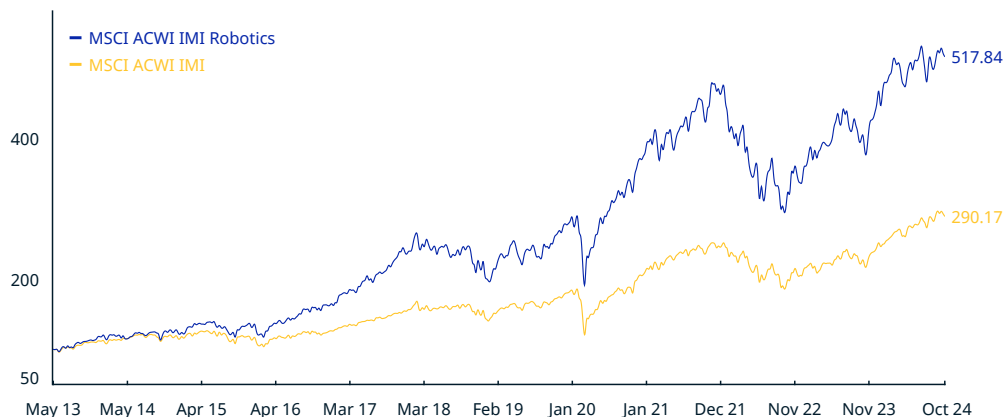


# MSCI ACWI IMI Robotics Index (USD)

The MSCI ACWI IMI Robotics Index is based on is based on the MSCI ACWI IMI Index, its parent index, and includes large, mid and small-cap securities across 23 Developed Markets (DM) and 24 Emerging Markets (EM) countries\*. The index aims to represent the performance of a set of companies that are associated with the development of new products and services focused on robots and automation.

For a complete description of the index methodology, please see [Index methodology - MSCI](#).

## CUMULATIVE INDEX PERFORMANCE – GROSS RETURNS (USD) (MAY 2013 – OCT 2024)



## ANNUAL PERFORMANCE (%)

Year	MSCI ACWI IMI Robotics	MSCI ACWI IMI
2023	37.72	22.18
2022	-28.21	-18.00
2021	23.32	18.71
2020	37.50	16.81
2019	38.78	27.04
2018	-16.15	-9.61
2017	46.81	24.58
2016	21.12	8.96
2015	6.64	-1.68
2014	5.80	4.36

## INDEX PERFORMANCE – GROSS RETURNS (%) (OCT 31, 2024)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED				Since May 31, 2013
					3 Yr	5 Yr	10 Yr		
MSCI ACWI IMI Robotics	-1.56	1.35	36.39	11.12	4.45	15.14	15.29	15.48	
MSCI ACWI IMI	-2.28	2.37	32.94	15.54	5.43	11.26	9.41	9.77	

## FUNDAMENTALS (OCT 31, 2024)

Div Yld (%)	P/E	P/E Fwd	P/BV
1.01	35.39	24.69	4.58
1.89	21.66	17.55	2.92

## INDEX RISK AND RETURN CHARACTERISTICS (MAY 31, 2013 – OCT 31, 2024)

	Beta	Tracking Error (%)	Turnover (%) <sup>1</sup>	ANNUALIZED STD DEV (%) <sup>2</sup>			SHARPE RATIO <sup>2,3</sup>			Since May 31, 2013	MAXIMUM DRAWDOWN	
				3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI ACWI IMI Robotics	1.18	8.34	33.30	23.27	21.93	19.74	0.15	0.65	0.73	0.78	39.04	2021-11-19–2022-10-14
MSCI ACWI IMI	1.00	0.00	2.23	16.60	17.74	15.01	0.19	0.56	0.56	0.61	34.47	2020-02-12–2020-03-23

<sup>1</sup> Last 12 months <sup>2</sup> Based on monthly gross returns data <sup>3</sup> Based on NY FED Overnight SOFR from Sep 1 2021 & on ICE LIBOR 1M prior that date

\* DM countries include: Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Hong Kong, Ireland, Israel, Italy, Japan, Netherlands, New Zealand, Norway, Portugal, Singapore, Spain, Sweden, Switzerland, the UK and the US. EM countries include: Brazil, Chile, China, Colombia, Czech Republic, Egypt, Greece, Hungary, India, Indonesia, Korea, Kuwait, Malaysia, Mexico, Peru, Philippines, Poland, Qatar, Saudi Arabia, South Africa, Taiwan, Thailand, Turkey and United Arab Emirates.

The MSCI ACWI IMI Robotics Index was launched on Oct 31, 2018. Data prior to the launch date is back-tested test (i.e. calculations of how the index might have performed over that time period had the index existed). There are frequently material differences between back-tested performance and actual results. Past performance – whether actual or back-tested – is no indication or guarantee of future performance.

**INDEX CHARACTERISTICS**

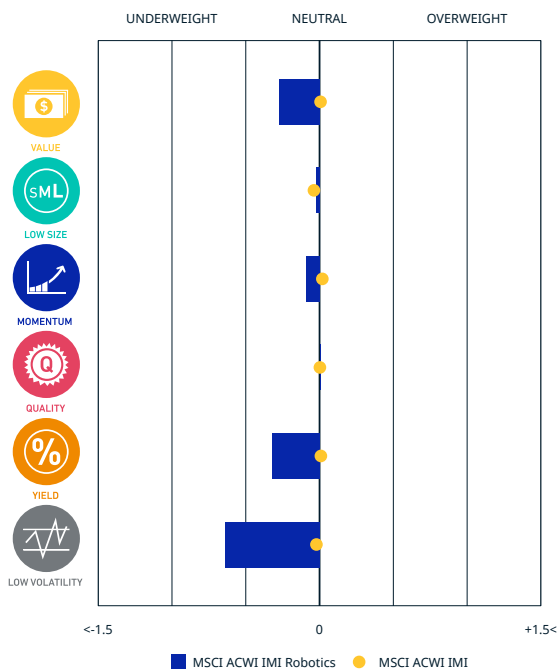
	MSCI ACWI IMI Robotics	MSCI ACWI IMI
<b>Number of Constituents</b>	286	8,780
	Weight (%)	
<b>Largest</b>	6.86	3.84
<b>Smallest</b>	0.00	0.00
<b>Average</b>	0.35	0.01
<b>Median</b>	0.04	0.00

**TOP 10 CONSTITUENTS**

	Country	Index Wt. (%)	Parent Index Wt. (%)	Sector
NVIDIA	US	6.86	3.81	Info Tech
JOHNSON & JOHNSON	US	5.21	0.45	Health Care
ADVANCED MICRO DEVICES	US	4.31	0.27	Info Tech
INTUITIVE SURGICAL	US	4.18	0.21	Health Care
ABB LTD	CH	3.89	0.10	Industrials
SALESFORCE	US	3.51	0.33	Info Tech
KEYENCE CORP	JP	3.20	0.10	Info Tech
QUALCOMM	US	3.05	0.21	Info Tech
ACCENTURE A	US	2.90	0.25	Info Tech
AUTODESK	US	2.68	0.07	Info Tech
<b>Total</b>		<b>39.79</b>	<b>5.81</b>	

**FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN**

**MSCI FACTOR BOX**



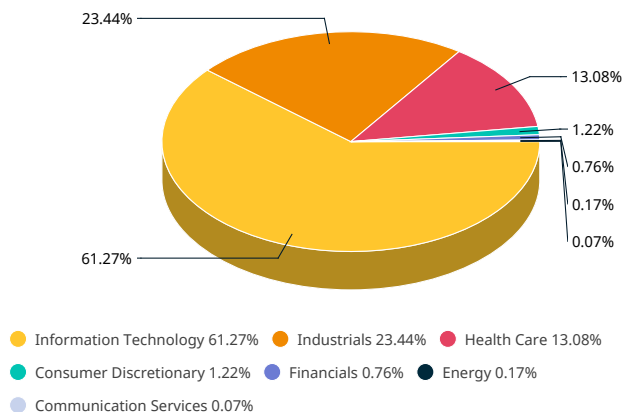
**MSCI FaCS**

- VALUE**  
Relatively Inexpensive Stocks
- LOW SIZE**  
Smaller Companies
- MOMENTUM**  
Rising Stocks
- QUALITY**  
Sound Balance Sheet Stocks
- YIELD**  
Cash Flow Paid Out
- LOW VOLATILITY**  
Lower Risk Stocks

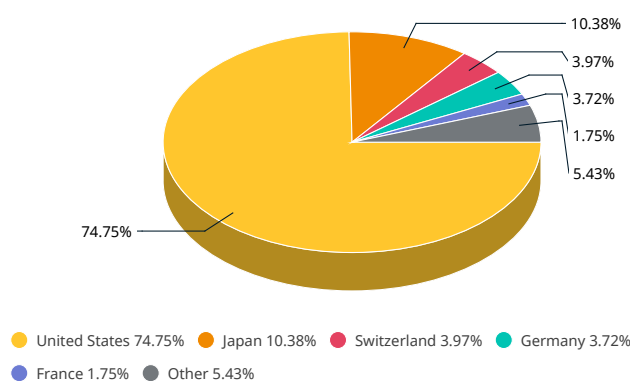
MSCI FaCS provides absolute factor exposures relative to a broad global index - MSCI ACWI IMI.

Neutral factor exposure (FaCS = 0) represents MSCI ACWI IMI.

**SECTOR WEIGHTS**



**COUNTRY WEIGHTS**



**MSCI FACTOR BOX AND FaCS FRAMEWORK (Please refer to complete description of the MSCI FaCS methodology [here](#))**

MSCI FaCS is a standard method for evaluating and reporting the Factor characteristics of equity portfolios. MSCI FaCS consists of Factor Groups (e.g. Value, Size, Momentum, Quality, Yield, and Volatility) that have been extensively documented in academic literature and validated by MSCI Research as key drivers of risk and return in equity portfolios. These Factor Groups are constructed by aggregating 16 factors (e.g. Book-to-Price, Earnings/Dividend Yields, LT Reversal, Leverage, Earnings Variability/Quality, Beta) from the latest Barra global equity factor risk model, GEMLT, designed to make fund comparisons transparent and intuitive for use. The MSCI Factor Box, which is powered by MSCI FaCS, provides a visualization designed to easily compare absolute exposures of funds/indexes and their benchmarks along 6 Factor Groups that have historically demonstrated excess market returns over the long run.

**ABOUT MSCI**

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