

INDEX CONSTITUENTS

ROBO GLOBAL[®] ROBOTICS AND AUTOMATION UCITS INDEX CONSTITUENTS

TOTAL NUMBER OF CONSTITUENTS: 88

EFFECTIVE DATE: 12/31/2018

COMPANY NAME	TICKER	WEIGHT
KOH YOUNG TECHNOLOGY INC	098460 KQ	1.48%
AIRTAC INTERNATIONAL GROUP	1590 TT	0.98%
HIWIN TECHNOLOGIES	2049 TT	1.73%
DELTA ELECTRONICS INC	2308 TT	1.06%
ADVANTECH CO LTD ORD	2395 TT	0.95%
GLOBAL UNICHIP CORP	3443 TT	0.86%
TOSHIBA MACHINE CO LTD	6104 JT	0.73%
FUJI CORP	6134 JT	0.96%
NABTESCO CORP ORD	6268 JT	1.67%
SMC CORP ORD	6273 JT	0.98%
HARMONIC DRIVE SYSTEMS INC	6324 JT	1.51%
DAIFUKU CO LTD	6383 JT	1.66%
AMANO CORPORATION	6436 JT	0.97%
NACHI-FUJIKOSHI CORP ORD	6474 JT	0.91%
THK CO LTD ORD	6481 JT	0.90%
YUSHIN PRECISION EQUIPMENT	6482 JT	0.27%
MITSUBISHI ELECTRIC CORP	6503 JT	0.95%
YASKAWA ELECTRIC CORP ORD	6506 JT	1.55%
DAIHEN CORP	6622 JT	0.71%
OMRON CORP ORD	6645 JT	1.66%
YOKOGAWA ELECTRIC CORP ORD	6841 JT	0.99%
KEYENCE CORP ORD	6861 JT	1.74%
OPTEX GROUP CO LTD	6914 JT	0.87%
FANUC CORP	6954 JT	1.77%
TOPCON CORP	7732 JT	0.92%
ABB LTD-REG	ABBN SE	1.03%
AUTODESK INC	ADSK UW	1.01%
SLM SOLUTIONS GROUP AG	AM3D GY	0.28%
AMBARELLA INC	AMBA UW	0.95%

COMPANY NAME	TICKER	WEIGHT
APTIV PLC	APTV UN	0.95%
ACCURAY INC	ARRAY UW	0.53%
ATS AUTOMATION TOOLING SYSTEMS INC	ATA CT	0.88%
AEROVIRONMENT INC	AVAV UW	1.78%
BIOTELEMETRY INC	BEAT UW	0.95%
BROOKS AUTOMATION INC	BRKS UW	1.82%
CADENCE DESIGN SYSTEMS INC	CDNS UW	1.06%
CARGOTEC OYJ CLASS B	CGCBV FH	0.88%
COGNEX CORP	CGNX UW	1.71%
3D SYSTEMS CORP	DDD UN	0.91%
DEERE & CO	DE UN	1.05%
DASSAULT SYSTEMES SA	DSY FP	1.03%
DUERR AG	DUE GY	1.03%
ELEKTA AB	EKTAB SS	0.97%
FARO TECHNOLOGIES INC	FARO UW	1.27%
FLIR SYSTEMS INC	FLIR UW	1.84%
GEA GROUP AKTIENGESELLSCHAFT	G1A GY	1.05%
GLOBUS MEDICAL INC	GMED UN	0.98%
HEXAGON AB CLASS B	HEXAB SS	1.03%
HELIX ENERGY SOLUTIONS GROUP	HLX UN	0.78%
HOLLYSYS AUTOMATION TECHNOLO	HOLI UW	1.68%
ILLUMINA INC	ILMN UW	0.97%
IPG PHOTONICS CORP	IPGP UW	1.67%
IROBOT CORP	IRBT UW	1.69%
ISRA VISION AG	ISR GY	0.80%
INTUITIVE SURGICAL INC	ISRG UW	1.78%
JOHN BEAN TECHNOLOGIES CORP	JBT UN	1.00%
JENOPTIK AG	JEN GY	0.89%
KARDEX AG-REG	KARN SE	1.17%
KION GROUP AG	KGX GY	0.97%
KRONES AG	KRN GY	1.69%
LINCOLN ELECTRIC HOLDINGS	LECO UW	1.03%
MANHATTAN ASSOCIATES INC	MANH UW	0.94%
MAXAR TECHNOLOGIES LTD	MAXR CT	0.87%
MICROCHIP TECHNOLOGY INC	MCHP UW	1.06%
MATERIALISE NV	MTLS UW	1.48%
NATIONAL INSTRUMENTS CORP	NATI UW	1.00%
NORDSON CORP	NDSN UW	1.09%
NOVANTA INC	NOVT UW	1.10%
NUANCE COMMUNICATIONS INC	NUAN UW	0.91%

COMPANY NAME	TICKER	WEIGHT
NVIDIA CORP	NVDA UW	1.65%
OCADO GROUP PLC	OCDO LN	1.02%
OCEANEERING INTL INC	OII UN	1.42%
PARAMETRIC TECHNOLOGY CORP	PTC UW	1.03%
QUALCOMM INC	QCOM UW	1.05%
QIAGEN NV	QGEN UN	1.01%
RAVEN INDUSTRIES INC	RAVN UW	1.00%
ROCKWELL AUTOMATION INC	ROK UN	1.70%
RENISHAW PLC	RSW LN	1.05%
SIEMENS AG	SIE GY	1.04%
STRATASYS LTD	SSYS UW	0.92%
SCHNEIDER ELECTRIC SE	SU FP	1.01%
TELEDYNE TECHNOLOGIES INC	TDY UN	1.05%
TECAN GROUP AG-REG	TECN SE	1.03%
TERADYNE INC	TER UW	1.00%
TRIMBLE INC	TRMB UW	0.96%
VARIAN MEDICAL SYSTEMS INC	VAR UN	0.99%
XILINX INC	XLNX UW	1.01%
ZEBRA TECHNOLOGIES CORP	ZBRA UW	1.76%

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