Dom Security
 Doro AB (publ)
 Electrocomponents plc
 Esprinet S.p.A.
 Eurotel S.A.
 EVS Broadcast Equipment
 S
 exceed Group SE
 Fortec Elektronik AG
 Gooch & Housego PLC
 Halma plc
 Hexagon AB
 HMS Networks AB (publ)
 IndigoVision Group plc
 Ingenico Group - GCS
 Introl S.A.
 Isra Vision AG
 Kapsch TrafficCom AG
 Lacroix SA
 Lagercrantz Group AB (pub
 Laird PLC
 Logicom Public Limited
 LPKF Laser & Electronics
 Microwave Vision S.A.
 Mycronic AB (publ)
 N.V. Nederlandsche Appara
 Neopost S.A.
 Net Insight AB (publ)
 Neways Electronics Intern
 Nice S.p.A.
 NOTE AB
 NTT System S.A.
 OPTeam Spółka Akcyjna
 Opus Group AB (publ)
 Oxford Instruments plc
 Pricer AB (publ)
 Renishaw plc
 RTX A/S
 S4E S.A.
 SAES Getters S.p.A.
 Scanfil Oyj
 Schweizer Electronic AG
 SES-imagotag
 Smart Metering Systems Pl
 Solid State plc
 Sonel S.A.
 Spectris plc
 Spirent Communications pl
 SRT Marine Systems plc
 Stadium Group plc
 Telit Communications PLC
 Trakm8 Holdings PLC
 TT Electronics plc
 Vaisala Oyj
 Vianet Group plc

Videlio SA
 Viscom AG
 Xaar plc
 Zaklady Urzadzen
 Komputer
 Zenitel NV
 Zytronic plc

GICS 452010

A/S SAF Tehnika
 ADVA Optical Networking S
 Amino Technologies plc
 EVS Broadcast Equipment
 S
 Microwave Vision S.A.
 Net Insight AB (publ)
 Spirent Communications pl
 SRT Marine Systems plc
 Telit Communications PLC
 Trakm8 Holdings PLC
 Zenitel NV

GICS 452020

Concurrent Technologies p
 Diebold Nixdorf Aktienges
 Doro AB (publ)
 Neopost S.A.
 NTT System S.A.
 Xaar plc

GICS 452030

AB S.A.
 ABC Data S.A.
 accesso Technology Group
 ACTIA Group S.A.
 Action S.A.
 Apator S.A.
 Aplisens S.A.
 ASBISc Enterprises Plc
 Aspocomp Group Oyj
 AT & S Aktiengesellschaft
 AURES Technologies S.A.
 Axis AB (publ)
 Barco NV
 Basler Aktiengesellschaft
 Beijer Electronics Group
 DATA MODUL
 Aktiengesellsc
 Datalogic S.p.A.
 discoverIE Group plc
 Dom Security
 Electrocomponents plc
 Esprinet S.p.A.
 Eurotel S.A.
 exceed Group SE
 Gooch & Housego PLC
 Halma plc
 Hexagon AB
 HMS Networks AB (publ)
 IndigoVision Group plc
 Ingenico Group - GCS
 Introl S.A.

GICS 4520

A/S SAF Tehnika
 AB S.A.
 ABC Data S.A.
 accesso Technology Group
 ACTIA Group S.A.
 Action S.A.
 ADVA Optical Networking S
 Amino Technologies plc
 Apator S.A.
 Aplisens S.A.
 ASBISc Enterprises Plc
 Aspocomp Group Oyj
 AT & S Aktiengesellschaft
 AURES Technologies S.A.
 Axis AB (publ)
 Barco NV
 Basler Aktiengesellschaft

Isra Vision AG
 Kapsch TrafficCom AG
 Lacroix SA
 Laird PLC
 Logicom Public Limited
 LPKF Laser & Electronics
 Mycronic AB (publ)
 N.V. Nederlandsche Appara
 Neways Electronics Intern
 Nice S.p.A.
 NOTE AB
 OPTeam Spółka Akcyjna
 Opus Group AB (publ)
 Oxford Instruments plc
 Pricer AB (publ)
 Renishaw plc
 S4E S.A.
 SAES Getters S.p.A.
 Scanfil Oyj
 Schweizer Electronic AG
 SES-imagotag
 Smart Metering Systems Pl
 Solid State plc
 Sonel S.A.
 Spectris plc
 Stadium Group plc
 TT Electronics plc
 Vaisala Oyj
 Vianet Group plc
 Videlio SA
 Viscom AG
 Zaklady Urzadzen
 Komputer
 Zytronic plc

GICS 4530

ams AG
 ASM International NV
 ASML Holding N.V.
 BE Semiconductor Industri
 Dialog Semiconductor Plc
 ELMOS Semiconductor AG
 First Sensor AG
 Infineon Technologies AG
 Melexis NV
 SMA Solar Technology AG
 SÜSS MicroTec SE

GICS 50

A3 Allmänna IT- och Telek
 Afone S.A.
 BT Group plc
 Deutsche Telekom AG
 Drillisch AG
 ecotel communication ag
 El Towers S.p.A
 Elisa Oyj
 freenet AG
 GO p.l.c.
 Hellenic Telecommunicatio
 Hrvatski Telekom d.d.

Iliad SA
 Inmarsat Plc
 KCOM Group PLC
 Keyyo S.A.
 Koninklijke KPN N.V.
 Magyar Telekom
 Telecommun
 Millicom International Ce
 Netia S.A.
 Newsphone Hellas SA
 O2 Czech Republic a.s.
 Orange Belgium S.A.
 Orange Polska S.A.
 Orange S.A.
 Proximus PLC
 Sonaecom, SGPS, S.A.
 TalkTalk Telecom Group PL
 TDC A/S
 Tele2 AB (publ)
 Telefónica, S.A.
 Telekom Austria Aktienges
 Telekom Slovenije d.d.
 Telia Company AB
 Telia Lietuva, AB
 Unima 2000 Systemy
 Telein
 Vodafone Group Plc

GICS 501010

A3 Allmänna IT- och Telek
 Afone S.A.
 BT Group plc
 El Towers S.p.A
 Elisa Oyj
 GO p.l.c.
 Hrvatski Telekom d.d.
 Iliad SA
 Inmarsat Plc
 KCOM Group PLC
 Keyyo S.A.
 Magyar Telekom
 Telecommun
 Netia S.A.
 Newsphone Hellas SA
 O2 Czech Republic a.s.
 Orange Polska S.A.
 Proximus PLC
 TalkTalk Telecom Group PL
 TDC A/S
 Telefónica, S.A.
 Telekom Austria Aktienges
 Telekom Slovenije d.d.
 Telia Company AB
 Telia Lietuva, AB
 Unima 2000 Systemy
 Telein

GICS 501020

Drillisch AG
 freenet AG
 Millicom International Ce
 Orange Belgium S.A.

Sonaecom, SGPS, S.A.
 Tele2 AB (publ)
 Vodafone Group Plc

GICS 55

A2A S.p.A.
 ACEA S.p.A.
 Acsm-Agam S.p.A.
 Albioma
 Ascopiave S.p.A.
 Athens Water Supply and S
 Budapesti Elektromos
 Muve
 Capital Stage AG
 Centrica plc
 CEZ, a. s.
 CNTEE Tranelectrica S.A.
 Compagnie Parisienne de C
 Drax Group plc
 EDP - Energias de Portuga
 EDP Renováveis, S.A.
 Electricité de France S.A
 Électricite de Strasbourg
 Elia System Operator SA
 Elverket Vallentuna AB (p
 Endesa, S.A.
 Enel SpA
 Energiekontor AG
 ERG S.p.A.
 Észak-magyarországi
 Árams
 EVN AG
 Fortum Oyj
 Gas Natural SDG, S.A.
 Gelsenwasser AG
 Hera S.p.A.
 Iberdrola, S.A.
 Iren SpA
 JSC Latvijas Gaze
 Lietuvos energijos gamyba
 Mainova AG
 MVV Energie AG
 National Grid plc
 Pennon Group Plc
 PGE Polska Grupa Energety
 Polenergia SA
 Red Eléctrica Corporación
 REN - Redes Energéticas N
 Rubis
 Severn Trent Plc
 SSE plc
 SUEZ SA
 TAURON Polska Energia
 S.A
 Telecom Plus plc
 TERNA - Rete Elettrica Na
 Terna Energy Societe Anon
 Thessaloniki Water Supply
 United Utilities Group PL
 Veolia Environnement S.A.
 VERBUND AG
 Zespół Elektrociepłowni W

GICS 551010

Budapesti Elektromos
Muve
CNTEE Transelectrica S.A.
Electricité de France S.A
Électricite de Strasbourg
Elia System Operator SA
Elverket Vallentuna AB (p
Endesa, S.A.
Enel SpA
Észak-magyarországi
Árams
EVN AG
Fortum Oyj
PGE Polska Grupa Energety
Red Eléctrica Corporación
TAURON Polska Energia
S.A
TERNA - Rete Elettrica Na

Castellum AB
Catena AB (publ)
CBo Territoria Sociéte An
Citycon Oyj
CLS Holdings plc
Courtois S.A.
CR Capital Real Estate AG
Daejan Holdings plc
DEMIRE Deutsche Mittelsta
Deutsche EuroShop AG
Deutsche Real Estate AG
Deutsche Wohnen SE
DIC Asset AG
Immo Moury SCA
Jeudan A/S
Kungsliden AB
Mountview Estates P.L.C.
Prime Office A/S
Rank Progress S.A.
S IMMO AG
St. Modwen Properties PLC
U and I Group PLC
Urban&Civic plc
VGP NV
VIB Vermögen AG
Victoria Park AB (publ)

GICS 551030

Centrica plc
Compagnie Parisienne de C
Gelsenwasser AG
Mainova AG
MVV Energie AG
SUEZ SA
Telecom Plus plc
Veolia Environnement S.A.
Zespól Elektrocieplowni W

GICS 551040

Athens Water Supply and S
Pennon Group Plc
Severn Trent Plc
Thessaloniki Water Supply
United Utilities Group PL

GICS 551050

Albioma
Capital Stage AG
Drax Group plc
EDP Renováveis, S.A.
Energiekontor AG
ERG S.p.A.
Lietuvos energijos gamyba
Polenergia SA
Terna Energy Societe Anon

GICS 601010

A & J Mucklow Group Plc
Advance Terrafund REIT
Vastned Retail N.V.
Warehouses De Pauw
Warehouses Estates Belgiu
Wereldhave N.V.

GICS 601020

Accentro Real Estate AG
ADLER Real Estate AG
CA Immobilien Anlagen AG

Appendix H: Companies (“High-Financial-Risk” Set) in Each Industry, by GICS Code, in European Union

In Appendix H, a listing of companies in the set of “high-financial-risk” companies for each GICS code in the European Union region in the *2017 Valuation Handbook – International Industry Cost of Capital* Semi-annual Update (data through September 30, 2017) is presented.

GICS 10

A/S Latvijas Kugnieciba
 Activa Resources AG
 Amec Foster Wheeler plc
 Anglo Pacific Group plc
 Bourbon Corporation SA
 CGG
 Coal Energy S.A.
 Concordia Maritime AB (pu
 D'Amico International Shi
 EnQuest PLC
 Esso S.A.F.
 Fluxys Belgium SA
 Hunting plc
 IGas Energy Plc
 INA-Industrija nafte, d.d
 JKX Oil & Gas plc
 Lundin Petroleum AB (publ
 Petrolia SE
 Premier Oil plc
 Prosafe SE
 Revoil S.A.
 Saipem S.p.A.
 Saras S.p.A.
 Songa Offshore SE
 Tullow Oil plc
 Urals Energy Public Compa
 Vallourec SA

GICS 101010

Amec Foster Wheeler plc
 Bourbon Corporation SA
 CGG
 Hunting plc
 Petrolia SE
 Prosafe SE
 Saipem S.p.A.
 Songa Offshore SE
 Vallourec SA

GICS 101020

A/S Latvijas Kugnieciba
 Activa Resources AG
 Anglo Pacific Group plc
 Coal Energy S.A.
 Concordia Maritime AB (pu
 D'Amico International Shi
 EnQuest PLC
 Esso S.A.F.
 Fluxys Belgium SA
 IGas Energy Plc
 INA-Industrija nafte, d.d
 JKX Oil & Gas plc
 Lundin Petroleum AB (publ
 Premier Oil plc
 Revoil S.A.
 Saras S.p.A.
 Tullow Oil plc
 Urals Energy Public Compa

GICS 15

Acacia Mining plc
 Alro S.A.
 Altyn Plc
 Alumil Aluminium Industry
 Arctic Paper S.A.
 Auriant Mining AB (publ)
 Avocet Mining plc
 Bergs Timber AB (publ)
 Campine NV
 Cimpor - Cimentos de Port
 Cognor Holding S.A.
 Corbion N.V.
 Elastron S.A. - Steel Ser
 Encres Dubuit
 ERAMET S.A.
 EVRAZ plc
 Ferrum S.A.
 Gascogne SA
 H+H International A/S
 Hochschild Mining PLC
 KAZ Minerals plc
 Kenmare Resources plc
 Lonmin Plc
 Nyrstar NV
 Outokumpu Oyj
 Petropavlovsk PLC
 Przetwórstwo Tworzyw
 Sztu
 Recylex S.A.
 Semapa - Sociedade de Inv
 Sequana SA
 SKW Stahl-Metallurgie Hol
 Sonae Indústria, S.G.P.S.
 SSAB AB
 Tubos Reunidos, S.A.
 Vedanta Resources plc
 VIOHALCO S.A.
 Wienerberger AG

GICS 151040

Acacia Mining plc
 Alro S.A.
 Altyn Plc
 Alumil Aluminium Industry
 Auriant Mining AB (publ)
 Avocet Mining plc
 Cognor Holding S.A.
 Elastron S.A. - Steel Ser
 ERAMET S.A.
 EVRAZ plc
 Ferrum S.A.
 Hochschild Mining PLC
 KAZ Minerals plc
 Kenmare Resources plc
 Lonmin Plc
 Nyrstar NV
 Outokumpu Oyj
 Petropavlovsk PLC
 Recylex S.A.
 SKW Stahl-Metallurgie Hol

SSAB AB
 Tubos Reunidos, S.A.
 Vedanta Resources plc
 VIOHALCO S.A.

GICS 151050

Arctic Paper S.A.
 Bergs Timber AB (publ)
 Semapa - Sociedade de Inv
 Sequana SA
 Sonae Indústria, S.G.P.S.

GICS 20

Air France-KLM SA
 ALBA SE
 Ambienthesis S.p.A.
 Anonimi Naftiliaki Etarei
 Artefact S.A.
 Atlantska Plovidba d.d.
 Attica Holdings S.A.
 Awbud S.A.
 Balfour Beatty plc
 BE Group AB (publ)
 Beghelli S.p.A.
 Bong AB (publ)
 Bremer Lagerhaus Gesellsc
 Carraro SpA
 Catalis SE
 Christie Group plc
 Cobham plc
 Compagnie Industriali Riu
 Componenta Corporation
 Corporación Empresarial d
 CPPGroup Plc
 Dampskibsselskabet
 Norden
 De La Rue plc
 Driver Group plc
 Dromeas SA
 Drop S.A.
 Duro Felguera, S.A.
 Edenred SA
 Ergoinstal S.A.
 Erria A/S
 Fiera Milano SpA
 Finnair Oyj
 Flybe Group PLC
 Fomento de
 Construcciones
 Fountain S.A.
 GEK TERNA Holdings, Real
 Glaston Oyj Abp
 Glunz & Jensen Holding A/
 Greiffenberger AG
 Gruppo Waste Italia S.p.A
 Halcor Metal Works S.A.,
 Hamon & Cie (Internationa
 Havelock Europa plc
 Heidelberger
 Druckmaschin
 Hogg Robinson Group plc
 HTI High Tech Industries

ICTA AB (publ)
 Inapa - Inwestimentos, Pa
 Inform P. Lykos S.A.
 Institut IGH d.d.
 InterEuropa d.d.
 InterMail A/S
 Intracom Constructions So
 J&P-Avax S.A.
 Klöckner & Co SE
 Koenig & Bauer AG
 Kopex S.A.
 Latécoère S.A.
 Leonardo S.p.a.
 Logwin AG
 Luka Ploce d.d.
 Management Consulting
 Gro
 Martela Oyj
 Mera S.A.
 Mostostal Zabrze S.A.
 Mountfield Group Plc
 Nexans S.A.
 Nicolás Correa, S.A.
 Nordic Shipholding A/S
 Nurminen Logistics Oyj
 Obrascón Huarte Lain, S.A
 Pelikan Aktiengesellschaft
 Poligrafica S. Faustino S
 PostNL N.V.
 Pöyry PLC
 Prochem S.A.
 Progility PLC
 Projprzem S.A.
 Redhall Group plc
 Rentokil Initial plc
 Rosss S.p.A.
 S.C. Santierul Naval Orso
 Sacyr, S.A.
 Santa Fe Group A/S
 Schumag
 Aktiengesellschaft
 Séché Environnement SA
 Serco Group plc
 SGL Carbon SE
 SIG plc
 Société Anonyme Belge de
 Soditech SA
 Speedy Hire Plc
 St Ives plc
 Styles&Wood Group plc
 The 600 Group PLC
 TIM Spółka Akcyjna
 TREVI - Finanziaria Indus
 Tulikivi Corporation
 Uljanik Plovidba D.D.
 Unibios Holdings S.A.
 Viadukt D.D.
 Viking Supply Ships AB (p
 Vossloh AG
 Wincanton plc

GICS 2010

Awbud S.A.
 Balfour Beatty plc
 BE Group AB (publ)
 Beghelli S.p.A.
 Carraro SpA
 Cobham plc
 Componenta Corporation
 Corporación Empresarial d
 Driver Group plc
 Duro Felguera, S.A.
 Energoinstal S.A.
 Fomento de
 Construcciones
 GEK TERNA Holdings, Real
 Glunz & Jensen Holding A/
 Greiffenberger AG
 Gruppo Waste Italia S.p.A
 Halcor Metal Works S.A.,
 Hamon & Cie (Internationa
 Havelock Europa plc
 HTI High Tech Industries
 Inapa - Inwestimentos, Pa
 Institut IGH d.d.
 Intracom Constructions So
 J&P-Avax S.A.
 Klöckner & Co SE
 Koenig & Bauer AG
 Kopex S.A.
 Latécoère S.A.
 Leonardo S.p.a.
 Mera S.A.
 Mostostal Zabrze S.A.
 Mountfield Group Plc
 Nexans S.A.
 Nicolás Correa, S.A.
 Obrascón Huarte Lain, S.A
 Projprzem S.A.
 Redhall Group plc
 S.C. Santierul Naval Orso
 Schumag
 Aktiengesellschaft
 SGL Carbon SE
 SIG plc
 Société Anonyme Belge de
 Speedy Hire Plc
 The 600 Group PLC
 TIM Spółka Akcyjna
 TREVI - Finanziaria Indus
 Tulikivi Corporation
 Unibios Holdings S.A.
 Viadukt D.D.
 Vossloh AG

GICS 201020

Corporación Empresarial d
 Hamon & Cie (Internationa
 Mera S.A.
 Projprzem S.A.
 Tulikivi Corporation

GICS 201030

Awbud S.A.
 Balfour Beatty plc
 Driver Group plc
 Duro Felguera, S.A.
 Fomento de
 Construcciones
 GEK TERNA Holdings, Real
 Gruppo Waste Italia S.p.A
 Havelock Europa plc
 Institut IGH d.d.
 Intracom Constructions So
 J&P-Avax S.A.
 Mostostal Zabrze S.A.
 Mountfield Group Plc
 Obrascón Huarte Lain, S.A
 Redhall Group plc
 TREVI - Finanziaria Indus
 Viadukt D.D.

GICS 201060

Carraro SpA
 Componenta Corporation
 Energoinstal S.A.
 Glunz & Jensen Holding A/
 Greiffenberger AG
 Halcor Metal Works S.A.,
 HTI High Tech Industries
 Koenig & Bauer AG
 Kopex S.A.
 Nicolás Correa, S.A.
 S.C. Santierul Naval Orso
 Schumag
 Aktiengesellschaft
 The 600 Group PLC
 Unibios Holdings S.A.
 Vossloh AG

GICS 201070

BE Group AB (publ)
 Inapa - Inwestimentos, Pa
 Klöckner & Co SE
 SIG plc
 Speedy Hire Plc
 TIM Spółka Akcyjna

GICS 2020

ALBA SE
 Ambienthesis S.p.A.
 Artefact S.A.
 Bong AB (publ)
 Catalis SE
 Christie Group plc
 CPPGroup Plc
 De La Rue plc
 Dromeas SA
 Drop S.A.
 Edenred SA
 Fiera Milano SpA
 Fountain S.A.
 Hogg Robinson Group plc
 ICTA AB (publ)

Inform P. Lykos S.A.
InterMail A/S
Management Consulting
Gro
Martela Oyj
Pelikan Aktiengesellschaft
Poligrafica S. Faustino S
Rentokil Initial plc
Rosss S.p.A.
Santa Fe Group A/S
Séché Environnement SA
Serco Group plc
Soditech SA
St Ives plc
Styles&Wood Group plc

GICS 202010

ALBA SE
Styles&Wood Group plc

GICS 202020

Artefact S.A.
Catalis SE
Christie Group plc
Hogg Robinson Group plc
ICTA AB (publ)
Management Consulting
Gro
Soditech SA

GICS 2030

Air France-KLM SA
Anonimi Naftiliaki Etairei
Atlantska Plovidba d.d.
Attica Holdings S.A.
Bremer Lagerhaus Gesellsc
Dampskibsselskabet
Norden
Erria A/S
Finnair Oyj
Flybe Group PLC
InterEuropa d.d.
Logwin AG
Luka Ploce d.d.
Nordic Shipholding A/S
Nurminen Logistics Oyj
PostNL N.V.
Uljanik Plovidba D.D.
Viking Supply Ships AB (p
Wincanton plc

GICS 25

A. Tsokkos Hotels Public
Aalborg Boldspilklub A/S
AdUX SA
Aeffe S.p.A.
AFC Ajax NV
Antevenio, S.A.
Arena Hospitality Group d
Arnoldo Mondadori Editore
AS Baltika
Baccarat S.A.

Beate Uhse AG
Bernard Loiseau SA
Billboard AD
Caleffi S.p.A.
Centaur Media plc
Centric Holdings S.A.
Codere, S.A.
Compagnie des Alpes SA
Connect Group PLC
Cyprus Trading Corporatio
DEAG Deutsche
Entertainme
Dignity plc
Elve S.A.
Eniro AB (publ)
Findel plc
Foullis Holdings S.A.
GfK SE
Götenehus Group AB (publ)
Groclin S.A.
Groupe Flo SA
Groupe Partouche SA
Guy Degrenne S.A.
HanseYachts AG
Haynes Publishing Group P
Honkarakenne Oyj
Hornby plc
I.Kloukinas-I.Lappas S.A.
iGrandiViaggi S.p.A.
Ilkka-Yhtymä Oyj
Immsi S.p.A.
Impresa – Sociedade Gesto
Independent News & Media
InterContinental Hotels G
International Hotel Inves
Intralot S.A.
Johnston Press plc
Juventus Football Club S.
Kabel Deutschland Holding
Lafuma SA
Lampsa Hellenic Hotels S.
Landi Renzo S.p.A.
Larq S.A.
Les Hotels De Paris SA
Lexibook - Linguistic Ele
m4e AG
Mediacontech S.p.A.
Mediaset S.p.A.
Monrif S.p.A.
Mothercare plc
Mr. Bricolage SA
mybet Holding SE
NH Hotel Group, S.A.
Pearson plc
Peugeot S.A.
Philippos Nakas S.A.
Poligrafici Editoriale S.
Porta Communications Plc
Prima Moda Spolka
Akcyjna
Próchnik S.A.
Promotora de Informacione

Przedsiębiorstwo Handlu Z
Qliro Group AB (publ)
RCS MediaGroup S.p.A.
reach4entertainment enter
RNB Retail and Brands AB
S.S. Lazio S.p.A.
Safilo Group S.p.A.
SAG GEST - Soluções
Autom
Sanoma Oyj
Scandinavian Brake
System
Selected Textiles S.A.
Skano Group AS
Snaitech S.p.A.
Solaris d.d.
Solocal Group S.A.
Sport Lisboa e Benfica -
Sporttotal AG
Stockmann Oyj ABP
STV Group plc
Telenet Group Holding NV
Tom Tailor Holding AG
TomTom N.V.
Topps Tiles plc
Toupargel Groupe SA
Tribal Group plc
Venue Retail Group AB
Vocento, S.A.
Wild Bunch AG
Wistil Spółka Akcyjna
Wolford Aktiengesellschaft
Wulff-Yhtiöt Oyj

GICS 2510

Groclin S.A.
Immsi S.p.A.
Landi Renzo S.p.A.
Peugeot S.A.
Scandinavian Brake
System

GICS 2520

Aeffe S.p.A.
AS Baltika
Baccarat S.A.
Caleffi S.p.A.
Elve S.A.
Götenehus Group AB (publ)
Guy Degrenne S.A.
HanseYachts AG
Honkarakenne Oyj
Hornby plc
Lafuma SA
Lexibook - Linguistic Ele
Próchnik S.A.
Safilo Group S.p.A.
Selected Textiles S.A.
Skano Group AS
TomTom N.V.
Wistil Spółka Akcyjna
Wolford Aktiengesellschaft

GICS 252010

Baccarat S.A.
Götenehus Group AB (publ)
Guy Degrenne S.A.
Honkarakenne Oyj
Lexibook - Linguistic Ele
Skano Group AS
TomTom N.V.

GICS 252030

Aeffe S.p.A.
AS Baltika
Caleffi S.p.A.
Elve S.A.
Próchnik S.A.
Safilo Group S.p.A.
Selected Textiles S.A.
Wistil Spółka Akcyjna
Wolford Aktiengesellschaft

GICS 2530

A. Tsokkos Hotels Public
Aalborg Boldspilklub A/S
Arena Hospitality Group d
Bernard Loiseau SA
Centric Holdings S.A.
Codere, S.A.
Compagnie des Alpes SA
Dignity plc
Groupe Flo SA
Groupe Partouche SA
iGrandiViaggi S.p.A.
InterContinental Hotels G
International Hotel Inves
Intralot S.A.
Lampsa Hellenic Hotels S.
Les Hotels De Paris SA

GICS 253010

Bernard Loiseau SA
Centric Holdings S.A.
Codere, S.A.
Compagnie des Alpes SA
Groupe Flo SA
Groupe Partouche SA
iGrandiViaggi S.p.A.
InterContinental Hotels G
International Hotel Inves
Intralot S.A.
Lampsa Hellenic Hotels S.
Les Hotels De Paris SA

GICS 2540

AFC Ajax NV
Antevenio, S.A.
Arnoldo Mondadori Editore
Billboard AD
Centaur Media plc
DEAG Deutsche
Entertainme

Eniro AB (publ)
GfK SE
Haynes Publishing Group P
Ilkka-Yhtymä Oyj
Impresa - Sociedade Gestio
Independent News & Media
Johnston Press plc
Juventus Football Club S.
Kabel Deutschland Holding
Larq S.A.
m4e AG
Mediacontech S.p.A.
Mediaset S.p.A.
Monrif S.p.A.
Pearson plc
Poligrafici Editoriale S.
Porta Communications Plc
Promotora de Informacione
RCS MediaGroup S.p.A.
reach4entertainment enter
S.S. Lazio S.p.A.
Sanoma Oyj
Solocal Group S.A.
Sport Lisboa e Benfica -
Sporttotal AG
STV Group plc
Telenet Group Holding NV
Vocento, S.A.
Wild Bunch AG

GICS 2550

Mothercare plc
Mr. Bricolage SA
Philippos Nakas S.A.
Prima Moda Spolka
Akcyjna
Przedsiębiorstwo Handlu Z
Qliro Group AB (publ)
RNB Retail and Brands AB
SAG GEST - Soluções
Autom
Stockmann Oyj ABP
Tom Tailor Holding AG

GICS 255040

Fourlis Holdings S.A.
I.Kloukinas-I.Lappas S.A.
Mr. Bricolage SA
Philippos Nakas S.A.
Prima Moda Spolka
Akcyjna
Przedsiębiorstwo Handlu Z
RNB Retail and Brands AB
Topps Tiles plc
Venue Retail Group AB

GICS 30

AgroGeneration SA
Agromino A/S
Agroton Public Limited
Badel 1862 d.d.
Creta Farm S.A.

Deoleo, S.A.
Elgeka S.A.
Evrofarma SA
Foncière Euris SA
Koninklijke Wessanen N.V.
KORRES S.A. - Natural Pro
KSG Agro S.A.
Marie Brizard Wine & Spir
Milkiland N.V.
Natra, S.A.
Nireus Aquaculture S.A.
Pamapol S.A.
Papoutsanis S.A.
Park & Bellheimer AG
Premier Foods plc
Rallye SA
Vupik d.d.

GICS 3020

AgroGeneration SA
Agromino A/S
Agroton Public Limited
Badel 1862 d.d.
Creta Farm S.A.
Deoleo, S.A.
Evrofarma SA
Koninklijke Wessanen N.V.
KSG Agro S.A.
Marie Brizard Wine & Spir
Milkiland N.V.
Natra, S.A.
Nireus Aquaculture S.A.
Pamapol S.A.
Park & Bellheimer AG
Premier Foods plc
Vupik d.d.

GICS 302020

AgroGeneration SA
Agromino A/S
Agroton Public Limited
Creta Farm S.A.
Deoleo, S.A.
Evrofarma SA
Koninklijke Wessanen N.V.
KSG Agro S.A.
Milkiland N.V.
Natra, S.A.
Nireus Aquaculture S.A.
Pamapol S.A.
Premier Foods plc
Vupik d.d.

GICS 35

ADDvise Group AB (publ)
Bavarian Nordic A/S
Cegedim SA
Diagnostic and Therapeuti
EKF Diagnostics Holdings
EMC Instytut Medyczny S.A
EuKedos S.p.A.

Fagron NV
Genus plc
H. Lundbeck A/S
Immunodiagnostic Systems
Inspiration Healthcare Gr
Maternus-Kliniken Aktieng
McKesson Europe AG
Medicrea
PZ Cormay S.A.
SANOCHEMIA
Pharmazeutika
Surgical Innovations Grou
Swissmed Centrum
Zdrowia
Vectura Group plc

GICS 3510

ADDvise Group AB (publ)
Cegedim SA
PZ Cormay S.A.
Surgical Innovations Grou
Swissmed Centrum
Zdrowia

GICS 351010

ADDvise Group AB (publ)
EKF Diagnostics Holdings
Immunodiagnostic Systems
Inspiration Healthcare Gr
Medicrea
PZ Cormay S.A.
Surgical Innovations Grou

GICS 351020

Diagnostic and Therapeuti
EMC Instytut Medyczny S.A
EuKedos S.p.A.
Fagron NV
Maternus-Kliniken Aktieng
McKesson Europe AG
Swissmed Centrum
Zdrowia

GICS 3520

Genus plc
H. Lundbeck A/S
SANOCHEMIA
Pharmazeutika
Vectura Group plc

GICS 401010

Arbuthnot Banking Group P
Banco di Sardegna S.p.A.
Slatinska Banka d.d.
The Royal Bank of Scotlan
UniCredit S.p.A.
Unione di Banche Italiane

GICS 402030

BBGI Sicav S.A.
City of London Investment

DeA Capital S.p.A.
Forrás nyRt.
Lloyd Fonds AG
Man Group plc
Newcap Holding A/S
WH Ireland Group plc

GICS 45

Amper, S.A.
AND International Publish
APC Technology Group
PLC
Archos S.A.
Beta Systems Software AG
Byte Computer SA
Cast SA
Cliq Digital AG
Connect Group NV
CS Communication & System
Ctac N.V.
CUBE.ITG SA
Dada S.p.A.
Digia Oyj
Digigram S.A.
DNXCorp SE
euromicron AG
FullSix S.p.A.
Gefran S.p.A.
Grupo Ezentis S.A.
Guillemot Corporation S.A
HF Company Soci t e Anonym
ICT Group N.V.
Incap Oyj
Indra Sistemas, S.A.
Innelec Multim dia SA
INTERSHOP
Communications
InTiCa Systems AG
INVISIO Communications
AB
Itway S.p.A.
MEMSCAP, S.A.
msg life ag
Newmark Security plc
Nokia Corporation
Oniva Online Group Europe
Ordina N.V.
Parity Group plc
Pebble Beach Systems
Grou
Prologue S.A.
Quest Holdings S.A.
Qumak S.A.
RhythmOne plc
Riber S.A.
RoodMicrotec N.V.
SDL plc
Soprano Oyj
TAS Tecnologia Avanzata d
TIE Kinetix N.V.
Tradedoubler AB

Watchstone Group Plc

GICS 4510

CS Communication & System
Ctac N.V.
Dada S.p.A.
Digia Oyj
DNXCorp SE
FullSix S.p.A.
ICT Group N.V.
Indra Sistemas, S.A.
INTERSHOP
Communications
msg life ag
Oniva Online Group Europe
Ordina N.V.
Parity Group plc
Prologue S.A.
Qumak S.A.
RhythmOne plc
SDL plc
Soprano Oyj
TAS Tecnologia Avanzata d
TIE Kinetix N.V.
Tradedoubler AB
Watchstone Group Plc
ZOO Digital Group plc

GICS 451010

AND International Publish
Dada S.p.A.
DNXCorp SE
FullSix S.p.A.
Oniva Online Group Europe
RhythmOne plc
Soprano Oyj
TIE Kinetix N.V.
Tradedoubler AB

GICS 451020

Byte Computer SA
CS Communication & System
Ctac N.V.
Digia Oyj
Indra Sistemas, S.A.
Ordina N.V.

GICS 4520

Amper, S.A.
APC Technology Group
PLC
Archos S.A.
Connect Group NV
CUBE.ITG SA
Digigram S.A.
euromicron AG
Gefran S.p.A.
Grupo Ezentis S.A.
Guillemot Corporation S.A
HF Company Soci t e

Anonym
 Incap Oyj
 Innelec Multimédia SA
 InTiCa Systems AG
 Newmark Security plc
 Nokia Corporation
 Pebble Beach Systems
 Grou

TESGAS Spółka Akcyjna
 Velcan SA

GICS 551050

7C Solarparken AG
 Alerion Clean Power S.p.A
 Arise AB (publ)
 Athena Investments A/S
 Edison S.p.A.
 ErgyCapital S.p.A.
 Falck Renewables S.p.A.
 FUTUREN SA
 Velcan SA

GICS 452010

Amper, S.A.
 euromicron AG
 Grupo Ezentis S.A.
 HF Company Société
 Anonym
 INVISIO Communications
 AB
 Nokia Corporation
 Pebble Beach Systems
 Grou

GICS 452030

Itway S.p.A.
 Newmark Security plc

GICS 50

Hellenic Company for Tele
 Hyperion S.A.
 MNI Spółka Akcyjna
 OT-Optima Telekom d.d.
 Retelit S.p.A.
 Telecom Italia S.p.A.
 Tiscali S.p.A.

GICS 501010

Hellenic Company for Tele
 Hyperion S.A.
 MNI Spółka Akcyjna
 OT-Optima Telekom d.d.
 Retelit S.p.A.
 Telecom Italia S.p.A.
 Tiscali S.p.A.

GICS 55

7C Solarparken AG
 Alerion Clean Power S.p.A
 Arise AB (publ)
 Athena Investments A/S
 Direct Energie Société An
 E.ON SE
 Edison S.p.A.
 Elektrociepłownia Bedzin
 EnBW Energie Baden-
 Württe
 ENGIE SA
 ErgyCapital S.p.A.
 Falck Renewables S.p.A.
 FUTUREN SA
 K.R.Energy S.p.A.
 LITGRID AB
 Public Power Corporation
 RWE Aktiengesellschaft

Appendix I:

GICS Codes in which Companies (Main Set) are Included, European Union

In Appendix I, a listing of the GICS codes in which each of the companies in the main set of "healthy" companies in the European Union region in the *2017 Valuation Handbook – International Industry Cost of Capital* Semi-annual Update (data through September 30, 2017) is presented.

2017 Valuation Handbook – International Industry Cost of Capital (data through September 30, 2017); Company and GICS List

3i Group plc			402030	ADLER Real Estate AG			601020
4fun Media SA	25	2540		ADLPartner	25	2540	
4imprint Group plc	25	2540		ADM Hamburg Aktiengesells	30	3020	302020
A & J Mucklow Group Plc			601010	Admiral Group plc			403010
A.G. BARR p.l.c.	30	3020	302010	Adriatic Croatia Internat	25	2530	253010
A.P. Møller - Mærsk A/S	20	2030		ADVA Optical Networking S	45	4520	452010
A.S. Création Tapeten AG	25	2520	252010	Advance Terrafund REIT			601010
A/S SAF Tehnika	45	4520	452010	Advanced Medical Solution	35	3510	
A2A S.p.A.	55			AdVini S.A.	30	3020	302010
A3 Allmänna IT- och Telek	50		501010	Aegean Airlines S.A.	20	2030	203020
AAK AB (publ.)	30	3020	302020	AEGON N.V.			403010
AB Electrolux (publ)	25	2520	252010	Aéroports de Paris SA	20	2030	203050
AB Fagerhult	20	2010	201040	ÂF AB (publ)	20	2020	202020
AB Klaipedos nafta	10		101020	Affecto Oyj	45	4510	451020
AB Linas Agro Group	30	3020	302020	Afone S.A.	50		501010
AB Panevezio Statybos Tre	20	2010	201030	ageas SA/NV			403010
AB S.A.	45	4520	452030	Aggreko plc	20		
AB Snaige	25	2520	252010	Agora S.A.	25	2540	
AB Traction			402030	AGRANA Beteiligungs-Aktie	30	3020	302020
AB Volvo (publ)	20	2010	201060	Agria Group Holding JSC	20	2010	201050
AB Zemaitijos pienas	30	3020	302020	Ahlers AG	25	2520	252030
Abbey plc	25	2520	252010	AIK Fotboll AB	25	2540	
ABC Arbitrage SA			402010	Ailleron S.A.	45	4510	451030
ABC Data S.A.	45	4520	452030	Air Liquide, société anon	15		151010
Abcam Plc	35	3520	352010	Air Partner plc	20	2030	203020
Aberforth Smaller Compani			402030	Airbus SE	20	2010	201010
Abertis Infraestructuras,	20	2030	203050	AIREA plc	25	2520	252010
Acando AB (publ.)	45	4510	451020	AKKA Technologies SE	20	2020	202020
Accell Group N.V.	25	2520	252020	Aktia Bank p.l.c.			401010
Accentro Real Estate AG			601020	Aktiebolaget Industrivärd			402010
accesso Technology Group	45	4520	452030	Akzo Nobel N.V.	15		151010
Accor SA	25	2530	253010	Alantra Partners S.A.			402030
ACEA S.p.A.	55			Albena AD	25	2530	253010
Acerinox, S.A.	15		151040	Albioma	55		551050
Ackermans & Van Haaren NV			402010	Albis Leasing AG			402010
ACS, Actividades de Const	20	2010	201030	Alchemia S.A.	15		151040
Acsm-Agam S.p.A.	55			Alcomet AD	15		151040
ACTIA Group S.A.	45	4520	452030	Alès Groupe S.A.	30	3030	303020
Action S.A.	45	4520	452030	Alfa Laval AB (publ)	20	2010	201060
AD Plastik d.d.	25	2510	251010	ALK-Abelló A/S	35	3520	352020
ADA Société Anonyme	20	2030	203040	All for One Steeb AG	45	4510	451020
Addnode Group AB (publ)	45	4510		Allgeier SE	45	4510	451020
adesso AG	45	4510	451020	Alliance Pharma plc	35	3520	352020
Adidas AG	25	2520	252030	Alliance Trust PLC			402030
Adler Modemärkte AG	25	2550	255040	Allianz SE			403010

2017 Valuation Handbook – International Industry Cost of Capital (data through September 30, 2017); Company and GICS List

Allianz Technology Trust			402030	AS PRFoods	30	3020	302020
Alm. Brand A/S			403010	AS Silvano Fashion Group	25	2550	255040
Almirall, S.A.	35	3520	352020	AS Tallink Grupp	20	2030	
Alpha Real Trust Limited			402030	ASBISc Enterprises Plc	45	4520	452030
Alstom SA	20	2010	201060	Ascopiave S.p.A.	55		
Altamir SCA			402030	Ashmore Group PLC			402030
Alten SA	45	4510	451020	Ashtead Group plc	20	2010	201070
Altran Technologies S.A.	45	4510	451020	ASM International NV	45	4530	
Altri, S.G.P.S., S.A.	15		151050	ASML Holding N.V.	45	4530	
Amadeus FiRe AG	20	2020	202020	Aspocomp Group Oyj	45	4520	452030
Amadeus IT Group, S.A.	45	4510	451020	ASSA ABLOY AB (publ)	20	2010	201020
AMAG Austria Metall AG	15		151040	Asseco Business Solutions	45	4510	451030
Ambra S.A.	30	3020	302010	Asseco Poland S.A.	45	4510	451030
Ambu A/S	35	3510	351010	Asseco South Eastern Euro	45		
Amer Sports Corporation	25	2520		Assicurazioni Generali S.			403010
Amerisur Resources PLC	10		101020	Associated British Foods	30	3020	302020
Amica S.A.	25	2520	252010	Assystem SA	20	2020	202020
Amino Technologies plc	45	4520	452010	AST Groupe	25	2520	252010
Amplifon SpA	35	3510	351020	Astaldi S.p.A.	20	2010	201030
AmRest Holdings SE	25	2530	253010	Astarta Holding N.V.	30	3020	302020
ams AG	45	4530		ASTM S.p.A.	20	2030	203050
Amsterdam Commodities N.V	30	3010		AstraZeneca PLC	35	3520	352020
Andrews Sykes Group plc	20	2010	201070	AT & S Aktiengesellschaft	45	4520	452030
Andritz AG	20	2010		Atende S.A.	45	4510	451020
Anglo Asian Mining PLC	15		151040	Athens Water Supply and S	55		551040
Anglo-Eastern Plantations	30	3020	302020	Atlantia S.p.A.	20	2030	203050
Anheuser-Busch InBev SA/N	30	3020	302010	Atlantic Grupa d.d.	30		
Animalcare Group plc	35	3510	351020	Atlas Copco AB	20	2010	201060
Anpario plc	30	3020	302020	ATOSS Software AG	45	4510	451020
Ansaldo STS S.p.A.	20	2030	203050	Atresmedia Corporación de	25	2540	
Antofagasta plc	15		151040	Atria Oyj	30	3020	302020
Apator S.A.	45	4520	452030	Aubay Société Anonyme	45	4510	451020
APB Apranga	25	2550	255040	auFeminin.com	45	4510	451010
Aplisens S.A.	45	4520	452030	Auga Group AB	30	3020	302020
April Société Anonyme			403010	Augean plc	20	2020	202010
AQ Group AB (publ)	20	2010	201040	Aukett Swanke Group Plc	20	2020	202020
ARCADIS NV	20	2010	201030	Aurea SA	20	2020	202010
Arcam AB (publ)	20	2010	201060	AURES Technologies S.A.	45	4520	452030
Arkema S.A.	15			Aurubis AG	15		151040
Arkil Holding A/S	20	2010	201030	Autogrill S.p.A.	25	2530	253010
Artprice.com	25	2540		Autostrade Meridionali S.	20	2030	203050
AS Company S.A.	25	2520	252020	Avanza Bank Holding AB (p			402030
AS Grindeks	35	3520	352020	Avega Group AB (publ)	45	4510	451020
AS Merko Ehitus	20	2010	201030	Avensia AB (publ)	45	4510	451010
AS Olainfarm	35			AVEVA Group plc	45	4510	451030

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Avia Solutions Group AB	20	2030	203050	Bellway p.l.c.	25	2520	252010
Aviva plc			403010	Benefit Systems S.A.	20	2020	202020
Awilco Drilling Plc	10		101010	Bénéteau S.A.	25	2520	252020
AXA SA			403010	Berendsen plc	20	2020	202010
Axel Springer SE	25	2540		Bergman & Beving AB	20	2010	201070
Axfood AB (publ)	30	3010		Berling S.A.	20	2010	201070
Axis AB (publ)	45	4520	452030	Bertrandt Aktiengesellsch	20	2020	202020
Axway Software SA	45	4510	451030	Best Union Company S.p.A.	20	2020	202010
Azimut Holding S.p.A.			402030	Bet-At-Home.com AG	25	2530	253010
B&C Speakers S.p.A.	25	2520	252010	Beter Bed Holding N.V.	25	2550	255040
B.P. Marsh & Partners PLC			402030	Betsson AB	25	2530	253010
B.V. Delftsch Aardewerkfa	25	2520	252010	BHS tabletop AG	25	2520	252010
B+S Banksysteme Aktienges	45	4510	451010	Bialetti Industrie S.p.A	25	2520	252010
Babcock International Gro	20			Biesse S.p.A.	20	2010	201060
BAE Systems plc	20	2010	201010	BigBen Interactive	25		
Baillie Gifford Shin Nipp			402030	Bijou Brigitte modische A	25	2520	252030
Banca Generali S.p.A.			402030	Bilfinger SE	20	2020	202010
Banca IFIS S.p.A.			402010	Bilia AB	25	2550	255040
Banco Bilbao Vizcaya Arge			401010	BillerudKorsnäs AB (publ)	15		151030
Banco BPI, S.A.			401010	BinckBank N.V.			402030
Banco de Sabadell, S.A.			401010	Biofarm S.A.	35	3520	352020
Banco di Desio e della Br			401010	BioGaia AB	35	3520	352010
Banco Santander, S.A.			401010	bioMérieux S.A.	35	3510	351010
Bank BGZ BNP Paribas S.A.			401010	Bioquell plc	35	3510	351010
Bank Handlowy w Warszawie			401010	Biotage AB	35	3520	
Bank Millennium S.A.			401010	Biotest Aktiengesellschaf	35	3520	352010
Bank Zachodni WBK S.A.			401010	Bittium Oyj	45	4510	451030
Barco NV	45	4520	452030	Björn Borg AB (publ)	25		
Barón de Ley, S.A.	30	3020	302010	BlackRock Greater Europe			402030
Barratt Developments plc	25	2520	252010	BlackRock Income and Grow			402030
BASF SE	15		151010	Blanco Technology Group	45	4510	451030
BasicNet S.p.A.	25	2550	255040	Bloomsbury Publishing plc	25	2540	
Basler Aktiengesellschaft	45	4520	452030	Bodegas Riojanas, S.A.	30	3020	302010
Bastide Le Confort Médica	35	3510	351020	Bodycote plc	20	2010	
BasWare Oyj	45	4510	451030	Boiron SA	35	3520	352020
Batenburg Techniek N.V.	20	2010		Boliden AB	15		151040
BAUER Aktiengesellschaft	20	2010		Bollore	20	2030	203010
Bayerische Motoren Werke	25	2510	251020	Bolsas y Mercados Españ.,			402030
BBA Aviation plc	20	2030	203050	Bonduelle SA	30	3020	302020
BE Semiconductor Industri	45	4530		Bonifiche Ferraresi S.p.A	30	3020	302020
Be Think, Solve, Execute	45	4510	451020	Booker Group PLC	30	3010	
Beiersdorf Aktiengesellsc	30	3030	303020	Borussia Dortmund GmbH &	25	2540	
Beijer Alma AB (publ)	20	2010		Boryszew S.A.	15		151040
Beijer Electronics Group	45	4520	452030	Boule Diagnostics AB (pub	35	3510	351010
Beijer Ref AB (publ)	20	2010	201070	Bourrelie Group SA	25	2550	255040

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Bovis Homes Group PLC	25	2520	252010	Caisse Régionale de Crédi			401010
Bowim S.A.	20	2010	201070	CaixaBank, S.A.			401010
BP p.l.c.	10		101020	Caledonia Investments plc			402030
BPER Banca S.p.A.			401010	Caltagirone SpA	15		151020
Brady plc	45	4510	451030	Cambria Automobiles plc	25	2550	255040
Braemar Shipping Services	20	2030	203050	Camellia PLC	30	3020	302020
BRD - Groupe Société Générale			401010	Cancom SE	45	4510	451020
Brd. Klee A/S	20	2010	201070	Capgemini SE	45	4510	451020
Brembo S.p.A.	25	2510	251010	Capital Gearing Trust p.l			402030
Brenntag AG	20	2010	201070	Capital Stage AG	55		551050
Brewin Dolphin Holdings P			402030	CapMan Oyj			402030
Briju S.A.	25	2520	252030	CareTech Holdings PLC	35	3510	351020
British American Tobacco	30	3020		Cargotec Corporation	20	2010	201060
Britvic Plc	30	3020	302010	Carillion plc	20		
Brødrene A & O Johansen A	20	2010	201070	Carl Zeiss Meditec AG	35	3510	351010
Brooks Macdonald Group pl			402030	Carlsberg A/S	30	3020	302010
Brunel International N.V.	20	2020	202020	Carpentryright plc	25	2550	255040
BRUNELLO CUCINELLI S.p.A.	25	2520	252030	Carrefour SA	30	3010	
BSC Drukarnia Opakowan Sp	15		151030	Carr's Group plc	20	2010	201050
BT Group plc	50		501010	Casino, Guichard-Perracho	30	3010	
BT Holding	30	3020		Castellum AB			601020
BTG plc	35	3520	352020	Castings P.L.C.	20	2010	201060
BTS Group AB (publ)	20	2020	202020	Catella AB (publ)			402030
Bucharest Stock Exchange			402030	Catena AB (publ)			601020
Budapesti Elektromos Muve	55		551010	Catering International &	20	2020	202010
Budimex SA	20	2010	201030	CBo Territoria Société An			601020
Bulten AB (publ)	25	2510	251010	cBrain A/S	45	4510	451030
Bumech S.A.	20	2020	202010	CCC S.A.	25	2520	
Bunzl plc	20	2010	201070	CD Projekt S.A.	45	4510	451030
Burberry Group plc	25	2520	252030	Ceconomy AG	25	2550	255040
Bure Equity AB			402030	CellaVision AB (publ)	35	3510	351010
Bureau Veritas SA	20	2020	202020	Cembre S.p.A.	20	2010	201040
Burelle SA	25	2510	251010	Cementir Holding S.p.A.	15		151020
Business & Decision SA	45	4510	451020	CENIT Aktiengesellschaft	45	4510	451030
Buzzi Unicem SpA	15		151020	Cenkos Securities plc			402030
BWT Aktiengesellschaft	20	2020	202010	Central Asia Metals Plc	15		151040
Bygghmax Group AB (publ)	25	2550	255040	Central Cooperative Bank			401010
Bytom S.A.	25	2520	252030	Centrale del Latte d'Ital	30	3020	302020
C&C Group plc	30	3020	302010	Centrica plc	55		551030
CA Immobilien Anlagen AG			601020	CENTROTEC Sustainable AG	20	2010	201020
CAD IT S.p.A.	45	4510	451030	Centrum Medyczne ENEL-MED	35	3510	351020
Caffyns plc	25	2550	255040	Centrum Nowoczesnych Tech	20	2010	201030
Cairo Communication S.p.A	25	2540		Ceramika Nowa Gala SA	20	2010	201020
Caisse Reg. de Credit Agr			401010	CEWE Stiftung & Co. KGaA	20	2020	202010
Caisse Régionale Crédi A			401010	CEZ, a. s.	55		

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Charles Stanley Group plc			402030	Constantin Medien AG	25	2540	
Charles Taylor plc			403010	Construcciones y Auxiliar	20	2010	201060
Chelverton Small Companie			402030	Constructions Industriell	20	2020	202010
Chemring Group plc	20	2010	201010	ContextVision AB (publ)	35	3510	351030
Cherry AB (publ)	25	2530	253010	Continental Aktiengesells	25	2510	251010
Chesnara plc			403010	Cosmo Pharmaceuticals N.V	35	3520	352020
Chimimport AD	20	2010	201050	Costain Group plc	20	2010	201030
Churchill China plc	25	2520	252010	Courtois S.A.			601020
CIE Automotive, S.A.	25	2510	251010	Cpl Resources plc	20	2020	202020
Cineworld Group plc	25	2540		C-QUADRAT Investment AG			402030
Citycon Oyj			601020	CR Capital Real Estate AG			601020
Clas Ohlson AB (publ)	25	2550	255040	Cramo Oyj	20	2010	201070
Clasquin S.A.	20	2030	203010	Craneware plc	35	3510	351030
Clínica Baviera, S.A.	35	3510	351020	Cranswick plc	30	3020	302020
Clinigen Group Plc	35			Credit Agricole S.A.			401010
Cloetta AB (publ)	30	3020	302020	Credito Emiliano S.p.A.			401010
CLS Holdings plc			601020	Croda International plc	15		151010
CNP Assurances SA			403010	CropEnergies AG	10		101020
CNTEE Transelectrica S.A.	55		551010	CSP International Fashion	25	2520	252030
Cofina, SGPS, S.A.	25	2540		CTS Eventim AG & Co. KGaA	25		
Cohort PLC	20			CTT Systems AB	20	2010	201010
Coil S.A./N.V.	15		151040	CVS Group plc	35	3510	351020
Colas SA	20	2010	201030	Cyfrowy Polsat S.A.	25	2540	
Colian Holding S.A.	30	3020	302020	D4t4 Solutions Plc	45	4510	451020
Coloplast A/S	35	3510	351010	Daejan Holdings plc			601020
Columbus A/S	45	4510	451020	Daimler AG	25	2510	251020
Comarch S.A.	45	4510	451030	Dairy Crest Group plc	30	3020	302020
comdirect bank Aktiengese			401010	Dalenys	45	4510	451010
Communis plc	20	2020	202010	Dalet S.A.	45	4510	451030
Comp S.A.	45	4510	451020	Damartex	25	2520	252030
Compagnie de Saint-Gobain	20	2010		Danieli & C. Officine Mec	20	2010	201060
Compagnie d'Entreprises C	20	2010	201030	Danone	30	3020	
Compagnie du Bois Sauvage			402010	Dart Group plc	20	2030	203020
Compagnie Du Mont-Blanc	25	2530	253010	Dassault Aviation SA	20	2010	201010
Compagnie Générale Établi	25	2510	251010	Dassault Systèmes SE	45	4510	451030
Compagnie Industrielle Fi	20	2010	201030	DATA MODUL Aktiengesellsc	45	4520	452030
Compagnie Lebon			402030	DATAGROUP SE	45	4510	451020
Compagnie Parisienne de C	55		551030	Datalex plc	45	4510	451010
Compagnie Plastic Omnium	25	2510	251010	Datalogic S.p.A.	45	4520	452030
Compass Group PLC	25	2530	253010	Davide Campari-Milano S.p	30	3020	302010
CompuGroup Medical Societ	35	3510	351030	Debenhams plc	25	2550	
Computacenter plc	45	4510	451020	Deceuninck NV	20	2010	201020
Concentric AB (publ)	20	2010	201060	Dechra Pharmaceuticals pl	35	3520	352020
Concurrent Technologies p	45	4520	452020	Decora S.A.	25	2520	252010
Consort Medical plc	35	3510		Dedicare AB	35	3510	351020

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Delfingen Industry S.A.	25	2510	251010	Drillisch AG	50	501020
Delignit AG	15		151050	DS Smith Plc	15	151030
Delko S.A.	25	2550	255010	DSV A/S	20	2030
De'Longhi S.p.A.	25	2520	252010	Dunelm Group plc	25	2550 255040
Delta Plus Group	20	2020	202010	Duni AB (publ)	25	2520 252010
Delticom AG	25	2550	255020	Dürkopp Adler AG	20	2010 201060
DEMIRE Deutsche Mittelsta			601020	EASY SOFTWARE AG	45	4510 451030
Derichebourg	20	2020	202010	easyJet plc	20	2030 203020
Deufol SE	20	2030	203010	Ebro Foods, S.A.	30	3020 302020
Deutsche Balaton AG			402030	ECA SA	20	2010 201010
Deutsche Beteiligungs AG			402030	Eckert & Ziegler BEBIG S.	35	3510 351010
Deutsche Börse Aktiengese			402030	Eckert & Ziegler Strahlen	35	
Deutsche EuroShop AG			601020	Eckoh Plc	45	4510 451020
Deutsche Lufthansa Aktien	20			ECO Animal Health Group p	35	3520 352020
Deutsche Post AG	20	2030	203010	ecotel communication ag	50	
Deutsche Real Estate AG			601020	edding AG	20	2020 202010
Deutsche Telekom AG	50			EDP - Energias de Portuga	55	
Deutsche Wohnen SE			601020	EDP Renováveis, S.A.	55	551050
DEUTZ Aktiengesellschaft	20	2010	201060	egetæpper a/s	25	2520 252010
Devoteam SA	45	4510	451020	Ei Group plc	25	2530 253010
Devro plc	30	3020	302020	EI Towers S.p.A	50	501010
Dewhurst plc	20	2010	201040	Eifelhöhen-Klinik AG	35	3510 351020
DFDS A/S	20	2030		Eiffage SA	20	2010 201030
Diageo plc	30	3020	302010	Einhell Germany AG	25	2520 252010
Dialog Semiconductor Plc	45	4530		Elanders AB (publ)	20	2020 202010
DiaSorin S.p.A.	35	3510	351010	Elecnor, S.A.	20	2010 201030
DIC Asset AG			601020	Élecster Oyj	20	2010 201060
Diebold Nixdorf Aktienges	45	4520	452020	Electra Gruppen AB	25	2550 255040
Dierig Holding AG	25	2520	252030	Electra Private Equity Pl		402030
D'leteren SA	25			Electricité de France S.A	55	551010
Digital Bros S.p.A.	45	4510	451030	Électricite de Strasbourg	55	551010
Dillistone Group Plc	45	4510	451030	Electrocomponents plc	45	4520 452030
discoverIE Group plc	45	4520	452030	Elekta AB (publ)	35	3510 351010
Distribuidora Internacion	30	3010		Elektrobudowa SA	20	2010
DLSI	20	2020	202020	Elektrotim S.A.	20	2010 201040
DMG Mori Aktiengesellscha	20	2010	201060	Elemental Holding S.A.	20	2020 202010
DO & CO Aktiengesellschaf	25	2530	253010	Elementis plc	15	151010
Dom Security	45	4520	452030	Elhim-Iskra JSC	20	2010 201040
Domino's Pizza Group plc	25	2530	253010	Elia System Operator SA	55	551010
Doro AB (publ)	45	4520	452020	Elica S.p.A.	25	2520 252010
dotDigital Group Plc	45	4510	451030	Elisa Oyj	50	501010
Dovre Group Plc	20	2020	202020	ELMOS Semiconductor AG	45	4530
DPA Group N.V.	20	2020	202020	Elos Medtech AB (publ)	35	3510 351010
Drax Group plc	55		551050	ElringKlinger AG	25	2510 251010
Drillcon AB	15		151040	Eltrak S.A.	20	2010 201070

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Elverket Vallentuna AB (p	55		551010	Eutelsat Communications S	25	2540	
Emak S.p.A.	25	2520	252010	EVN AG	55		551010
EMIS Group plc	35	3510	351030	Evolis SA	45		
Emperia Holding S.A.	30	3010		Evotec AG	35	3520	
Empresaria Group plc	20	2020	202020	EVS Broadcast Equipment S	45	4520	452010
Enagás, S.A.	10		101020	eWork Group AB (publ)	45	4510	451020
ENCE Energía y Celulosa,	15		151050	Exacompta Clairefontaine	15		151050
Endesa, S.A.	55		551010	exceet Group SE	45	4520	452030
Enea AB (publ)	45	4510	451020	Exel Composites Oyj	20	2010	201060
Enel SpA	55		551010	Exmar NV	10		101020
Energiekontor AG	55		551050	Exor N.V.			402010
Enervit S.p.A.	30	3030	303020	Exprivia S.p.A.	45	4510	451030
Eolus Vind AB	20	2010	201030	F&C Capital and Income In			402030
EP Global Opportunities T			402030	F&C Global Smaller Compan			402030
EPC Groupe	15		151010	F&C Private Equity Trust			402030
eQ Oyj			402030	F. Ramada Inwestimentos,	15		151040
Erbud S.A.	20	2010	201030	F.G. Europe S.A.	25	2550	255010
Ercros, S.A.	15		151010	Fabasoft AG	45	4510	451030
ERG S.p.A.	55		551050	Fabryka Obrabiarek RAFAME	20	2010	201060
ERG Spółka Akcyjna	15		151010	Fabryki Mebli Forte Spółk	25	2520	252010
Ergis S.A.	15		151010	Fabryki Sprzetu i Narzedz	20	2010	201060
Ericsson Nikola Tesla d.d	45			Faes Farma, S.A.	35	3520	352020
ESI Group SA	45	4510	451030	Famur S.A.	20	2010	201060
ESOTIQ & Henderson S.A.	25	2520	252030	Fast Finance S.A.			402020
Esprinet S.p.A.	45	4520	452030	Faurecia S.A.	25	2510	251010
Essilor Int'l Société Ano	35	3510	351010	Fazerles AD	15		151050
ES-System Spółka Akcyjna	20	2010		FBD Holdings plc			403010
Észak-magyarországi Árams	55		551010	Feelgood Svenska AB (publ)	35	3510	351020
Etablissements Maurel & P	10		101020	Fenner PLC	20	2010	201060
Etn. Fr. Colruyt NV	30	3010		Ferrexpo Plc	15		151040
Euler Hermes Group SA			403010	FERRO S.A.	20	2010	201020
Eurazeo SE			402010	Ferrovial, S.A.	20		
Euro Ressources S.A.	15		151040	Fiat Chrysler Automobiles	25	2510	251020
Eurocash S.A.	30	3010		Fidelity Asian Values PLC			402030
Eurocon Consulting AB (pu	20	2020	202020	Fidelity Investment Trust			402030
Eurofins Scientific SE	35	3520		Fidessa group plc	45	4510	451030
EUROINS Insurance plc			403010	Fidia S.p.A.	20	2010	201060
EuroInvestor.com A/S	45	4510	451010	Fielmann AG	25	2550	255040
EUROKAI GmbH & Co. KGaA	20	2030	203050	Financière de l'Odet SA	20	2030	203010
Euromedis Groupe	35	3510	351010	Finsbury Food Group Plc	30	3020	302020
Euronav NV	10		101020	Finsbury Growth & Income			402030
European Reliance Gen. In			403010	FinTech Group AG			402030
Europejskie Centrum Odszk			403010	First Derivatives plc	45	4510	
Euro-Tax.pl S.A.			402010	First Investment Bank AD			401010
Eurotel S.A.	45	4520	452030	First Sensor AG	45	4530	

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Firstgroup plc	20	2030	203040	Gerry Weber International	25		
Fiskars Oyj Abp	25	2520	252010	GETECH Group Plc	10		101010
Flcury Michon SA	30	3020	302020	Getin Holding S.A.			401010
Flexopack Soc. Anonyme Pl	15		151030	Getin Noble Bank S.A.			401010
Flour Mills Keponos S.A.	30	3020	302020	Getinge AB	35	3510	
FLSmidth & Co. A/S	20			Getlink	20	2030	203050
Flügger A/S	15		151010	GFI Informatique SA	45	4510	451020
Flughafen Wien Aktiengese	20	2030	203050	GFT Technologies SE	45	4510	451020
FNM S.p.A.	20	2030	203040	GIMV NV			402030
Folli-Follie Commercial M	25			GK Software AG	45	4510	451030
Foreign & Colonial Invest			402030	GL Events	20	2020	202010
FORIS AG			402010	Glanbia plc	30		
Formpipe Software AB	45	4510	451030	GlaxoSmithKline plc	35	3520	352020
Fortec Elektronik AG	45	4520		GO p.l.c.	50		501010
Fortum Oyj	55		551010	Goals Soccer Centres plc	25	2530	253010
Fortuna Entertainment Gro	25	2530	253010	Gobarto S.A.	30	3020	302020
freenet AG	50		501020	Gooch & Housego PLC	45	4520	452030
Frenkel Topping Group Plc			402030	GORENJE, d.d.	25	2520	252010
Fresnillo PLC	15		151040	Gr. Sarantis S.A.	30	3030	
FRIWO AG	20	2010	201040	Grafenia Plc	20	2020	202010
Fromageries Bel	30	3020	302020	Graines Voltz	25	2550	255010
FRoSTA Aktiengesellschaft	30	3020	302020	Grammer Aktiengesellschaft	25	2510	251010
Funespaña, S.A.	25	2530		Greek Organization of Foo	25	2530	253010
FW Thorpe Plc	20	2010	201040	Greencore Group plc	30	3020	302020
G4S plc	20	2020	202010	Greene King plc	25	2530	253010
G5 Entertainment AB (publ	45	4510	451030	Greenyard NV	30	3020	302020
Gabriel Holding A/S	25	2520	252030	Greggs plc	25	2530	253010
Galaxidi Marine Farm S.A.	30	3020	302020	Grenke AG			402010
Gama Aviation Plc	20	2030	203020	Gresham Technologies plc	45	4510	
Games Workshop Group PLC	25	2520		Grifols, S.A.	35	3520	352010
Gas Natural SDG, S.A.	55			Grodno Spółka Akcyjna	20	2010	201070
Gas Plus S.p.A.	10		101020	Groupe Bruxelles Lambert			402010
Gattaca plc	20	2020	202020	Groupe CRIT SA	20	2020	202020
Gaumont SA	25	2540		Groupe Gorgé SA	20	2010	201060
GB Group plc	45	4510	451030	Groupe Guillin S.A.	15		151030
GEA Group Aktiengesellsch	20	2010	201060	Groupe Laurent-Perrier	30	3020	302010
GEDI Gruppo Editoriale S.	25	2540		Groupe LDLC	25	2550	255020
Gelsenwasser AG	55		551030	Groupe Open	45	4510	451020
General Commercial & Indu	20	2010	201070	Groupe Pizzorno Environne	20	2020	202010
Generic Sweden AB	45	4510	451020	Grupa Azoty Zakłady Chemi	15		151010
Generix SA	45	4510	451030	Grupa Kapitalowa IMMOBILE	20	2010	201050
Genting Singapore PLC	25	2530	253010	Grupa Kety S.A.	15		151040
Geox S.p.A.	25	2520	252030	Grupa Zywiec S.A.	30	3020	302010
Gérard Perrier Industrie	20	2010	201040	Grupo Catalana Occidente,			403010
Geratherm Medical AG	35	3510	351010	Guerbet SA	35	3510	351010

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Guideline Geo AB (publ)	10		101010	HOCHTIEF Aktiengesellscha	20	2010	201030
Gunnebo AB	20	2020	202010	HolidayCheck Group AG	45	4510	451010
H & M Hennes & Mauritz AB	25	2550	255040	Holland Colours NV	15		151010
H&R GmbH & Co. KGaA	15		151010	HomeMaid AB (publ)	25	2530	
HAEMATO AG	35	3510	351020	HomeServe plc	20	2020	202010
Haldex AB (publ)	20	2010	201060	Hopscotch Global PR Group	25	2540	
Halfords Group plc	25	2550	255040	Hornbach Baumarkt AG	25	2550	255040
Halma plc	45	4520	452030	House of Friends AB (publ)	25	2540	
Hamburger Hafen und Logis	20	2030	203050	Howden Joinery Group Plc	20	2010	201070
Hannover Rück SE			403010	Hrvatski Telekom d.d.	50		501010
Harboes Bryggeri A/S	30	3020	302010	HSBC Trinkaus & Burkhardt			401010
Hargreaves Lansdown plc			402030	Hugo Boss AG	25	2520	252030
Hargreaves Services Plc	10		101020	Huhtamäki Oyj	15		151030
Harper Hygienics S.A.	30	3030	303020	HUP-Zagreb d.d.	25	2530	253010
Harvey Nash Group plc	20	2020	202020	Husqvarna AB (publ)	25	2520	252010
Haulotte Group SA	20	2010	201060	Hypoport AG			402010
Havas SA	25	2540		I.M.A. Industria Macchine	20	2010	201060
Hawesko Holding Aktienges	30	3010		i:FAO Aktiengesellschaft	45	4510	451030
Hays plc	20	2020	202020	IAR Systems Group AB (pub	45	4510	451030
Headlam Group plc	25	2550	255010	IASO S.A.	35	3510	351020
Heineken N.V.	30	3020	302010	Iberdrola, S.A.	55		
Hellenic Exchanges			402030	Iberpapel Gestión, S.A.	15		151050
Hellenic Telecommunicatio	50			Ibersol, S.G.P.S., S.A.	25	2530	253010
Henderson European Focus			402030	IC Group A/S	25	2520	252030
Henderson EuroTrust plc			402030	ICG Enterprise Trust PLC			402030
Henderson High Income Tru			402030	ID Logistics Group SA	20	2030	203010
Henderson Opportunities T			402030	IDI			402030
Hera S.p.A.	55			IDOX plc	45	4510	
Herald Investment Trust P			402030	IFA Hotel & Touristik Akt	25	2530	253010
Herkules S.A.	20	2010	201070	Ifa Systems Ag	35	3510	351030
Hermès International Soci	25	2520	252030	IFG Group plc			402010
Heurtey Petrochem S.A.	10		101010	IG Design Group Plc	25	2520	252010
Hexagon AB	45	4520	452030	IG Group Holdings plc			402030
Hexpol AB (Publ)	15		151010	IGE+XAO Group	45	4510	451030
HICL Infrastructure Compa			402030	Iktinos Hellas S.A.	15		151040
High Co. SA	25	2540		Iliad SA	50		501010
Highbridge Multi-Strategy			402030	Imerys SA	15		151020
Highland Gold Mining Limi	15		151040	IMI plc	20	2010	201060
Hikma Pharmaceuticals PLC	35	3520	352020	Immo Moury SCA			601020
Hill & Smith Holdings PLC	15		151040	Impax Asset Management Gr			402030
Hilton Food Group plc	30	3020	302020	Impax Environmental Marke			402030
Hiolle Industries	20	2010	201060	Impel S.A.	20	2020	202010
HiQ International AB (pub	45	4510	451020	Impexmetal S.A.	15		151040
HKScan Oyj	30	3020	302020	IMS S.A.	25	2540	
HMS Networks AB (publ)	45	4520	452030	Inchcape plc	25	2550	255010

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India Capital Growth Fund			402030	Iren SpA			55
IndigoVision Group plc	45	4520	452030	Isagro S.p.A.			15 151010
INDUS Holding AG	20	2010	201050	Isra Vision AG	45	4520	452030
Industria de Diseño Texti	25	2550	255040	IT Link SA	45	4510	451030
Indutrade AB (publ)	20	2010	201070	Itab Shop Concept AB	20	2020	202010
Infas Holding Aktiengesel	25	2540		ITE Group plc	25	2540	
Infineon Technologies AG	45	4530		Itesoft S.A.	45	4510	451030
Informa plc	25	2540		ITS Group	45	4510	451020
Infotel SA	45	4510	451020	ITV plc	25	2540	
ING Bank Slaski S.A.			401010	IVU Traffic Technologies	45	4510	451030
ING Groep N.V.			401010	Izostal Spółka Akcyjna	15		151040
Ingenico Group - GCS	45	4520	452030	J D Wetherspoon plc	25	2530	253010
init innovation in traffi	45	4510	451030	J Sainsbury plc	30	3010	
Inmarsat Plc	50		501010	Jacquet Metal Service SA	20	2010	201070
Innofactor Plc	45	4510	451010	Jadranski naftovod d.d.	10		101020
Innotec TSS AG	20	2010	201020	James Cropper plc	15		151050
Instal Kraków S.A.	20	2010	201030	James Fisher and Sons plc	10		
Installux SA	20	2010	201020	James Halstead plc	20	2010	201020
Instem plc	35	3510	351030	James Latham plc	20	2010	201070
Inter Cars S.A.	25	2550	255010	Jardine Lloyd Thompson Gr			403010
INTERFERIE Spółka Akcyjna	25	2530	253010	Jarvis Securities plc			402030
Intermediate Capital Grou			402030	JCDecaux SA	25	2540	
International Fibres Grou	20	2010	201060	JD Sports Fashion plc	25	2550	255040
International Personal Fi			402020	Jenoptik AG	45		
International Public Part			402030	Jensen-Group NV	20	2010	201060
InterParfums SA	30	3030	303020	Jerónimo Martins, SGPS, S	30	3010	
Interpump Group S.p.A.	20	2010	201060	Jeudan A/S			601020
Interquest Group PLC	20	2020	202020	JM AB (publ)	25	2520	252010
Interserve plc	20			Joh. Friedrich Behrens AG	20	2010	201020
Intertek Group plc	20	2020	202020	John Wood Group PLC	10		101010
Int'l Consolidated Airlin	20	2030	203020	Johnson Matthey Plc	15		
Introl S.A.	45	4520	452030	Johnson Service Group plc	20	2020	202010
Invesco Perpetual Enhance			402030	JPMorgan American Investm			402030
INVESCO Perpetual UK Smal			402030	JPMorgan Chinese Investme			402030
Investec plc			402030	JPMorgan Claverhouse Inve			402030
Investment AB Öresund (pu			402010	JPMorgan Global Growth &			402030
Investor AB			402010	JPMorgan Japan Smaller Co			402030
InVision Aktiengesellscha	45	4510	451030	JPMorgan US Smaller Compa			402030
iomart Group plc	45	4510	451010	JSC Latvijas Gaze	55		
Ion Beam Applications SA	35	3510	351010	Judges Scientific plc	20	2010	201060
IP Group Plc			402030	Jumbo S.A.	25	2550	255040
IPOPEMA Securities Spółka			402030	Jungheinrich Aktiengesell	20	2010	201060
Ipsen S.A.	35	3520	352020	Jupiter European Opportun			402030
Ipsos SA	25	2540		Jupiter Fund Management P			402030
IRCE S.p.A.	20	2010	201040	Jupiter US Smaller Compan			402030

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K+S Aktiengesellschaft	15			Krka, d. d.	35	3520	352020
K2 Internet S.A.	45	4510	451010	KROMI Logistik AG	20	2010	201070
K3 Business Technology Gr	45	4510	451030	Krones AG	20	2010	201060
KABE AB (publ.)	25	2520	252020	KRUK Spółka Akcyjna			402020
KAP Beteiligungs-AG	20	2010	201050	Krynicky Recykling Spółka	20	2020	202010
KappAhl AB (publ)	25	2550	255040	KSB SE & Co. KGaA	20	2010	201060
Kapsch TrafficCom AG	45	4520	452030	KTM Industries AG	25	2510	251020
KARATZIS S.A.	15		151030	KUKA Aktiengesellschaft	20	2010	201060
Karelia Tobacco Company I	30	3020		Kulmbacher Brauerei	30	3020	302010
KAS BANK N.V.			402030	Kungsleden AB			601020
Kaufman & Broad S.A.	25	2520	252010	KWS Saat SE	30	3020	302020
KBC Group NV			401010	L.D.C. S.A.	30	3020	302020
KCOM Group PLC	50		501010	La Doria SpA	30	3020	302020
KDM Shipping Public Limit	20	2030		Laboratorios Farmaceutico	35	3520	352020
Keller Group plc	20	2010	201030	Lacroix SA	45	4520	452030
Kemira Oyj	15		151010	Ladbroke's Coral Group plc	25	2530	253010
Kering SA	25			Lagardère SCA	25		
Kernel Holding S.A.	30	3020	302020	Lagercrantz Group AB (pub	45	4520	
Kerry Group plc	30	3020	302020	Laird PLC	45	4520	452030
Keskisuomalainen Oyj	25	2540		Lammhults Design Group AB	20	2020	202010
Kesla Oyj	20	2010	201060	Lanson-BCC	30	3020	302010
Keyrus S.A.	45	4510	451020	Lassila & Tikanoja Oyj	20	2020	202010
Keystone Investment Trust			402030	Latvijas Balzams AS	30	3020	302010
Keyware Technologies NV	45	4510	451020	Le Bélier S.A.	15		151040
Keyyo S.A.	50		501010	Lectra SA	45	4510	451030
Kier Group plc	20			Legrand SA	20	2010	201040
Kingfisher plc	25	2550	255040	Leifheit Aktiengesellscha	25	2520	252010
Kingspan Group plc	20	2010	201020	Lena Lighting S.A.	20	2010	201040
Kino Polska TV Spolka Akc	25	2540		Lenzing Aktiengesellschaf	15		151010
Klassik Radio AG	25	2540		Libet S.A.	15		151020
Knowit Aktiebolag (publ)	45	4510	451020	LIBURNIA RIVIERA HOTELI d	25	2530	253010
Københavns Lufthavne A/S	20	2030	203050	Lietuvos energijos gamyba	55		551050
Komerční banka, a.s.			401010	Lindab International AB	20	2010	201020
Komputronik S.A.	25	2550	255040	Linde Aktiengesellschaft	15		151010
Koncar - Elektroindustrij	20	2010	201040	Lindsell Train Investment			402030
KONE Oyj	20	2010	201060	Linedata Services S.A.	45	4510	451030
Konecranes Plc	20			Lingotes Especiales, S.A.	25	2510	251010
Koninklijke Ahold Delhaiz	30	3010		Linz Textil Holding Aktie	25	2520	252030
Koninklijke Brill NV	25	2540		Liontrust Asset Managemen			402030
Koninklijke KPN N.V.	50			Lisi S.A.	20	2010	201010
Korian	35	3510	351020	LNA Santé SA	35	3510	351020
KPS AG	45	4510	451020	L'Occitane International	25	2550	255040
Krakchemia S.A.	20	2010	201070	Logicom Public Limited	45	4520	452030
Kras d.d.	30	3020	302020	Lollands Bank A/S			401010
Kri Kri S.A.	30	3020	302020	Lookers plc	25	2550	255040

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Loomis AB (publ)	20	2020	202010	Mears Group plc	20	2020	202010
L'Oréal S.A.	30	3030	303020	Media 6 SA	25	2540	
Lotus Bakeries NV	30	3020	302020	MEDIACAP SA	25	2540	
Loulis Mills S.A.	30	3020	302020	Mediaset España Comunicac	25	2540	
Low & Bonar plc	15		151020	Medicalgorithmics S.A.	35	3510	351010
Lowland Investment Compan			402030	MEDICLIN Aktiengesellscha	35	3510	351020
LPA Group plc	20	2010	201040	Meggitt PLC	20	2010	201010
LPKF Laser & Electronics	45	4520	452030	Mekonomen AB	25	2550	255040
LPP Spolka Akcyjna	25	2520	252030	Melexis NV	45	4530	
LS telcom AG	45	4510		Meliá Hotels Internationa	25	2530	253010
Lubawa S.A.	20	2010	201010	Melker Schörling AB			402030
Lubelski Wegiel Bogdanka	10		101020	Melrose Industries PLC	20		
LUDWIG BECK am Rathauseck	25	2550		Mensch und Maschine Softw	45	4510	451030
LUG S.A.	20	2010	201040	Merck Kommanditgesellschaft	35	3520	352020
Luka Koper d.d.	20	2030	203050	Mercor SA	20	2010	201020
Luxempart S.A.			402030	Métropole Télévision S.A.	25	2540	
Luxtistica Group S.p.A.	25	2520	252030	Metsä Board Oyj	15		151050
M&C Saatchi plc	25	2540		Metso Corporation	20	2010	201060
M.P. Evans Group plc	30	3020	302020	Mevaco S.A.	20	2010	201060
M.W. Trade Spółka Akcyjna			402030	MeVis Medical Solutions A	35	3510	351030
M+S Hydraulic AD	20	2010	201060	Mex Polska Spółka Akcyjna	25	2530	253010
MacFarlane Group plc	20	2010	201070	MGI Coutier SA	25	2510	251010
Magyar Telekom Telecommun	50		501010	Michelmersh Brick Holding	15		151020
Mainova AG	55		551030	Micro Systemation AB	45	4510	451030
Maisons France Confort S.	25	2520	252010	Microgen plc	45	4510	451030
Majedie Investments PLC			402030	Microwave Vision S.A.	45	4520	452010
Makarony Polskie S.A.	30	3020	302020	Mid Wynd International In			402030
Makheia Group Société Ano	25	2540		Midsona AB (publ)	30	3030	303020
Malmbergs Elektriska AB (20	2010	201070	Millennium & Copthorne Ho	25	2530	253010
MAN SE	20	2010	201060	Millicom International Ce	50		501020
Mangata Holding S.A.	20	2010	201060	Miquel y Costas & Miquel,	15		151050
Manitou BF SA	20	2010	201060	MIRBUD Spółka Akcyjna	20	2010	201030
Manutan International SA	25	2550	255020	Misen Energy AB (publ)	10		101020
Mapfre, S.A.			403010	Mitchells & Butlers plc	25	2530	253010
Marimekko Oyj	25	2520	252030	Mitie Group plc	20		
MARR S.p.A.	30	3010		Miton Global Opportunitie			402030
Marshalls plc	15		151020	Miton Group plc			402030
Martin Currie Global Port			402030	MJ Gleeson plc	25	2520	252010
Maschinenfabrik Berthold	20	2010	201060	MLP SE			402030
Masterflex SE	20	2010	201060	Mobile Streams Plc	45	4510	451010
Mattioli Woods PLC			402030	Modern Times Group Mtg AB	25	2540	
MAX Automation SE	20	2010	201060	MOL Magyar Olaj- es Gazip	10		101020
Mayr-Melnhof Karton AG	15			MonBat AD	20	2010	201040
mBank S.A.			401010	Mondi plc	15		151050
McBride plc	30	3030	303010	Mondo TV S.p.A.	25	2540	

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Moneysupermarket.com Grou	45	4510	451010	Nexus AG	35	3510	351030
Monnari Trade S.A.	25	2520	252030	NGS Group AB (publ)	35	3510	351020
Moss Bros Group plc	25	2550	255040	Nice S.p.A.	45	4520	452030
Mota-Engil, SGPS, S.A.	20	2010	201030	Nichols plc	30	3020	302010
Mountview Estates P.L.C.			601020	NKT A/S	20	2010	201040
Moury Construct SA	20	2010	201030	NMC Health Plc	35	3510	351020
Mpac Group plc	20	2010	201060	Nobia AB (publ)	25	2520	252010
MQ Holding AB	25	2550	255040	Nokian Renkaat Oyj	25	2510	251010
MS Industrie AG	20	2010	201060	Nordex SE	20	2010	201040
MS INTERNATIONAL plc	20	2010		Nordfyns Bank A/S			401010
MTU Aero Engines AG	20			Nordwest Handel AG	20	2010	201070
Muehlhan AG	20			NORMA Group SE	20	2010	201060
Mulberry Group plc	25	2520	252030	North Atlantic Smaller Co			402030
Müller - Die lila Logisti	20	2030	203010	Northbridge Industrial Se	20	2010	201060
Münchener Rückversicherun			403010	Northern Investors Compan			402030
Murgitroyd Group plc	20	2020	202020	Northgate plc	20	2030	203040
Muza S.A.	25	2540		NOS, S.G.P.S., S.A.	25	2540	
MVV Energie AG	55		551030	NOTE AB	45	4520	452030
Mycronic AB (publ)	45	4520	452030	Novabase SGPS SA	45	4510	451020
N Brown Group plc	25	2550	255020	Novae Group Plc			403010
N.V. Nederlandsche Appara	45	4520	452030	Novita S.A.	25	2520	252030
Nabaltec AG	15		151010	Novo Nordisk A/S	35	3520	352020
Nanogate AG	15		151010	Novotek AB	45	4510	451020
National Express Group PL	20	2030	203040	Novozymes A/S	15		151010
National Grid plc	55			NRJ Group SA	25	2540	
Natixis S.A.			402030	NSC Groupe SA	20	2010	201060
NAXS AB (publ)			402030	NSE Industries SA	20	2010	201010
NCC Group plc	45	4510	451020	NTT System S.A.	45	4520	452020
Nederman Holding AB (publ)	20	2010	201020	Numis Corporation Plc			402030
Nemetschek SE	45	4510	451030	NV Bekaert SA	15		151040
Neopost S.A.	45	4520	452020	O2 Czech Republic a.s.	50		501010
Net Insight AB (publ)	45	4520	452010	Ocado Group plc	25	2550	255020
Netcall plc	45	4510	451030	Odd Molly International A	25	2520	
NetEnt AB (publ)	45	4510	451010	OEM International AB (pub	20	2010	201070
Netia S.A.	50		501010	Oeneo SA	15		151030
Netmedia Spółka Akcyjna	25	2550	255020	OHB SE	20	2010	201010
NEUCA SA	35	3510	351020	Oil & Gas Exploration & P	10		101020
Neurones S.A.	45	4510	451020	Oldenburgische Landesbank			401010
Neurosoft Software Produc	45	4510	451030	Olvi Oyj	30	3020	302010
New Wave Group AB (publ)	25			Olympic Entertainment Gro	25	2530	253010
Neways Electronics Intern	45	4520	452030	Omega Diagnostics Group P	35	3510	351010
Newsphone Hellas SA	50		501010	OMV Aktiengesellschaft	10		101020
NEX Group plc			402030	OMV Petrom S.A.	10		101020
Next Fifteen Communicatio	25	2540		Oponeo.pl S.A.	25	2550	255010
Next Plc	25	2550		OPTeam Spółka Akcyjna	45	4520	452030

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Opus Group AB (publ)	45	4520	452030	Per Aarsleff Holding A/S	20	2010	201030
Orange Belgium S.A.	50		501020	Pernod Ricard SA	30	3020	302010
Orange Polska S.A.	50		501010	Perpetual Income and Grow			402030
Orange S.A.	50			Persimmon plc	25	2520	252010
Oranjewoud N.V.	20	2010	201030	Petards Group plc	45	4510	451030
Orapi	15		151010	Petro Welt Technologies A	10		101010
ORBIS AG	45	4510	451020	Petrol d.d.	25	2550	255040
Orbis Spółka Akcyjna	25	2530	253010	Petrolina (Holdings) Publ	10		101020
Orchestra-Prémaman S.A.	25	2520	252030	Pfeiffer Vacuum Technolog	20	2010	201060
Origin Enterprises plc	30	3020	302020	pferdewetten.de AG	25	2530	253010
Oriola Oyj	35	3510	351020	Pfleiderer Group Spółka A	15		151050
Orion Oyj	35	3520	352020	PGE Polska Grupa Energety	55		551010
ORPEA Société Anonyme	35	3510	351020	Pharma Mar, S.A.	35	3520	
Orzel Bialy S.A.	20	2020	202010	Pharmagest Interactive SA	35	3510	351030
Österreichische Post AG	20	2030	203010	Philip Morris CR a.s.	30	3020	
OTP Bank Plc.			401010	Photo-Me International pl	25	2520	252020
Ottakringer Getränke AG	30	3020	302010	Piaggio & C. SpA	25	2510	251020
OVB Holding AG			402030	Picanol NV	20	2010	201060
Ovostar Union N.V.	30	3020	302020	Piquadro S.p.A.	25	2520	252030
Oxford Instruments plc	45	4520	452030	Piraeus Port Authority S.	20	2030	203050
Oxford Metrics plc	45	4510	451030	Piscines Desjoyaux SA	25	2520	252020
Pacific Horizon Investmen			402030	PKC Group Oyj	20	2010	201040
Paddy Power Betfair plc	25	2530	253010	Plaisio Computers S.A.	25	2550	255040
Paged S.A.	15		151050	Plastics Capital plc	15		
PageGroup plc	20	2020	202020	Plava laguna d.d.	25	2530	253010
Palfinger AG	20	2010	201060	PMPG Polskie Media SA	25	2540	
Panariagroup Industrie Ce	20	2010	201020	PNE Wind AG	20	2010	201040
Pandora A/S	25	2520	252030	Podravka d.d.	30	3020	302020
Pantheon International PL			402030	Pohjois-Karjalan Kirjapai	25	2540	
Papeles y Cartones de Eur	15			Polar Capital Holdings pl			402030
Paperpack A.B.E.E.	15		151030	Polar Capital Technology			402030
Paragon AG	25	2510	251010	Polenergia SA	55		551050
Parmalat S.p.A.	30	3020	302020	Polmed S.A.	35	3510	351020
Passat Société Anonyme	25	2550	255020	Polna Spółka Akcyjna	20	2010	201060
Patentus S.A.	20	2010	201060	Polska Grupa Odlewnicza S	15		151040
Paul Hartmann AG	35	3510	351010	Polytec Holding AG	25	2510	251010
PayPoint plc	20	2020	202010	Ponsse Oyj	20	2010	201060
PCAS SA	35	3520		Poolia AB (publ)	20	2020	202020
PCC Exol Spółka Akcyjna	15		151010	Portmeirion Group plc	25	2520	252010
PCC Intermodal S.A.	20	2030	203040	Porvair plc	20	2010	201060
Pegas Nonwovens S.A.	25	2520	252030	Poujoulat SA	20	2010	201020
PEH Wertpapier AG			402030	Powszechna Kasa Oszczedno			401010
Pendragon PLC	25	2550	255040	Powszechny Zaklad Ubezpie			403010
Pennant International Gro	45	4510	451030	Pozavarovalnica Sava, d.d			403010
Pennon Group Plc	55		551040	Prada S.p.A	25	2520	252030

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Pragma Faktoring Spolka A			402010	Raute Oyj	20	2010	201060
Precia SA	20	2010	201060	Rawlplug S.A.	20	2010	201060
Precio Fishbone AB (publ)	45	4510	451020	Real Good Food plc	30	3020	302020
Prevas AB	45	4510	451020	RealDolmen NV	45	4510	
Pricer AB (publ)	45	4520	452030	Reckitt Benckiser Group p	30	3030	303010
Prim, S.A.	35	3510	351010	Record plc			402030
Prima Industrie S.p.A.	20	2010	201060	Recordati S.p.A.	35	3520	352020
Prime Office A/S			601020	Red Eléctrica Corporación	55		551010
Privredna banka Zagreb dd			401010	Redde plc	20	2030	203040
Proact IT Group AB (publ)	45	4510	451020	Redrow plc	25	2520	252010
Proactis Holdings Plc	45	4510	451030	Reinet Investments S.C.A.			402030
Probi AB (publ)	35	3520	352010	Rejlers AB	20	2020	202020
Procad Spółka Akcyjna	25	2550	255040	Relpol S.A.	20	2010	201040
Proeware	45	4510	451020	RELX PLC	20	2020	202020
Profile Systems & Softwar	45	4510	451030	Rémy Cointreau SA	30	3020	302010
ProfilGruppen AB	15		151040	REN - Redes Energéticas N	55		
Progress Werk Oberkirch A	25	2510	251010	Renault SA	25	2510	251020
Prosegur Compañía de Segur	20	2020	202010	Renew Holdings plc	20	2010	201030
Protektor S.A.	25	2520	252030	Renishaw plc	45	4520	452030
Provident Financial plc			402020	Renk Aktiengesellschaft	25	2510	251010
Proximus PLC	50		501010	Reno De Medici S.p.A.	15		151030
Prudential plc			403010	Renold plc	20	2010	201060
Prysmian S.p.A.	20	2010		Renta 4 Banco, S.A.			402030
Przedsiębiorstwo Hydraulii	20	2010	201060	Reply S.p.A.	45	4510	451020
Przedsiębiorstwo Produkcyj	15		151050	Repsol, S.A.	10		101020
PSB Industries	15		151030	Resilux NV	15		151030
PSI Software AG	45	4510	451030	Revenio Group Oyj	35	3510	351010
Publicis Groupe S.A.	25	2540		Rexel S.A.	20	2010	201070
PUMA SE	25	2520	252030	Rezidor Hotel Group AB (p	25	2530	253010
PZ Cussons Plc	30	3030	303010	RHI Magnesita N.V.	15		151020
QinetiQ Group Plc	20	2010	201010	Rhön-Klinikum Aktiengesel	35	3510	351020
R. Stahl AG	20	2010	201060	RIB Software SE	45	4510	451030
R.E.A. Holdings plc	30	3020	302020	Ricardo plc	20	2020	202020
Rába Járóipari Holding N	20	2010	201060	Richter Gedeon Vegyészeti	35	3520	352020
Rafako S.A.	20	2010	201060	Rio Tinto plc	15		151040
Raiffeisen Bank Internati			401010	RM Plc	45		
Rainbow Tours Spolka Akcyj	25	2530	253010	Robert Walters PLC	20	2020	202020
Raisio plc	30	3020	302020	Robinson plc	15		151030
Ramirent Oyj	20	2010	201070	Rokiskio Suris AB	30	3020	302020
Randstad Holding NV	20	2020	202020	Rolls-Royce Holdings plc	20	2010	
Rank Progress S.A.			601020	Rosenbauer International	20	2010	201060
Rapala VMC Corporation	25			Rothschild & Co SCA			402030
Rathbone Brothers plc			402030	Rottneros AB (publ)	15		151050
RATIONAL Aktiengesellscha	20	2010	201060	Roularta Media Group NV	25	2540	
Ratti S.p.A.	25	2520	252030	Royal Boskalis Westminste	20	2010	201030

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Royal Dutch Shell plc	10		101020	Schroder Income Growth Fu			402030
Royal Unibrew A/S	30	3020	302010	Schroder Japan Growth Fun			402030
RPC Group Plc	15		151030	Schroder UK Mid Cap Fund			402030
RPS Group plc	20	2020	202010	Schroders plc			402030
RS2 Software p.l.c.	45	4510	451030	Schweizer Electronic AG	45	4520	452030
RSA Insurance Group plc			403010	Science Group plc	20	2020	202020
RTL Group SA	25	2540		SciSys plc	45	4510	
RTX A/S	45	4520		SCOR SE			403010
Rubis	55			Scottish Mortgage Investm			402030
RWS Holdings plc	20	2020	202020	SEB SA	25	2520	252010
Ryanair Holdings plc	20	2030	203020	Seco/Warwick S.A.	20	2010	201060
S IMMO AG			601020	Sectra AB (publ)	35	3510	351010
S&T AG	45			secunet Security Networks	45	4510	451020
S&U plc			402020	Secure Trust Bank Plc			401010
S.C. Aerostar S.A.	20	2010	201010	Selena FM S.A.	15		151010
S.C. Mecanica Ceahlau S.A	20	2010	201060	Seneca Global Income & Gr			402030
S.C. Zentiva S.A.	35	3520	352020	Servizi Italia S.p.A.	35	3510	351020
S.N.T.G.N. Transgaz S.A.	10		101020	SES S.A.	25	2540	
S4E S.A.	45	4520	452030	SES-imagotag	45	4520	452030
Saab AB (publ)	20	2010	201010	Severfield plc	20	2010	201030
Sabaf S.p.A.	25	2520	252010	Severn Trent Plc	55		551040
Sabeton SA	30	3020	302020	SHW AG	25	2510	251010
SAES Getters S.p.A.	45	4520	452030	Siemens Gamesa Renewable	20	2010	201040
Saf-Holland S.A.	25	2510	251010	SIF Banat-Crisana			402030
Safran SA	20	2010	201010	SIF Transilvania S.A.			402030
Saga Furs Oyj	20	2020	202010	Signaux Girod S.A.	20	2030	203050
Salini Impregilo S.p.A.	20	2010	201030	SII (Société pour l'Infor	45	4510	451020
SALUS, Ljubljana, d. d.	35	3510	351020	Silkeborg IF Invest A/S	25	2540	
Salvatore Ferragamo S.p.A	25	2520	252030	SimCorp A/S	45	4510	451030
Sampo Oyj			403010	SIMONA Aktiengesellschaft	15		151010
Samse SA	25	2550	255040	Simple S.A.	45	4510	451020
Samsonite International S	25	2520	252030	SinnerSchrader Aktiengese	25	2540	
Sanderson Group Plc	45	4510	451020	SinterCast AB (publ)	20	2010	201060
Sanofi	35	3520	352020	Sioen Industries NV	25	2520	252030
SAP SE	45	4510	451030	SKAKO A/S	20	2010	201060
Sapmer SA	30	3020	302020	Skåne-möllan AB (publ)	30	3020	302020
Saponia d.d.	30	3030	303010	Skanska AB (publ)	20	2010	201030
Sartorius Stedim Biotech	35	3510	351010	SkiStar AB (publ)	25	2530	253010
SAS AB (publ)	20	2030	203020	Sky plc	25	2540	
SAVE S.p.A.	20	2030	203050	SL Private Equity			402030
Savencia SA	30	3020	302020	Sligro Food Group N.V.	30	3010	
Scandbook Holding AB	20	2020	202010	SMA Solar Technology AG	45	4530	
Scanfil Oyj	45	4520	452030	Smart Metering Systems Pl	45	4520	452030
Schloss Wachenheim AG	30	3020	302010	Smith & Nephew plc	35	3510	351010
Schneider Electric S.E.	20			SMT Scharf AG	20	2010	201060

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Smurfit Kappa Group plc	15		151030	SSE plc	55		
Snam S.p.A.	10		101020	St. James's Place plc			402030
SnowWorld N.V.	25	2530	253010	St. Modwen Properties PLC			601020
SNP Schneider-Neureither	45	4510	451020	STADA Arzneimittel Aktien	35	3520	352020
Socfinasia S.A.	30	3020	302020	Stadium Group plc	45	4520	452030
Società Cattolica di Assi			403010	Staffline Group plc	20	2020	202020
Società Iniziative Autost	20	2030	203050	Stagecoach Group plc	20	2030	203040
Societatea de Investitii			402030	Stallergenes Greer Plc	35	3520	352020
Société de Services,de Pa	30	3020	302010	Stalprodukt S.A.	15		151040
Société Française de Casi	25	2530	253010	Standard Chartered PLC			401010
Société Internationale de	15	3020	151010	Standard Life Aberdeen pl			402010
SOCO International plc	10		101020	Standard Life Equity Inco			402030
Sodifrance SA	45	4510	451020	Standard Life UK Smaller			402030
Sofina Société Anonyme			402010	Stara Planina Hold Plc	20	2010	201060
Soft Computing	45	4510	451020	Starbreeze AB (publ)	45	4510	451030
Softing AG	45			StatPro Group plc	45	4510	451030
Software Aktiengesellscha	45	4510	451030	STEF S.A.	20	2030	203040
Sogclair SA	20	2010	201010	Stelios Kanakis Industria	30	3010	
Sogefi S.p.A.	25	2510	251010	Stern Groep N.V.	25	2550	255040
Sol SpA	15		151010	SThree plc	20	2020	202020
Solar A/S	20	2010		Sto SE & Co. KGaA	15		151020
Solar Company S.A.	25	2520	252030	Stora Enso Oyj	15		
Solid State plc	45	4520	452030	Strabag SE	20	2010	201030
Solteq Oyj	45	4510	451030	STRATEC Biomedical AG	35	3510	351010
Solvay SA	15		151010	Streamwide S.A.	45	4510	451030
Somfy SA	20	2010	201040	Ströer SE & Co. KGaA	25	2540	
Sonaecom, SGPS, S.A.	50		501020	Subsea 7 S.A.	10		101010
Sonel S.A.	45	4520	452030	Südzucker AG	30	3020	302020
Sopharma AD	35			SUEZ SA	55		551030
Sopharma Trading AD	35	3510	351020	Suominen Oyj	30	3030	303010
Sopheon plc	45	4510	451030	Superdry Plc	25	2550	
Sopra Steria Group	45	4510	451020	SÜSS MicroTec SE	45	4530	
SP Group A/S	15		151010	Svedbergs i Dalstorp AB	20	2010	201020
Spar Nord Bank A/S			401010	Svejsmaskinefabrikken Mi	20	2010	201060
Spectris plc	45	4520	452030	Svenska Handelsbanken AB			401010
Spirax-Sarco Engineering	20	2010	201060	Svolder AB			402010
Spirent Communications pl	45	4520	452010	Swallowfield plc	30	3030	303020
Splendid Medien AG	25	2540		Sweco AB (publ)	20	2010	201030
Sportech PLC	25			Swedbank AB (publ)			401010
Sports Direct Internation	25	2550	255040	Swedish Orphan Biovitrum	35	3520	352010
Sprue Aegjis PLC	25	2520	252010	Swedol AB	25	2550	255040
SQLi	45	4510	451010	Sword Group S.E.	45	4510	
SQS Software Quality Syst	45	4510		Sydbank A/S			401010
SRT Marine Systems plc	45	4520	452010	Synectics plc	45		
SRV Group Plc	20	2010	201030	Synektik Spółka Akcyjna	35	3510	351030

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Synergie SE	20	2020	202020	The Berkeley Group Holdin	25	2520	252010
Synthomer plc	15		151010	The Brunner Investment Tr			402030
Synthos S.A.	15		151010	The Character Group plc	25	2520	252020
System1 Group PLC	25	2540		The City of London Invest			402030
Systemair AB (publ)	20	2010	201020	The Edinburgh Investment			402030
Szyzygy AG	25	2540		The Go-Ahead Group plc	20	2030	203040
TAKKT AG	25	2550	255020	The Independent Investmen			402030
TalkTalk Telecom Group PL	50		501010	The Law Debenture Corpora			402030
Tallinna Kaubamaja Grupp	30	3010		The Mercantile Investment			402030
Tamburi Investment Partne			402030	The Monks Investment Trus			402030
Tasty plc	25	2530	253010	The Navigator Company, S.	15		151050
Tate & Lyle plc	30	3020	302020	The North American Income			402030
TAURON Polska Energia S.A	55		551010	The Restaurant Group plc	25	2530	253010
Taylor Wimpey plc	25	2520	252010	The Sage Group plc	45	4510	451030
TDC A/S	50		501010	The Scottish American Inv			402030
Technotrans AG	20			The Scottish Investment T			402030
Técnicas Reunidas, S.A.	10		101010	The Vitec Group plc	25		
Ted Baker PLC	25	2520	252030	The Weir Group PLC	20	2010	201060
Tele2 AB (publ)	50		501020	Thermador Groupe Sociéte	20	2010	201070
Telecom Plus plc	55		551030	Thessaloniki Port Authori	20	2030	203050
Telefonaktiebolaget LM Er	45			Thessaloniki Water Supply	55		551040
Telefónica, S.A.	50		501010	Tieto Oyj	45	4510	451020
Telegraaf Media Groep N.V	25	2540		Tikkurila Oyj	15		151010
Telekom Austria Aktienges	50		501010	Tipiak Sociéte Anonyme	30	3020	302020
Telekom Slovenije d.d.	50		501010	Titan Cement Company S.A.	15		151020
Teleperformance SE	20	2020	202020	Titon Holdings plc	20	2010	201020
Teleste Corporation	45			Tivoli A/S	25	2530	253010
Télévision Française 1 SA	25	2540		Tivoly S.A.	20	2010	201060
Telia Company AB	50		501010	TKH Group N.V.	20	2010	
Telia Lietuva, AB	50		501010	TOD'S S.p.A.	25	2520	252030
Telit Communications PLC	45	4520	452010	Topdanmark A/S			403010
Tenaris S.A.	10		101010	Toscana Aeroporti S.p.A.	20	2030	203050
Ter Beke NV	30	3020	302020	Total Produce plc	30	3010	
TERMES GRUPA d.d.	30	3020	302020	TOYA Spólka Akcyjna	25	2520	252010
TERNA - Rete Elettrica Na	55		551010	TR European Growth Trust			402030
Terna Energy Societe Anon	55		551050	TR Property Investment Tr			402030
TerniEnergia S.p.A.	45			Trace Group Hold PLC	20	2010	201030
Tesco PLC	30	3010		Tracsis plc	45	4510	451030
Tesmec S.p.A.	20	2010	201060	Trakcja PRKił S.A.	20	2010	201030
Tessi SA	45	4510	451020	Trakm8 Holdings PLC	45	4520	452010
TFF Group	15		151030	Travis Perkins plc	20	2010	201070
Thales S.A.	20	2010	201010	Treatt plc	15		151010
The Alumasc Group plc	20	2010	201020	Trifast plc	20	2010	201060
The Baillie Gifford Japan			402030	Trigano S.A.	25	2520	252020
The Bankers Investment Tr			402030	Trinity Mirror plc	25	2540	

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Tristel Plc	35	3510	351010	Vestas Wind Systems A/S	20	2010	201040
Troy Income & Growth Trus			402030	Vetoquinol SA	35	3520	352020
Tryg A/S			403010	VGP NV			601020
TT Electronics plc	45	4520	452030	Vianet Group plc	45	4520	452030
Tubacex, S.A.	15		151040	VIB Vermögen AG			601020
TUI AG	25	2530	253010	Vicat SA	15		151020
Turbon AG	20	2020	202010	Victoria Park AB (publ)			601020
Turisthotel d.d.	25	2530	253010	Victoria plc	25	2520	252010
TXT e-solutions S.p.A.	45	4510	451030	Victrex plc	15		151010
Tyman plc	20	2010	201020	Videlio SA	45	4520	452030
U and I Group PLC			601020	Vidrala, S.A.	15		151030
U10 SA	25			VIEL & Cie			402030
UCB SA	35	3520	352020	Vienna Insurance Group AG			403010
UDG Healthcare plc	35	3510		Viking Line ABP	25	2530	253010
Ultra Electronics Holding	20	2010	201010	Vilmorin & Cie SA	30	3020	302020
Umanis SA	45	4510	451020	VINCI SA	20	2010	201030
UNIBEP S.A.	20	2010	201030	Virbac SA	35	3520	352020
Uniflex AB (publ)	20	2020	202020	Viro Tvornica Secera d.d.	30	3020	302020
Unilever PLC	30	3030	303020	Viscofan, S.A.	30	3020	302020
Unima 2000 Systemy Telein	50		501010	Viscom AG	45	4520	452030
Union Financiere de Franc			402030	Vistula Group Spółka Akcy	25	2520	252030
Unior Kovaska industrija	15		151040	VITA 34 AG	35	3510	351020
UNIPETROL, a.s.	15		151010	Vitec Software Group AB	45	4510	451030
Unipol Gruppo S.p.A.			403010	Vitrolife AB (publ)	35	3520	352010
UnipolSai Assicurazioni S			403010	Vittoria Assicurazioni S.			403010
UNIQA Insurance Group AG			403010	Vivendi SA	25	2540	
United Utilities Group PL	55		551040	Vodafone Group Plc	50		501020
Unlimited Travel Group UT	25	2530	253010	Voestalpine AG	15		151040
Unternehmens Invest AG			402030	Volga Gas plc	10		101020
UPM-Kymmene Oyj	15		151050	Votum S.A.			403010
Urban&Civic plc			601020	Voxel S.A.	35	3510	351020
URSUS Spółka Akcyjna	20	2010	201060	Vp plc	20	2010	201070
USU Software AG	45	4510	451030	Vranken-Pommery Monopole	30	3020	302010
Utilitywise Plc	20	2020	202020	Vseobecná úverová banka,			401010
Vaisala Oyj	45	4520	452030	VTG Aktiengesellschaft	20	2030	203040
Valeo SA	25	2510	251010	Wacker Chemie AG	15		151010
Valsoia SpA	30	3020	302020	Wacker Neuson SE	20	2010	201060
Value and Income Trust pl			402030	Walker Greenbank plc	25	2520	252010
Van De Velde NV	25	2520	252030	Warehouses De Pauw			601010
Van Lanschot Kempen NV			401010	Warehouses Estates Belgiu			601010
Vassiliko Cement Works Pu	15		151020	Wärtsilä Oyj Abp	20	2010	201060
Vastned Retail N.V.			601010	WASGAU Produktions & Hand	30	3010	
Veolia Environnement S.A.	55		551030	Washtec AG	20	2010	201060
VERBUND AG	55			WASKO Spółka Akcyjna	45	4510	451030
Vertu Motors plc	25	2550	255040	Wavestone SA	45	4510	451020

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Wawel S.A.	30	3020	302020	ZPUE S.A.	20	2010	201040
WDX S.A.	20	2010		ZUE S.A.	20	2010	201030
Wereldhave N.V.			601010	Zwack Unicum Nyrt.	30	3020	302010
WH Smith PLC	25	2550	255040	Zytronic plc	45	4520	452030
Whitbread PLC	25	2530	253010				
Wielton S.A.	20	2010	201060				
Wiener Privatbank SE			402030				
William Demant Holding A/	35	3510	351010				
William Hill plc	25	2530	253010				
WISE Group AB	20	2020	202020				
Witan Investment Trust pl			402030				
Wm Morrison Supermarkets	30	3010					
Wojas S.A.	25	2520	252030				
Work Service S.A.	20	2020	202020				
Wüstenrot & Württembergis			403010				
WYG PLC	20	2010	201030				
Wynnstay Group plc	30	3020	302020				
Xaar plc	45	4520	452020				
XANO Industri AB (publ)	20	2010	201060				
Xilam Animation	25	2540					
Xing SE	45	4510	451010				
XPO Logistics Europe SA	20	2030	203010				
YOLO S.A.			402010				
YOOX Net-A-Porter Group S	25	2550	255020				
YouGov plc	25	2540					
Young & Co.'s Brewery, P.	25	2530	253010				
Zagrebacka banka dd			401010				
Zaklady Azotowe Pulawy S.	15		151010				
Zaklady Magnezytowe ROPCZ	15		151020				
Zaklady Miesne Henryk Kan	30	3020	302020				
Zaklady Przemyslu Cukiern	30	3020	302020				
Zaklady Tluszczowe Kruszw	30	3020	302020				
Zaklady Urzadzen Komputer	45	4520	452030				
Zamet S.A.	10		101010				
Zapf Creation AG	25	2520	252020				
Zardoya Otis, S.A.	20	2010	201060				
Zavarovalnica Triglav, d.			403010				
ZEAL Network SE	25	2530	253010				
Zenitel NV	45	4520	452010				
Zespół Elektrocieplowni W	55		551030				
Zignago Vetro S.p.A.	15		151030				
Zimplats Holdings Limited	15		151040				
Zodiac Aerospace	20	2010	201010				
zooplus AG	25	2550	255020				
Zotefoams plc	15		151010				

Appendix J: GICS Codes in which Companies ("High-Financial-Risk" Set) are Included, European Union

In Appendix J, a listing of the GICS codes in which each of the companies in the set of "high-financial-risk" companies in the European Union region in the *2017 Valuation Handbook – International Industry Cost of Capital* Semi-annual Update (data through September 30, 2017) is presented.

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7C Solarparken AG	55		551050	Badel 1862 d.d.	30	3020	
A. Tsokkos Hotels Public	25	2530	253010	Balfour Beatty plc	20	2010	201030
A/S Latvijas Kugnieciba	10		101020	Banco di Sardegna S.p.A.			401010
Aalborg Boldspilklub A/S	25	2530	253010	Banimmo S.A.			601020
Acacia Mining plc	15		151040	Bavarian Nordic A/S	35	3520	
Activa Resources AG	10		101020	BBGI Sicav S.A.			402030
ADDvise Group AB (publ)	35	3510	351010	BE Group AB (publ)	20	2010	201070
AdUX SA	25	2540		Beate Uhse AG	25	2550	
Aeffe S.p.A.	25	2520	252030	Beghelli S.p.A.	20	2010	
AFC Ajax NV	25	2540		Bergs Timber AB (publ)	15		151050
AGRARIUS AG			601020	Bernard Loiseau SA	25	2530	253010
AgroGeneration SA	30	3020	302020	Beta Systems Software AG	45	4510	451030
Agromino A/S	30	3020	302020	Billboard AD	25	2540	
Agroton Public Limited	30	3020	302020	Bong AB (publ)	20	2020	202010
Air France-KLM SA	20	2030		Bourbon Corporation SA	10		101010
ALBA SE	20	2020	202010	Bremer Lagerhaus Gesellsc	20	2030	
Alerion Clean Power S.p.A	55		551050	Byte Computer SA	45	4510	451020
Alro S.A.	15		151040	Caleffi S.p.A.	25	2520	252030
Altyn Plc	15		151040	Campine NV	15		
Alumil Aluminium Industry	15		151040	Carraro SpA	20	2010	201060
Ambienthesis S.p.A.	20	2020	202010	Cast SA	45	4510	451030
Ambromobiliare S.p.A.			402030	Catalis SE	20	2020	202020
Amec Foster Wheeler plc	10		101010	Cegedim SA	35	3510	
Amper, S.A.	45	4520	452010	Centaur Media plc	25	2540	
AND International Publish	45	4510	451010	Centric Holdings S.A.	25	2530	253010
Anglo Pacific Group plc	10		101020	CGG	10		101010
Anonimi Naftiliaki Etarei	20	2030		Christie Group plc	20	2020	202020
Antevenio, S.A.	25	2540		Cimpor - Cimentos de Port	15		
APC Technology Group PLC	45	4520	452030	City of London Investment			402030
Arbuthnot Banking Group P			401010	Cliq Digital AG	45	4510	451030
Archos S.A.	45	4520		Coal Energy S.A.	10		101020
Arctic Paper S.A.	15		151050	Cobham plc	20	2010	
Arena Hospitality Group d	25	2530	253010	Codere, S.A.	25	2530	253010
Arise AB (publ)	55		551050	Cognor Holding S.A.	15		151040
Arnoldo Mondadori Editore	25	2540		Compagnie des Alpes SA	25	2530	253010
Artefact S.A.	20	2020	202020	Compagnie Industriali Riu	20		
AS Baltika	25	2520	252030	Componenta Corporation	20	2010	201060
Athena Investments A/S	55		551050	Concordia Maritime AB (pu	10		101020
Atlantska Plovidba d.d.	20	2030		Connect Group NV	45	4520	452030
Attica Holdings S.A.	20	2030		Connect Group PLC	25	2550	
AURELIUS Equity Opportuni			402030	Corbion N.V.	15		
Auriant Mining AB (publ)	15		151040	Corporación Empresarial d	20	2010	201020
Avocet Mining plc	15		151040	CPPGroup Plc	20	2020	202010
Awbud S.A.	20	2010	201030	Creta Farm S.A.	30	3020	302020
Baccarat S.A.	25	2520	252010	CS Communication & System	45	4510	451020

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Ctac N.V.	45	4510	451020	Ferrum S.A.	15		151040
CUBE.ITG SA	45	4520	452030	Fiera Milano SpA	20	2020	202010
Cyprus Trading Corporatio	25	2550		Findel plc	25	2550	
Dada S.p.A.	45	4510	451010	Finnair Oyj	20	2030	
D'Amico International Shi	10		101020	Fluxys Belgium SA	10		101020
Dampskibsselskabet Norden	20	2030		Flybe Group PLC	20	2030	
De La Rue plc	20	2020	202010	Fomento de Construcciones	20	2010	201030
DeA Capital S.p.A.			402030	Foncière Euris SA	30		
DEAG Deutsche Entertainme	25	2540		Forrás nyRt.			402030
Deoleo, S.A.	30	3020	302020	Fountain S.A.	20	2020	202010
Diagnostic and Therapeuti	35	3510	351020	Fourlis Holdings S.A.	25	2550	255040
Digia Oyj	45	4510	451020	FullSix S.p.A.	45	4510	451010
Digigram S.A.	45	4520		FUTUREN SA	55		551050
Dignity plc	25	2530		Gascogne SA	15		
Direct Energie Société An	55			Gefran S.p.A.	45	4520	452030
DNXCorp SE	45	4510	451010	GEK TERNA Holdings, Real	20	2010	201030
Driver Group plc	20	2010	201030	Genus plc	35	3520	
Dromeas SA	20	2020	202010	GfK SE	25	2540	
Drop S.A.	20	2020	202010	Glaston Oyj Abp	20		
Duro Felguera, S.A.	20	2010	201030	Glunz & Jensen Holding A/	20	2010	201060
E.ON SE	55			Götenehus Group AB (publ)	25	2520	252010
Edenred SA	20	2020	202010	Greiffenberger AG	20	2010	201060
Edison S.p.A.	55		551050	Groclin S.A.	25	2510	
EKF Diagnostics Holdings	35	3510	351010	Groupe Flo SA	25	2530	253010
Élastron S.A. - Steel Ser	15		151040	Groupe Partouche SA	25	2530	253010
Elektrocieplownia Bedzin	55			Grupo Ezentis S.A.	45	4520	452010
Elgeka S.A.	30			Gruppo Waste Italia S.p.A	20	2010	201030
Elve S.A.	25	2520	252030	Guillemot Corporation S.A	45	4520	
EMC Instytut Medyczny S.A	35	3510	351020	Guy Degrenne S.A.	25	2520	252010
EnBW Energie Baden-Württe	55			H. Lundbeck A/S	35	3520	
Encres Dubuit	15			H+H International A/S	15		
Energoinstal S.A.	20	2010	201060	Halcor Metal Works S.A.,	20	2010	201060
ENGIE SA	55			Hamon & Cie (Internationa	20	2010	201020
Eniro AB (publ)	25	2540		HanseYachts AG	25	2520	
EnQuest PLC	10		101020	Havelock Europa plc	20	2010	201030
ERAMET S.A.	15		151040	Haynes Publishing Group P	25	2540	
ErgyCapital S.p.A.	55		551050	Heidelberger Druckmaschin	20		
Erria A/S	20	2030		Hellenic Company for Tele	50		501010
Esso S.A.F.	10		101020	HF Company Société Anonym	45	4520	452010
EuKedos S.p.A.	35	3510	351020	Hochschild Mining PLC	15		151040
euromicron AG	45	4520	452010	Hogg Robinson Group plc	20	2020	202020
EVRAZ plc	15		151040	Honkarakenne Oyj	25	2520	252010
Evrofarma SA	30	3020	302020	Hornby plc	25	2520	
Fagron NV	35	3510	351020	HTI High Tech Industries	20	2010	201060
Falck Renewables S.p.A.	55		551050	Hunting plc	10		101010

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Hyperion S.A.	50	501010	Landi Renzo S.p.A.	25	2510
I.Kloukinas-I.Lappas S.A.	25	2550 255040	Larq S.A.	25	2540
ICT Group N.V.	45	4510 451030	Latécoère S.A.	20	2010
ICTA AB (publ)	20	2020 202020	Leonardo S.p.a.	20	2010
IGas Energy Plc	10	101020	Les Hotels De Paris SA	25	2530 253010
iGrandiViaggi S.p.A.	25	2530 253010	Lexibook - Linguistic Ele	25	2520 252010
Ilkka-Yhtymä Oyj	25	2540	LITGRID AB	55	
Immsi S.p.A.	25	2510	Lloyd Fonds AG		402030
Immunodiagnostic Systems	35	3510 351010	Logwin AG	20	2030
Impresa - Sociedade Gestio	25	2540	Lonmin Plc	15	151040
INA-Industrija nafte, d.d	10	101020	Luka Ploce d.d.	20	2030
Inapa - Investimentos, Pa	20	2010 201070	Lundin Petroleum AB (publ)	10	101020
Incap Oyj	45	4520 452030	m4e AG	25	2540
Independent News & Media	25	2540	Man Group plc		402030
Indra Sistemas, S.A.	45	4510 451020	Management Consulting Gro	20	2020 202020
Inform P. Lykos S.A.	20	2020 202010	Marie Brizard Wine & Spir	30	3020
Innelec Multimédia SA	45	4520 452030	Martela Oyj	20	2020 202010
Inspiration Healthcare Gr	35	3510 351010	Maternus-Kliniken Aktieng	35	3510 351020
Institut IGH d.d.	20	2010 201030	McKesson Europe AG	35	3510 351020
InterContinental Hotels G	25	2530 253010	Mediacontech S.p.A.	25	2540
InterEuropa d.d.	20	2030	Mediaset S.p.A.	25	2540
InterMail A/S	20	2020 202010	Medicrea	35	3510 351010
International Hotel Inves	25	2530 253010	MEMSCAP, S.A.	45	
INTERSHOP Communications	45	4510	Mera S.A.	20	2010 201020
InTiCa Systems AG	45	4520 452030	Milkiland N.V.	30	3020 302020
Intracom Constructions So	20	2010 201030	MNI Spółka Akcyjna	50	501010
Intralot S.A.	25	2530 253010	Monrif S.p.A.	25	2540
INVISIO Communications AB	45	4520 452010	Mostostal Zabrze S.A.	20	2010 201030
Itway S.p.A.	45	4520 452030	Mothercare plc	25	2550
J&P-Avax S.A.	20	2010 201030	Mountfield Group Plc	20	2010 201030
JKX Oil & Gas plc	10	101020	Mr. Bricolage SA	25	2550 255040
Johnston Press plc	25	2540	msg life ag	45	4510 451030
Juventus Football Club S.	25	2540	mybet Holding SE	25	2530 253010
K.R.Energy S.p.A.	55	551050	Natra, S.A.	30	3020 302020
Kabel Deutschland Holding	25	2540	Newcap Holding A/S		402030
KAZ Minerals plc	15	151040	Newmark Security plc	45	4520 452030
Kenmare Resources plc	15	151040	Nexans S.A.	20	2010
Klöckner & Co SE	20	2010 201070	NH Hotel Group, S.A.	25	2530 253010
Koenig & Bauer AG	20	2010 201060	Nicolás Correa, S.A.	20	2010 201060
Koninklijke Wessanen N.V.	30	3020 302020	Nireus Aquaculture S.A.	30	3020 302020
Kopex S.A.	20	2010 201060	Nokia Corporation	45	4520 452010
KORRES S.A. - Natural Pro	30		Nordic Shipholding A/S	20	2030
KSG Agro S.A.	30	3020 302020	Nurminen Logistics Oyj	20	2030
Lafuma SA	25	2520	Nyrstar NV	15	151040
Lampsas Hellenic Hotels S.	25	2530 253010	Obrascón Huarte Lain, S.A	20	2010 201030

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Oniva Online Group Europe	45	4510	451010	Revoil S.A.	10		101020
Ordina N.V.	45	4510	451020	RhythmOne plc	45	4510	451010
OT-Optima Telekom d.d.	50		501010	Riber S.A.	45		
Outokumpu Oyj	15		151040	RNB Retail and Brands AB	25	2550	255040
Pamapol S.A.	30	3020	302020	RoodMicrotec N.V.	45		
Papoutsanis S.A.	30			Rosss S.p.A.	20	2020	202010
Parity Group plc	45	4510	451020	RWE Aktiengesellschaft	55		
Park & Bellheimer AG	30	3020		S.C. Santierul Naval Orso	20	2010	201060
Pearson plc	25	2540		S.S. Lazio S.p.A.	25	2540	
Pebble Beach Systems Grou	45	4520	452010	Sacyr, S.A.	20		
Pelikan Aktiengesellschaft	20	2020	202010	Safilo Group S.p.A.	25	2520	252030
Petrolia SE	10		101010	SAG GEST - Soluções Autom	25	2550	
Petropavlovsk PLC	15		151040	Saipem S.p.A.	10		101010
Peugeot S.A.	25	2510		SANOCHEMIA Pharmazeutika	35	3520	
Philippos Nakas S.A.	25	2550	255040	Sanoma Oyj	25	2540	
Poligrafica S. Faustino S	20	2020	202010	Santa Fe Group A/S	20	2020	202010
Poligrafici Editoriale S.	25	2540		Saras S.p.A.	10		101020
Porta Communications Plc	25	2540		Scandinavian Brake System	25	2510	
PostNL N.V.	20	2030		Schumag Aktiengesellschaft	20	2010	201060
Pöyry PLC	20			SDL plc	45	4510	451030
Premier Foods plc	30	3020	302020	Séché Environnement SA	20	2020	202010
Premier Oil plc	10		101020	Selected Textiles S.A.	25	2520	252030
Prima Moda Spolka Akcyjna	25	2550	255040	Semapa - Sociedade de Inv	15		151050
Prochem S.A.	20			Sequana SA	15		151050
Próchnik S.A.	25	2520	252030	Serco Group plc	20	2020	202010
Progility PLC	20			SGL Carbon SE	20	2010	
Projprzem S.A.	20	2010	201020	SIG plc	20	2010	201070
Prologue S.A.	45	4510	451030	Skano Group AS	25	2520	252010
Promotora de Informacione	25	2540		SKW Stahl-Metallurgie Hol	15		151040
Prosafe SE	10		101010	Slatinska Banka d.d.			401010
Przedsiębiorstwo Handlu Z	25	2550	255040	Snaitech S.p.A.	25	2530	253010
Przetwórstwo Tworzyw Sztu	15			Société Anonyme Belge de	20	2010	
Public Power Corporation	55			Soditech SA	20	2020	202020
PZ Cormay S.A.	35	3510	351010	Solaris d.d.	25	2530	253010
Qliro Group AB (publ)	25	2550		Solocal Group S.A.	25	2540	
Quest Holdings S.A.	45			Sonae Indústria, S.G.P.S.	15		151050
Qumak S.A.	45	4510	451020	Songa Offshore SE	10		101010
Rallye SA	30			Soprano Oyj	45	4510	451010
RCS MediaGroup S.p.A.	25	2540		Speedy Hire Plc	20	2010	201070
reach4entertainment enter	25	2540		Sport Lisboa e Benfica -	25	2540	
Realia Business, S.A.			601020	Sporttotal AG	25	2540	
Recylex S.A.	15		151040	SSAB AB	15		151040
Redhall Group plc	20	2010	201030	St Ives plc	20	2020	202010
Rentokil Initial plc	20	2020	202010	Stockmann Oyj ABP	25	2550	
Retelit S.p.A.	50		501010	STV Group plc	25	2540	

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Styles&Wood Group plc	20	2020	202010	Wistil Spółka Akcyjna	25	2520	252030
Surgical Innovations Grou	35	3510	351010	Wolford Aktiengesellschaft	25	2520	252030
Swissmed Centrum Zdrowia	35	3510	351020	Wulff-Yhtiöt Oyj	25	2550	
TAG Colonia-Immobilien AG			601020	ZOO Digital Group plc	45	4510	451030
TAS Tecnologia Avanzata d	45	4510	451030				
Telecom Italia S.p.A.	50		501010				
Telenet Group Holding NV	25	2540					
TEGAS Spółka Akcyjna	55						
The 600 Group PLC	20	2010	201060				
The Royal Bank of Scotlan			401010				
TIE Kinetix N.V.	45	4510	451010				
TIM Spółka Akcyjna	20	2010	201070				
Tiscali S.p.A.	50		501010				
Tom Tailor Holding AG	25	2550					
TomTom N.V.	25	2520	252010				
Topps Tiles plc	25	2550	255040				
Toupargel Groupe SA	25	2550					
Tradedoubler AB	45	4510	451010				
TREVI - Finanziaria Indus	20	2010	201030				
Tribal Group plc	25	2530					
Tubos Reunidos, S.A.	15		151040				
Tulikivi Corporation	20	2010	201020				
Tullow Oil plc	10		101020				
Uljanik Plovidba D.D.	20	2030					
Unibios Holdings S.A.	20	2010	201060				
UniCredit S.p.A.			401010				
Unione di Banche Italiane			401010				
Urals Energy Public Compa	10		101020				
Vallourec SA	10		101010				
Vectura Group plc	35	3520					
Vedanta Resources plc	15		151040				
Velcan SA	55		551050				
Venue Retail Group AB	25	2550	255040				
Viadukt D.D.	20	2010	201030				
Victoria Properties A/S			601020				
Viking Supply Ships AB (p	20	2030					
VIOHALCO S.A.	15		151040				
Vocento, S.A.	25	2540					
Vossloh AG	20	2010	201060				
Vupik d.d.	30	3020	302020				
Watchstone Group Plc	45	4510	451020				
WH Ireland Group plc			402030				
Wienerberger AG	15						
Wild Bunch AG	25	2540					
Wincanton plc	20	2030					

Appendix K:

Companies (Main Set) in Each Industry, by GICS Code, in Eurozone

In Appendix K, a listing of companies in the main set of "healthy" companies for each GICS code in the Eurozone region in the *2017 Valuation Handbook – International Industry Cost of Capital Semi-annual Update* (data through September 30, 2017) is presented.

GICS 10

AB Klaipedos nafta
CropEnergies AG
Enagás, S.A.
Etablissements Maurel & P
Euronav NV
Exmar NV
Gas Plus S.p.A.
Heurtey Petrochem S.A.
OMV Aktiengesellschaft
Petro Welt Technologies A
Petrolina (Holdings) Publ
Repsol, S.A.
Snam S.p.A.
Subsea 7 S.A.
Técnicas Reunidas, S.A.
Tenaris S.A.

GICS 101010

Heurtey Petrochem S.A.
Petro Welt Technologies A
Subsea 7 S.A.
Técnicas Reunidas, S.A.
Tenaris S.A.

GICS 101020

AB Klaipedos nafta
CropEnergies AG
Enagás, S.A.
Etablissements Maurel & P
Euronav NV
Exmar NV
Gas Plus S.p.A.
OMV Aktiengesellschaft
Petrolina (Holdings) Publ
Repsol, S.A.
Snam S.p.A.

GICS 15

Acerinox, S.A.
Air Liquide, société anon
Akzo Nobel N.V.
Altri, S.G.P.S., S.A.
AMAG Austria Metall AG
Arkema S.A.
Aurubis AG
BASF SE
Buzzi Unicem SpA
Caltagirone SpA
Cementir Holding S.p.A.
Coil S.A./N.V.
Delnig AG
ENCE Energía y Celulosa,
EPC Groupe
Ercros, S.A.
Euro Ressources S.A.
Exacompta Clairefontaine
F. Ramada Invetimentos,
Flexopack Soc. Anonyme Pl
Groupe Guillin S.A.
H&R GmbH & Co. KGaA

Holland Colours NV
Huhtamäki Oyj
Iberpapel Gestión, S.A.
Iktinos Hellas S.A.
Imerys SA
Isagro S.p.A.
K+S Aktiengesellschaft
KARATZIS S.A.
Kemira Oyj
Le Bélier S.A.
Lenzing Aktiengesellschaft
Linde Aktiengesellschaft
Mayr-Melnhof Karton AG
Metsä Board Oyj
Miquel y Costas & Miquel,
Nabaltec AG
Nanogate AG
NV Bekaert SA
Oeneo SA
Orapi
Papeles y Cartones de Eur
Paperpack A.B.E.E.
PSB Industries
Reno De Medici S.p.A.
Resilux NV
RHI Magnesita N.V.
SIMONA Aktiengesellschaft
Smurfit Kappa Group plc
Société Internationale de
Sol SpA
Solvay SA
Sto SE & Co. KGaA
Stora Enso Oyj
TFF Group
The Navigator Company, S.
Tikkurila Oyj
Titan Cement Company
S.A.
Tubacex, S.A.
Unior Kovaska industrija
UPM-Kymmene Oyj
Vassiliko Cement Works Pu
Vicat SA
Vidrala, S.A.
Voestalpine AG
Wacker Chemie AG
Zignago Vetro S.p.A.

GICS 151010

Air Liquide, société anon
Akzo Nobel N.V.
BASF SE
EPC Groupe
Ercros, S.A.
H&R GmbH & Co. KGaA
Holland Colours NV
Isagro S.p.A.
Kemira Oyj
Lenzing Aktiengesellschaft
Linde Aktiengesellschaft
Nabaltec AG

Nanogate AG
Orapi
SIMONA Aktiengesellschaft
Société Internationale de
Sol SpA
Solvay SA
Tikkurila Oyj
Wacker Chemie AG

GICS 151020

Buzzi Unicem SpA
Caltagirone SpA
Cementir Holding S.p.A.
Imerys SA
RHI Magnesita N.V.
Sto SE & Co. KGaA
Titan Cement Company
S.A.
Vassiliko Cement Works Pu
Vicat SA

GICS 151030

Flexopack Soc. Anonyme Pl
Groupe Guillin S.A.
Huhtamäki Oyj
KARATZIS S.A.
Oeneo SA
Paperpack A.B.E.E.
PSB Industries
Reno De Medici S.p.A.
Resilux NV
Smurfit Kappa Group plc
TFF Group
Vidrala, S.A.
Zignago Vetro S.p.A.

GICS 151040

Acerinox, S.A.
AMAG Austria Metall AG
Aurubis AG
Coil S.A./N.V.
Euro Ressources S.A.
F. Ramada Invetimentos,
Iktinos Hellas S.A.
Le Bélier S.A.
NV Bekaert SA
Tubacex, S.A.
Unior Kovaska industrija
Voestalpine AG

GICS 151050

Altri, S.G.P.S., S.A.
Delnig AG
ENCE Energía y Celulosa,
Exacompta Clairefontaine
Iberpapel Gestión, S.A.
Metsä Board Oyj
Miquel y Costas & Miquel,
The Navigator Company, S.
UPM-Kymmene Oyj

GICS 20

AB Panevezio Statybos Tre	DPA Group N.V.	Metso Corporation
Abertis Infraestructuras,	Dürkopp Adler AG	Mevaco S.A.
ACS, Actividades de Const	ECA SA	Mota-Engil, SGPS, S.A.
ADA Société Anonyme	edding AG	Moury Construct SA
Aegean Airlines S.A.	Eiffage SA	MS Industrie AG
Aéroports de Paris SA	Elecnor, S.A.	MTU Aero Engines AG
Airbus SE	Elecster Oyj	Muehlhan AG
AKKA Technologies SE	Eltrak S.A.	Müller - Die lila Logisti
Alstom SA	EUROKAI GmbH & Co.	Nordex SE
Amadeus FiRe AG	KGaA	Nordwest Handel AG
Andritz AG	Exel Composites Oyj	NORMA Group SE
Ansaldo STS S.p.A.	Ferrovial, S.A.	NSC Groupe SA
ARCADIS NV	Fidia S.p.A.	NSE Industries SA
AS Merko Ehitus	Financière de l'Odet SA	OHB SE
AS Tallink Grupp	Flughafen Wien Aktienges	Oranjewoud N.V.
Assystem SA	FNM S.p.A.	Österreichische Post AG
Astaldi S.p.A.	FRIWO AG	Palfinger AG
ASTM S.p.A.	GEA Group Aktiengesellsch	Panariagroup Industrie Ce
Atlantia S.p.A.	General Commercial & Indu	Pfeiffer Vacuum Technolog
Aurea SA	Gérard Perrier Industrie	Picanol NV
Autostrade Meridionali S.	Getlink	Piraeus Port Authority S.
Avia Solutions Group AB	GL Events	PKC Group Oyj
Batenburg Technik N.V.	Groupe CRIT SA	PNE Wind AG
BAUER Aktiengesellschaft	Groupe Gorgé SA	Ponsse Oyj
Bertrandt Aktiengesellsch	Groupe Pizzorno Environne	Poujoulat SA
Best Union Company S.p.A.	Hamburger Hafen und	Precia SA
Biesse S.p.A.	Logis	Prima Industrie S.p.A.
Bilfinger SE	Haulotte Group SA	Prosegur Compañía de
Bolloré	Hiolle Industries	Segu
Brenntag AG	HOCHTIEF	Prysmian S.p.A.
Brunel International N.V.	Aktiengesellscha	R. Stahl AG
Bureau Veritas SA	I.M.A. Industria Macchine	Ramirent Oyj
BWT Aktiengesellschaft	ID Logistics Group SA	Randstad Holding NV
Cargotec Corporation	INDUS Holding AG	RATIONAL
Catering International &	Innotec TSS AG	Aktiengesellscha
Cembre S.p.A.	Installux SA	Raute Oyj
CENTROTEC Sustainable	Interpump Group S.p.A.	Rexel S.A.
AG	Int'l Consolidated Airlin	Rosenbauer International
CEWE Stiftung & Co. KGaA	IRCE S.p.A.	Royal Boskalis Westminste
Clasquin S.A.	Jacquet Metal Service SA	Ryanair Holdings plc
Colas SA	Jensen-Group NV	Safran SA
Compagnie de Saint-	Joh. Friedrich Behrens AG	Saga Furs Oyj
Gobain	Jungheinrich Aktiengesell	Salini Impregilo S.p.A.
Compagnie d'Entreprises C	KAP Beteiligungs-AG	SAVE S.p.A.
Compagnie Industrielle Fi	KDM Shipping Public Limit	Schneider Electric S.E.
Construcciones y Auxiliar	Kesla Oyj	Siemens Gamesa
Constructions Industriell	Kingspan Group plc	Renewable
Cpl Resources plc	KONE Oyj	Signaux Girod S.A.
Cramo Oyj	Konecranes Plc	SMT Scharf AG
Danieli & C. Officine Mec	KROMI Logistik AG	Società Iniziative Autost
Dassault Aviation SA	Krones AG	Sogclair SA
Deceuninck NV	KSB SE & Co. KGaA	Somfy SA
Delta Plus Group	KUKA Aktiengesellschaft	SRV Group Plc
Derichebourg	Lassila & Tikanoja Oyj	STEF S.A.
Deufol SE	Legrand SA	Strabag SE
Deutsche Lufthansa Aktien	Lisi S.A.	Synergie SE
Deutsche Post AG	Luka Koper d.d.	Technotrans AG
DEUTZ Aktiengesellschaft	MAN SE	Teleperformance SE
DLSI	Manitou BF SA	Tesmec S.p.A.
DMG Mori Aktiengesellscha	Maschinenfabrik Berthold	Thales S.A.
Dovre Group Plc	Masterflex SE	Thermador Groupe Société
	MAX Automation SE	Thessaloniki Port Authori

Tivoly S.A.
TKH Group N.V.
Toscana Aeroporti S.p.A.
Turbon AG
VINCI SA
VTG Aktiengesellschaft
Wacker Neuson SE
Wärtsilä Oyj Abp
Washtec AG
XPO Logistics Europe SA
Zardoya Otis, S.A.
Zodiac Aerospace

GICS 2010

AB Panevezio Statybos Tre
ACS, Actividades de Const
Airbus SE
Alstom SA
Andritz AG
ARCADIS NV
AS Merko Ehitus
Astaldi S.p.A.
Batenburg Technik N.V.
BAUER Aktiengesellschaft
Biesse S.p.A.
Brenntag AG
Cargotec Corporation
Cembre S.p.A.
CENTROTEC Sustainable
AG
Colas SA
Compagnie de Saint-
Gobain
Compagnie d'Entreprises C
Compagnie Industrielle Fi
Construcciones y Auxiliar
Cramo Oyj
Danieli & C. Officine Mec
Dassault Aviation SA
Deceuninck NV
DEUTZ Aktiengesellschaft
DMG Mori Aktiengesellscha
Dürkopp Adler AG
ECA SA
Eiffage SA
Elecnor, S.A.
Elecster Oyj
Eltrak S.A.
Exel Composites Oyj
Fidia S.p.A.
FRIWO AG
GEA Group Aktiengesellschaft
General Commercial & Indu
Gérard Perrier Industrie
Groupe Gorgé SA
Haulotte Group SA
Hiolle Industries
HOCHTIEF
Aktiengesellscha
I.M.A. Industria Macchine
INDUS Holding AG
Innotec TSS AG

Installux SA
Interpump Group S.p.A.
IRCE S.p.A.
Jacquet Metal Service SA
Jensen-Group NV
Joh. Friedrich Behrens AG
Jungheinrich Aktiengesell
KAP Beteiligungs-AG
Kesla Oyj
Kingspan Group plc
KONE Oyj
KROMI Logistik AG
Krones AG
KSB SE & Co. KGaA
KUKA Aktiengesellschaft
Legrand SA
Lisi S.A.
MAN SE
Manitou BF SA
Maschinenfabrik Berthold
Masterflex SE
MAX Automation SE
Metso Corporation
Mevaco S.A.
Mota-Engil, SGPS, S.A.
Moury Construct SA
MS Industrie AG
Nordex SE
Nordwest Handel AG
NORMA Group SE
NSC Groupe SA
NSE Industries SA
OHB SE
Oranjewoud N.V.
Palfinger AG
Panariagroup Industrie Ce
Pfeiffer Vacuum Technolog
Picanol NV
PKC Group Oyj
PNE Wind AG
Ponsse Oyj
Poujoulat SA
Precia SA
Prima Industrie S.p.A.
Prysmian S.p.A.
R. Stahl AG
Ramirent Oyj
RATIONAL
Aktiengesellscha
Raute Oyj
Rexel S.A.
Rosenbauer International
Royal Boskalis Westminste
Safran SA
Salini Impregilo S.p.A.
Siemens Gamesa
Renewable
SMT Scharf AG
Sogclair SA
Somfy SA
SRV Group Plc
Strabag SE

Tesmec S.p.A.
Thales S.A.
Thermador Groupe Société
Tivoly S.A.
TKH Group N.V.
VINCI SA
Wacker Neuson SE
Wärtsilä Oyj Abp
Washtec AG
Zardoya Otis, S.A.
Zodiac Aerospace

GICS 201010

Airbus SE
Dassault Aviation SA
ECA SA
Lisi S.A.
NSE Industries SA
OHB SE
Safran SA
Sogclair SA
Thales S.A.
Zodiac Aerospace

GICS 201020

CENTROTEC Sustainable
AG
Deceuninck NV
Innotec TSS AG
Installux SA
Joh. Friedrich Behrens AG
Kingspan Group plc
Panariagroup Industrie Ce
Poujoulat SA

GICS 201030

AB Panevezio Statybos Tre
ACS, Actividades de Const
ARCADIS NV
AS Merko Ehitus
Astaldi S.p.A.
Colas SA
Compagnie d'Entreprises C
Compagnie Industrielle Fi
Eiffage SA
Elecnor, S.A.
HOCHTIEF
Aktiengesellscha
Mota-Engil, SGPS, S.A.
Moury Construct SA
Oranjewoud N.V.
Royal Boskalis Westminste
Salini Impregilo S.p.A.
SRV Group Plc
Strabag SE
VINCI SA

GICS 201040

Cembre S.p.A.
FRIWO AG
Gérard Perrier Industrie
IRCE S.p.A.

Legrand SA
 Nordex SE
 PKC Group Oyj
 PNE Wind AG
 Siemens Gamesa
 Renewable
 Somfy SA

GICS 201060

Alstom SA
 Biesse S.p.A.
 Cargotec Corporation
 Construcciones y Auxiliar
 Danieli & C. Officine Mec
 DEUTZ Aktiengesellschaft
 DMG Mori Aktiengesellscha
 Dürkopp Adler AG
 Elecster Oyj
 Exel Composites Oyj
 Fidia S.p.A.
 GEA Group Aktiengesellsch
 Groupe Gorgé SA
 Haulotte Group SA
 Hiolle Industries
 I.M.A. Industria Macchine
 Interpump Group S.p.A.
 Jensen-Group NV
 Jungheinrich Aktiengesell
 Kesla Oyj
 KONE Oyj
 Kronos AG
 KSB SE & Co. KGaA
 KUKA Aktiengesellschaft
 MAN SE
 Manitou BF SA
 Maschinenfabrik Berthold
 Masterflex SE
 MAX Automation SE
 Metso Corporation
 Mevaco S.A.
 MS Industrie AG
 NORMA Group SE
 NSC Groupe SA
 Palfinger AG
 Pfeiffer Vacuum Technolog
 Picanol NV
 Ponsse Oyj
 Precia SA
 Prima Industrie S.p.A.
 R. Stahl AG
 RATIONAL
 Aktiengesellscha
 Raute Oyj
 Rosenbauer International
 SMT Scharf AG
 Tesmec S.p.A.
 Tivoly S.A.
 Wacker Neuson SE
 Wärtsilä Oyj Abp
 Washtec AG
 Zardoya Otis, S.A.

GICS 201070

Brenntag AG
 Cramo Oyj
 Eltrak S.A.
 General Commercial & Indu
 Jacquet Metal Service SA
 KROMI Logistik AG
 Nordwest Handel AG
 Ramirent Oyj
 Rexel S.A.
 Thermador Groupe Société

GICS 2020

AKKA Technologies SE
 Amadeus FiRe AG
 Assystem SA
 Aurea SA
 Bertrandt Aktiengesellsch
 Best Union Company S.p.A.
 Bilfinger SE
 Brunel International N.V.
 Bureau Veritas SA
 BWT Aktiengesellschaft
 Catering International &
 CEWE Stiftung & Co. KGaA
 Constructions Industriell
 Cpl Resources plc
 Delta Plus Group
 Derichebourg
 DLSI
 Dovre Group Plc
 DPA Group N.V.
 edding AG
 GL Events
 Groupe CRIT SA
 Groupe Pizzorno Environne
 Lassila & Tikanoja Oyj
 Prosegur Compañía de
 Segu
 Randstad Holding NV
 Saga Furs Oyj
 Synergie SE
 Teleperformance SE
 Turbon AG

GICS 202010

Aurea SA
 Best Union Company S.p.A.
 Bilfinger SE
 BWT Aktiengesellschaft
 Catering International &
 CEWE Stiftung & Co. KGaA
 Constructions Industriell
 Delta Plus Group
 Derichebourg
 edding AG
 GL Events
 Groupe Pizzorno Environne
 Lassila & Tikanoja Oyj
 Prosegur Compañía de
 Segu
 Saga Furs Oyj

Turbon AG

GICS 202020

AKKA Technologies SE
 Amadeus FiRe AG
 Assystem SA
 Bertrandt Aktiengesellsch
 Brunel International N.V.
 Bureau Veritas SA
 Cpl Resources plc
 DLSI
 Dovre Group Plc
 DPA Group N.V.
 Groupe CRIT SA
 Randstad Holding NV
 Synergie SE
 Teleperformance SE

GICS 2030

Abertis Infraestructuras,
 ADA Société Anonyme
 Aegean Airlines S.A.
 Aéroports de Paris SA
 Ansaldo STS S.p.A.
 AS Tallink Grupp
 ASTM S.p.A.
 Atlantia S.p.A.
 Autostrade Meridionali S.
 Avia Solutions Group AB
 Bollore
 Clasquin S.A.
 Deufol SE
 Deutsche Post AG
 EUROKAI GmbH & Co.
 KGaA
 Financière de l'Odé SA
 Flughafen Wien Aktienges
 FNM S.p.A.
 Getlink
 Hamburger Hafen und
 Logis
 ID Logistics Group SA
 Int'l Consolidated Airlin
 KDM Shipping Public Limit
 Luka Koper d.d.
 Müller - Die lila Logisti
 Österreichische Post AG
 Piraeus Port Authority S.
 Ryanair Holdings plc
 SAVE S.p.A.
 Signaux Girod S.A.
 Società Iniziative Autost
 STEF S.A.
 Thessaloniki Port Authori
 Toscana Aeroporti S.p.A.
 VTG Aktiengesellschaft
 XPO Logistics Europe SA

GICS 203010

Bollore
 Clasquin S.A.
 Deufol SE

Deutsche Post AG
 Financière de l'Odet SA
 ID Logistics Group SA
 Müller - Die lila Logisti
 Österreichische Post AG
 XPO Logistics Europe SA

GICS 203050

Abertis Infraestructuras,
 Aéroports de Paris SA
 Ansaldo STS S.p.A.
 ASTM S.p.A.
 Atlantia S.p.A.
 Autostrade Meridionali S.
 Avia Solutions Group AB
 EUROKAI GmbH & Co.
 KGaA
 Flughafen Wien Aktiengesese
 Getlink
 Hamburger Hafen und
 Logis
 Luka Koper d.d.
 Piraeus Port Authority S.
 SAVE S.p.A.
 Signaux Girod S.A.
 Società Iniziative Autost
 Thessaloniki Port Authori
 Toscana Aeroporti S.p.A.

GICS 25

A.S. Création Tapeten AG
 AB Snaige
 Abbey plc
 Accell Group N.V.
 Accor SA
 Adidas AG
 Adler Modemärkte AG
 ADLPartner
 Ahlers AG
 Amer Sports Corporation
 AmRest Holdings SE
 APB Apranga
 Artprice.com
 AS Company S.A.
 AS Silvano Fashion Group
 AST Groupe
 Atresmedia Corporación de
 Autogrill S.p.A.
 Axel Springer SE
 B&C Speakers S.p.A.
 B.V. Delftsch Aardewerkfa
 BasicNet S.p.A.
 Bayerische Motoren Werke
 Bénétteau S.A.
 Bet-At-Home.com AG
 Beter Bed Holding N.V.
 BHS tabletop AG
 Bialetti Industrie S.p.A
 BigBen Interactive
 Bijou Brigitte modische A
 Borussia Dortmund GmbH
 &

Bourrelrier Group SA
 Brembo S.p.A.
 BRUNELLO CUCINELLI
 S.p.A.
 Burelle SA
 Cairo Communication S.p.A
 Ceconomy AG
 CIE Automotive, S.A.
 Cofina, SGPS, S.A.
 Compagnie Du Mont-Blanc
 Compagnie Générale Établi
 Compagnie Plastic
 Omnium
 Constantin Medien AG
 Continental Aktiengesells
 CSP International Fashion
 CTS Eventim AG & Co.
 KGaA
 Daimler AG
 Damartex
 Delfingen Industry S.A.
 De'Longhi S.p.A.
 Delticom AG
 Dierig Holding AG
 D'leteren SA
 DO & CO Aktiengesellschaf
 Einhell Germany AG
 Elica S.p.A.
 ElingKlinger AG
 Emak S.p.A.
 Eutelsat Communications
 S
 F.G. Europe S.A.
 Faurecia S.A.
 Fiat Chrysler Automobiles
 Fielmann AG
 Fiskars Oyj Abp
 Folli-Follie Commercial M
 Fortuna Entertainment Gro
 Funespaña, S.A.
 Gaumont SA
 GEDI Gruppo Editoriale S.
 Geox S.p.A.
 Gerry Weber International
 GORENJE, d.d.
 Graines Voltz
 Grammer
 Aktiengesellschaft
 Greek Organization of Foo
 Groupe LDLC
 Havas SA
 Hermès International Soci
 High Co. SA
 Hopscotch Global PR
 Group
 Hornbach Baumarkt AG
 Hugo Boss AG
 Ibersol, S.G.P.S., S.A.
 IFA Hotel & Touristik Akt
 Industria de Diseño Texti
 Infas Holding Aktiengesel
 Ipsos SA
 JCDcaux SA

Jumbo S.A.
 Kaufman & Broad S.A.
 Kering SA
 Keskiuomalainen Oyj
 Klassik Radio AG
 Koninklijke Brill NV
 KTM Industries AG
 Lagardère SCA
 Leifheit Aktiengesellscha
 Lingotes Especiales, S.A.
 Linz Textil Holding Aktie
 L'Occitane International
 LUDWIG BECK am
 Rathauseck
 Luxottica Group S.p.A.
 Maisons France Confort S.
 Makheia Group Sociéte An
 Manutan International SA
 Marimekko Oyj
 Media 6 SA
 Mediaset España
 Comunicac
 Meliá Hotels Internationa
 Métropole Télévision S.A.
 MGI Coutier SA
 Mondo TV S.p.A.
 Nokian Renkaat Oyj
 NOS, S.G.P.S., S.A.
 NRJ Group SA
 Olympic Entertainment Gro
 Orchestra-Prémaman S.A.
 Paddy Power Betfair plc
 Paragon AG
 Passat Société Anonyme
 Pegas Nonwovens S.A.
 Petrol d.d.
 pferdewetten.de AG
 Piaggio & C. SpA
 Piquadro S.p.A.
 Piscines Desjoyaux SA
 Plaisio Computers S.A.
 Pohjois-Karjalan Kirjapai
 Polytec Holding AG
 Prada S.p.A
 Progress Werk Oberkirch A
 Publicis Groupe S.A.
 PUMA SE
 Rapala VMC Corporation
 Ratti S.p.A.
 Renault SA
 Renk Aktiengesellschaft
 Roularta Media Group NV
 RTL Group SA
 Sabaf S.p.A.
 Saf-Holland S.A.
 Salvatore Ferragamo S.p.A
 Samse SA
 Samsonite International S
 SEB SA
 SES S.A.
 SHW AG

SinnerSchrader Aktiengese
Sioen Industries NV
SnowWorld N.V.
Société Française de Casi
Sogefi S.p.A.
Splendid Medien AG
Stern Groep N.V.
Ströer SE & Co. KGaA
Syzygy AG
TAKKT AG
Telegraaf Media Groep N.V
Télévision Française 1 SA
TOD'S S.p.A.
Trigano S.A.
TUI AG
U10 SA
Valeo SA
Van De Velde NV
Viking Line ABP
Vivendi SA
Xilam Animation
YOOX Net-A-Porter Group
S
Zapf Creation AG
zooplus AG

GICS 2510

Bayerische Motoren Werke
Brembo S.p.A.
Burelle SA
CIE Automotive, S.A.
Compagnie Générale Établi
Compagnie Plastic
Omnium
Continental Aktiengesells
Daimler AG
Delfingen Industry S.A.
ErlingKlinger AG
Faurecia S.A.
Fiat Chrysler Automobiles
Grammer
Aktiengesellschaf
KTM Industries AG
Lingotes Especiales, S.A.
MGI Coutier SA
Nokian Renkaat Oyj
Paragon AG
Piaggio & C. SpA
Polytec Holding AG
Progress Werk Oberkirch A
Renault SA
Renk Aktiengesellschaft
Saf-Holland S.A.
SHW AG
Sogefi S.p.A.
Valeo SA

GICS 251010

Brembo S.p.A.
Burelle SA
CIE Automotive, S.A.
Compagnie Générale Établi

Compagnie Plastic
Omnium
Continental Aktiengesells
Delfingen Industry S.A.
ErlingKlinger AG
Faurecia S.A.
Grammer
Aktiengesellschaf
Lingotes Especiales, S.A.
MGI Coutier SA
Nokian Renkaat Oyj
Paragon AG
Polytec Holding AG
Progress Werk Oberkirch A
Renk Aktiengesellschaft
Saf-Holland S.A.
SHW AG
Sogefi S.p.A.
Valeo SA

GICS 251020

Bayerische Motoren Werke
Daimler AG
Fiat Chrysler Automobiles
KTM Industries AG
Piaggio & C. SpA
Renault SA

GICS 2520

A.S. Création Tapeten AG
AB Snaige
Abbey plc
Accell Group N.V.
Adidas AG
Ahlers AG
Amer Sports Corporation
AS Company S.A.
AST Groupe
B&C Speakers S.p.A.
B.V. Delftsch Aardewerkfa
Bénéteau S.A.
BHS tabletop AG
Bialetti Industrie S.p.A
Bijou Brigitte modische A
BRUNELLO CUCINELLI
S.p.A.
CSP International Fashion
Damartex
De'Longhi S.p.A.
Dierig Holding AG
Einhell Germany AG
Elica S.p.A.
Emak S.p.A.
Fiskars Oyj Abp
Geox S.p.A.
GORENJE, d.d.
Hermès International Soci
Hugo Boss AG
Kaufman & Broad S.A.
Leifheit Aktiengesellscha
Linz Textil Holding Aktie
Luxottica Group S.p.A.

Maisons France Confort S.
Marimekko Oyj
Orchestra-Prémaman S.A.
Pegas Nonwovens S.A.
Piquadro S.p.A.
Piscines Desjoyaux SA
Prada S.p.A
PUMA SE
Ratti S.p.A.
Sabaf S.p.A.
Salvatore Ferragamo S.p.A
Samsonite International S
SEB SA
Sioen Industries NV
TOD'S S.p.A.
Trigano S.A.
Van De Velde NV
Zapf Creation AG

GICS 252010

A.S. Création Tapeten AG
AB Snaige
Abbey plc
AST Groupe
B&C Speakers S.p.A.
B.V. Delftsch Aardewerkfa
BHS tabletop AG
Bialetti Industrie S.p.A
De'Longhi S.p.A.
Einhell Germany AG
Elica S.p.A.
Emak S.p.A.
Fiskars Oyj Abp
GORENJE, d.d.
Kaufman & Broad S.A.
Leifheit Aktiengesellscha
Maisons France Confort S.
Sabaf S.p.A.
SEB SA

GICS 252020

Accell Group N.V.
AS Company S.A.
Bénéteau S.A.
Piscines Desjoyaux SA
Trigano S.A.
Zapf Creation AG

GICS 252030

Adidas AG
Ahlers AG
Bijou Brigitte modische A
BRUNELLO CUCINELLI
S.p.A.
CSP International Fashion
Damartex
Dierig Holding AG
Geox S.p.A.
Hermès International Soci
Hugo Boss AG
Linz Textil Holding Aktie

Luxtottica Group S.p.A.
 Marimekko Oyj
 Orchestra-Prémaman S.A.
 Pegas Nonwovens S.A.
 Piquadro S.p.A.
 Prada S.p.A
 PUMA SE
 Ratti S.p.A.
 Salvatore Ferragamo S.p.A
 Samsonite International S
 Sioen Industries NV
 TOD'S S.p.A.
 Van De Velde NV

GICS 2530

Accor SA
 AmRest Holdings SE
 Autogrill S.p.A.
 Bet-At-Home.com AG
 Compagnie Du Mont-Blanc
 DO & CO Aktiengesellschaft
 Fortuna Entertainment Gro
 Funespaña, S.A.
 Greek Organization of Foo
 Ibersol, S.G.P.S., S.A.
 IFA Hotel & Touristik Akt
 Meliá Hotels Internationa
 Olympic Entertainment Gro
 Paddy Power Betfair plc
 pferdewetten.de AG
 SnowWorld N.V.
 Société Française de Casi
 TUI AG
 Viking Line ABP

GICS 253010

Accor SA
 AmRest Holdings SE
 Autogrill S.p.A.
 Bet-At-Home.com AG
 Compagnie Du Mont-Blanc
 DO & CO Aktiengesellschaft
 Fortuna Entertainment Gro
 Greek Organization of Foo
 Ibersol, S.G.P.S., S.A.
 IFA Hotel & Touristik Akt
 Meliá Hotels Internationa
 Olympic Entertainment Gro
 Paddy Power Betfair plc
 pferdewetten.de AG
 SnowWorld N.V.
 Société Française de Casi
 TUI AG
 Viking Line ABP

GICS 2540

ADLPartner
 Artprice.com
 Atresmedia Corporación de
 Axel Springer SE

Borussia Dortmund GmbH
 &
 Cairo Communication S.p.A
 Cofina, SGPS, S.A.
 Constantin Medien AG
 Eutelsat Communications
 S
 Gaumont SA
 GEDI Gruppo Editoriale S.
 Havas SA
 High Co. SA
 Hopscotch Global PR
 Group
 Infas Holding Aktiengesel
 Ipsos SA
 JCDecaux SA
 Keski-suomalainen Oyj
 Klassik Radio AG
 Koninklijke Brill NV
 Makheia Group Société Ano
 Media 6 SA
 Mediaset España
 Comunicac
 Métropole Télévision S.A.
 Mondo TV S.p.A.
 NOS, S.G.P.S., S.A.
 NRJ Group SA
 Pohjois-Karjalan Kirjapai
 Publicis Groupe S.A.
 Roularta Media Group NV
 RTL Group SA
 SES S.A.
 SinnerSchrader Aktiengese
 Splendid Medien AG
 Ströer SE & Co. KGaA
 Syzygy AG
 Telegraaf Media Groep N.V
 Télévision Française 1 SA
 Vivendi SA
 Xilam Animation

GICS 2550

Adler Modemärkte AG
 APB Apranga
 AS Silvano Fashion Group
 BasicNet S.p.A.
 Beter Bed Holding N.V.
 Bourrelie Group SA
 Ceconomy AG
 Delticom AG
 F.G. Europe S.A.
 Fielmann AG
 Graines Voltz
 Groupe LDLC
 Hornbach Baumarkt AG
 Industria de Diseño Texti
 Jumbo S.A.
 L'Occitane International
 LUDWIG BECK am
 Rathauseck
 Manutan International SA
 Passat Société Anonyme

Petrol d.d.
 Plaisio Computers S.A.
 Samse SA
 Stern Groep N.V.
 TAKKT AG
 YOOX Net-A-Porter Group
 S
 zooplus AG

GICS 255020

Delticom AG
 Groupe LDLC
 Manutan International SA
 Passat Société Anonyme
 TAKKT AG
 YOOX Net-A-Porter Group
 S
 zooplus AG

GICS 255040

Adler Modemärkte AG
 APB Apranga
 AS Silvano Fashion Group
 BasicNet S.p.A.
 Beter Bed Holding N.V.
 Bourrelie Group SA
 Ceconomy AG
 Fielmann AG
 Hornbach Baumarkt AG
 Industria de Diseño Texti
 Jumbo S.A.
 L'Occitane International
 Petrol d.d.
 Plaisio Computers S.A.
 Samse SA
 Stern Groep N.V.

GICS 30

AB Linas Agro Group
 AB Zemaitijos pienas
 ADM Hamburg
 Aktiengesells
 Advini S.A.
 AGRANA Beteiligungs-Aktie
 Alès Groupe S.A.
 Amsterdam Commodities
 N.V
 Anheuser-Busch InBev
 SA/N
 AS PRFoods
 Astarta Holding N.V.
 Atria Oyj
 Auga Group AB
 Barón de Ley, S.A.
 Beiersdorf Aktiengesellsc
 Bodegas Riojanas, S.A.
 Bonduelle SA
 Bonifiche Ferraresi S.p.A
 C&C Group plc
 Carrefour SA
 Casino, Guichard-Perracho
 Centrale del Latte d'Ital

Danone
 Davide Campari-Milano S.p
 Distribuidora Internacion
 Ebro Foods, S.A.
 Enervit S.p.A.
 Etn. Fr. Colruyt NV
 Fleury Michon SA
 Flour Mills Kepenos S.A.
 Fromageries Bel
 FRoSTA Aktiengesellschaft
 Galaxidi Marine Farm S.A.
 Glanbia plc
 Gr. Sarantis S.A.
 Greencore Group plc
 Greenyard NV
 Groupe Laurent-Perrier
 Hawesko Holding
 Aktienges
 Heineken N.V.
 HKScan Oyj
 InterParfums SA
 Jerónimo Martins, SGPS, S
 Karelia Tobacco Company I
 Kernel Holding S.A.
 Kerry Group plc
 Koninklijke Ahold Delhaiz
 Kri Kri S.A.
 Kulmbacher Brauerei
 KWS Saat SE
 L.D.C. S.A.
 La Doria SpA
 Lanson-BCC
 Latvijas Balzams AS
 L'Oréal S.A.
 Lotus Bakeries NV
 Loulis Mills S.A.
 MARR S.p.A.
 Olvi Oyj
 Origin Enterprises plc
 Ottakringer Getränke AG
 Ovostar Union N.V.
 Parmalat S.p.A.
 Pernod Ricard SA
 Raisio plc
 Rémy Cointreau SA
 Rokiskio Suris AB
 Sabeton SA
 Sapmer SA
 Savencia SA
 Schloss Wachenheim AG
 Sligro Food Group N.V.
 Socfinasia S.A.
 Société de Services,de Pa
 Société Internationale de
 Stelios Kanakis Industria
 Südzucker AG
 Suominen Oyj
 Tallinna Kaubamaja Grupp
 Ter Beke NV
 Tipiak Société Anonyme
 Total Produce plc

Valsoia SpA
 Vilmorin & Cie SA
 Viscofan, S.A.
 Vranken-Pommery
 Monopole
 WASGAU Produktions &
 Hand

GICS 3010

Amsterdam Commodities
 N.V
 Carrefour SA
 Casino, Guichard-Perracho
 Distribuidora Internacion
 Etn. Fr. Colruyt NV
 Hawesko Holding
 Aktienges
 Jerónimo Martins, SGPS, S
 Koninklijke Ahold Delhaiz
 MARR S.p.A.
 Sligro Food Group N.V.
 Stelios Kanakis Industria
 Tallinna Kaubamaja Grupp
 Total Produce plc
 WASGAU Produktions &
 Hand

GICS 3020

AB Linas Agro Group
 AB Zemaitijos pienas
 ADM Hamburg
 Aktiengesells
 AdVini S.A.
 AGRANA Beteiligungs-Aktie
 Anheuser-Busch InBev
 SA/N
 AS PRFoods
 Astarta Holding N.V.
 Atria Oyj
 Auga Group AB
 Barón de Ley, S.A.
 Bodegas Riojanas, S.A.
 Bonduelle SA
 Bonifiche Ferraresi S.p.A
 C&C Group plc
 Centrale del Latte d'Ital
 Danone
 Davide Campari-Milano S.p
 Ebro Foods, S.A.
 Fleury Michon SA
 Flour Mills Kepenos S.A.
 Fromageries Bel
 FRoSTA Aktiengesellschaft
 Galaxidi Marine Farm S.A.
 Greencore Group plc
 Greenyard NV
 Groupe Laurent-Perrier
 Heineken N.V.
 HKScan Oyj
 Karelia Tobacco Company I
 Kernel Holding S.A.
 Kerry Group plc
 Kri Kri S.A.

Kulmbacher Brauerei
 KWS Saat SE
 L.D.C. S.A.
 La Doria SpA
 Lanson-BCC
 Latvijas Balzams AS
 Lotus Bakeries NV
 Loulis Mills S.A.
 Olvi Oyj
 Origin Enterprises plc
 Ottakringer Getränke AG
 Ovostar Union N.V.
 Parmalat S.p.A.
 Pernod Ricard SA
 Raisio plc
 Rémy Cointreau SA
 Rokiskio Suris AB
 Sabeton SA
 Sapmer SA
 Savencia SA
 Schloss Wachenheim AG
 Socfinasia S.A.
 Société de Services,de Pa
 Société Internationale de
 Südzucker AG
 Ter Beke NV
 Tipiak Société Anonyme
 Valsoia SpA
 Vilmorin & Cie SA
 Viscofan, S.A.
 Vranken-Pommery
 Monopole

GICS 302010

AdVini S.A.
 Anheuser-Busch InBev
 SA/N
 Barón de Ley, S.A.
 Bodegas Riojanas, S.A.
 C&C Group plc
 Davide Campari-Milano S.p
 Groupe Laurent-Perrier
 Heineken N.V.
 Kulmbacher Brauerei
 Lanson-BCC
 Latvijas Balzams AS
 Olvi Oyj
 Ottakringer Getränke AG
 Pernod Ricard SA
 Rémy Cointreau SA
 Schloss Wachenheim AG
 Société de Services,de Pa
 Vranken-Pommery
 Monopole

GICS 302020

AB Linas Agro Group
 AB Zemaitijos pienas
 ADM Hamburg
 Aktiengesells
 AGRANA Beteiligungs-Aktie
 AS PRFoods

Astarta Holding N.V.
 Atria Oyj
 Auga Group AB
 Bonduelle SA
 Bonifiche Ferraresi S.p.A
 Centrale del Latte d'Ital
 Ebro Foods, S.A.
 Fleury Michon SA
 Flour Mills Kepenos S.A.
 Fromageries Bel
 FRoSTA Aktiengesellschaft
 Galaxidi Marine Farm S.A.
 Greencore Group plc
 Greenyard NV
 HKScan Oyj
 Kernel Holding S.A.
 Kerry Group plc
 Kri Kri S.A.
 KWS Saat SE
 L.D.C. S.A.
 La Doria SpA
 Lotus Bakeries NV
 Loulis Mills S.A.
 Origin Enterprises plc
 Ovostar Union N.V.
 Parmalat S.p.A.
 Raisio plc
 Rokiskio Suris AB
 Sabeton SA
 Sapmer SA
 Savencia SA
 Socfinasia S.A.
 Société Internationale de
 Südzucker AG
 Ter Beke NV
 Tipiak Société Anonyme
 Valsoia SpA
 Vilmorin & Cie SA
 Viscofan, S.A.

GICS 3030

Alès Groupe S.A.
 Beiersdorf Aktiengesellsc
 Enervit S.p.A.
 Gr. Sarantis S.A.
 InterParfums SA
 L'Oréal S.A.
 Suominen Oyj

GICS 303020

Alès Groupe S.A.
 Beiersdorf Aktiengesellsc
 Enervit S.p.A.
 InterParfums SA
 L'Oréal S.A.

GICS 35

Almirall, S.A.
 Amplifon SpA
 AS Grindeks
 AS Olainfarm

Bastide Le Confort Médica
 bioMérieux S.A.
 Biotest Aktiengesellschaft
 Boiron SA
 Carl Zeiss Meditec AG
 Clínica Baviera, S.A.
 CompuGroup Medical
 Societ
 Cosmo Pharmaceuticals
 N.V.
 DiaSorin S.p.A.
 Eckert & Ziegler BEBIG S.
 Eckert & Ziegler Strahlen
 Eifelhöhen-Klinik AG
 Essilor Int'l Société Ano
 Eurofins Scientific SE
 Euromedis Groupe
 Evotec AG
 Faes Farma, S.A.
 Geratherm Medical AG
 Grifols, S.A.
 Guerbet SA
 HAEMATO AG
 IASO S.A.
 Ifa Systems Ag
 Ion Beam Applications SA
 Ipsen S.A.
 Korian
 Krka, d. d.
 Laboratorios Farmaceutico
 LNA Santé SA
 MEDICLIN
 Aktiengesellscha
 Merck
 Kommanditgesellschaft
 MeVis Medical Solutions A
 Nexus AG
 Oriola Oyj
 Orion Oyj
 ORPEA Société Anonyme
 Paul Hartmann AG
 PCAS SA
 Pharma Mar, S.A.
 Pharmagest Interactive SA
 Prim, S.A.
 Recordati S.p.A.
 Revenio Group Oyj
 Rhön-Klinikum Aktiengesel
 SALUS, Ljubljana, d. d.
 Sanofi
 Sartorius Stedim Biotech
 Servizi Italia S.p.A.
 STADA Arzneimittel Aktien
 Stallergenes Greer Plc
 STRATEC Biomedical AG
 UCB SA
 UDG Healthcare plc
 Vetoquinol SA
 Virbac SA
 VITA 34 AG

GICS 3510

Amplifon SpA
 Bastide Le Confort Médica
 bioMérieux S.A.
 Carl Zeiss Meditec AG
 Clínica Baviera, S.A.
 CompuGroup Medical
 Societ
 DiaSorin S.p.A.
 Eckert & Ziegler BEBIG S.
 Eifelhöhen-Klinik AG
 Essilor Int'l Société Ano
 Euromedis Groupe
 Geratherm Medical AG
 Guerbet SA
 HAEMATO AG
 IASO S.A.
 Ifa Systems Ag
 Ion Beam Applications SA
 Korian
 LNA Santé SA
 MEDICLIN
 Aktiengesellscha
 MeVis Medical Solutions A
 Nexus AG
 Oriola Oyj
 ORPEA Société Anonyme
 Paul Hartmann AG
 Pharmagest Interactive SA
 Prim, S.A.
 Revenio Group Oyj
 Rhön-Klinikum Aktiengesel
 SALUS, Ljubljana, d. d.
 Sartorius Stedim Biotech
 Servizi Italia S.p.A.
 STRATEC Biomedical AG
 UDG Healthcare plc
 VITA 34 AG

GICS 351010

bioMérieux S.A.
 Carl Zeiss Meditec AG
 DiaSorin S.p.A.
 Eckert & Ziegler BEBIG S.
 Essilor Int'l Société Ano
 Euromedis Groupe
 Geratherm Medical AG
 Guerbet SA
 Ion Beam Applications SA
 Paul Hartmann AG
 Prim, S.A.
 Revenio Group Oyj
 Sartorius Stedim Biotech
 STRATEC Biomedical AG

GICS 351020

Amplifon SpA
 Bastide Le Confort Médica
 Clínica Baviera, S.A.
 Eifelhöhen-Klinik AG
 HAEMATO AG

IASO S.A.
Korian
LNA Santé SA
MEDICLIN
Aktiengesellscha
Oriola Oyj
ORPEA Société Anonyme
Rhön-Klinikum Aktiengesel
SALUS, Ljubljana, d. d.
Servizi Italia S.p.A.
VITA 34 AG

GICS 351030

CompuGroup Medical
Societ
Ifa Systems Ag
MeVis Medical Solutions A
Nexus AG
Pharmagest Interactive SA

GICS 3520

Almirall, S.A.
AS Grindeks
Biotest Aktiengesellschaf
Boiron SA
Cosmo Pharmaceuticals
N.V
Eurofins Scientific SE
Evotec AG
Faes Farma, S.A.
Grifols, S.A.
Ipsen S.A.
Krka, d. d.
Laboratorios Farmaceutico
Merck
Kommanditgesellscha
Orion Oyj
PCAS SA
Pharma Mar, S.A.
Recordati S.p.A.
Sanofi
STADA Arzneimittel Aktien
Stallergenes Greer Plc
UCB SA
Vetoquinol SA
Virbac SA

GICS 352020

Almirall, S.A.
AS Grindeks
Boiron SA
Cosmo Pharmaceuticals
N.V
Faes Farma, S.A.
Ipsen S.A.
Krka, d. d.
Laboratorios Farmaceutico
Merck
Kommanditgesellscha
Orion Oyj
Recordati S.p.A.
Sanofi
STADA Arzneimittel Aktien

Stallergenes Greer Plc
UCB SA
Vetoquinol SA
Virbac SA

GICS 401010

Aktia Bank p.l.c.
Banco Bilbao Vizcaya Arge
Banco BPI, S.A.
Banco de Sabadell, S.A.
Banco di Desio e della Br
Banco Santander, S.A.
BPER Banca S.p.A.
Caisse Reg. de Credit Agr
Caisse Régionale Crédit A
Caisse Régionale de Crédi
Caisse Régionale de Crédi
Caisse régionale de Crédi
Caisse Régionale de Crédi
Caisse Régionale de Crédi
Caisse Régionale De Crédi
Caisse Régionale de Crédi
Caisse Régionale de Crédi
Caisse régionale de Crédi
CaixaBank, S.A.
comdirect bank Aktiengesese
Credit Agricole S.A.
Credito Emiliano S.p.A.
HSBC Trinkaus & Burkhardt
ING Groep N.V.
KBC Group NV
Oldenburgische
Landesbank
Raiffeisen Bank Internati
Van Lanschot Kempen NV
Vseobecná úverová banka,

GICS 402010

ABC Arbitrage SA
Ackermans & Van Haaren
NV
Albis Leasing AG
Banca IFIS S.p.A.
Compagnie du Bois
Sauvage
Eurazeo SE
Exor N.V.
FORIS AG
Grenke AG
Groupe Bruxelles Lambert
Hypoport AG
IFG Group plc
Sofina Société Anonyme

GICS 402030

Alantra Partners S.A.
Altamir SCA
Azimut Holding S.p.A.
Banca Generali S.p.A.
BinckBank N.V.
Bolsas y Mercados Españ.,

CapMan Oyj
Compagnie Lebon
C-QUADRAT Investment
AG
Deutsche Balaton AG
Deutsche Beteiligungs AG
Deutsche Börse Aktiengesese
eQ Oyj
FinTech Group AG
GIMV NV
Hellenic Exchanges
IDI
KAS BANK N.V.
Luxempart S.A.
MLP SE
Natixis S.A.
OVH Holding AG
PEH Wertpapier AG
Reinet Investments S.C.A.
Renta 4 Banco, S.A.
Rothschild & Co SCA
Tamburi Investment Partne
Union Financiere de Franc
Unternehmens Invest AG
VIEL & Cie
Wiener Privatbank SE

GICS 403010

AEGON N.V.
ageas SA/NV
Allianz SE
April Société Anonyme
Assicurazioni Generali S.
AXA SA
CNP Assurances SA
Euler Hermes Group SA
European Reliance Gen. In
FBD Holdings plc
Grupo Catalana Occidente,
Hannover Rück SE
Mapfre, S.A.
Münchener
Rückversicherun
Pozavarovalnica Sava, d.d
Sampo Oyj
SCOR SE
Società Cattolica di Assi
Unipol Gruppo S.p.A.
UnipolSai Assicurazioni S
UNIQA Insurance Group AG
Vienna Insurance Group AG
Vittoria Assicurazioni S.
Wüstenrot &
Württembergis
Zavarovalnica Triglav, d.

GICS 45

A/S SAF Tehnika
ACTIA Group S.A.
adesso AG
ADVA Optical Networking S
Affecto Oyj

All for One Steeb AG	Infotel SA	Sword Group S.E.
Allgeier SE	Ingenico Group - GCS	Teleste Corporation
Alten SA	init innovation in traffi	TerniEnergia S.p.A.
Altran Technologies S.A.	Innofactor Plc	Tessi SA
Amadeus IT Group, S.A.	InVision Aktiengesellscha	Tieto Oyj
ams AG	Isra Vision AG	TXT e-solutions S.p.A.
ASBISc Enterprises Plc	IT Link SA	Umanis SA
ASM International NV	Itesoft S.A.	USU Software AG
ASML Holding N.V.	ITS Group	Vaisala Oyj
Aspocomp Group Oyj	IVU Traffic Technologies	Videlio SA
AT & S Aktiengesellschaft	Jenoptik AG	Viscom AG
ATOSS Software AG	Kapsch TrafficCom AG	Wavestone SA
Aubay Société Anonyme	Keyrus S.A.	Xing SE
auFeminin.com	Keyware Technologies NV	Zenitel NV
AURES Technologies S.A.	KPS AG	
Axway Software SA	Lacroix SA	GICS 4510
B+S Banksysteme	Lectra SA	adesso AG
Aktienges	Linedata Services S.A.	Affecto Oyj
Barco NV	Logicom Public Limited	All for One Steeb AG
Basler Aktiengesellschaft	LPKF Laser & Electronics	Allgeier SE
BasWare Oyj	LS telcom AG	Alten SA
BE Semiconductor Industri	Melexis NV	Altran Technologies S.A.
Be Think, Solve, Execute	Mensch und Maschine	Amadeus IT Group, S.A.
Bittium Oyj	Softw	ATOSS Software AG
Business & Decision SA	Microwave Vision S.A.	Aubay Société Anonyme
CAD IT S.p.A.	N.V. Nederlandsche Appara	auFeminin.com
Cancom SE	Nemetschek SE	Axway Software SA
Capgemini SE	Neopost S.A.	B+S Banksysteme
CENIT Aktiengesellschaft	Neurones S.A.	Aktienges
Dalenys	Neurosoft Software Produc	BasWare Oyj
Dalet S.A.	Neways Electronics Intern	Be Think, Solve, Execute
Dassault Systèmes SE	Nice S.p.A.	Bittium Oyj
DATA MODUL	Novabase SGPS SA	Business & Decision SA
Aktiengesellsc	ORBIS AG	CAD IT S.p.A.
DATAGROUP SE	Prodware	Cancom SE
Datalex plc	Profile Systems & Softwar	Capgemini SE
Datalogic S.p.A.	PSI Software AG	CENIT Aktiengesellschaft
Devoteam SA	RealDolmen NV	Dalenys
Diebold Nixdorf Aktienges	Reply S.p.A.	Dalet S.A.
Digital Bros S.p.A.	RIB Software SE	Dassault Systèmes SE
Dom Security	RS2 Software p.l.c.	DATAGROUP SE
EASY SOFTWARE AG	S&T AG	Datalex plc
ELMOS Semiconductor AG	SAES Getters S.p.A.	Devoteam SA
ESI Group SA	SAP SE	Digital Bros S.p.A.
Esprinet S.p.A.	Scanfil Oyj	EASY SOFTWARE AG
Evolis SA	Schweizer Electronic AG	ESI Group SA
EVS Broadcast Equipment	secunet Security Networks	Exprivia S.p.A.
S	SES-imagotag	Fabasoft AG
exceet Group SE	SII (Société pour l'Infor	Generix SA
Exprivia S.p.A.	SMA Solar Technology AG	GFI Informatique SA
Fabasoft AG	SNP Schneider-Neureither	GFT Technologies SE
First Sensor AG	Sodifrance SA	GK Software AG
Fortec Elektronik AG	Soft Computing	Groupe Open
Generix SA	Softing AG	HolidayCheck Group AG
GFI Informatique SA	Software Aktiengesellscha	i:FAO Aktiengesellschaft
GFT Technologies SE	Solteq Oyj	IGE+XAO Group
GK Software AG	Sopra Steria Group	Infotel SA
Groupe Open	SQLi	init innovation in traffi
HolidayCheck Group AG	SQS Software Quality Syst	Innofactor Plc
i:FAO Aktiengesellschaft	Streamwide S.A.	InVision Aktiengesellscha
IGE+XAO Group	SÜSS MicroTec SE	IT Link SA
Infineon Technologies AG		

Itesoft S.A.
 ITS Group
 IVU Traffic Technologies
 Keyrus S.A.
 Keyware Technologies NV
 KPS AG
 Lectra SA
 Linedata Services S.A.
 LS telcom AG
 Mensch und Maschine
 Softw
 Nemetschek SE
 Neurones S.A.
 Neurosoft Software Produc
 Novabase SGPS SA
 ORBIS AG
 Prodware
 Profile Systems & Softwar
 PSI Software AG
 RealDolmen NV
 Reply S.p.A.
 RIB Software SE
 RS2 Software p.l.c.
 SAP SE
 secunet Security Networks
 SII (Société pour l'Infor
 SNP Schneider-Neureither
 Sodifrance SA
 Soft Computing
 Software Aktiengesellscha
 Solteq Oyj
 Sopra Steria Group
 SQLi
 SQS Software Quality Syst
 Streamwide S.A.
 Sword Group S.E.
 Tessi SA
 Tieto Oyj
 TXT e-solutions S.p.A.
 Umanis SA
 USU Software AG
 Wavestone SA
 Xing SE

GICS 451010

auFeminin.com
 B+S Bankssysteme
 Aktienges
 Dalenys
 Datalex plc
 HolidayCheck Group AG
 Innofactor Plc
 SQLi
 Xing SE

GICS 451020

adesso AG
 Affecto Oyj
 All for One Steeb AG
 Allgeier SE
 Alten SA
 Altran Technologies S.A.

Amadeus IT Group, S.A.
 ATOSS Software AG
 Aubay Société Anonyme
 Be Think, Solve, Execute
 Business & Decision SA
 Cancom SE
 Capgemini SE
 DATAGROUP SE
 Devoteam SA
 GFI Informatique SA
 GFT Technologies SE
 Groupe Open
 Infotel SA
 ITS Group
 Keyrus S.A.
 Keyware Technologies NV
 KPS AG
 Neurones S.A.
 Novabase SGPS SA
 ORBIS AG
 Prodware
 Reply S.p.A.
 secunet Security Networks
 SII (Société pour l'Infor
 SNP Schneider-Neureither
 Sodifrance SA
 Soft Computing
 Sopra Steria Group
 Tessi SA
 Tieto Oyj
 Umanis SA
 Wavestone SA

GICS 451030

Axway Software SA
 BasWare Oyj
 Bittium Oyj
 CAD IT S.p.A.
 CENIT Aktiengesellschaft
 Dalet S.A.
 Dassault Systèmes SE
 Digital Bros S.p.A.
 EASY SOFTWARE AG
 ESI Group SA
 Exprivia S.p.A.
 Fabasoft AG
 Generix SA
 GK Software AG
 i:FAO Aktiengesellschaft
 IGE+XAO Group
 init innovation in traffi
 InVision Aktiengesellscha
 IT Link SA
 Itesoft S.A.
 IVU Traffic Technologies
 Lectra SA
 Linedata Services S.A.
 Mensch und Maschine
 Softw
 Nemetschek SE
 Neurosoft Software Produc

Profile Systems & Softwar
 PSI Software AG
 RIB Software SE
 RS2 Software p.l.c.
 SAP SE
 Software Aktiengesellscha
 Solteq Oyj
 Streamwide S.A.
 TXT e-solutions S.p.A.
 USU Software AG

GICS 45200

A/S SAF Tehnika
 ACTIA Group S.A.
 ADVA Optical Networking S
 ASBISc Enterprises Plc
 Aspocomp Group Oyj
 AT & S Aktiengesellschaft
 AURES Technologies S.A.
 Barco NV
 Basler Aktiengesellschaft
 DATA MODUL
 Aktiengesellsc
 Datalogic S.p.A.
 Diebold Nixdorf Aktienges
 Dom Security
 Esprinet S.p.A.
 EVS Broadcast Equipment
 S
 exceet Group SE
 Fortec Elektronik AG
 Ingenico Group - GCS
 Isra Vision AG
 Kapsch TrafficCom AG
 Lacroix SA
 Logicom Public Limited
 LPKF Laser & Electronics
 Microwave Vision S.A.
 N.V. Nederlandsche Appara
 Neopost S.A.
 Neways Electronics Intern
 Nice S.p.A.
 SAES Getters S.p.A.
 Scanfil Oyj
 Schweizer Electronic AG
 SES-imagotag
 Vaisala Oyj
 Videlio SA
 Viscom AG
 Zenitel NV

GICS 452010

A/S SAF Tehnika
 ADVA Optical Networking S
 EVS Broadcast Equipment
 S
 Microwave Vision S.A.
 Zenitel NV

GICS 452030

ACTIA Group S.A.
 ASBISc Enterprises Plc

Aspocomp Group Oyj
 AT & S Aktiengesellschaft
 AURES Technologies S.A.
 Barco NV
 Basler Aktiengesellschaft
 DATA MODUL
 Aktiengesellsc
 Datalogic S.p.A.
 Dom Security
 Esprinet S.p.A.
 exceed Group SE
 Ingenico Group - GCS
 Isra Vision AG
 Kapsch TrafficCom AG
 Lacroix SA
 Logicom Public Limited
 LPKF Laser & Electronics
 N.V. Nederlandsche Appara
 Neways Electronics Intern
 Nice S.p.A.
 SAES Getters S.p.A.
 Scanfil Oyj
 Schweizer Electronic AG
 SES-imagotag
 Vaisala Oyj
 Videlio SA
 Viscom AG

GICS 4530

ams AG
 ASM International NV
 ASML Holding N.V.
 BE Semiconductor Industri
 ELMOS Semiconductor AG
 First Sensor AG
 Infineon Technologies AG
 Melexis NV
 SMA Solar Technology AG
 SÜSS MicroTec SE

GICS 50

Afone S.A.
 Deutsche Telekom AG
 Drillisch AG
 ecotel communication ag
 EI Towers S.p.A
 Elisa Oyj
 freenet AG
 GO p.l.c.
 Hellenic Telecommunicatio
 Iliad SA
 Keyyo S.A.
 Koninklijke KPN N.V.
 Millicom International Ce
 Newsphone Hellas SA
 Orange Belgium S.A.
 Orange S.A.
 Proximus PLC
 Sonaecom, SGPS, S.A.
 Telefónica, S.A.
 Telekom Austria Aktienges

Telekom Slovenije d.d.
 Telia Lietuva, AB

GICS 501010

Afone S.A.
 EI Towers S.p.A
 Elisa Oyj
 GO p.l.c.
 Iliad SA
 Keyyo S.A.
 Newsphone Hellas SA
 Proximus PLC
 Telefónica, S.A.
 Telekom Austria Aktienges
 Telekom Slovenije d.d.
 Telia Lietuva, AB

GICS 501020

Drillisch AG
 freenet AG
 Millicom International Ce
 Orange Belgium S.A.
 Sonaecom, SGPS, S.A.

GICS 55

A2A S.p.A.
 ACEA S.p.A.
 Acsm-Agam S.p.A.
 Albioma
 Ascopiave S.p.A.
 Athens Water Supply and S
 Capital Stage AG
 Compagnie Parisienne de C
 EDP - Energias de Portuga
 EDP Renováveis, S.A.
 Electricité de France S.A
 Électricite de Strasbourg
 Elia System Operator SA
 Endesa, S.A.
 Enel SpA
 Energiekontor AG
 ERG S.p.A.
 EVN AG
 Fortum Oyj
 Gas Natural SDG, S.A.
 Gelsenwasser AG
 Hera S.p.A.
 Iberdrola, S.A.
 Iren SpA
 JSC Latvijas Gaze
 Lietuvos energijos gamyba
 Mainova AG
 MVV Energie AG
 Red Eléctrica Corporación
 REN - Redes Energéticas N
 Rubis
 SUEZ SA
 TERN - Rete Elettrica Na
 Terna Energy Societe Anon
 Thessaloniki Water Supply
 Veolia Environnement S.A.

VERBUND AG

GICS 551010

Electricité de France S.A
 Électricite de Strasbourg
 Elia System Operator SA
 Endesa, S.A.
 Enel SpA
 EVN AG
 Fortum Oyj
 Red Eléctrica Corporación
 TERN - Rete Elettrica Na

GICS 551030

Compagnie Parisienne de C
 Gelsenwasser AG
 Mainova AG
 MVV Energie AG
 SUEZ SA
 Veolia Environnement S.A.

GICS 551050

Albioma
 Capital Stage AG
 EDP Renováveis, S.A.
 Energiekontor AG
 ERG S.p.A.
 Lietuvos energijos gamyba
 Terna Energy Societe Anon

GICS 601010

Aedifica SA
 alstria office REIT-AG
 Altarea Cogedim
 ANF Immobilier
 Argan SA
 Ascencio SCA
 Care Property Invest NV
 CeGeREAL
 Cofinimmo SA
 Eurocommercial Properties
 Foncière des Murs
 Foncière des Régions
 Frey SA
 Gecina
 Hamborner REIT AG
 Home Invest Belgium S.A.
 Icade
 Immobiliare Grande Distri
 Immobiliere Dassault SA
 Intervest Offices & Wareh
 Leasinvest Real Estate SC
 Mercialys
 Montea Comm. VA
 MRM
 Peref SA
 Patrimoine et Commerce
 SA
 Retail Estates N.V.
 Société Centrale des Bois
 Société de la Tour Eiffel

Société Foncière Lyonnais
TERREÏS
Unibail-Rodamco SE
Vastned Retail Belgium SA
Vastned Retail N.V.
Warehouses De Pauw
Warehouses Estates Belgiu
Wereldhave Belgium
Wereldhave N.V.

GICS 601020

Accentro Real Estate AG
ADLER Real Estate AG
Alpha Astika Akinita S.A.
Atenor SA
CA Immobilien Anlagen AG
CBo Territoria Société An
Citycon Oyj
Conwert Immobilien Invest
Courtois S.A.
CR Capital Real Estate AG
DEMIRE Deutsche Mittelsta
Deutsche EuroShop AG
Deutsche Real Estate AG
Deutsche Wohnen SE
DIC Asset AG
EYEMAXX Real Estate AG
Fiducial Real Estate
Foncière Volta
Gateway Real Estate AG
Groothandelsgebouwen
N.V.
Groupe Capelli
GSW Immobilien AG
Hasen-Immobilien AG
Immo Moury SCA
Inmobiliaria del Sur, S.A
Les Nouveaux
Constructeur
Nexity SA
PATRIZIA Immobilien AG
S IMMO AG
Sponda Plc
TAG Immobilien AG
Technopolis Plc
Texaf, S.A.
UBM Development AG
VGP NV
VIB Vermögen AG
Westgrund AG

Appendix L: Companies (“High-Financial-Risk” Set) in Each Industry, by GICS Code, in Eurozone

In Appendix L, a listing of companies in the set of “high-financial-risk” companies for each GICS code in the Eurozone region in the *2017 Valuation Handbook – International Industry Cost of Capital* Semi-annual Update (data through September 30, 2017) is presented.

GICS 10

A/S Latvijas Kugnieciba
 Activa Resources AG
 Amec Foster Wheeler plc
 Anglo Pacific Group plc
 Bourbon Corporation SA
 CGG
 Coal Energy S.A.
 Concordia Maritime AB (pu
 D'Amico International Shi
 EnQuest PLC
 Esso S.A.F.
 Fluxys Belgium SA
 Hunting plc
 IGas Energy Plc
 INA-Industrija nafte, d.d
 JKX Oil & Gas plc
 Lundin Petroleum AB (publ
 Petrolia SE
 Premier Oil plc
 Prosafe SE
 Revoil S.A.
 Saipem S.p.A.
 Saras S.p.A.
 Songa Offshore SE
 Tullow Oil plc
 Urals Energy Public Compa
 Vallourec SA

GICS 101010

Amec Foster Wheeler plc
 Bourbon Corporation SA
 CGG
 Hunting plc
 Petrolia SE
 Prosafe SE
 Saipem S.p.A.
 Songa Offshore SE
 Vallourec SA

GICS 101020

A/S Latvijas Kugnieciba
 Activa Resources AG
 Anglo Pacific Group plc
 Coal Energy S.A.
 Concordia Maritime AB (pu
 D'Amico International Shi
 EnQuest PLC
 Esso S.A.F.
 Fluxys Belgium SA
 IGas Energy Plc
 INA-Industrija nafte, d.d
 JKX Oil & Gas plc
 Lundin Petroleum AB (publ
 Premier Oil plc
 Revoil S.A.
 Saras S.p.A.
 Tullow Oil plc
 Urals Energy Public Compa

GICS 15

Acacia Mining plc
 Alro S.A.
 Altyn Plc
 Alumil Aluminium Industry
 Arctic Paper S.A.
 Auriant Mining AB (publ)
 Avocet Mining plc
 Bergs Timber AB (publ)
 Campine NV
 Cimpor - Cimentos de Port
 Cognor Holding S.A.
 Corbion N.V.
 Elastron S.A. - Steel Ser
 Encres Dubuit
 ERAMET S.A.
 EVRAZ plc
 Ferrum S.A.
 Gascogne SA
 H+H International A/S
 Hochschild Mining PLC
 KAZ Minerals plc
 Kenmare Resources plc
 Lonmin Plc
 Nyrstar NV
 Outokumpu Oyj
 Petropavlovsk PLC
 Przetwórstwo Tworzyw
 Sztu
 Recylex S.A.
 Semapa - Sociedade de Inv
 Sequana SA
 SKW Stahl-Metallurgie Hol
 Sonae Indústria, S.G.P.S.
 SSAB AB
 Tubos Reunidos, S.A.
 Vedanta Resources plc
 VIOHALCO S.A.
 Wienerberger AG

GICS 151040

Acacia Mining plc
 Alro S.A.
 Altyn Plc
 Alumil Aluminium Industry
 Auriant Mining AB (publ)
 Avocet Mining plc
 Cognor Holding S.A.
 Elastron S.A. - Steel Ser
 ERAMET S.A.
 EVRAZ plc
 Ferrum S.A.
 Hochschild Mining PLC
 KAZ Minerals plc
 Kenmare Resources plc
 Lonmin Plc
 Nyrstar NV
 Outokumpu Oyj
 Petropavlovsk PLC
 Recylex S.A.
 SKW Stahl-Metallurgie Hol

SSAB AB
 Tubos Reunidos, S.A.
 Vedanta Resources plc
 VIOHALCO S.A.

GICS 151050

Arctic Paper S.A.
 Bergs Timber AB (publ)
 Semapa - Sociedade de Inv
 Sequana SA
 Sonae Indústria, S.G.P.S.

GICS 20

Air France-KLM SA
 ALBA SE
 Ambienthesis S.p.A.
 Anonimi Naftiliaki Etarei
 Artefact S.A.
 Atlantska Plovidba d.d.
 Attica Holdings S.A.
 Awbud S.A.
 Balfour Beatty plc
 BE Group AB (publ)
 Beghelli S.p.A.
 Bong AB (publ)
 Bremer Lagerhaus Gesellsc
 Carraro SpA
 Catalis SE
 Christie Group plc
 Cobham plc
 Compagnie Industriali Riu
 Componenta Corporation
 Corporación Empresarial d
 CPPGroup Plc
 Dampskibsselskabet
 Norden
 De La Rue plc
 Driver Group plc
 Dromeas SA
 Drop S.A.
 Duro Felguera, S.A.
 Edenred SA
 Ergoinstal S.A.
 Erria A/S
 Fiera Milano SpA
 Finnair Oyj
 Flybe Group PLC
 Fomento de
 Construcciones
 Fountain S.A.
 GEK TERNA Holdings, Real
 Glaston Oyj Abp
 Glunz & Jensen Holding A/
 Greiffenberger AG
 Gruppo Waste Italia S.p.A
 Halcor Metal Works S.A.,
 Hamon & Cie (Internationa
 Havelock Europa plc
 Heidelberger
 Druckmaschin
 Hogg Robinson Group plc
 HTI High Tech Industries

ICTA AB (publ)
 Inapa - Inwestimentos, Pa
 Inform P. Lykos S.A.
 Institut IGH d.d.
 InterEuropa d.d.
 InterMail A/S
 Intracom Constructions So
 J&P-Avax S.A.
 Klöckner & Co SE
 Koenig & Bauer AG
 Kopex S.A.
 Latécoère S.A.
 Leonardo S.p.a.
 Logwin AG
 Luka Ploce d.d.
 Management Consulting
 Gro
 Martela Oyj
 Mera S.A.
 Mostostal Zabrze S.A.
 Mountfield Group Plc
 Nexans S.A.
 Nicolás Correa, S.A.
 Nordic Shipholding A/S
 Nurminen Logistics Oyj
 Obrascón Huarte Lain, S.A
 Pelikan Aktiengesellschaft
 Poligrafica S. Faustino S
 PostNL N.V.
 Pöyry PLC
 Prochem S.A.
 Progility PLC
 Projprzem S.A.
 Redhall Group plc
 Rentokil Initial plc
 Rosss S.p.A.
 S.C. Santierul Naval Orso
 Sacyr, S.A.
 Santa Fe Group A/S
 Schumag
 Aktiengesellschaft
 Séché Environnement SA
 Serco Group plc
 SGL Carbon SE
 SIG plc
 Société Anonyme Belge de
 Soditech SA
 Speedy Hire Plc
 St Ives plc
 Styles&Wood Group plc
 The 600 Group PLC
 TIM Spółka Akcyjna
 TREVI - Finanziaria Indus
 Tulikivi Corporation
 Uljanik Plovidba D.D.
 Unibios Holdings S.A.
 Viadukt D.D.
 Viking Supply Ships AB (p
 Vossloh AG
 Wincanton plc

GICS 2010

Awbud S.A.
 Balfour Beatty plc
 BE Group AB (publ)
 Beghelli S.p.A.
 Carraro SpA
 Cobham plc
 Componenta Corporation
 Corporación Empresarial d
 Driver Group plc
 Duro Felguera, S.A.
 Energoinstal S.A.
 Fomento de
 Construcciones
 GEK TERNA Holdings, Real
 Glunz & Jensen Holding A/
 Greiffenberger AG
 Gruppo Waste Italia S.p.A
 Halcor Metal Works S.A.,
 Hamon & Cie (Internationa
 Havelock Europa plc
 HTI High Tech Industries
 Inapa - Inwestimentos, Pa
 Institut IGH d.d.
 Intracom Constructions So
 J&P-Avax S.A.
 Klöckner & Co SE
 Koenig & Bauer AG
 Kopex S.A.
 Latécoère S.A.
 Leonardo S.p.a.
 Mera S.A.
 Mostostal Zabrze S.A.
 Mountfield Group Plc
 Nexans S.A.
 Nicolás Correa, S.A.
 Obrascón Huarte Lain, S.A
 Projprzem S.A.
 Redhall Group plc
 S.C. Santierul Naval Orso
 Schumag
 Aktiengesellschaft
 SGL Carbon SE
 SIG plc
 Société Anonyme Belge de
 Speedy Hire Plc
 The 600 Group PLC
 TIM Spółka Akcyjna
 TREVI - Finanziaria Indus
 Tulikivi Corporation
 Unibios Holdings S.A.
 Viadukt D.D.
 Vossloh AG

GICS 201020

Corporación Empresarial d
 Hamon & Cie (Internationa
 Mera S.A.
 Projprzem S.A.
 Tulikivi Corporation

GICS 201030

Awbud S.A.
 Balfour Beatty plc
 Driver Group plc
 Duro Felguera, S.A.
 Fomento de
 Construcciones
 GEK TERNA Holdings, Real
 Gruppo Waste Italia S.p.A
 Havelock Europa plc
 Institut IGH d.d.
 Intracom Constructions So
 J&P-Avax S.A.
 Mostostal Zabrze S.A.
 Mountfield Group Plc
 Obrascón Huarte Lain, S.A
 Redhall Group plc
 TREVI - Finanziaria Indus
 Viadukt D.D.

GICS 201060

Carraro SpA
 Componenta Corporation
 Energoinstal S.A.
 Glunz & Jensen Holding A/
 Greiffenberger AG
 Halcor Metal Works S.A.,
 HTI High Tech Industries
 Koenig & Bauer AG
 Kopex S.A.
 Nicolás Correa, S.A.
 S.C. Santierul Naval Orso
 Schumag
 Aktiengesellschaft
 The 600 Group PLC
 Unibios Holdings S.A.
 Vossloh AG

GICS 201070

BE Group AB (publ)
 Inapa - Inwestimentos, Pa
 Klöckner & Co SE
 SIG plc
 Speedy Hire Plc
 TIM Spółka Akcyjna

GICS 2020

ALBA SE
 Ambientthesis S.p.A.
 Artefact S.A.
 Bong AB (publ)
 Catalis SE
 Christie Group plc
 CPPGroup Plc
 De La Rue plc
 Dromeas SA
 Drop S.A.
 Edenred SA
 Fiera Milano SpA
 Fountain S.A.
 Hogg Robinson Group plc
 ICTA AB (publ)

Inform P. Lykos S.A.
InterMail A/S
Management Consulting
Gro
Martela Oyj
Pelikan Aktiengesellschaft
Poligrafica S. Faustino S
Rentokil Initial plc
Rosss S.p.A.
Santa Fe Group A/S
Séché Environnement SA
Serco Group plc
Soditech SA
St Ives plc
Styles&Wood Group plc

Logwin AG
Luka Ploce d.d.
Nordic Shipholding A/S
Nurminen Logistics Oyj
PostNL N.V.
Uljanik Plovidba D.D.
Viking Supply Ships AB (p
Wincanton plc

Landi Renzo S.p.A.
Larq S.A.
Les Hotels De Paris SA
Lexibook - Linguistic Ele
m4e AG
Mediacontech S.p.A.
Mediaset S.p.A.
Monrif S.p.A.
Mothercare plc
Mr. Bricolage SA
mybet Holding SE
NH Hotel Group, S.A.
Pearson plc
Peugeot S.A.
Philippos Nakas S.A.
Poligrafici Editoriale S.
Porta Communications Plc
Prima Moda Spolka
Akcyjna
Próchnik S.A.
Promotora de Informacione
Przedsiębiorstwo Handlu Z
Qliro Group AB (publ)
RCS MediaGroup S.p.A.
reach4entertainment enter
RNB Retail and Brands AB
S.S. Lazio S.p.A.
Safilo Group S.p.A.
SAG GEST - Soluções
Autom
Sanoma Oyj
Scandinavian Brake
System
Selected Textiles S.A.
Skano Group AS
Snaitech S.p.A.
Solaris d.d.
Solocal Group S.A.
Sport Lisboa e Benfica -
Sporttotal AG
Stockmann Oyj ABP
STV Group plc
Telenet Group Holding NV
Tom Tailor Holding AG
TomTom N.V.
Topps Tiles plc
Toupargel Groupe SA
Tribal Group plc
Venue Retail Group AB
Vocento, S.A.
Wild Bunch AG
Wistil Spółka Akcyjna
Wolford Aktiengesellschaft
Wulff-Yhtiöt Oyj

GICS 25

A. Tsokkos Hotels Public
Aalborg Boldspilklub A/S
AdUX SA
Aeffe S.p.A.
AFC Ajax NV
Antevenio, S.A.
Arena Hospitality Group d
Arnoldo Mondadori Editore
AS Baltika
Baccarat S.A.
Beate Uhse AG
Bernard Loiseau SA
Billboard AD
Caleffi S.p.A.
Centaur Media plc
Centric Holdings S.A.
Codere, S.A.
Compagnie des Alpes SA
Connect Group PLC
Cyprus Trading Corporatio
DEAG Deutsche
Entertainme
Dignity plc
Elve S.A.
Eniro AB (publ)
Findel plc
Foullis Holdings S.A.
GfK SE
Götenehus Group AB (publ)
Groclin S.A.
Groupe Flo SA
Groupe Partouche SA
Guy Degrenne S.A.
HanseYachts AG
Haynes Publishing Group P
Honkarakenne Oyj
Hornby plc
I.Kloukinas-I.Lappas S.A.
iGrandiViaggi S.p.A.
Ilkka-Yhtymä Oyj
Immsi S.p.A.
Impresa - Sociedade Gesto
Independent News & Media
InterContinental Hotels G
International Hotel Inves
Intralot S.A.
Johnston Press plc
Juventus Football Club S.
Kabel Deutschland Holding
Lafuma SA
Lampsa Hellenic Hotels S.

GICS 202010

ALBA SE
Ambienthesis S.p.A.
Bong AB (publ)
CPPGroup Plc
De La Rue plc
Dromeas SA
Drop S.A.
Edenred SA
Fiera Milano SpA
Fountain S.A.
Inform P. Lykos S.A.
InterMail A/S
Martela Oyj
Pelikan Aktiengesellschaft
Poligrafica S. Faustino S
Rentokil Initial plc
Rosss S.p.A.
Santa Fe Group A/S
Séché Environnement SA
Serco Group plc
St Ives plc
Styles&Wood Group plc

GICS 202020

Artefact S.A.
Catalis SE
Christie Group plc
Hogg Robinson Group plc
ICTA AB (publ)
Management Consulting
Gro
Soditech SA

GICS 2030

Air France-KLM SA
Anonimi Naftiliaki Etarei
Atlantska Plovidba d.d.
Attica Holdings S.A.
Bremer Lagerhaus Gesellsc
Dampskibsselskabet
Norden
Erria A/S
Finnair Oyj
Flybe Group PLC
InterEuropa d.d.

GICS 2510

Groclin S.A.
Immsi S.p.A.
Landi Renzo S.p.A.
Peugeot S.A.
Scandinavian Brake
System

GICS 2520

Aeffe S.p.A.
AS Baltika
Baccarat S.A.
Caleffi S.p.A.
Elve S.A.
Götenehus Group AB (publ)
Guy Degrenne S.A.
HanseYachts AG
Honkarakenne Oyj
Hornby plc
Lafuma SA
Lexibook - Linguistic Ele
Próchnik S.A.
Safilo Group S.p.A.
Selected Textiles S.A.
Skano Group AS
TomTom N.V.
Wistil Spółka Akcyjna
Wolford Aktiengesellschaft

GICS 252010

Baccarat S.A.
Götenehus Group AB (publ)
Guy Degrenne S.A.
Honkarakenne Oyj
Lexibook - Linguistic Ele
Skano Group AS
TomTom N.V.

GICS 252030

Aeffe S.p.A.
AS Baltika
Caleffi S.p.A.
Elve S.A.
Próchnik S.A.
Safilo Group S.p.A.
Selected Textiles S.A.
Wistil Spółka Akcyjna
Wolford Aktiengesellschaft

GICS 2530

A. Tsokkos Hotels Public
Aalborg Boldspilklub A/S
Arena Hospitality Group d
Bernard Loiseau SA
Centric Holdings S.A.
Codere, S.A.
Compagnie des Alpes SA
Dignity plc
Groupe Flo SA
Groupe Partouche SA
iGrandiViaggi S.p.A.
InterContinental Hotels G
International Hotel Inves
Intralot S.A.
Lampsa Hellenic Hotels S.
Les Hotels De Paris SA
mybet Holding SE
NH Hotel Group, S.A.

Snaitech S.p.A.
Solaris d.d.
Tribal Group plc

GICS 253010

A. Tsokkos Hotels Public
Aalborg Boldspilklub A/S
Arena Hospitality Group d
Bernard Loiseau SA
Centric Holdings S.A.
Codere, S.A.
Compagnie des Alpes SA
Groupe Flo SA
Groupe Partouche SA
iGrandiViaggi S.p.A.
InterContinental Hotels G
International Hotel Inves
Intralot S.A.
Lampsa Hellenic Hotels S.
Les Hotels De Paris SA
mybet Holding SE
NH Hotel Group, S.A.
Snaitech S.p.A.
Solaris d.d.

GICS 2540

AdUX SA
AFC Ajax NV
Antevenio, S.A.
Arnoldo Mondadori Editore
Billboard AD
Centaur Media plc
DEAG Deutsche
Entertainme
Eniro AB (publ)
GfK SE
Haynes Publishing Group P
Ilkka-Yhtymä Oyj
Impresa - Sociedade Gesto
Independent News & Media
Johnston Press plc
Juventus Football Club S.
Kabel Deutschland Holding
Larq S.A.
m4e AG
Mediacontech S.p.A.
Mediaset S.p.A.
Monrif S.p.A.
Pearson plc
Poligrafici Editoriale S.
Porta Communications Plc
Promotora de Informacione
RCS MediaGroup S.p.A.
reach4entertainment enter
S.S. Lazio S.p.A.
Sanoma Oyj
Solocal Group S.A.
Sport Lisboa e Benfica -
Sporttotal AG
STV Group plc
Telenet Group Holding NV

Vocento, S.A.
Wild Bunch AG

GICS 2550

Beate Uhse AG
Connect Group PLC
Cyprus Trading Corporatio
Findel plc
Foullis Holdings S.A.
I.Kloukinas-I.Lappas S.A.
Mothercare plc
Mr. Bricolage SA
Philippos Nakas S.A.
Prima Moda Spolka
Akcyjna
Przedsiębiorstwo Handlu Z
Qliro Group AB (publ)
RNB Retail and Brands AB
SAG GEST - Soluções
Autom
Stockmann Oyj ABP
Tom Tailor Holding AG
Topps Tiles plc
Toupargel Groupe SA
Venue Retail Group AB
Wulff-Yhtiöt Oyj

GICS 255040

Foullis Holdings S.A.
I.Kloukinas-I.Lappas S.A.
Mr. Bricolage SA
Philippos Nakas S.A.
Prima Moda Spolka
Akcyjna
Przedsiębiorstwo Handlu Z
RNB Retail and Brands AB
Topps Tiles plc
Venue Retail Group AB

GICS 30

AgroGeneration SA
Agromino A/S
Agroton Public Limited
Badel 1862 d.d.
Creta Farm S.A.
Deoleo, S.A.
Elgeka S.A.
Evrofarma SA
Foncière Euris SA
Koninklijke Wessanen N.V.
KORRES S.A. - Natural Pro
KSG Agro S.A.
Marie Brizard Wine & Spir
Milkiland N.V.
Natra, S.A.
Nireus Aquaculture S.A.
Pamapol S.A.
Papoutsanis S.A.
Park & Bellheimer AG
Premier Foods plc
Rallye SA
Vupik d.d.

GICS 3020

AgroGeneration SA
 Agromino A/S
 Agroton Public Limited
 Badel 1862 d.d.
 Creta Farm S.A.
 Deoleo, S.A.
 Evrofarma SA
 Koninklijke Wessanen N.V.
 KSG Agro S.A.
 Marie Brizard Wine & Spir
 Milkiland N.V.
 Natra, S.A.
 Nireus Aquaculture S.A.
 Pamapol S.A.
 Park & Bellheimer AG
 Premier Foods plc
 Vupik d.d.

GICS 302020

AgroGeneration SA
 Agromino A/S
 Agroton Public Limited
 Creta Farm S.A.
 Deoleo, S.A.
 Evrofarma SA
 Koninklijke Wessanen N.V.
 KSG Agro S.A.
 Milkiland N.V.
 Natra, S.A.
 Nireus Aquaculture S.A.
 Pamapol S.A.
 Premier Foods plc
 Vupik d.d.

GICS 35

ADDvise Group AB (publ)
 Bavarian Nordic A/S
 Cegedim SA
 Diagnostic and Therapeuti
 EKF Diagnostics Holdings
 EMC Instytut Medyczny S.A
 EuKedos S.p.A.
 Fagron NV
 Genus plc
 H. Lundbeck A/S
 Immunodiagnostic
 Systems
 Inspiration Healthcare Gr
 Maternus-Kliniken Aktieng
 McKesson Europe AG
 Medicea
 PZ Cormay S.A.
 SANOCHEMIA
 Pharmazeutika
 Surgical Innovations Grou
 Swissmed Centrum
 Zdrowia
 Vectura Group plc

GICS 3510

ADDvise Group AB (publ)
 Cegedim SA
 Diagnostic and Therapeuti
 EKF Diagnostics Holdings
 EMC Instytut Medyczny S.A
 EuKedos S.p.A.
 Fagron NV
 Immunodiagnostic
 Systems
 Inspiration Healthcare Gr
 Maternus-Kliniken Aktieng
 McKesson Europe AG
 Medicea
 PZ Cormay S.A.
 Surgical Innovations Grou
 Swissmed Centrum
 Zdrowia

GICS 351010

ADDvise Group AB (publ)
 EKF Diagnostics Holdings
 Immunodiagnostic
 Systems
 Inspiration Healthcare Gr
 Medicea
 PZ Cormay S.A.
 Surgical Innovations Grou

GICS 351020

Diagnostic and Therapeuti
 EMC Instytut Medyczny S.A
 EuKedos S.p.A.
 Fagron NV
 Maternus-Kliniken Aktieng
 McKesson Europe AG
 Swissmed Centrum
 Zdrowia

GICS 3520

Bavarian Nordic A/S
 Genus plc
 H. Lundbeck A/S
 SANOCHEMIA
 Pharmazeutika
 Vectura Group plc

GICS 401010

Arbuthnot Banking Group P
 Banco di Sardegna S.p.A.
 Slatinska Banka d.d.
 The Royal Bank of Scotlan
 UniCredit S.p.A.
 Unione di Banche Italiane

GICS 402030

Ambromobiliare S.p.A.
 AURELIUS Equity Opportuni
 BBGI Sicav S.A.
 City of London Investment
 DeA Capital S.p.A.
 Forrás nyRt.

Lloyd Fonds AG
 Man Group plc
 Newcap Holding A/S
 WH Ireland Group plc

GICS 45

Amper, S.A.
 AND International Publish
 APC Technology Group
 PLC
 Archos S.A.
 Beta Systems Software AG
 Byte Computer SA
 Cast SA
 Cliq Digital AG
 Connect Group NV
 CS Communication &
 System
 Ctac N.V.
 CUBE.ITG SA
 Dada S.p.A.
 Digia Oyj
 Digigram S.A.
 DNXC Corp SE
 euromicron AG
 FullSix S.p.A.
 Gefran S.p.A.
 Grupo Ezentis S.A.
 Guillemot Corporation S.A
 HF Company Soci t 
 Anonym
 ICT Group N.V.
 Incap Oyj
 Indra Sistemas, S.A.
 Innelec Multim dia SA
 INTERSHOP
 Communications
 InTiCa Systems AG
 INVISIO Communications
 AB
 Itway S.p.A.
 MEMSCAP, S.A.
 msg life ag
 Newmark Security plc
 Nokia Corporation
 Oniva Online Group Europe
 Ordina N.V.
 Parity Group plc
 Pebble Beach Systems
 Grou
 Prologue S.A.
 Quest Holdings S.A.
 Qumak S.A.
 RhythmOne plc
 Riber S.A.
 RoodMicrotec N.V.
 SDL plc
 Soprano Oyj
 TAS Tecnologia Avanzata d
 TIE Kinetix N.V.
 Tradedoubler AB
 Watchstone Group Plc
 ZOO Digital Group plc

GICS 4510

AND International Publish
Beta Systems Software AG
Byte Computer SA
Cast SA
Cliq Digital AG
CS Communication & System
Ctac N.V.
Dada S.p.A.
Digia Oyj
DNXCorp SE
FullSix S.p.A.
ICT Group N.V.
Indra Sistemas, S.A.
INTERSHOP Communications
msg life ag
Oniva Online Group Europe
Ordina N.V.
Parity Group plc
Prologue S.A.
Qumak S.A.
RhythmOne plc
SDL plc
Soprano Oyj
TAS Tecnologia Avanzata d
TIE Kinetix N.V.
Tradedoubler AB
Watchstone Group Plc
ZOO Digital Group plc

GICS 451010

AND International Publish
Dada S.p.A.
DNXCorp SE
FullSix S.p.A.
Oniva Online Group Europe
RhythmOne plc
Soprano Oyj
TIE Kinetix N.V.
Tradedoubler AB

GICS 451020

Byte Computer SA
CS Communication & System
Ctac N.V.
Digia Oyj
Indra Sistemas, S.A.
Ordina N.V.
Parity Group plc
Qumak S.A.
Watchstone Group Plc

GICS 451030

Beta Systems Software AG
Cast SA
Cliq Digital AG
ICT Group N.V.
msg life ag

Prologue S.A.
SDL plc
TAS Tecnologia Avanzata d
ZOO Digital Group plc

GICS 4520

Amper, S.A.
APC Technology Group PLC
Archos S.A.
Connect Group NV
CUBE.ITG SA
Digigram S.A.
euromicron AG
Gefran S.p.A.
Grupo Ezentis S.A.
Guillemot Corporation S.A
HF Company Soci t  Anonym
Incap Oyj
Innelec Multim dia SA
InTiCa Systems AG
INVISIO Communications AB
Itway S.p.A.
Newmark Security plc
Nokia Corporation
Pebble Beach Systems Group

GICS 452010

Amper, S.A.
euromicron AG
Grupo Ezentis S.A.
HF Company Soci t  Anonym
INVISIO Communications AB
Nokia Corporation
Pebble Beach Systems Group

GICS 452030

APC Technology Group PLC
Connect Group NV
CUBE.ITG SA
Gefran S.p.A.
Incap Oyj
Innelec Multim dia SA
InTiCa Systems AG
Itway S.p.A.
Newmark Security plc

GICS 50

Hellenic Company for Tele
Hyperion S.A.
MNI Sp lka Akcyjna
OT-Optima Telekom d.d.
Retelit S.p.A.
Telecom Italia S.p.A.
Tiscali S.p.A.

GICS 501010

Hellenic Company for Tele
Hyperion S.A.
MNI Sp lka Akcyjna
OT-Optima Telekom d.d.
Retelit S.p.A.
Telecom Italia S.p.A.
Tiscali S.p.A.

GICS 55

7C Solarparken AG
Alerion Clean Power S.p.A
Arise AB (publ)
Athena Investments A/S
Direct Energie Soci t  An
E.ON SE
Edison S.p.A.
Elektrociepownia Bedzin
EnBW Energie Baden-W rtte
ENGIE SA
ErgyCapital S.p.A.
Falck Renewables S.p.A.
FUTUREN SA
K.R.Energy S.p.A.
LITGRID AB
Public Power Corporation
RWE Aktiengesellschaft
TESGAS Sp lka Akcyjna
Velcan SA

GICS 551050

7C Solarparken AG
Alerion Clean Power S.p.A
Arise AB (publ)
Athena Investments A/S
Edison S.p.A.
ErgyCapital S.p.A.
Falck Renewables S.p.A.
FUTUREN SA
K.R.Energy S.p.A.
Velcan SA

GICS 601020

AGRARIUS AG
Banimmo S.A.
Realia Business, S.A.
TAG Colonia-Immobilien AG
Victoria Properties A/S

Appendix M:

GICS Codes in which Companies (Main Set) are Included, Eurozone

In Appendix M, a listing of the GICS codes in which each of the companies in the main set of "healthy" companies in the Eurozone region in the *2017 Valuation Handbook – International Industry Cost of Capital* Semi-annual Update (data through September 30, 2017) is presented.

2017 Valuation Handbook – International Industry Cost of Capital (data through September 30, 2017); Company and GICS List

A.S. Création Tapeten AG	25	2520	252010	Albis Leasing AG			402010
A/S SAF Tehnika	45	4520	452010	Alès Groupe S.A.	30	3030	303020
A2A S.p.A.	55			All for One Steeb AG	45	4510	451020
AB Klaipėdos nafta	10		101020	Allgeier SE	45	4510	451020
AB Linas Agro Group	30	3020	302020	Allianz SE			403010
AB Panevezio Statybos Tre	20	2010	201030	Almirall, S.A.	35	3520	352020
AB Snaige	25	2520	252010	Alpha Astika Akinita S.A.			601020
AB Zemaitijos pienas	30	3020	302020	Alstom SA	20	2010	201060
Abbey plc	25	2520	252010	alstria office REIT-AG			601010
ABC Arbitrage SA			402010	Altamir SCA			402030
Abertis Infraestructuras,	20	2030	203050	Altarea Cogedim			601010
Accell Group N.V.	25	2520	252020	Alten SA	45	4510	451020
Accentro Real Estate AG			601020	Altran Technologies S.A.	45	4510	451020
Accor SA	25	2530	253010	Altri, S.G.P.S., S.A.	15		151050
ACEA S.p.A.	55			Amadeus FiRe AG	20	2020	202020
Acerinox, S.A.	15		151040	Amadeus IT Group, S.A.	45	4510	451020
Ackermans & Van Haaren NV			402010	AMAG Austria Metall AG	15		151040
ACS, Actividades de Const	20	2010	201030	Amer Sports Corporation	25	2520	
Acsm-Agam S.p.A.	55			Amplifon SpA	35	3510	351020
ACTIA Group S.A.	45	4520	452030	AmRest Holdings SE	25	2530	253010
ADA Société Anonyme	20	2030		ams AG	45	4530	
adesso AG	45	4510	451020	Amsterdam Commodities N.V	30	3010	
Adidas AG	25	2520	252030	Andritz AG	20	2010	
Adler Modemärkte AG	25	2550	255040	ANF Immobilier			601010
ADLER Real Estate AG			601020	Anheuser-Busch InBev SA/N	30	3020	302010
ADLPartner	25	2540		Ansaldo STS S.p.A.	20	2030	203050
ADM Hamburg Aktiengesells	30	3020	302020	APB Apranga	25	2550	255040
ADVA Optical Networking S	45	4520	452010	April Société Anonyme			403010
AdVini S.A.	30	3020	302010	ARCADIS NV	20	2010	201030
Aedifica SA			601010	Argan SA			601010
Aegean Airlines S.A.	20	2030		Arkema S.A.	15		
AEGON N.V.			403010	Artprice.com	25	2540	
Aéroports de Paris SA	20	2030	203050	AS Company S.A.	25	2520	252020
Affecto Oyj	45	4510	451020	AS Grindeks	35	3520	352020
Afone S.A.	50		501010	AS Merko Ehitus	20	2010	201030
ageas SA/NV			403010	AS Olainfarm	35		
AGRANA Beteiligungs-Aktie	30	3020	302020	AS PRFoods	30	3020	302020
Ahlers AG	25	2520	252030	AS Silvano Fashion Group	25	2550	255040
Air Liquide, société anon	15		151010	AS Tallink Grupp	20	2030	
Airbus SE	20	2010	201010	ASBISc Enterprises Plc	45	4520	452030
AKKA Technologies SE	20	2020	202020	Ascencio SCA			601010
Aktia Bank p.l.c.			401010	Ascopiave S.p.A.	55		
Akzo Nobel N.V.	15		151010	ASM International NV	45	4530	
Alantra Partners S.A.			402030	ASML Holding N.V.	45	4530	
Albioma	55		551050	Aspocomp Group Oyj	45	4520	452030

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Assicurazioni Generali S.			403010	Bayerische Motoren Werke	25	2510	251020
Assystem SA	20	2020	202020	BE Semiconductor Industri	45	4530	
AST Groupe	25	2520	252010	Be Think, Solve, Execute	45	4510	451020
Astaldi S.p.A.	20	2010	201030	Beiersdorf Aktiengesellsc	30	3030	303020
Astarta Holding N.V.	30	3020	302020	Bénéteau S.A.	25	2520	252020
ASTM S.p.A.	20	2030	203050	Bertrandt Aktiengesellsch	20	2020	202020
AT & S Aktiengesellschaft	45	4520	452030	Best Union Company S.p.A.	20	2020	202010
Atenor SA			601020	Bet-At-Home.com AG	25	2530	253010
Athens Water Supply and S	55			Beter Bed Holding N.V.	25	2550	255040
Atlantia S.p.A.	20	2030	203050	BHS tabletop AG	25	2520	252010
ATOSS Software AG	45	4510	451020	Bialetti Industrie S.p.A	25	2520	252010
Atresmedia Corporación de	25	2540		Biesse S.p.A.	20	2010	201060
Atria Oyj	30	3020	302020	BigBen Interactive	25		
Aubay Société Anonyme	45	4510	451020	Bijou Brigitte modische A	25	2520	252030
auFeminin.com	45	4510	451010	Bilfinger SE	20	2020	202010
Auga Group AB	30	3020	302020	BinckBank N.V.			402030
Aurea SA	20	2020	202010	bioMérieux S.A.	35	3510	351010
AURES Technologies S.A.	45	4520	452030	Biotest Aktiengesellschaf	35	3520	
Aurubis AG	15		151040	Bittium Oyj	45	4510	451030
Autogrill S.p.A.	25	2530	253010	Bodegas Riojanas, S.A.	30	3020	302010
Autostrade Meridionali S.	20	2030	203050	Boiron SA	35	3520	352020
Avia Solutions Group AB	20	2030	203050	Bollore	20	2030	203010
AXA SA			403010	Bolsas y Mercados Españ.,			402030
Axel Springer SE	25	2540		Bonduelle SA	30	3020	302020
Axway Software SA	45	4510	451030	Bonifiche Ferraresi S.p.A	30	3020	302020
Azimut Holding S.p.A.			402030	Borussia Dortmund GmbH &	25	2540	
B&C Speakers S.p.A.	25	2520	252010	Bourrelier Group SA	25	2550	255040
B.V. Delftsch Aardewerkfa	25	2520	252010	BPER Banca S.p.A.			401010
B+S Banksysteme Aktienges	45	4510	451010	Brembo S.p.A.	25	2510	251010
Banca Generali S.p.A.			402030	Brenntag AG	20	2010	201070
Banca IFIS S.p.A.			402010	Brunel International N.V.	20	2020	202020
Banco Bilbao Vizcaya Arge			401010	BRUNELLO CUCINELLI S.p.A.	25	2520	252030
Banco BPI, S.A.			401010	Bureau Veritas SA	20	2020	202020
Banco de Sabadell, S.A.			401010	Burelle SA	25	2510	251010
Banco di Desio e della Br			401010	Business & Decision SA	45	4510	451020
Banco Santander, S.A.			401010	Buzzi Unicem SpA	15		151020
Barco NV	45	4520	452030	BWT Aktiengesellschaft	20	2020	202010
Barón de Ley, S.A.	30	3020	302010	C&C Group plc	30	3020	302010
BASF SE	15		151010	CA Immobilien Anlagen AG			601020
BasicNet S.p.A.	25	2550	255040	CAD IT S.p.A.	45	4510	451030
Basler Aktiengesellschaft	45	4520	452030	Cairo Communication S.p.A	25	2540	
Bastide Le Confort Médica	35	3510	351020	Caisse Reg. de Credit Agr			401010
BasWare Oyj	45	4510	451030	Caisse Régionale Crédit A			401010
Batenburg Techniek N.V.	20	2010		Caisse Régionale de Crédi			401010
BAUER Aktiengesellschaft	20	2010		CaixaBank, S.A.			401010

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Caltagirone SpA	15		151020	Cosmo Pharmaceuticals N.V	35	3520	352020
Cancom SE	45	4510	451020	Courtois S.A.			601020
Capgemini SE	45	4510	451020	Cpl Resources plc	20	2020	202020
Capital Stage AG	55		551050	C-QUADRAT Investment AG			402030
CapMan Oyj			402030	CR Capital Real Estate AG			601020
Care Property Invest NV			601010	Cramo Oyj	20	2010	201070
Cargotec Corporation	20	2010	201060	Credit Agricole S.A.			401010
Carl Zeiss Meditec AG	35	3510	351010	Credito Emiliano S.p.A.			401010
Carrefour SA	30	3010		CropEnergies AG	10		101020
Casino, Guichard-Perracho	30	3010		CSP International Fashion	25	2520	252030
Catering International &	20	2020	202010	CTS Eventim AG & Co. KGaA	25		
CBo Territoria Société An			601020	Daimler AG	25	2510	251020
Ceconomy AG	25	2550	255040	Dalenys	45	4510	451010
CeGeREAL			601010	Dalet S.A.	45	4510	451030
Cembre S.p.A.	20	2010	201040	Damartex	25	2520	252030
Cementir Holding S.p.A.	15		151020	Danieli & C. Officine Mec	20	2010	201060
CENIT Aktiengesellschaft	45	4510	451030	Danone	30	3020	
Centrale del Latte d'Ital	30	3020	302020	Dassault Aviation SA	20	2010	201010
CENTROTEC Sustainable AG	20	2010	201020	Dassault Systèmes SE	45	4510	451030
CEWE Stiftung & Co. KGaA	20	2020	202010	DATA MODUL Aktiengesellsc	45	4520	452030
CIE Automotive, S.A.	25	2510	251010	DATAGROUP SE	45	4510	451020
Citycon Oyj			601020	Datalex plc	45	4510	451010
Clasquin S.A.	20	2030	203010	Datalogic S.p.A.	45	4520	452030
Clínica Baviera, S.A.	35	3510	351020	Davide Campari-Milano S.p	30	3020	302010
CNP Assurances SA			403010	Deceuninck NV	20	2010	201020
Cofina, SGPS, S.A.	25	2540		Delfingen Industry S.A.	25	2510	251010
Cofinimmo SA			601010	Delignit AG	15		151050
Coil S.A./N.V.	15		151040	De'Longhi S.p.A.	25	2520	252010
Colas SA	20	2010	201030	Delta Plus Group	20	2020	202010
comdirect bank Aktiengese			401010	Delticom AG	25	2550	255020
Compagnie de Saint-Gobain	20	2010		DEMIRE Deutsche Mittelsta			601020
Compagnie d'Entreprises C	20	2010	201030	Derichebourg	20	2020	202010
Compagnie du Bois Sauvage			402010	Deufol SE	20	2030	203010
Compagnie Du Mont-Blanc	25	2530	253010	Deutsche Balaton AG			402030
Compagnie Générale Établi	25	2510	251010	Deutsche Beteiligungs AG			402030
Compagnie Industrielle Fi	20	2010	201030	Deutsche Börse Aktiengese			402030
Compagnie Lebon			402030	Deutsche EuroShop AG			601020
Compagnie Parisienne de C	55		551030	Deutsche Lufthansa Aktien	20		
Compagnie Plastic Omnium	25	2510	251010	Deutsche Post AG	20	2030	203010
CompuGroup Medical Societ	35	3510	351030	Deutsche Real Estate AG			601020
Constantin Medien AG	25	2540		Deutsche Telekom AG	50		
Construcciones y Auxiliar	20	2010	201060	Deutsche Wohnen SE			601020
Constructions Industriell	20	2020	202010	DEUTZ Aktiengesellschaft	20	2010	201060
Continental Aktiengesells	25	2510	251010	Devoteam SA	45	4510	451020
Conwert Immobilien Invest			601020	DiaSorin S.p.A.	35	3510	351010

DIC Asset AG			601020	eQ Oyj			402030
Diebold Nixdorf Aktienges	45	4520		Ercros, S.A.	15		151010
Dierig Holding AG	25	2520	252030	ERG S.p.A.	55		551050
D'leteren SA	25			ESI Group SA	45	4510	451030
Digital Bros S.p.A.	45	4510	451030	Esprinet S.p.A.	45	4520	452030
Distribuidora Internacion	30	3010		Essilor Int'l Société Ano	35	3510	351010
DLSI	20	2020	202020	Etablissements Maurel & P	10		101020
DMG Mori Aktiengesellscha	20	2010	201060	Etn. Fr. Colruyt NV	30	3010	
DO & CO Aktiengesellschaf	25	2530	253010	Euler Hermes Group SA			403010
Dom Security	45	4520	452030	Eurazeo SE			402010
Dovre Group Plc	20	2020	202020	Euro Ressources S.A.	15		151040
DPA Group N.V.	20	2020	202020	Eurocommercial Properties			601010
Drillisch AG	50		501020	Eurofins Scientific SE	35	3520	
Dürkopp Adler AG	20	2010	201060	EUROKAI GmbH & Co. KGaA	20	2030	203050
EASY SOFTWARE AG	45	4510	451030	Euromedis Groupe	35	3510	351010
Ebro Foods, S.A.	30	3020	302020	Euronav NV	10		101020
ECA SA	20	2010	201010	European Reliance Gen. In			403010
Eckert & Ziegler BEBIG S.	35	3510	351010	Eutelsat Communications S	25	2540	
Eckert & Ziegler Strahlen	35			EVN AG	55		551010
ecotel communication ag	50			Evolis SA	45		
edding AG	20	2020	202010	Evotec AG	35	3520	
EDP - Energias de Portuga	55			EVS Broadcast Equipment S	45	4520	452010
EDP Renováveis, S.A.	55		551050	Exacompta Clairefontaine	15		151050
EI Towers S.p.A	50		501010	except Group SE	45	4520	452030
Eifelhöhen-Klinik AG	35	3510	351020	Exel Composites Oyj	20	2010	201060
Eiffage SA	20	2010	201030	Exmar NV	10		101020
Einhell Germany AG	25	2520	252010	Exor N.V.			402010
Elecnor, S.A.	20	2010	201030	Exprivia S.p.A.	45	4510	451030
Elecster Oyj	20	2010	201060	EYEMAXX Real Estate AG			601020
Electricité de France S.A	55		551010	F. Ramada Investimentos,	15		151040
Électricite de Strasbourg	55		551010	F.G. Europe S.A.	25	2550	
Elia System Operator SA	55		551010	Fabasoft AG	45	4510	451030
Élica S.p.A.	25	2520	252010	Faes Farma, S.A.	35	3520	352020
Elisa Oyj	50		501010	Faurecia S.A.	25	2510	251010
ELMOS Semiconductor AG	45	4530		FBD Holdings plc			403010
ElringKlinger AG	25	2510	251010	Ferrovial, S.A.	20		
Eltrak S.A.	20	2010	201070	Fiat Chrysler Automobiles	25	2510	251020
Emak S.p.A.	25	2520	252010	Fidia S.p.A.	20	2010	201060
Enagás, S.A.	10		101020	Fiducial Real Estate			601020
ENCE Energía y Celulosa,	15		151050	Fielmann AG	25	2550	255040
Endesa, S.A.	55		551010	Financière de l'Odet SA	20	2030	203010
Enel SpA	55		551010	FinTech Group AG			402030
Energiekontor AG	55		551050	First Sensor AG	45	4530	
Enervit S.p.A.	30	3030	303020	Fiskars Oyj Abp	25	2520	252010
EPC Groupe	15		151010	Fleury Michon SA	30	3020	302020

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Flexopack Soc. Anonyme Pl	15		151030	Greek Organization of Foo	25	2530	253010
Flour Mills Keponos S.A.	30	3020	302020	Greencore Group plc	30	3020	302020
Flughafen Wien Aktiengese	20	2030	203050	Greenyard NV	30	3020	302020
FNM S.p.A.	20	2030		Grenke AG			402010
Folli-Follie Commercial M	25			Grifols, S.A.	35	3520	
Foncière des Murs			601010	Groothandelsgebouwen N.V.			601020
Foncière des Régions			601010	Groupe Bruxelles Lambert			402010
Foncière Volta			601020	Groupe Capelli			601020
FORIS AG			402010	Groupe CRIT SA	20	2020	202020
Fortec Elektronik AG	45	4520		Groupe Gorgé SA	20	2010	201060
Fortum Oyj	55		551010	Groupe Guillin S.A.	15		151030
Fortuna Entertainment Gro	25	2530	253010	Groupe Laurent-Perrier	30	3020	302010
freenet AG	50		501020	Groupe LDLC	25	2550	255020
Frey SA			601010	Groupe Open	45	4510	451020
FRIWO AG	20	2010	201040	Groupe Pizzorno Environne	20	2020	202010
Fromageries Bel	30	3020	302020	Grupo Catalana Occidente,			403010
FRoSTA Aktiengesellschaft	30	3020	302020	GSW Immobilien AG			601020
Funespaña, S.A.	25	2530		Guerbet SA	35	3510	351010
Galaxidi Marine Farm S.A.	30	3020	302020	H&R GmbH & Co. KGaA	15		151010
Gas Natural SDG, S.A.	55			HAEMATO AG	35	3510	351020
Gas Plus S.p.A.	10		101020	Hamborner REIT AG			601010
Gateway Real Estate AG			601020	Hamburger Hafen und Logis	20	2030	203050
Gaumont SA	25	2540		Hannover Rück SE			403010
GEA Group Aktiengesellsch	20	2010	201060	Hasen-Immobilien AG			601020
Gecina			601010	Haulotte Group SA	20	2010	201060
GEDI Gruppo Editoriale S.	25	2540		Havas SA	25	2540	
Gelsenwasser AG	55		551030	Hawesko Holding Aktienges	30	3010	
General Commercial & Indu	20	2010	201070	Heineken N.V.	30	3020	302010
Generix SA	45	4510	451030	Hellenic Exchanges			402030
Geox S.p.A.	25	2520	252030	Hellenic Telecommunicatio	50		
Gérard Perrier Industrie	20	2010	201040	Hera S.p.A.	55		
Geratherm Medical AG	35	3510	351010	Hermès International Soci	25	2520	252030
Gerry Weber International	25			Heurtey Petrochem S.A.	10		101010
Getlink	20	2030	203050	High Co. SA	25	2540	
GFI Informatique SA	45	4510	451020	Hiolle Industries	20	2010	201060
GFT Technologies SE	45	4510	451020	HKScan Oyj	30	3020	302020
GIMV NV			402030	HOCHTIEF Aktiengesellscha	20	2010	201030
GK Software AG	45	4510	451030	HolidayCheck Group AG	45	4510	451010
GL Events	20	2020	202010	Holland Colours NV	15		151010
Glanbia plc	30			Home Invest Belgium S.A.			601010
GO p.l.c.	50		501010	Hopscotch Global PR Group	25	2540	
GORENJE, d.d.	25	2520	252010	Hornbach Baumarkt AG	25	2550	255040
Gr. Sarantis S.A.	30	3030		HSBC Trinkaus & Burkhardt			401010
Graines Voltz	25	2550		Hugo Boss AG	25	2520	252030
Grammer Aktiengesellschaf	25	2510	251010	Huhtamäki Oyj	15		151030

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Hypoport AG			402010	Itesoft S.A.	45	4510	451030
I.M.A. Industria Macchine	20	2010	201060	ITS Group	45	4510	451020
i:FAO Aktiengesellschaft	45	4510	451030	IVU Traffic Technologies	45	4510	451030
IASO S.A.	35	3510	351020	Jacquet Metal Service SA	20	2010	201070
Iberdrola, S.A.	55			JCDecaux SA	25	2540	
Iberpapel Gestión, S.A.	15		151050	Jenoptik AG	45		
Ibersol, S.G.P.S., S.A.	25	2530	253010	Jensen-Group NV	20	2010	201060
Icade			601010	Jerónimo Martins, SGPS, S	30	3010	
ID Logistics Group SA	20	2030	203010	Joh. Friedrich Behrens AG	20	2010	201020
IDI			402030	JSC Latvijas Gaze	55		
IFA Hotel & Touristik Akt	25	2530	253010	Jumbo S.A.	25	2550	255040
Ifa Systems Ag	35	3510	351030	Jungheinrich Aktiengesell	20	2010	201060
IFG Group plc			402010	K+S Aktiengesellschaft	15		
IGE+XAO Group	45	4510	451030	KAP Beteteiligungs-AG	20	2010	
Iktinos Hellas S.A.	15		151040	Kapsch TrafficCom AG	45	4520	452030
Iliad SA	50		501010	KARATZIS S.A.	15		151030
Imerys SA	15		151020	Karelia Tobacco Company I	30	3020	
Immo Moury SCA			601020	KAS BANK N.V.			402030
Immobiliare Grande Distri			601010	Kaufman & Broad S.A.	25	2520	252010
Immobiliere Dassault SA			601010	KBC Group NV			401010
INDUS Holding AG	20	2010		KDM Shipping Public Limit	20	2030	
Industria de Diseño Texti	25	2550	255040	Kemira Oyj	15		151010
Infas Holding Aktiengesel	25	2540		Kering SA	25		
Infineon Technologies AG	45	4530		Kernel Holding S.A.	30	3020	302020
Infotel SA	45	4510	451020	Kerry Group plc	30	3020	302020
ING Groep N.V.			401010	Keskisuomalainen Oyj	25	2540	
Ingenico Group - GCS	45	4520	452030	Kesla Oyj	20	2010	201060
init innovation in traffi	45	4510	451030	Keyrus S.A.	45	4510	451020
Inmobiliaria del Sur, S.A			601020	Keyware Technologies NV	45	4510	451020
Innofactor Plc	45	4510	451010	Keyyo S.A.	50		501010
Innotec TSS AG	20	2010	201020	Kingspan Group plc	20	2010	201020
Installux SA	20	2010	201020	Klassik Radio AG	25	2540	
InterParfums SA	30	3030	303020	KONE Oyj	20	2010	201060
Interpump Group S.p.A.	20	2010	201060	Konecranes Plc	20		
Intervest Offices & Wareh			601010	Koninklijke Ahold Delhaiz	30	3010	
Int'l Consolidated Airlin	20	2030		Koninklijke Brill NV	25	2540	
InVision Aktiengesellscha	45	4510	451030	Koninklijke KPN N.V.	50		
Ion Beam Applications SA	35	3510	351010	Korian	35	3510	351020
Ipsen S.A.	35	3520	352020	KPS AG	45	4510	451020
Ipsos SA	25	2540		Kri Kri S.A.	30	3020	302020
IRCE S.p.A.	20	2010	201040	Krka, d. d.	35	3520	352020
Iren SpA	55			KROMI Logistik AG	20	2010	201070
Isagro S.p.A.	15		151010	Krones AG	20	2010	201060
Isra Vision AG	45	4520	452030	KSB SE & Co. KGaA	20	2010	201060
IT Link SA	45	4510	451030	KTM Industries AG	25	2510	251020

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KUKA Aktiengesellschaft	20	2010	201060	Maschinenfabrik Berthold	20	2010	201060
Kulmbacher Brauerei	30	3020	302010	Masterflex SE	20	2010	201060
KWS Saat SE	30	3020	302020	MAX Automation SE	20	2010	201060
L.D.C. S.A.	30	3020	302020	Mayr-Melnhof Karton AG	15		
La Doria SpA	30	3020	302020	Media 6 SA	25	2540	
Laboratorios Farmaceutico	35	3520	352020	Mediaset España Comunicac	25	2540	
Lacroix SA	45	4520	452030	MEDICLIN Aktiengesellscha	35	3510	351020
Lagardère SCA	25			Melexis NV	45	4530	
Lanson-BCC	30	3020	302010	Meliá Hotels Internationa	25	2530	253010
Lassila & Tikanoja Oyj	20	2020	202010	Mensch und Maschine Softw	45	4510	451030
Latvijas Balzams AS	30	3020	302010	Mercialys			601010
Le Bélier S.A.	15		151040	Merck Kommanditgesellscha	35	3520	352020
Leasinvest Real Estate SC			601010	Métropole Télévision S.A.	25	2540	
Lectra SA	45	4510	451030	Metsä Board Oyj	15		151050
Legrand SA	20	2010	201040	Metso Corporation	20	2010	201060
Leifheit Aktiengesellscha	25	2520	252010	Mevaco S.A.	20	2010	201060
Lenzing Aktiengesellschaf	15		151010	MeVis Medical Solutions A	35	3510	351030
Les Nouveaux Constructeur			601020	MGI Coutier SA	25	2510	251010
Lietuvos energijos gamyba	55		551050	Microwave Vision S.A.	45	4520	452010
Linde Aktiengesellschaft	15		151010	Millicom International Ce	50		501020
Linedata Services S.A.	45	4510	451030	Miquel y Costas & Miquel,	15		151050
Lingotes Especiales, S.A.	25	2510	251010	MLP SE			402030
Linz Textil Holding Aktie	25	2520	252030	Mondo TV S.p.A.	25	2540	
Lisi S.A.	20	2010	201010	Montea Comm. VA			601010
LNA Santé SA	35	3510	351020	Mota-Engil, SGPS, S.A.	20	2010	201030
L'Occitane International	25	2550	255040	Moury Construct SA	20	2010	201030
Logicom Public Limited	45	4520	452030	MRM			601010
L'Oréal S.A.	30	3030	303020	MS Industrie AG	20	2010	201060
Lotus Bakeries NV	30	3020	302020	MTU Aero Engines AG	20		
Loulis Mills S.A.	30	3020	302020	Muehlhan AG	20		
LPKF Laser & Electronics	45	4520	452030	Müller - Die lila Logisti	20	2030	203010
LS telcom AG	45	4510		Münchener Rückversicherun			403010
LUDWIG BECK am Rathauseck	25	2550		MVV Energie AG	55		551030
Luka Koper d.d.	20	2030	203050	N.V. Nederlandsche Appara	45	4520	452030
Luxempart S.A.			402030	Nabaltec AG	15		151010
Luxottica Group S.p.A.	25	2520	252030	Nanogate AG	15		151010
Mainova AG	55		551030	Natixis S.A.			402030
Maisons France Confort S.	25	2520	252010	Nemetschek SE	45	4510	451030
Makheia Group Société Ano	25	2540		Neopost S.A.	45	4520	
MAN SE	20	2010	201060	Neurones S.A.	45	4510	451020
Manitou BF SA	20	2010	201060	Neurosoft Software Produc	45	4510	451030
Manutan International SA	25	2550	255020	Neways Electronics Intern	45	4520	452030
Mapfre, S.A.			403010	Newsphone Hellas SA	50		501010
Marimekko Oyj	25	2520	252030	Nexity SA			601020
MARR S.p.A.	30	3010		Nexus AG	35	3510	351030

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Nice S.p.A.	45	4520	452030	PEH Wertpapier AG			402030
Nokian Renkaat Oyj	25	2510	251010	Pernod Ricard SA	30	3020	302010
Nordex SE	20	2010	201040	Petro Welt Technologies A	10		101010
Nordwest Handel AG	20	2010	201070	Petrol d.d.	25	2550	255040
NORMA Group SE	20	2010	201060	Petrolina (Holdings) Publ	10		101020
NOS, S.G.P.S., S.A.	25	2540		Pfeiffer Vacuum Technolog	20	2010	201060
Novabase SGPS SA	45	4510	451020	pferdewetten.de AG	25	2530	253010
NRJ Group SA	25	2540		Pharma Mar, S.A.	35	3520	
NSC Groupe SA	20	2010	201060	Pharmagest Interactive SA	35	3510	351030
NSE Industries SA	20	2010	201010	Piaggio & C. SpA	25	2510	251020
NV Bekaert SA	15		151040	Picanol NV	20	2010	201060
Oeneo SA	15		151030	Piquadro S.p.A.	25	2520	252030
OHB SE	20	2010	201010	Piraeus Port Authority S.	20	2030	203050
Oldenburgische Landesbank			401010	Piscines Desjoyaux SA	25	2520	252020
Olvi Oyj	30	3020	302010	PKC Group Oyj	20	2010	201040
Olympic Entertainment Gro	25	2530	253010	Plaisio Computers S.A.	25	2550	255040
OMV Aktiengesellschaft	10		101020	PNE Wind AG	20	2010	201040
Orange Belgium S.A.	50		501020	Pohjois-Karjalan Kirjapai	25	2540	
Orange S.A.	50			Polytec Holding AG	25	2510	251010
Oranjewoud N.V.	20	2010	201030	Ponsse Oyj	20	2010	201060
Orapi	15		151010	Poujoulat SA	20	2010	201020
ORBIS AG	45	4510	451020	Pozavarovalnica Sava, d.d			403010
Orchestra-Prémaman S.A.	25	2520	252030	Prada S.p.A	25	2520	252030
Origin Enterprises plc	30	3020	302020	Precia SA	20	2010	201060
Oriola Oyj	35	3510	351020	Prim, S.A.	35	3510	351010
Orion Oyj	35	3520	352020	Prima Industrie S.p.A.	20	2010	201060
ORPEA Société Anonyme	35	3510	351020	Prodware	45	4510	451020
Österreichische Post AG	20	2030	203010	Profile Systems & Softwar	45	4510	451030
Ottakringer Getränke AG	30	3020	302010	Progress Werk Oberkirch A	25	2510	251010
OVB Holding AG			402030	Prosegur Compañía de Segu	20	2020	202010
Ovostar Union N.V.	30	3020	302020	Proximus PLC	50		501010
Paddy Power Betfair plc	25	2530	253010	Prysmian S.p.A.	20	2010	
Palfinger AG	20	2010	201060	PSB Industries	15		151030
Panariagroup Industrie Ce	20	2010	201020	PSI Software AG	45	4510	451030
Papeles y Cartones de Eur	15			Publicis Groupe S.A.	25	2540	
Paperpack A.B.E.E.	15		151030	PUMA SE	25	2520	252030
Paragon AG	25	2510	251010	R. Stahl AG	20	2010	201060
Paref SA			601010	Raiffeisen Bank Internati			401010
Parmalat S.p.A.	30	3020	302020	Raisio plc	30	3020	302020
Passat Société Anonyme	25	2550	255020	Ramirent Oyj	20	2010	201070
Patrimoine et Commerce SA			601010	Randstad Holding NV	20	2020	202020
PATRIZIA Immobilien AG			601020	Rapala VMC Corporation	25		
Paul Hartmann AG	35	3510	351010	RATIONAL Aktiengesellscha	20	2010	201060
PCAS SA	35	3520		Ratti S.p.A.	25	2520	252030
Pegas Nonwovens S.A.	25	2520	252030	Raute Oyj	20	2010	201060

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RealDolmen NV	45	4510		Sartorius Stedim Biotech	35	3510	351010
Recordati S.p.A.	35	3520	352020	SAVE S.p.A.	20	2030	203050
Red Eléctrica Corporación	55		551010	Savencia SA	30	3020	302020
Reinet Investments S.C.A.			402030	Scanfil Oyj	45	4520	452030
Rémy Cointreau SA	30	3020	302010	Schloss Wachenheim AG	30	3020	302010
REN - Redes Energéticas N	55			Schneider Electric S.E.	20		
Renault SA	25	2510	251020	Schweizer Electronic AG	45	4520	452030
Renk Aktiengesellschaft	25	2510	251010	SCOR SE			403010
Reno De Medici S.p.A.	15		151030	SEB SA	25	2520	252010
Renta 4 Banco, S.A.			402030	secunet Security Networks	45	4510	451020
Reply S.p.A.	45	4510	451020	Servizi Italia S.p.A.	35	3510	351020
Repsol, S.A.	10		101020	SES S.A.	25	2540	
Resilux NV	15		151030	SES-imagotag	45	4520	452030
Retail Estates N.V.			601010	SHW AG	25	2510	251010
Revenio Group Oyj	35	3510	351010	Siemens Gamesa Renewable	20	2010	201040
Rexel S.A.	20	2010	201070	Signaux Girod S.A.	20	2030	203050
RHI Magnesita N.V.	15		151020	SII (Société pour l'Infor	45	4510	451020
Rhön-Klinikum Aktiengesel	35	3510	351020	SIMONA Aktiengesellschaft	15		151010
RIB Software SE	45	4510	451030	SinnerSchrader Aktiengese	25	2540	
Rokiskio Suris AB	30	3020	302020	Sioen Industries NV	25	2520	252030
Rosenbauer International	20	2010	201060	Sligro Food Group N.V.	30	3010	
Rothschild & Co SCA			402030	SMA Solar Technology AG	45	4530	
Roularta Media Group NV	25	2540		SMT Scharf AG	20	2010	201060
Royal Boskalis Westminste	20	2010	201030	Smurfit Kappa Group plc	15		151030
RS2 Software p.l.c.	45	4510	451030	Snam S.p.A.	10		101020
RTL Group SA	25	2540		SnowWorld N.V.	25	2530	253010
Rubis	55			SNP Schneider-Neureither	45	4510	451020
Ryanair Holdings plc	20	2030		Socfinasia S.A.	30	3020	302020
S IMMO AG			601020	Società Cattolica di Assi			403010
S&T AG	45			Società Iniziative Autost	20	2030	203050
Sabaf S.p.A.	25	2520	252010	Société Centrale des Bois			601010
Sabeton SA	30	3020	302020	Société de la Tour Eiffel			601010
SAES Getters S.p.A.	45	4520	452030	Société de Services,de Pa	30	3020	302010
Saf-Holland S.A.	25	2510	251010	Société Foncière Lyonnais			601010
Safran SA	20	2010	201010	Société Française de Casi	25	2530	253010
Saga Furs Oyj	20	2020	202010	Société Internationale de	15	3020	151010
Salini Impregilo S.p.A.	20	2010	201030	Sodifrance SA	45	4510	451020
SALUS, Ljubljana, d. d.	35	3510	351020	Sofina Société Anonyme			402010
Salvatore Ferragamo S.p.A	25	2520	252030	Soft Computing	45	4510	451020
Sampo Oyj			403010	Softing AG	45		
Samse SA	25	2550	255040	Software Aktiengesellscha	45	4510	451030
Samsonite International S	25	2520	252030	Sogclair SA	20	2010	201010
Sanofi	35	3520	352020	Sogefi S.p.A.	25	2510	251010
SAP SE	45	4510	451030	Sol SpA	15		151010
Sapmer SA	30	3020	302020	Solteq Oyj	45	4510	451030

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Solvay SA	15		151010	TERNA - Rete Elettrica Na	55		551010
Somfy SA	20	2010	201040	Terna Energy Societe Anon	55		551050
Sonaecom, SGPS, S.A.	50		501020	TerniEnergia S.p.A.	45		
Sopra Steria Group	45	4510	451020	TERREIS			601010
Splendid Medien AG	25	2540		Tesmec S.p.A.	20	2010	201060
Sponda Plc			601020	Tessi SA	45	4510	451020
SQLi	45	4510	451010	Texaf, S.A.			601020
SQS Software Quality Syst	45	4510		TFF Group	15		151030
SRV Group Plc	20	2010	201030	Thales S.A.	20	2010	201010
STADA Arzneimittel Aktien	35	3520	352020	The Navigator Company, S.	15		151050
Stallergenes Greer Plc	35	3520	352020	Thermador Groupe Société	20	2010	201070
STEF S.A.	20	2030		Thessaloniki Port Authori	20	2030	203050
Stelios Kanakis Industria	30	3010		Thessaloniki Water Supply	55		
Stern Groep N.V.	25	2550	255040	Tieto Oyj	45	4510	451020
Sto SE & Co. KGaA	15		151020	Tikkurila Oyj	15		151010
Stora Enso Oyj	15			Tipiak Société Anonyme	30	3020	302020
Strabag SE	20	2010	201030	Titan Cement Company S.A.	15		151020
STRATEC Biomedical AG	35	3510	351010	Tivoly S.A.	20	2010	201060
Streamwide S.A.	45	4510	451030	TKH Group N.V.	20	2010	
Ströer SE & Co. KGaA	25	2540		TOD'S S.p.A.	25	2520	252030
Subsea 7 S.A.	10		101010	Toscana Aeroporti S.p.A.	20	2030	203050
Südzucker AG	30	3020	302020	Total Produce plc	30	3010	
SUEZ SA	55		551030	Trigano S.A.	25	2520	252020
Suominen Oyj	30	3030		Tubacex, S.A.	15		151040
SÜSS MicroTec SE	45	4530		TUI AG	25	2530	253010
Sword Group S.E.	45	4510		Turbon AG	20	2020	202010
Synergie SE	20	2020	202020	TXT e-solutions S.p.A.	45	4510	451030
Syzygy AG	25	2540		U10 SA	25		
TAG Immobilien AG			601020	UBM Development AG			601020
TAKKT AG	25	2550	255020	UCB SA	35	3520	352020
Tallinna Kaubamaja Grupp	30	3010		UDG Healthcare plc	35	3510	
Tamburi Investment Partne			402030	Umanis SA	45	4510	451020
Technopolis Plc			601020	Unibail-Rodamco SE			601010
Technotrans AG	20			Union Financiere de Franc			402030
Técnicas Reunidas, S.A.	10		101010	Unior Kovaska industrija	15		151040
Telefónica, S.A.	50		501010	Unipol Gruppo S.p.A.			403010
Telegraaf Media Groep N.V	25	2540		UnipolSai Assicurazioni S			403010
Telekom Austria Aktienges	50		501010	UNIQA Insurance Group AG			403010
Telekom Slovenije d.d.	50		501010	Unternehmens Invest AG			402030
Teleperformance SE	20	2020	202020	UPM-Kymmene Oyj	15		151050
Teleste Corporation	45			USU Software AG	45	4510	451030
Télévision Française 1 SA	25	2540		Vaisala Oyj	45	4520	452030
Telia Lietuva, AB	50		501010	Valeo SA	25	2510	251010
Tenaris S.A.	10		101010	Valsoia SpA	30	3020	302020
Ter Beke NV	30	3020	302020	Van De Velde NV	25	2520	252030

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Van Lanschot Kempen NV			401010	Zardoya Otis, S.A.	20	2010	201060
Vassiliko Cement Works Pu	15		151020	Zavarovalnica Triglav, d.			403010
Vastned Retail Belgium SA			601010	Zenitel NV	45	4520	452010
Vastned Retail N.V.			601010	Zignago Vetro S.p.A.	15		151030
Veolia Environnement S.A.	55		551030	Zodiac Aerospace	20	2010	201010
VERBUND AG	55			zooplus AG	25	2550	255020
Vetoquinol SA	35	3520	352020				
VGP NV			601020				
VIB Vermögen AG			601020				
Vicat SA	15		151020				
Videlio SA	45	4520	452030				
Vidrala, S.A.	15		151030				
VIEL & Cie			402030				
Vienna Insurance Group AG			403010				
Viking Line ABP	25	2530	253010				
Vilmorin & Cie SA	30	3020	302020				
VINCI SA	20	2010	201030				
Virbac SA	35	3520	352020				
Viscofan, S.A.	30	3020	302020				
Viscom AG	45	4520	452030				
VITA 34 AG	35	3510	351020				
Vittoria Assicurazioni S.			403010				
Vivendi SA	25	2540					
Voestalpine AG	15		151040				
Vranken-Pommery Monopole	30	3020	302010				
Vseobecná úverová banka,			401010				
VTG Aktiengesellschaft	20	2030					
Wacker Chemie AG	15		151010				
Wacker Neuson SE	20	2010	201060				
Warehouses De Pauw			601010				
Warehouses Estates Belgiu			601010				
Wärtsilä Oyj Abp	20	2010	201060				
WASGAU Produktions & Hand	30	3010					
Washtec AG	20	2010	201060				
Wavestone SA	45	4510	451020				
Wereldhave Belgium			601010				
Wereldhave N.V.			601010				
Westgrund AG			601020				
Wiener Privatbank SE			402030				
Wüstenrot & Württembergis			403010				
Xilam Animation	25	2540					
Xing SE	45	4510	451010				
XPO Logistics Europe SA	20	2030	203010				
YOOX Net-A-Porter Group S	25	2550	255020				
Zapf Creation AG	25	2520	252020				

Appendix N: GICS Codes in which Companies ("High-Financial-Risk" Set) are Included, Eurozone

In Appendix N, a listing of the GICS codes in which each of the companies in the set of "high-financial-risk" companies in the Eurozone region in the *2017 Valuation Handbook – International Industry Cost of Capital* Semi-annual Update (data through September 30, 2017) is presented.

2017 Valuation Handbook – International Industry Cost of Capital (data through September 30, 2017); Company and GICS List

7C Solarparken AG	55		551050	Codere, S.A.	25	2530	253010
A. Tsokkos Hotels Public	25	2530	253010	Compagnie des Alpes SA	25	2530	253010
A/S Latvijas Kugnieciba	10		101020	Compagnie Industriali Riu	20		
Activa Resources AG	10		101020	Componenta Corporation	20	2010	201060
AdUX SA	25	2540		Connect Group NV	45		
Aeffe S.p.A.	25	2520	252030	Corbion N.V.	15		
AFC Ajax NV	25	2540		Corporación Empresarial d	20	2010	
AgroGeneration SA	30	3020	302020	Creta Farm S.A.	30	3020	302020
Agroton Public Limited	30	3020	302020	CS Communication & System	45	4510	451020
Air France-KLM SA	20	2030		Ctac N.V.	45	4510	451020
ALBA SE	20	2020	202010	Cyprus Trading Corporatio	25	2550	
Alerion Clean Power S.p.A	55		551050	Dada S.p.A.	45	4510	451010
Alumil Aluminium Industry	15		151040	D'Amico International Shi	10		101020
Ambienthesis S.p.A.	20	2020	202010	DeA Capital S.p.A.			402030
Ambromobiliare S.p.A.			402030	DEAG Deutsche Entertainme	25	2540	
Amper, S.A.	45		452010	Deoleo, S.A.	30	3020	
AND International Publish	45	4510	451010	Diagnostic and Therapeuti	35	3510	351020
Anonimi Naftiliaki Etarei	20	2030		Digia Oyj	45	4510	451020
Antevenio, S.A.	25	2540		Digigram S.A.	45		
Archos S.A.	45			Direct Energie Société An	55		
Arnoldo Mondadori Editore	25	2540		DNXCorp SE	45	4510	451010
Artefact S.A.	20	2020		Dromeas SA	20	2020	202010
AS Baltika	25	2520	252030	Duro Felguera, S.A.	20	2010	201030
Attica Holdings S.A.	20	2030		E.ON SE	55		
AURELIUS Equity Opportuni			402030	Edenred SA	20	2020	202010
Baccarat S.A.	25	2520	252010	Edison S.p.A.	55		551050
BBGI Sicav S.A.			402030	Élastron S.A. - Steel Ser	15		151040
Beate Uhse AG	25	2550		Elgeka S.A.	30		
Beghelli S.p.A.	20	2010		Elve S.A.	25	2520	252030
Bernard Loiseau SA	25	2530	253010	EnBW Energie Baden-Württe	55		
Beta Systems Software AG	45	4510	451030	Encres Dubuit	15		
Bourbon Corporation SA	10		101010	ENGIE SA	55		
Bremer Lagerhaus Gesellsc	20	2030		ERAMET S.A.	15		151040
Byte Computer SA	45	4510	451020	ErgyCapital S.p.A.	55		551050
Caleffi S.p.A.	25	2520	252030	Esso S.A.F.	10		101020
Campine NV	15			EuKedos S.p.A.	35	3510	351020
Carraro SpA	20	2010	201060	euromicron AG	45		452010
Cast SA	45	4510	451030	Evrofarma SA	30	3020	
Catalis SE	20	2020		Fagron NV	35	3510	351020
Cegedim SA	35	3510		Falck Renewables S.p.A.			551050
Centric Holdings S.A.	25	2530	253010	Fiera Milano SpA	20	2020	202010
CGG	10		101010	Finnair Oyj	20	2030	
Cimpor - Cimentos de Port	15			Fluxys Belgium SA	10		101020
Cliq Digital AG	45	4510	451030	Fomento de Construcciones	20	2010	201030
Coal Energy S.A.	10		101020	Foncière Euris SA	30		

2017 Valuation Handbook – International Industry Cost of Capital (data through September 30, 2017); Company and GICS List

Fountain S.A.	20	2020	202010	Kabel Deutschland Holding	25	2540	
Fourlis Holdings S.A.	25	2550		Kenmare Resources plc	15		151040
FullSix S.p.A.	45	4510	451010	Klöckner & Co SE	20	2010	
FUTUREN SA	55		551050	Koenig & Bauer AG	20	2010	201060
Gascogne SA	15			Koninklijke Wessanen N.V.	30	3020	
Gefran S.p.A.	45			KORRES S.A. - Natural Pro	30		
GEK TERNA Holdings, Real	20	2010	201030	KSG Agro S.A.	30	3020	
GfK SE	25	2540		Lafuma SA	25	2520	
Glaston Oyj Abp	20			Lampsa Hellenic Hotels S.	25	2530	253010
Greiffenberger AG	20	2010	201060	Landi Renzo S.p.A.	25		
Groupe Flo SA	25	2530	253010	Latécoère S.A.	20	2010	
Groupe Partouche SA	25	2530	253010	Leonardo S.p.a.	20	2010	
Grupo Ezentis S.A.	45	4520	452010	Les Hotels De Paris SA	25	2530	253010
Gruppo Waste Italia S.p.A	20	2010	201030	Lexibook - Linguistic Ele	25	2520	252010
Guillemot Corporation S.A	45	4520		LITGRID AB	55		
Guy Degrenne S.A.	25	2520	252010	Lloyd Fonds AG			402030
Halcor Metal Works S.A.,	20	2010	201060	Logwin AG	20	2030	
Hamon & Cie (Internationa	20	2010		m4e AG	25	2540	
HanseYachts AG	25	2520		Marie Brizard Wine & Spir	30	3020	
Heidelberger Druckmaschin	20			Martela Oyj	20	2020	202010
HF Company Société Anonym	45	4520		Maternus-Kliniken Aktieng	35	3510	351020
Honkarakenne Oyj	25	2520	252010	McKesson Europe AG	35	3510	351020
HTI High Tech Industries	20	2010	201060	Mediacontech S.p.A.	25	2540	
I.Kloukinas-I.Lappas S.A.	25	2550		Mediaset S.p.A.	25	2540	
ICT Group N.V.	45	4510	451030	Medicrea	35	3510	
iGrandiViaggi S.p.A.	25	2530	253010	MEMSCAP, S.A.	45		
Ilkka-Yhtymä Oyj	25	2540		Milkiland N.V.	30	3020	
Immsi S.p.A.	25			Monrif S.p.A.	25	2540	
Impresa - Sociedade Gestio	25	2540		Mr. Bricolage SA	25	2550	
Inapa - Investimentos, Pa	20	2010		msg life ag	45	4510	
Incap Oyj	45	4520	452030	mybet Holding SE	25	2530	253010
Independent News & Media	25	2540		Natra, S.A.	30	3020	302020
Indra Sistemas, S.A.	45	4510	451020	Nexans S.A.	20	2010	
Inform P. Lykos S.A.	20	2020	202010	NH Hotel Group, S.A.	25	2530	253010
Innelec Multimédia SA	45	4520	452030	Nicolás Correa, S.A.	20	2010	201060
InterEuropa d.d.	20	2030		Nireus Aquaculture S.A.	30	3020	302020
International Hotel Inves	25	2530	253010	Nokia Corporation	45	4520	
INTERSHOP Communications	45	4510		Nurminen Logistics Oyj	20	2030	
InTiCa Systems AG	45	4520	452030	Nyrstar NV	15		151040
Intracom Constructions So	20	2010	201030	Obrascón Huarte Lain, S.A	20	2010	201030
Intralot S.A.	25	2530	253010	Ordina N.V.	45	4510	451020
Itway S.p.A.	45	4520	452030	Outokumpu Oyj	15		151040
J&P-Avax S.A.	20	2010	201030	Papoutsanis S.A.	30		
Juventus Football Club S.	25	2540		Park & Bellheimer AG	30	3020	
K.R.Energy S.p.A.	55			Pelikan Aktiengesellschaf	20	2020	202010

Petrolia SE	10		101010	Stockmann Oyj ABP	25	2550	
Peugeot S.A.	25			TAS Tecnologia Avanzata d	45	4510	
Philippos Nakas S.A.	25	2550		Telenet Group Holding NV	25	2540	
Poligrafica S. Faustino S	20	2020	202010	TIE Kinetix N.V.	45	4510	451010
Poligrafici Editoriale S.	25	2540		Tom Tailor Holding AG	25	2550	
PostNL N.V.	20	2030		TomTom N.V.	25	2520	252010
Pöyry PLC	20			Toupargel Groupe SA	25	2550	
Prologue S.A.	45	4510		TREVI - Finanziaria Indus	20	2010	201030
Promotora de Informacione	25	2540		Tubos Reunidos, S.A.	15		151040
Prosafe SE	10		101010	Tulikivi Corporation	20	2010	
Public Power Corporation	55			Unibios Holdings S.A.	20	2010	201060
Quest Holdings S.A.	45			Urals Energy Public Compa	10		101020
Rallye SA	30			Vallourec SA	10		101010
RCS MediaGroup S.p.A.	25	2540		Velcan SA	55		
Recylex S.A.	15		151040	VIOHALCO S.A.	15		151040
Revoil S.A.	10		101020	Vocento, S.A.	25		
Riber S.A.	45			Vossloh AG	20	2010	201060
RoodMicrotec N.V.	45			Wienerberger AG	15		
Rosss S.p.A.	20	2020	202010	Wild Bunch AG	25		
RWE Aktiengesellschaft	55			Wolford Aktiengesellschaf	25	2520	252030
S.S. Lazio S.p.A.	25	2540		Wulff-Yhtiöt Oyj	25	2550	
Sacyr, S.A.	20						
Safilo Group S.p.A.	25	2520	252030				
SAG GEST - Soluções Autom	25	2550					
Saipem S.p.A.	10		101010				
SANOCHEMIA Pharmazeutika	35						
Sanoma Oyj	25	2540					
Saras S.p.A.	10		101020				
Schumag Aktiengesellschaf	20	2010	201060				
Séché Environnement SA	20	2020	202010				
Selected Textiles S.A.	25	2520	252030				
Semapa - Sociedade de Inv	15						
Sequana SA	15						
SGL Carbon SE	20	2010					
Skano Group AS	25	2520	252010				
SKW Stahl-Metallurgie Hol	15		151040				
Snaitech S.p.A.	25	2530	253010				
Société Anonyme Belge de	20	2010					
Soditech SA	20	2020					
Solocal Group S.A.	25	2540					
Sonae Indústria, S.G.P.S.	15						
Songa Offshore SE	10		101010				
Soprano Oyj	45	4510	451010				
Sport Lisboa e Benfica -	25	2540					
Sporttotal AG	25	2540					

Appendix O: Companies (Main Set) in Each Industry, by GICS Code, in United Kingdom

In Appendix O, a listing of companies in the main set of “healthy” companies for each GICS code in the United Kingdom region in the *2017 Valuation Handbook – International Industry Cost of Capital* Semi-annual Update (data through September 30, 2017) is presented.

GICS 10

Amerisur Resources PLC
 Awilco Drilling Plc
 BP p.l.c.
 GETECH Group Plc
 Hargreaves Services Plc
 James Fisher and Sons plc
 John Wood Group PLC
 Royal Dutch Shell plc
 SOCO International plc
 Volga Gas plc

GICS 101020

Amerisur Resources PLC
 BP p.l.c.
 Hargreaves Services Plc
 Royal Dutch Shell plc
 SOCO International plc
 Volga Gas plc

GICS 15

Anglo Asian Mining PLC
 Antofagasta plc
 Central Asia Metals Plc
 Croda International plc
 DS Smith Plc
 Elementis plc
 Ferrexpo Plc
 Fresnillo PLC
 Highland Gold Mining Limi
 Hill & Smith Holdings PLC
 James Cropper plc
 Johnson Matthey Plc
 Low & Bonar plc
 Marshalls plc
 Michelmersh Brick Holding
 Mondi plc
 Plastics Capital plc
 Rio Tinto plc
 Robinson plc
 RPC Group Plc
 Synthomer plc
 Treatt plc
 Victrex plc
 Zimplats Holdings Limited
 Zotefoams plc

GICS 151010

Croda International plc
 Elementis plc
 Synthomer plc
 Treatt plc
 Victrex plc
 Zotefoams plc

GICS 151040

Anglo Asian Mining PLC
 Antofagasta plc
 Central Asia Metals Plc
 Ferrexpo Plc
 Fresnillo PLC

Highland Gold Mining Limi
 Hill & Smith Holdings PLC
 Rio Tinto plc
 Zimplats Holdings Limited

GICS 20

Aggreko plc
 Air Partner plc
 Andrews Sykes Group plc
 Ashtead Group plc
 Augean plc
 Aukett Swanke Group Plc
 Babcock International Gro
 BAE Systems plc
 BBA Aviation plc
 Berendsen plc
 Bodycote plc
 Braemar Shipping Services
 Bunzl plc
 Carillion plc
 Carr's Group plc
 Castings P.L.C.
 Chemring Group plc
 Cohort PLC
 Communisis plc
 Costain Group plc
 Dart Group plc
 Dewhurst plc
 easyJet plc
 Empresaria Group plc
 Fenner PLC
 Firstgroup plc
 FW Thorpe Plc
 G4S plc
 Gama Aviation Plc
 Gattaca plc
 Grafenia Plc
 Harvey Nash Group plc
 Hays plc
 HomeServe plc
 Howden Joinery Group Plc
 IMI plc
 Interquest Group PLC
 Interserve plc
 Intertek Group plc
 James Halstead plc
 James Latham plc
 Johnson Service Group plc
 Judges Scientific plc
 Keller Group plc
 Kier Group plc
 LPA Group plc
 MacFarlane Group plc
 Mears Group plc
 Meggitt PLC
 Melrose Industries PLC
 Mitie Group plc
 Mpac Group plc
 MS INTERNATIONAL plc
 Murgitroyd Group plc
 National Express Group PL

Northbridge Industrial Se
 Northgate plc
 PageGroup plc
 PayPoint plc
 Porvair plc
 QinetiQ Group Plc
 Redde plc
 RELX PLC
 Renew Holdings plc
 Renold plc
 Ricardo plc
 Robert Walters PLC
 Rolls-Royce Holdings plc
 RPS Group plc
 RWS Holdings plc
 Science Group plc
 Severfield plc
 Spirax-Sarco Engineering
 Staffline Group plc
 Stagecoach Group plc
 STthree plc
 The Alumasc Group plc
 The Go-Ahead Group plc
 The Weir Group PLC
 Titon Holdings plc
 Travis Perkins plc
 Trifast plc
 Tyman plc
 Ultra Electronics Holding
 Utilitywise Plc
 Vp plc
 WYG PLC

GICS 2010

Andrews Sykes Group plc
 Ashtead Group plc
 BAE Systems plc
 Bodycote plc
 Bunzl plc
 Carr's Group plc
 Castings P.L.C.
 Chemring Group plc
 Costain Group plc
 Dewhurst plc
 Fenner PLC
 FW Thorpe Plc
 Howden Joinery Group Plc
 IMI plc
 James Halstead plc
 James Latham plc
 Judges Scientific plc
 Keller Group plc
 LPA Group plc
 MacFarlane Group plc
 Meggitt PLC
 Mpac Group plc
 MS INTERNATIONAL plc
 Northbridge Industrial Se
 Porvair plc
 QinetiQ Group Plc
 Renew Holdings plc

Renold plc
 Rolls-Royce Holdings plc
 Severfield plc
 Spirax-Sarco Engineering
 The Alumasc Group plc
 The Weir Group PLC
 Titon Holdings plc
 Travis Perkins plc
 Trifast plc
 Tyman plc
 Ultra Electronics Holding
 Vp plc
 WYG PLC

GICS 201010

BAE Systems plc
 Chemring Group plc
 Meggitt PLC
 QinetiQ Group Plc
 Ultra Electronics Holding

GICS 201030

Costain Group plc
 Keller Group plc
 Renew Holdings plc
 Severfield plc
 WYG PLC

GICS 201060

Castings P.L.C.
 Fenner PLC
 IMI plc
 Judges Scientific plc
 Mpac Group plc
 Northbridge Industrial Se
 Porvair plc
 Renold plc
 Spirax-Sarco Engineering
 The Weir Group PLC
 Trifast plc

GICS 201070

Andrews Sykes Group plc
 Ashtead Group plc
 Bunzl plc
 Howden Joinery Group Plc
 James Latham plc
 MacFarlane Group plc
 Travis Perkins plc
 Vp plc

GICS 2020

Augean plc
 Aukett Swanke Group Plc
 Berendsen plc
 Communisis plc
 Empresaria Group plc
 G4S plc
 Gattaca plc
 Grafenia Plc
 Harvey Nash Group plc

Hays plc
 HomeServe plc
 Interquest Group PLC
 Intertek Group plc
 Johnson Service Group plc
 Mears Group plc
 Murgitroyd Group plc
 PageGroup plc
 PayPoint plc
 RELX PLC
 Ricardo plc
 Robert Walters PLC
 RPS Group plc
 RWS Holdings plc
 Science Group plc
 Staffline Group plc
 SThree plc
 Utilitywise Plc

GICS 202010

Augean plc
 Berendsen plc
 Communisis plc
 G4S plc
 Grafenia Plc
 HomeServe plc
 Johnson Service Group plc
 Mears Group plc
 PayPoint plc
 RPS Group plc

GICS 202020

Aukett Swanke Group Plc
 Empresaria Group plc
 Gattaca plc
 Harvey Nash Group plc
 Hays plc
 Interquest Group PLC
 Intertek Group plc
 Murgitroyd Group plc
 PageGroup plc
 RELX PLC
 Ricardo plc
 Robert Walters PLC
 RWS Holdings plc
 Science Group plc
 Staffline Group plc
 SThree plc
 Utilitywise Plc

GICS 2030

Air Partner plc
 BBA Aviation plc
 Braemar Shipping Services
 Dart Group plc
 easyJet plc
 Firstgroup plc
 Gama Aviation Plc
 National Express Group PL
 Northgate plc
 Redde plc

Stagecoach Group plc
 The Go-Ahead Group plc

GICS 203040

Firstgroup plc
 National Express Group PL
 Northgate plc
 Redde plc
 Stagecoach Group plc
 The Go-Ahead Group plc

GICS 25

4imprint Group plc
 AIREA plc
 Barratt Developments plc
 Bellway p.l.c.
 Bloomsbury Publishing plc
 Bovis Homes Group PLC
 Burberry Group plc
 Caffyns plc
 Cambria Automobiles plc
 Carpetright plc
 Churchill China plc
 Cineworld Group plc
 Compass Group PLC
 Debenhams plc
 Domino's Pizza Group plc
 Dunelm Group plc
 Ei Group plc
 Games Workshop Group
 PLC
 Genting Singapore PLC
 Goals Soccer Centres plc
 Greene King plc
 Greggs plc
 Halfords Group plc
 Headlam Group plc
 IG Design Group Plc
 Inchcape plc
 Informa plc
 ITE Group plc
 ITV plc
 J D Wetherspoon plc
 JD Sports Fashion plc
 Kingfisher plc
 Ladbrokes Coral Group plc
 Lookers plc
 M&C Saatchi plc
 Millennium & Cophorne Ho
 Mitchells & Butlers plc
 MJ Gleeson plc
 Moss Bros Group plc
 Mulberry Group plc
 N Brown Group plc
 Next Fifteen Communicatio
 Next Plc
 Ocado Group plc
 Pendragon PLC
 Persimmon plc
 Photo-Me International pl
 Portmeirion Group plc

Redrow plc
 Sky plc
 Sportech PLC
 Sports Direct Internation
 Sprue Aegis PLC
 Superdry Plc
 System1 Group PLC
 Tasty plc
 Taylor Wimpey plc
 Ted Baker PLC
 The Berkeley Group Holdin
 The Character Group plc
 The Restaurant Group plc
 The Vitec Group plc
 Trinity Mirror plc
 Vertu Motors plc
 Victoria plc
 Walker Greenbank plc
 WH Smith PLC
 Whitbread PLC
 William Hill plc
 YouGov plc
 Young & Co.'s Brewery, P.
 ZEAL Network SE

GICS 2520

AIREA plc
 Barratt Developments plc
 Bellway p.l.c.
 Bovis Homes Group PLC
 Burberry Group plc
 Churchill China plc
 Games Workshop Group
 PLC
 IG Design Group Plc
 MJ Gleeson plc
 Mulberry Group plc
 Persimmon plc
 Photo-Me International pl
 Portmeirion Group plc
 Redrow plc
 Sprue Aegis PLC
 Taylor Wimpey plc
 Ted Baker PLC
 The Berkeley Group Holdin
 The Character Group plc
 Victoria plc
 Walker Greenbank plc

GICS 252010

AIREA plc
 Barratt Developments plc
 Bellway p.l.c.
 Bovis Homes Group PLC
 Churchill China plc
 IG Design Group Plc
 MJ Gleeson plc
 Persimmon plc
 Portmeirion Group plc
 Redrow plc
 Sprue Aegis PLC

Taylor Wimpey plc
 The Berkeley Group Holdin
 Victoria plc
 Walker Greenbank plc

GICS 2530

Compass Group PLC
 Domino's Pizza Group plc
 Ei Group plc
 Genting Singapore PLC
 Goals Soccer Centres plc
 Greene King plc
 Greggs plc
 J D Wetherspoon plc
 Ladbrokes Coral Group plc
 Millennium & Cophorne Ho
 Mitchells & Butlers plc
 Tasty plc
 The Restaurant Group plc
 Whitbread PLC
 William Hill plc
 Young & Co.'s Brewery, P.
 ZEAL Network SE

GICS 2540

4imprint Group plc
 Bloomsbury Publishing plc
 Cineworld Group plc
 Informa plc
 ITE Group plc
 ITV plc
 M&C Saatchi plc
 Next Fifteen Communicatio
 Sky plc
 System1 Group PLC
 Trinity Mirror plc
 YouGov plc

GICS 2550

Caffyns plc
 Cambria Automobiles plc
 Carpetright plc
 Debenhams plc
 Dunelm Group plc
 Halfords Group plc
 Headlam Group plc
 Inchcape plc
 JD Sports Fashion plc
 Kingfisher plc
 Lookers plc
 Moss Bros Group plc
 N Brown Group plc
 Next Plc
 Ocado Group plc
 Pendragon PLC
 Sports Direct Internation
 Superdry Plc
 Vertu Motors plc
 WH Smith PLC

GICS 255040

Caffyns plc
 Cambria Automobiles plc
 Carpetright plc
 Dunelm Group plc
 Halfords Group plc
 JD Sports Fashion plc
 Kingfisher plc
 Lookers plc
 Moss Bros Group plc
 Pendragon PLC
 Sports Direct Internation
 Vertu Motors plc
 WH Smith PLC

GICS 30

A.G. BARR p.l.c.
 Anglo-Eastern Plantations
 Anpario plc
 Associated British Foods
 Booker Group PLC
 British American Tobacco
 Britvic Plc
 Camellia PLC
 Cranswick plc
 Dairy Crest Group plc
 Devro plc
 Diageo plc
 Finsbury Food Group Plc
 Hilton Food Group plc
 J Sainsbury plc
 M.P. Evans Group plc
 McBride plc
 Nichols plc
 PZ Cussons Plc
 R.E.A. Holdings plc
 Real Good Food plc
 Reckitt Benckiser Group p
 Swallowfield plc
 Tate & Lyle plc
 Tesco PLC
 Unilever PLC
 Wm Morrison
 Supermarkets
 Wynnstay Group plc

GICS 3020

A.G. BARR p.l.c.
 Anglo-Eastern Plantations
 Anpario plc
 Associated British Foods
 British American Tobacco
 Britvic Plc
 Camellia PLC
 Cranswick plc
 Dairy Crest Group plc
 Devro plc
 Diageo plc
 Finsbury Food Group Plc
 Hilton Food Group plc
 M.P. Evans Group plc

Nichols plc
R.E.A. Holdings plc
Real Good Food plc
Tate & Lyle plc
Wynnstay Group plc

CVS Group plc
EMIS Group plc
Instem plc
NMC Health Plc
Omega Diagnostics Group
P
Smith & Nephew plc
Tristel Plc

Hargreaves Lansdown plc
Henderson European
Focus
Henderson EuroTrust plc
Henderson High Income
Tru
Henderson Opportunities T
Herald Investment Trust P
HICL Infrastructure Compa
Highbridge Multi-Strategy
ICG Enterprise Trust PLC
IG Group Holdings plc
Impax Asset Management
Gr
Impax Environmental
Marke
India Capital Growth Fund
Intermediate Capital Grou
International Public Part
Invesco Perpetual Enhance
INVESCO Perpetual UK
Smal
Investec plc
IP Group Plc
Jarvis Securities plc
JPMorgan American
Investm
JPMorgan Chinese
Investme
JPMorgan Claverhouse
Inve
JPMorgan Global Growth &
JPMorgan Japan Smaller
Co
JPMorgan US Smaller
Compa
Jupiter European Opportun
Jupiter Fund Management
P
Jupiter US Smaller
Compan
Keystone Investment Trust
Lindsell Train Investment
Liontrust Asset
Managemen
Lowland Investment
Compan
Majedie Investments PLC
Martin Currie Global Port
Mattioli Woods PLC
Mid Wynd International In
Miton Global Opportunitie
Miton Group plc
NEX Group plc
North Atlantic Smaller Co
Northern Investors
Compan
Numis Corporation Plc
Pacific Horizon Investmen
Pantheon International PL
Perpetual Income and
Grow
Polar Capital Holdings pl
Polar Capital Technology
Rathbone Brothers plc
Record plc

GICS 302020

Anglo-Eastern Plantations
Anpario plc
Associated British Foods
Camellia PLC
Cranswick plc
Dairy Crest Group plc
Devro plc
Finsbury Food Group Plc
Hilton Food Group plc
M.P. Evans Group plc
R.E.A. Holdings plc
Real Good Food plc
Tate & Lyle plc
Wynnstay Group plc

GICS 3520

Abcam Plc
Alliance Pharma plc
AstraZeneca PLC
BTG plc
Dechra Pharmaceuticals pl
ECO Animal Health Group p
GlaxoSmithKline plc
Hikma Pharmaceuticals
PLC

GICS 352020

Alliance Pharma plc
AstraZeneca PLC
BTG plc
Dechra Pharmaceuticals pl
ECO Animal Health Group p
GlaxoSmithKline plc
Hikma Pharmaceuticals
PLC

GICS 3030

McBride plc
PZ Cussons Plc
Reckitt Benckiser Group p
Swallowfield plc
Unilever PLC

GICS 35

Abcam Plc
Advanced Medical Solution
Alliance Pharma plc
Animalcare Group plc
AstraZeneca PLC
Bioquell plc
BTG plc
CareTech Holdings PLC
Clinigen Group Plc
Consort Medical plc
Craneware plc
CVS Group plc
Dechra Pharmaceuticals pl
ECO Animal Health Group p
EMIS Group plc
GlaxoSmithKline plc
Hikma Pharmaceuticals
PLC
Instem plc
NMC Health Plc
Omega Diagnostics Group
P
Smith & Nephew plc
Tristel Plc

GICS 402030

3i Group plc
Aberforth Smaller Compani
Alliance Trust PLC
Allianz Technology Trust
Alpha Real Trust Limited
Ashmore Group PLC
B.P. Marsh & Partners PLC
Baillie Gifford Shin Nipp
BlackRock Greater Europe
BlackRock Income and
Grow
Brewin Dolphin Holdings P
Brooks Macdonald Group
pl
Caledonia Investments plc
Capital Gearing Trust p.l
Cenkos Securities plc
Charles Stanley Group plc
Chelverton Small
Companie
Electra Private Equity Pl
EP Global Opportunities T
F&C Capital and Income In
F&C Global Smaller
Compan
F&C Private Equity Trust
Fidelity Asian Values PLC
Fidelity Investment Trust
Fidelity Investment Trust
Finsbury Growth & Income
Foreign & Colonial Invest
Frenkel Topping Group Plc

GICS 3510

Advanced Medical Solution
Animalcare Group plc
Bioquell plc
CareTech Holdings PLC
Consort Medical plc
Craneware plc

Schroder Income Growth Fu
 Schroder Japan Growth Fun
 Schroder UK Mid Cap Fund
 Schrodgers plc
 Scottish Mortgage Investm
 Seneca Global Income & Gr
 SL Private Equity
 St. James's Place plc
 Standard Life Equity Inco
 Standard Life UK Smaller
 The Baillie Gifford Japan
 The Bankers Investment Tr
 The Brunner Investment Tr
 The City of London Invest
 The Edinburgh Investment
 The Independent Investmen
 The Law Debenture Corpora
 The Mercantile Investment
 The Monks Investment Trus
 The North American Income
 The Scottish American Inv
 The Scottish Investment T
 TR European Growth Trust
 TR Property Investment Tr
 Troy Income & Growth Trus
 Value and Income Trust pl
 Witan Investment Trust pl

GICS 403010

Admiral Group plc
 Aviva plc
 Charles Taylor plc
 Chesnara plc
 Jardine Lloyd Thompson Gr
 Novae Group Plc
 Prudential plc
 RSA Insurance Group plc

GICS 45

accesso Technology Group
 Amino Technologies plc
 AVEVA Group plc
 Blancco Technology Group
 Brady plc
 Computacenter plc
 Concurrent Technologies p
 D4t4 Solutions Plc
 Dialog Semiconductor Plc
 Dillistone Group Plc
 discoverIE Group plc
 dotDigital Group Plc
 Eckoh Plc
 Electrocomponents plc
 Fidessa group plc
 First Derivatives plc
 GB Group plc

Gooch & Housego PLC
 Gresham Technologies plc
 Halma plc
 IDOX plc
 IndigoVision Group plc
 iomart Group plc
 K3 Business Technology Gr
 Laird PLC
 Microgen plc
 Mobile Streams Plc
 Moneysupermarket.com Grou
 NCC Group plc
 Netcall plc
 Oxford Instruments plc
 Oxford Metrics plc
 Pennant International Gro
 Petards Group plc
 Proactis Holdings Plc
 Renishaw plc
 RM Plc
 Sanderson Group Plc
 SciSys plc
 Smart Metering Systems Pl
 Solid State plc
 Sopheon plc
 Spectris plc
 Spirent Communications pl
 SRT Marine Systems plc
 Stadium Group plc
 StatPro Group plc
 Synectics plc
 Telit Communications PLC
 The Sage Group plc
 Tracsis plc
 Trakm8 Holdings PLC
 TT Electronics plc
 Vianet Group plc
 Xaar plc
 Zytronic plc

GICS 4510

AVEVA Group plc
 Blancco Technology Group
 Brady plc
 Computacenter plc
 D4t4 Solutions Plc
 Dillistone Group Plc
 dotDigital Group Plc
 Eckoh Plc
 Fidessa group plc
 First Derivatives plc
 GB Group plc
 Gresham Technologies plc
 IDOX plc
 iomart Group plc
 K3 Business Technology Gr
 Microgen plc
 Mobile Streams Plc
 Moneysupermarket.com Grou
 NCC Group plc

Netcall plc
 Oxford Metrics plc
 Pennant International Gro
 Petards Group plc
 Proactis Holdings Plc
 Sanderson Group Plc
 SciSys plc
 Sopheon plc
 StatPro Group plc
 The Sage Group plc
 Tracsis plc

GICS 451020

Computacenter plc
 D4t4 Solutions Plc
 Eckoh Plc
 NCC Group plc
 Sanderson Group Plc

GICS 451030

AVEVA Group plc
 Blancco Technology Group
 Brady plc
 Dillistone Group Plc
 dotDigital Group Plc
 Fidessa group plc
 GB Group plc
 K3 Business Technology Gr
 Microgen plc
 Netcall plc
 Oxford Metrics plc
 Pennant International Gro
 Petards Group plc
 Proactis Holdings Plc
 Sopheon plc
 StatPro Group plc
 The Sage Group plc
 Tracsis plc

GICS 4520

accesso Technology Group
 Amino Technologies plc
 Concurrent Technologies p
 discoverIE Group plc
 Electrocomponents plc
 Gooch & Housego PLC
 Halma plc
 IndigoVision Group plc
 Laird PLC
 Oxford Instruments plc
 Renishaw plc
 Smart Metering Systems Pl
 Solid State plc
 Spectris plc
 Spirent Communications pl
 SRT Marine Systems plc
 Stadium Group plc
 Telit Communications PLC
 Trakm8 Holdings PLC
 TT Electronics plc
 Vianet Group plc

Xaar plc
Zytronic plc

SEGRO plc
Shaftesbury PLC
The Unite Group plc
Workspace Group plc

GICS 452010

Amino Technologies plc
Spirent Communications pl
SRT Marine Systems plc
Telit Communications PLC
Trakm8 Holdings PLC

GICS 601020

Belvoir Lettings Plc
CLS Holdings plc
Conygar Investment
Compan
Daejan Holdings plc
First Property Group plc
Grainger plc
Helical plc
Lok'nStore Group plc
LSL Property Services Plc
M Winkworth PLC
Mountview Estates P.L.C.
Picton Property Income Li
Savills plc
Sigma Capital Group plc
St. Modwen Properties PLC
U and I Group PLC
UK Commercial Property Tr
Urban&Civic plc

GICS 452030

accesso Technology Group
discoverIE Group plc
Electrocomponents plc
Gooch & Housego PLC
Halma plc
IndigoVision Group plc
Laird PLC
Oxford Instruments plc
Renishaw plc
Smart Metering Systems PI
Solid State plc
Spectris plc
Stadium Group plc
TT Electronics plc
Vianet Group plc
Zytronic plc

GICS 50

BT Group plc
Inmarsat Plc
KCOM Group PLC
TalkTalk Telecom Group PL
Vodafone Group Plc

GICS 55

Centrica plc
Drax Group plc
National Grid plc
Pennon Group Plc
Severn Trent Plc
SSE plc
Telecom Plus plc
United Utilities Group PL

GICS 601010

A & J Mucklow Group Plc
Assura Plc
Big Yellow Group Plc
British Land Company Plc
Capital & Regional Plc
Derwent London Plc
F&C UK Real Estate Invest
Hansteen Holdings PLC
intu properties plc
Land Securities Group plc
LondonMetric Property Plc
McKay Securities plc
Primary Health Properties
Safestore Holdings plc
Schroder Real Estate Inve

Appendix P: Companies (“High-Financial-Risk” Set) in Each Industry, by GICS Code, in United Kingdom

In appendix P, a listing of companies in the set of “high-financial-risk” companies for each GICS code in the United Kingdom region in the *2017 Valuation Handbook – International Industry Cost of Capital* Semi-annual Update (data through September 30, 2017) is presented.

GICS 10

Amec Foster Wheeler plc
Anglo Pacific Group plc
EnQuest PLC
Hunting plc
IGas Energy Plc
JKX Oil & Gas plc
Premier Oil plc
Tullow Oil plc

GICS 101020

Anglo Pacific Group plc
EnQuest PLC
IGas Energy Plc
JKX Oil & Gas plc
Premier Oil plc
Tullow Oil plc

GICS 15

Acacia Mining plc
Altyn Plc
Avocet Mining plc
EVRAZ plc
Hochschild Mining PLC
KAZ Minerals plc
Lonmin Plc
Petropavlovsk PLC
Vedanta Resources plc

GICS 151040

Acacia Mining plc
Altyn Plc
Avocet Mining plc
EVRAZ plc
Hochschild Mining PLC
KAZ Minerals plc
Lonmin Plc
Petropavlovsk PLC
Vedanta Resources plc

GICS 20

Balfour Beatty plc
Christie Group plc
Cobham plc
CPPGroup Plc
De La Rue plc
Driver Group plc
Flybe Group PLC
Havelock Europa plc
Hogg Robinson Group plc
Management Consulting Gro
Mountfield Group Plc
Progility PLC
Redhall Group plc
Rentokil Initial plc
Serco Group plc
SIG plc
Speedy Hire Plc
St Ives plc
Styles&Wood Group plc

The 600 Group PLC
Wincanton plc

GICS 2010

Balfour Beatty plc
Cobham plc
Driver Group plc
Havelock Europa plc
Mountfield Group Plc
Redhall Group plc
SIG plc
Speedy Hire Plc
The 600 Group PLC

GICS 201030

Balfour Beatty plc
Driver Group plc
Havelock Europa plc
Mountfield Group Plc
Redhall Group plc

GICS 2020

Christie Group plc
CPPGroup Plc
De La Rue plc
Hogg Robinson Group plc
Management Consulting Gro
Rentokil Initial plc
Serco Group plc
St Ives plc
Styles&Wood Group plc

GICS 202010

CPPGroup Plc
De La Rue plc
Rentokil Initial plc
Serco Group plc
St Ives plc
Styles&Wood Group plc

GICS 25

Centaur Media plc
Connect Group PLC
Dignity plc
Findel plc
Haynes Publishing Group P
Hornby plc
InterContinental Hotels G
Johnston Press plc
Mothercare plc
Pearson plc
Porta Communications Plc
reach4entertainment enter
STV Group plc
Topps Tiles plc
Tribal Group plc

GICS 2540

Centaur Media plc
Haynes Publishing Group P

Johnston Press plc
Pearson plc
Porta Communications Plc
reach4entertainment enter
STV Group plc

GICS 35

EKF Diagnostics Holdings
Genus plc
Immunodiagnostic Systems
Inspiration Healthcare Gr
Surgical Innovations Grou
Vectura Group plc

GICS 45

APC Technology Group PLC
Newmark Security plc
Parity Group plc
Pebble Beach Systems Group
RhythmOne plc
SDL plc
Watchstone Group Plc
ZOO Digital Group plc

GICS 4510

Parity Group plc
RhythmOne plc
SDL plc
Watchstone Group Plc
ZOO Digital Group plc

Appendix Q: GICS Codes in which Companies (Main Set) are Included, United Kingdom

In Appendix Q, a listing of the GICS codes in which each of the companies in the main set of "healthy" companies in the United Kingdom region in the *2017 Valuation Handbook – International Industry Cost of Capital* Semi-annual Update (data through September 30, 2017) is presented.

2017 Valuation Handbook – International Industry Cost of Capital (data through September 30, 2017); Company and GICS List

3i Group plc			402030	BlackRock Greater Europe			402030
4imprint Group plc	25	2540		BlackRock Income and Grow			402030
A & J Mucklow Group Plc			601010	Blanco Technology Group	45	4510	451030
A.G. BARR p.l.c.	30	3020		Bloomsbury Publishing plc	25	2540	
Abcam Plc	35	3520		Bodycote plc	20	2010	
Aberforth Smaller Compani			402030	Booker Group PLC	30		
accesso Technology Group	45	4520	452030	Bovis Homes Group PLC	25	2520	252010
Admiral Group plc			403010	BP p.l.c.	10		101020
Advanced Medical Solution	35	3510		Brady plc	45	4510	451030
Aggreko plc	20			Braemar Shipping Services	20	2030	
Air Partner plc	20	2030		Brewin Dolphin Holdings P			402030
AIREA plc	25	2520	252010	British American Tobacco	30	3020	
Alliance Pharma plc	35	3520	352020	British Land Company Plc			601010
Alliance Trust PLC			402030	Britvic Plc	30	3020	
Allianz Technology Trust			402030	Brooks Macdonald Group pl			402030
Alpha Real Trust Limited			402030	BT Group plc	50		
Amerisur Resources PLC	10		101020	BTG plc	35	3520	352020
Amino Technologies plc	45	4520	452010	Bunzl plc	20	2010	201070
Andrews Sykes Group plc	20	2010	201070	Burberry Group plc	25	2520	
Anglo Asian Mining PLC	15		151040	Caffyns plc	25	2550	255040
Anglo-Eastern Plantations	30	3020	302020	Caledonia Investments plc			402030
Animalcare Group plc	35	3510		Cambria Automobiles plc	25	2550	255040
Anpario plc	30	3020	302020	Camellia PLC	30	3020	302020
Antofagasta plc	15		151040	Capital & Regional Plc			601010
Ashmore Group PLC			402030	Capital Gearing Trust p.l			402030
Ashtead Group plc	20	2010	201070	CareTech Holdings PLC	35	3510	
Associated British Foods	30	3020	302020	Carillion plc	20		
Assura Plc			601010	Carpetright plc	25	2550	255040
AstraZeneca PLC	35	3520	352020	Carr's Group plc	20	2010	
Augean plc	20	2020	202010	Castings P.L.C.	20	2010	201060
Aukett Swanke Group Plc	20	2020	202020	Cenkos Securities plc			402030
AVEVA Group plc	45	4510	451030	Central Asia Metals Plc	15		151040
Aviva plc			403010	Centrica plc	55		
Awilco Drilling Plc	10			Charles Stanley Group plc			402030
B.P. Marsh & Partners PLC			402030	Charles Taylor plc			403010
Babcock International Gro	20			Chelverton Small Companie			402030
BAE Systems plc	20	2010	201010	Chemring Group plc	20	2010	201010
Baillie Gifford Shin Nipp			402030	Chesnara plc			403010
Barratt Developments plc	25	2520	252010	Churchill China plc	25	2520	252010
BBA Aviation plc	20	2030		Cineworld Group plc	25	2540	
Bellway p.l.c.	25	2520	252010	Clinigen Group Plc	35		
Belvoir Lettings Plc			601020	CLS Holdings plc			601020
Berendsen plc	20	2020	202010	Cohort PLC	20		
Big Yellow Group Plc			601010	Communis plc	20	2020	202010
Bioquell plc	35	3510		Compass Group PLC	25	2530	

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Computacenter plc	45	4510	451020	Fidessa group plc	45	4510	451030
Concurrent Technologies p	45	4520		Finsbury Food Group Plc	30	3020	302020
Consort Medical plc	35	3510		Finsbury Growth & Income			402030
Conygar Investment Compan			601020	First Derivatives plc	45	4510	
Costain Group plc	20	2010	201030	First Property Group plc			601020
Craneware plc	35	3510		Firstgroup plc	20	2030	203040
Cranswick plc	30	3020	302020	Foreign & Colonial Invest			402030
Croda International plc	15		151010	Frenkel Topping Group Plc			402030
CVS Group plc	35	3510		Fresnillo PLC	15		151040
D4t4 Solutions Plc	45	4510	451020	FW Thorpe Plc	20	2010	
Daejan Holdings plc			601020	G4S plc	20	2020	202010
Dairy Crest Group plc	30	3020	302020	Gama Aviation Plc	20	2030	
Dart Group plc	20	2030		Games Workshop Group PLC	25	2520	
Debenhams plc	25	2550		Gattaca plc	20	2020	202020
Dechra Pharmaceuticals pl	35	3520	352020	GB Group plc	45	4510	451030
Derwent London Plc			601010	Genting Singapore PLC	25	2530	
Devro plc	30	3020	302020	GETECH Group Plc	10		
Dewhurst plc	20	2010		GlaxoSmithKline plc	35	3520	352020
Diageo plc	30	3020		Goals Soccer Centres plc	25	2530	
Dialog Semiconductor Plc	45			Gooch & Housego PLC	45	4520	452030
Dillistone Group Plc	45	4510	451030	Grafenia Plc	20	2020	202010
discoverIE Group plc	45	4520	452030	Grainger plc			601020
Domino's Pizza Group plc	25	2530		Greene King plc	25	2530	
dotDigital Group Plc	45	4510	451030	Greggs plc	25	2530	
Drax Group plc	55			Gresham Technologies plc	45	4510	
DS Smith Plc	15			Halfords Group plc	25	2550	255040
Dunelm Group plc	25	2550	255040	Halma plc	45	4520	452030
easyJet plc	20	2030		Hansteen Holdings PLC			601010
Eckoh Plc	45	4510	451020	Hargreaves Lansdown plc			402030
ECO Animal Health Group p	35	3520	352020	Hargreaves Services Plc	10		101020
Ei Group plc	25	2530		Harvey Nash Group plc	20	2020	202020
Electra Private Equity Pl			402030	Hays plc	20	2020	202020
Electrocomponents plc	45	4520	452030	Headlam Group plc	25	2550	
Elementis plc	15		151010	Helical plc			601020
EMIS Group plc	35	3510		Henderson European Focus			402030
Empresaria Group plc	20	2020	202020	Henderson EuroTrust plc			402030
EP Global Opportunities T			402030	Henderson High Income Tru			402030
F&C Capital and Income In			402030	Henderson Opportunities T			402030
F&C Global Smaller Compan			402030	Herald Investment Trust P			402030
F&C Private Equity Trust			402030	HICL Infrastructure Compa			402030
F&C UK Real Estate Invest			601010	Highbridge Multi-Strategy			402030
Fenner PLC	20	2010	201060	Highland Gold Mining Limi	15		151040
Ferrexpo Plc	15		151040	Hikma Pharmaceuticals PLC	35	3520	352020
Fidelity Asian Values PLC			402030	Hill & Smith Holdings PLC	15		151040
Fidelity Investment Trust			402030	Hilton Food Group plc	30	3020	302020

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HomeServe plc	20	2020	202010	JPMorgan US Smaller Compa			402030
Howden Joinery Group Plc	20	2010	201070	Judges Scientific plc	20	2010	201060
ICG Enterprise Trust PLC			402030	Jupiter European Opportun			402030
IDOX plc	45	4510		Jupiter Fund Management P			402030
IG Design Group Plc	25	2520	252010	Jupiter US Smaller Compan			402030
IG Group Holdings plc			402030	K3 Business Technology Gr	45	4510	451030
IMI plc	20	2010	201060	KCOM Group PLC		50	
Impax Asset Management Gr			402030	Keller Group plc	20	2010	201030
Impax Environmental Marke			402030	Keystone Investment Trust			402030
Inchcape plc	25	2550		Kier Group plc		20	
India Capital Growth Fund			402030	Kingfisher plc	25	2550	255040
IndigoVision Group plc	45	4520	452030	Ladbroke Coral Group plc	25	2530	
Informa plc	25	2540		Laird PLC	45	4520	452030
Inmarsat Plc		50		Land Securities Group plc			601010
Instem plc	35	3510		Lindsell Train Investment			402030
Intermediate Capital Grou			402030	Liontrust Asset Managemen			402030
International Public Part			402030	Lok'nStore Group plc			601020
Interquest Group PLC	20	2020	202020	LondonMetric Property Plc			601010
Interserve plc		20		Lookers plc	25	2550	255040
Intertek Group plc	20	2020	202020	Low & Bonar plc		15	
intu properties plc			601010	Lowland Investment Compan			402030
Invesco Perpetual Enhance			402030	LPA Group plc	20	2010	
INVESCO Perpetual UK Smal			402030	LSL Property Services Plc			601020
Investec plc			402030	M Winkworth PLC			601020
iomart Group plc	45	4510		M&C Saatchi plc	25	2540	
IP Group Plc			402030	M.P. Evans Group plc	30	3020	302020
ITE Group plc	25	2540		MacFarlane Group plc	20	2010	201070
ITV plc	25	2540		Majedie Investments PLC			402030
J D Wetherspoon plc	25	2530		Marshalls plc		15	
J Sainsbury plc		30		Martin Currie Global Port			402030
James Cropper plc		15		Mattioli Woods PLC			402030
James Fisher and Sons plc		10		McBride plc	30	3030	
James Halstead plc	20	2010		McKay Securities plc			601010
James Latham plc	20	2010	201070	Mears Group plc	20	2020	202010
Jardine Lloyd Thompson Gr			403010	Meggitt PLC	20	2010	201010
Jarvis Securities plc			402030	Melrose Industries PLC		20	
JD Sports Fashion plc	25	2550	255040	Michelmersh Brick Holding		15	
John Wood Group PLC		10		Microgen plc	45	4510	451030
Johnson Matthey Plc		15		Mid Wynd International In			402030
Johnson Service Group plc	20	2020	202010	Millennium & Copthorne Ho	25	2530	
JPMorgan American Investm			402030	Mitchells & Butlers plc	25	2530	
JPMorgan Chinese Investme			402030	Mitie Group plc		20	
JPMorgan Claverhouse Inve			402030	Miton Global Opportunitie			402030
JPMorgan Global Growth &			402030	Miton Group plc			402030
JPMorgan Japan Smaller Co			402030	MJ Gleeson plc	25	2520	252010

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Mobile Streams Plc	45	4510		Porvair plc	20	2010	201060
Mondi plc	15			Primary Health Properties			601010
Moneysupermarket.com Grou	45	4510		Proactis Holdings Plc	45	4510	451030
Moss Bros Group plc	25	2550	255040	Prudential plc			403010
Mountview Estates P.L.C.			601020	PZ Cussons Plc	30	3030	
Mpac Group plc	20	2010	201060	QinetiQ Group Plc	20	2010	201010
MS INTERNATIONAL plc	20	2010		R.E.A. Holdings plc	30	3020	302020
Mulberry Group plc	25	2520		Rathbone Brothers plc			402030
Murgitroyd Group plc	20	2020	202020	Real Good Food plc	30	3020	302020
N Brown Group plc	25	2550		Reckitt Benckiser Group p	30	3030	
National Express Group PL	20	2030	203040	Record plc			402030
National Grid plc	55			Redde plc	20	2030	203040
NCC Group plc	45	4510	451020	Redrow plc	25	2520	252010
Netcall plc	45	4510	451030	RELX PLC	20	2020	202020
NEX Group plc			402030	Renew Holdings plc	20	2010	201030
Next Fifteen Communicatio	25	2540		Renishaw plc	45	4520	452030
Next Plc	25	2550		Renold plc	20	2010	201060
Nichols plc	30	3020		Ricardo plc	20	2020	202020
NMC Health Plc	35	3510		Rio Tinto plc	15		151040
North Atlantic Smaller Co			402030	RM Plc	45		
Northbridge Industrial Se	20	2010	201060	Robert Walters PLC	20	2020	202020
Northern Investors Compan			402030	Robinson plc	15		
Northgate plc	20	2030	203040	Rolls-Royce Holdings plc	20	2010	
Novae Group Plc			403010	Royal Dutch Shell plc	10		101020
Numis Corporation Plc			402030	RPC Group Plc	15		
Ocado Group plc	25	2550		RPS Group plc	20	2020	202010
Omega Diagnostics Group P	35	3510		RSA Insurance Group plc			403010
Oxford Instruments plc	45	4520	452030	RWS Holdings plc	20	2020	202020
Oxford Metrics plc	45	4510	451030	Safestore Holdings plc			601010
Pacific Horizon Investmen			402030	Sanderson Group Plc	45	4510	451020
PageGroup plc	20	2020	202020	Savills plc			601020
Pantheon International PL			402030	Schroder Income Growth Fu			402030
PayPoint plc	20	2020	202010	Schroder Japan Growth Fun			402030
Pendragon PLC	25	2550	255040	Schroder Real Estate Inve			601010
Pennant International Gro	45	4510	451030	Schroder UK Mid Cap Fund			402030
Pennon Group Plc	55			Schroders plc			402030
Perpetual Income and Grow			402030	Science Group plc	20	2020	202020
Persimmon plc	25	2520	252010	SciSys plc	45	4510	
Petards Group plc	45	4510	451030	Scottish Mortgage Investm			402030
Photo-Me International pl	25	2520		SEGRO plc			601010
Picton Property Income Li			601020	Seneca Global Income & Gr			402030
Plastics Capital plc	15			Severfield plc	20	2010	201030
Polar Capital Holdings pl			402030	Severn Trent Plc	55		
Polar Capital Technology			402030	Shaftesbury PLC			601010
Portmeirion Group plc	25	2520	252010	Sigma Capital Group plc			601020

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Sky plc	25	2540		The Go-Ahead Group plc	20	2030	203040
SL Private Equity			402030	The Independent Investmen			402030
Smart Metering Systems Pl	45	4520	452030	The Law Debenture Corpora			402030
Smith & Nephew plc	35	3510		The Mercantile Investment			402030
SOCO International plc	10		101020	The Monks Investment Trus			402030
Solid State plc	45	4520	452030	The North American Income			402030
Sopheon plc	45	4510	451030	The Restaurant Group plc	25	2530	
Spectris plc	45	4520	452030	The Sage Group plc	45	4510	451030
Spirax-Sarco Engineering	20	2010	201060	The Scottish American Inv			402030
Spirent Communications pl	45	4520	452010	The Scottish Investment T			402030
Sportech PLC	25			The Unite Group plc			601010
Sports Direct Internation	25	2550	255040	The Vitec Group plc	25		
Sprue Aegis PLC	25	2520	252010	The Weir Group PLC	20	2010	201060
SRT Marine Systems plc	45	4520	452010	Titon Holdings plc	20	2010	
SSE plc	55			TR European Growth Trust			402030
St. James's Place plc			402030	TR Property Investment Tr			402030
St. Modwen Properties PLC			601020	Tracsis plc	45	4510	451030
Stadium Group plc	45	4520	452030	Trakm8 Holdings PLC	45	4520	452010
Staffline Group plc	20	2020	202020	Travis Perkins plc	20	2010	201070
Stagecoach Group plc	20	2030	203040	Treatt plc	15		151010
Standard Life Equity Inco			402030	Trifast plc	20	2010	201060
Standard Life UK Smaller			402030	Trinity Mirror plc	25	2540	
StatPro Group plc	45	4510	451030	Tristel Plc	35	3510	
SThree plc	20	2020	202020	Troy Income & Growth Trus			402030
Superdry Plc	25	2550		TT Electronics plc	45	4520	452030
Swallowfield plc	30	3030		Tyman plc	20	2010	
Synectics plc	45			U and I Group PLC			601020
Synthomer plc	15		151010	UK Commercial Property Tr			601020
System1 Group PLC	25	2540		Ultra Electronics Holding	20	2010	201010
TalkTalk Telecom Group PL	50			Unilever PLC	30	3030	
Tasty plc	25	2530		United Utilities Group PL	55		
Tate & Lyle plc	30	3020	302020	Urban&Civic plc			601020
Taylor Wimpey plc	25	2520	252010	Utilitywise Plc	20	2020	202020
Ted Baker PLC	25	2520		Value and Income Trust pl			402030
Telecom Plus plc	55			Vertu Motors plc	25	2550	255040
Telit Communications PLC	45	4520	452010	Vianet Group plc	45	4520	452030
Tesco PLC	30			Victoria plc	25	2520	252010
The Alumasc Group plc	20	2010		Victrex plc	15		151010
The Baillie Gifford Japan			402030	Vodafone Group Plc	50		
The Bankers Investment Tr			402030	Volga Gas plc	10		101020
The Berkeley Group Holdin	25	2520	252010	Vp plc	20	2010	201070
The Brunner Investment Tr			402030	Walker Greenbank plc	25	2520	252010
The Character Group plc	25	2520		WH Smith PLC	25	2550	255040
The City of London Invest			402030	Whitbread PLC	25	2530	
The Edinburgh Investment			402030	William Hill plc	25	2530	

Witan Investment Trust pl			402030
Wm Morrison Supermarkets	30		
Workspace Group plc			601010
WYG PLC	20	2010	201030
Wynnstay Group plc	30	3020	302020
Xaar plc	45	4520	
YouGov plc	25	2540	
Young & Co.'s Brewery, P.	25	2530	
ZEAL Network SE	25	2530	
Zimplats Holdings Limited	15		151040
Zotefoams plc	15		151010
Zytronic plc	45	4520	452030

Appendix R: GICS Codes in which Companies ("High-Financial-Risk" Set) are Included, United Kingdom

In Appendix R, a listing of the GICS codes in which each of the companies in the set of "high-financial-risk" companies in the United Kingdom region in the *2017 Valuation Handbook – International Industry Cost of Capital* Semi-annual Update (data through September 30, 2017) is presented.

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Acacia Mining plc	15		151040	Progility PLC	20		
Altyn Plc	15		151040	reach4entertainment enter	25	2540	
Amec Foster Wheeler plc	10			Redhall Group plc	20	2010	201030
Anglo Pacific Group plc	10		101020	Rentokil Initial plc	20	2020	202010
APC Technology Group PLC	45			RhythmOne plc	45	4510	
Avocet Mining plc	15		151040	SDL plc	45	4510	
Balfour Beatty plc	20	2010	201030	Serco Group plc	20	2020	202010
Centaur Media plc	25	2540		SIG plc	20	2010	
Christie Group plc	20	2020		Speedy Hire Plc	20	2010	
Cobham plc	20	2010		St Ives plc	20	2020	202010
Connect Group PLC	25			STV Group plc	25	2540	
CPPGroup Plc	20	2020	202010	Styles&Wood Group plc	20	2020	202010
De La Rue plc	20	2020	202010	Surgical Innovations Grou	35		
Dignity plc	25			The 600 Group PLC	20	2010	
Driver Group plc	20	2010	201030	Topps Tiles plc	25		
EKF Diagnostics Holdings	35			Tribal Group plc	25		
EnQuest PLC	10		101020	Tullow Oil plc	10		101020
EVRAZ plc	15		151040	Vectura Group plc	35		
Findel plc	25			Vedanta Resources plc	15		151040
Flybe Group PLC	20			Watchstone Group Plc	45	4510	
Genus plc	35			Wincanton plc	20		
Havelock Europa plc	20	2010	201030	ZOO Digital Group plc	45	4510	
Haynes Publishing Group P	25	2540					
Hochschild Mining PLC	15		151040				
Hogg Robinson Group plc	20	2020					
Hornby plc	25						
Hunting plc	10						
IGas Energy Plc	10		101020				
Immunodiagnostic Systems	35						
Inspiration Healthcare Gr	35						
InterContinental Hotels G	25						
JKX Oil & Gas plc	10		101020				
Johnston Press plc	25	2540					
KAZ Minerals plc	15		151040				
Lonmin Plc	15		151040				
Management Consulting Gro	20	2020					
Mothercare plc	25						
Mountfield Group Plc	20	2010	201030				
Newmark Security plc	45						
Parity Group plc	45	4510					
Pearson plc	25	2540					
Pebble Beach Systems Grou	45						
Petropavlovsk PLC	15		151040				
Porta Communications Plc	25	2540					
Premier Oil plc	10		101020				