

# INDEX CONSTITUENTS

## ROBO GLOBAL<sup>®</sup> ROBOTICS AND AUTOMATION UCITS INDEX CONSTITUENTS

TOTAL NUMBER OF CONSTITUENTS: 87

EFFECTIVE DATE: 6/30/2018

COMPANY NAME	TICKER	WEIGHT
KOH YOUNG TECHNOLOGY INC.	098460 KQ	1.19%
AIRTAC INTERNATIONAL GROUP	1590 TT	0.81%
HIWIN TECHNOLOGIES	2049 TT	1.56%
DELTA ELECTRONICS INC.	2308 TT	1.00%
ADVANTECH CO LTD ORD	2395 TT	0.99%
TOSHIBA MACHINE CO LTD.	6104 JT	0.61%
AIDA ENGINEERING LTD	6118 JT	0.67%
FUJI CORP.	6134 JT	0.94%
NABTESCO CORP ORD	6268 JT	1.76%
SMC CORP ORD	6273 JT	1.02%
HARMONIC DRIVE SYSTEMS INC	6324 JT	1.62%
DAIFUKU CO LTD	6383 JT	1.59%
AMANO CORPORATION.	6436 JT	0.99%
NACHI-FUJIKOSHI CORP ORD	6474 JT	0.96%
THK CO LTD ORD	6481 JT	0.87%
YUSHIN PRECISION EQUIPMENT	6482 JT	0.29%
MITSUBISHI ELECTRIC CORP.	6503 JT	0.98%
YASKAWA ELECTRIC CORP ORD.	6506 JT	1.66%
DAIHEN CORP.	6622 JT	0.68%
OMRON CORP ORD	6645 JT	1.63%
YOKOGAWA ELECTRIC CORP ORD.	6841 JT	1.00%
KEYENCE CORP ORD	6861 JT	1.71%
DENSO CORP ORD	6902 JT	1.01%
OPTEX GROUP CO LTD.	6914 JT	1.03%
FANUC CORP	6954 JT	1.79%
TOPCON CORP	7732 JT	1.02%
ABB LTD-REG	ABBN SE	1.76%
AUTODESK INC.	ADSK UW	1.03%
SLM SOLUTIONS GROUP AG	AM3D GY	0.49%
AMBARELLA INC.	AMBA UW	0.96%
ACCURAY INC	ARAY UW	0.42%
ATS AUTOMATION TOOLING SYSTEMS INC	ATA CT	1.03%
AEROVIRONMENT INC.	AVAV UW	1.92%

ROBO GLOBAL® ROBOTICS AND AUTOMATION UCITS INDEX CONSTITUENTS *cont.*

COMPANY NAME	TICKER	WEIGHT
BROOKS AUTOMATION INC	BRKS UW	1.91%
BASLER AG	BSL GY	0.30%
CADENCE DESIGN SYSTEMS INC.	CDNS UW	1.04%
CARGOTEC OYJ CLASS B	CGCBV FH	0.96%
COGNEX CORP	CGNX UW	1.73%
3D SYSTEMS CORP	DDD UN	1.05%
DEERE & CO	DE UN	0.95%
DASSAULT SYSTEMES SA	DSY FP	1.06%
DUERR AG	DUE GY	0.90%
ELEKTA AB	EKTAB SS	1.08%
FARO TECHNOLOGIES INC	FARO UW	1.14%
FLIR SYSTEMS INC	FLIR UW	1.74%
GEA GROUP AKTIENGESELLSCHAFT	G1A GY	0.95%
HEXAGON AB CLASS B	HEXAB SS	0.98%
HELIX ENERGY SOLUTIONS GROUP	HLX UN	1.13%
HOLLYSYS AUTOMATION TECHNOLO.	HOLI UW	1.49%
IPG PHOTONICS CORP.	IPGP UW	1.64%
IROBOT CORP.	IRBT UW	2.01%
ISRA VISION AG	ISR GY	1.19%
INTUITIVE SURGICAL INC	ISRG UW	1.82%
JOHN BEAN TECHNOLOGIES CORP	JBT UN	1.00%
JENOPTIK AG	JEN GY	0.93%
KARDEX AG-REG	KARN SE	0.97%
KION GROUP AG	KGX GY	0.92%
KRONES AG	KRN GY	1.71%
LINCOLN ELECTRIC HOLDINGS	LECO UW	1.00%
MANHATTAN ASSOCIATES INC	MANH UW	1.09%
MAXAR TECHNOLOGIES LTD	MAXR CT	1.09%
MICROCHIP TECHNOLOGY INC	MCHP UW	0.94%
MAZOR ROBOTICS LTD	MZOR IT	1.52%
NATIONAL INSTRUMENTS CORP.	NATI UW	1.03%
NORDSON CORP	NDSN UW	1.02%
NOVANTA INC.	NOVT UW	1.00%
NUANCE COMMUNICATIONS INC	NUAN UW	1.06%
NVIDIA CORP	NVDA UW	0.96%
OCADO GROUP PLC	OCDO LN	1.07%
OCEANEERING INTL INC	OII UN	1.94%
PARAMETRIC TECHNOLOGY CORP	PTC UW	1.14%
QUALCOMM INC	QCOM UW	0.99%
QIAGEN NV	QGEN UN	1.05%

## ROBO GLOBAL® ROBOTICS AND AUTOMATION UCITS INDEX CONSTITUENTS *cont.*

COMPANY NAME	TICKER	WEIGHT
RAVEN INDUSTRIES INC . . . . .	RAVN UW . . . . .	1.02%
ROCKWELL AUTOMATION INC . . . . .	ROK UN . . . . .	1.73%
RENISHAW PLC. . . . .	RSW LN. . . . .	0.99%
SIEMENS AG . . . . .	SIE GY . . . . .	1.05%
STRATASYS LTD. . . . .	SSYS UW . . . . .	1.03%
SCHNEIDER ELECTRIC SE. . . . .	SU FP . . . . .	1.02%
TELEDYNE TECHNOLOGIES INC . . . . .	TDY UN . . . . .	0.99%
TECAN GROUP AG-REG . . . . .	TECN SE . . . . .	1.07%
TERADYNE INC . . . . .	TER UN . . . . .	1.04%
TRIMBLE INC . . . . .	TRMB UW . . . . .	1.01%
U-BLOX AG . . . . .	UBXN SE . . . . .	0.98%
VARIAN MEDICAL SYSTEMS INC . . . . .	VAR UN . . . . .	0.99%
XILINX INC . . . . .	XLNX UW . . . . .	0.99%
ZEBRA TECHNOLOGIES CORP . . . . .	ZBRA UW . . . . .	1.65%

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ADVANTECH CO LTD ORD . . . . .	2395 TT. . . . .	0.99%
TOSHIBA MACHINE CO LTD. . . . .	6104 JT . . . . .	0.61%
AIDA ENGINEERING LTD . . . . .	6118 JT . . . . .	0.67%
FUJI CORP . . . . .	6134 JT . . . . .	0.94%
NABTESCO CORP ORD . . . . .	6268 JT . . . . .	1.76%
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MITSUBISHI ELECTRIC CORP. . . . .	6503 JT . . . . .	0.98%
YASKAWA ELECTRIC CORP ORD. . . . .	6506 JT . . . . .	1.66%
DAIHEN CORP. . . . .	6622 JT . . . . .	0.68%
OMRON CORP ORD . . . . .	6645 JT . . . . .	1.63%

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COMPANY NAME	TICKER	WEIGHT
YOKOGAWA ELECTRIC CORP ORD.	6841 JT	1.00%
KEYENCE CORP ORD	6861 JT	1.71%
DENSO CORP ORD	6902 JT	1.01%
OPTEX GROUP CO LTD.	6914 JT	1.03%
FANUC CORP	6954 JT	1.79%
TOPCON CORP	7732 JT	1.02%
ABB LTD-REG	ABBN SE	1.76%
AUTODESK INC.	ADSK UW	1.03%
SLM SOLUTIONS GROUP AG	AM3D GY	0.49%
AMBARELLA INC.	AMBA UW	0.96%
ACCURAY INC	ARAY UW	0.42%
ATS AUTOMATION TOOLING SYSTEMS INC	ATA CT	1.03%
AEROVIRONMENT INC.	AVAV UW	1.92%
BROOKS AUTOMATION INC	BRKS UW	1.91%
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DEERE & CO	DE UN	0.95%
DASSAULT SYSTEMES SA	DSY FP	1.06%
DUERR AG.	DUE GY	0.90%
ELEKTA AB.	EKTAB SS	1.08%
FARO TECHNOLOGIES INC	FARO UW	1.14%
FLIR SYSTEMS INC	FLIR UW	1.74%
GEA GROUP AKTIENGESELLSCHAFT	G1A GY	0.95%
HEXAGON AB CLASS B.	HEXAB SS	0.98%
HELIX ENERGY SOLUTIONS GROUP	HLX UN	1.13%
HOLLYSYS AUTOMATION TECHNOLO.	HOLI UW	1.49%
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IROBOT CORP.	IRBT UW	2.01%
ISRA VISION AG	ISR GY	1.19%
INTUITIVE SURGICAL INC	ISRG UW	1.82%
JOHN BEAN TECHNOLOGIES CORP	JBT UN	1.00%
JENOPTIK AG	JEN GY	0.93%
KARDEX AG-REG	KARN SE	0.97%
KION GROUP AG	KGX GY	0.92%
KRONES AG.	KRN GY	1.71%
LINCOLN ELECTRIC HOLDINGS.	LECO UW	1.00%
MANHATTAN ASSOCIATES INC	MANH UW	1.09%
MAXAR TECHNOLOGIES LTD.	MAXR CT	1.09%

## ROBO GLOBAL® ROBOTICS AND AUTOMATION INDEX CONSTITUENTS *cont.*

COMPANY NAME	TICKER	WEIGHT
MICROCHIP TECHNOLOGY INC . . . . .	MCHP UW . . . . .	.0.94%
MAZOR ROBOTICS LTD . . . . .	MZOR IT . . . . .	.1.52%
NATIONAL INSTRUMENTS CORP. . . . .	NATI UW . . . . .	.1.03%
NORDSON CORP . . . . .	NDSN UW . . . . .	.1.02%
NOVANTA INC. . . . .	NOVT UW . . . . .	.1.00%
NUANCE COMMUNICATIONS INC . . . . .	NUAN UW . . . . .	.1.06%
NVIDIA CORP . . . . .	NVDA UW . . . . .	.0.96%
OCADO GROUP PLC. . . . .	OCDO LN . . . . .	.1.07%
OCEANEERING INTL INC . . . . .	OII UN . . . . .	.1.94%
PARAMETRIC TECHNOLOGY CORP . . . . .	PTC UW . . . . .	.1.14%
QUALCOMM INC . . . . .	QCOM UW . . . . .	.0.99%
QIAGEN NV. . . . .	QGEN UN . . . . .	.1.05%
RAVEN INDUSTRIES INC . . . . .	RAVN UW . . . . .	.1.02%
ROCKWELL AUTOMATION INC . . . . .	ROK UN . . . . .	.1.73%
RENISHAW PLC. . . . .	RSW LN. . . . .	.0.99%
SIEMENS AG . . . . .	SIE GY . . . . .	.1.05%
STRATASYS LTD . . . . .	SSYS UW . . . . .	.1.03%
SCHNEIDER ELECTRIC SE . . . . .	SU FP . . . . .	.1.02%
TELEDYNE TECHNOLOGIES INC . . . . .	TDY UN . . . . .	.0.99%
TECAN GROUP AG-REG . . . . .	TECN SE . . . . .	.1.07%
TERADYNE INC . . . . .	TER UN . . . . .	.1.04%
TRIMBLE INC . . . . .	TRMB UW . . . . .	.1.01%
U-BLOX AG . . . . .	UBXN SE . . . . .	.0.98%
VARIAN MEDICAL SYSTEMS INC . . . . .	VAR UN . . . . .	.0.99%
XILINX INC . . . . .	XLNX UW . . . . .	.0.99%
ZEBRA TECHNOLOGIES CORP . . . . .	ZBRA UW . . . . .	.1.65%

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