

ROBO / ROBO Global Robotics and Automation Index

Index fact sheet as of December 31, 2024

ROBO Facts

Ticker

Price Return: ROBO
Net Total Return: ROBOTR

Index Launch

August 02, 2013

Base Value

100 on December 31, 2002

Index Calculation

Every fifteen (15) seconds

Rebalancing Dates

Every third Friday of March, June, September, and December

Index Rules

Available at vettafi.com

Portfolio Characteristics

Number of Companies: 77
U.S. Companies: 32
Non-U.S. Companies: 45

Company Size by Market Capitalization (millions):

Average: \$69,482
Median: \$6,704
Largest: \$3,288,762
Smallest: \$372

Annualized Return*: 15.36%
Annualized Volatility*: 18.02%
Information Ratio*: 0.85
Trailing P/E: 40.07
Forward P/E: 22.92
Price/Book: 3.35
EV/Sales: 3.31
Dividend Yield: 1.15%

**Annualized performance and volatility are since inception, including back-test results prior to August 02, 2013*

The ROBO Global Robotics and Automation Index Series' objective is to provide investors with comprehensive, transparent and diversified benchmarks representing the global value chain of robotics, automation and enabling technologies.

The Case for ROBO

- INDUSTRY EXPERTS** specializing in robotics, artificial intelligence (AI), and healthcare technologies whose mission is to define and identify the universe of robotics and automation for investors
- GLOBAL EXPOSURE** to the value chain of robotics, automation, and AI companies, across developed and emerging markets.
- MULTI-CAP** index providing diversified access to large-, mid- and small-cap companies with minimal overlap with most broad market indices.

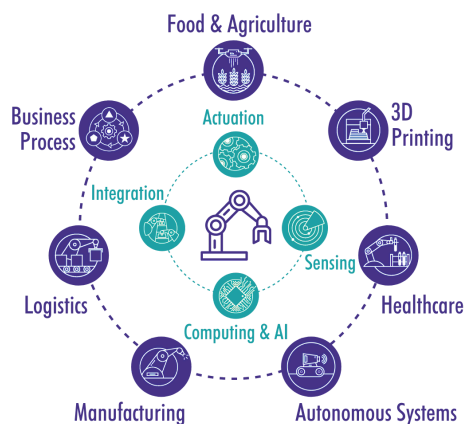
Performance of \$1,000 invested



Performance Data

	3 Month	6 Month	YTD	1 Year	Annualized		
					3 Year	5 Year	10 Year
Net Total Return	-0.6%	3.5%	-0.3%	-0.3%	-6.0%	7.0%	9.2%
Price Return	-0.7%	3.2%	-1.1%	-1.1%	-6.7%	6.2%	8.3%

ROBO Global Industry Classification



To date, we have identified 11 subsectors of suitable product and technology maturity to the robotics and automation theme. These subsectors carry high growth and earnings potential. On a regular basis, we screen our database to identify companies that fit into these subsectors, meet a minimum revenue threshold, and satisfy our ESG Policy. Each company is assigned a "Theme Score" based on the company's level of revenues, market and technology leadership, and investments. These scores range from 1-100 with 100 representing significant levels of revenues and leadership. A company must have a minimum Theme Score of 50 to be considered for inclusion in the index.

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Top 10 Constituents

Company Name	Index Weight
HARMONIC DRIVE SYSTEMS INC.	2.57%
HIWIN TECHNOLOGIES CORP.	2.08%
FANUC CORP.	1.85%
TERADYNE INC.	1.78%
INTUITIVE SURGICAL INC.	1.76%
AZENTA INC	1.73%
ROCKWELL AUTOMATION, INC.	1.71%
NOVANTA INC	1.71%
AMBARELLA INC	1.65%
AIRTAC INTERNATIONAL GROUP	1.64%
TOTAL	18.48%

Market Capitalization

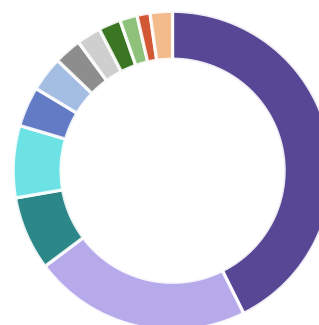


ROBO Global Industry Classification



Manufacturing Automation	20.8%	Actuation	15.0%
Logistics Automation	13.8%	Computing & AI	12.6%
Healthcare	10.3%	Sensing	7.6%
Integration	6.7%	Food & Agriculture	5.8%
Business Process	3.4%	3D Printing	2.2%
Autonomous Systems	1.9%		

Country Weightings



United States	42.7%	Japan	22.1%
Germany	7.5%	Taiwan	7.3%
Switzerland	4.0%	United Kingdom	3.5%
Canada	2.8%	Sweden	2.5%
Finland	2.2%	South Korea	1.8%
France	1.3%	Others	2.3%

About VettaFi

VettaFi, a data, analytics, and thought leadership company, is transforming financial services from an industry to a community one relationship at a time. In addition to providing interactive online tools and research, VettaFi offers asset managers an array of indexing and digital distribution solutions to innovate and scale their businesses. With billions in assets benchmarked to its indices and more than 200 customers globally asset managers look to VettaFi for benchmarks and best-in-class index solutions. VettaFi owns and administers the ROBO Global Index Series.

It is not possible to invest directly in an index. Index performance does not reflect the deduction of any fees or expenses. VettaFi does not sponsor, endorse, sell, or promote any investment product linked to or based on the ROBO Global Robotics and Automation Index. Performance is provided on a total-return basis. Historical performance illustrations in the indices may be based on a back-test calculation. Past performance of an index is not a guarantee of future results. The ROBO Global Robotics and Automation Index is the exclusive property of VettaFi, which shall have no liability for any errors or omissions in calculating the Index.