



POWERED BY AMT

International Manufacturing Technology Show

THK Mobile Guidebook

September 12 - 17, 2022 McCormick Place, Chicago IL | THK Booth : Hall E3-134802, 134803





IMTS2022

POWERED BY  AMT

International Manufacturing Technology Show

September 12 - 17, 2022 McCormick Place, Chicago IL

THK Booth: Hall E3-134802, 134803

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113 Exhibiting Our Products at IMTS 2022

IMTS 2022 出展に際して

Akihiro Teramachi, CEO, THK Group

THK グループ 最高責任者 寺町彰博

114 Profile

会社概要

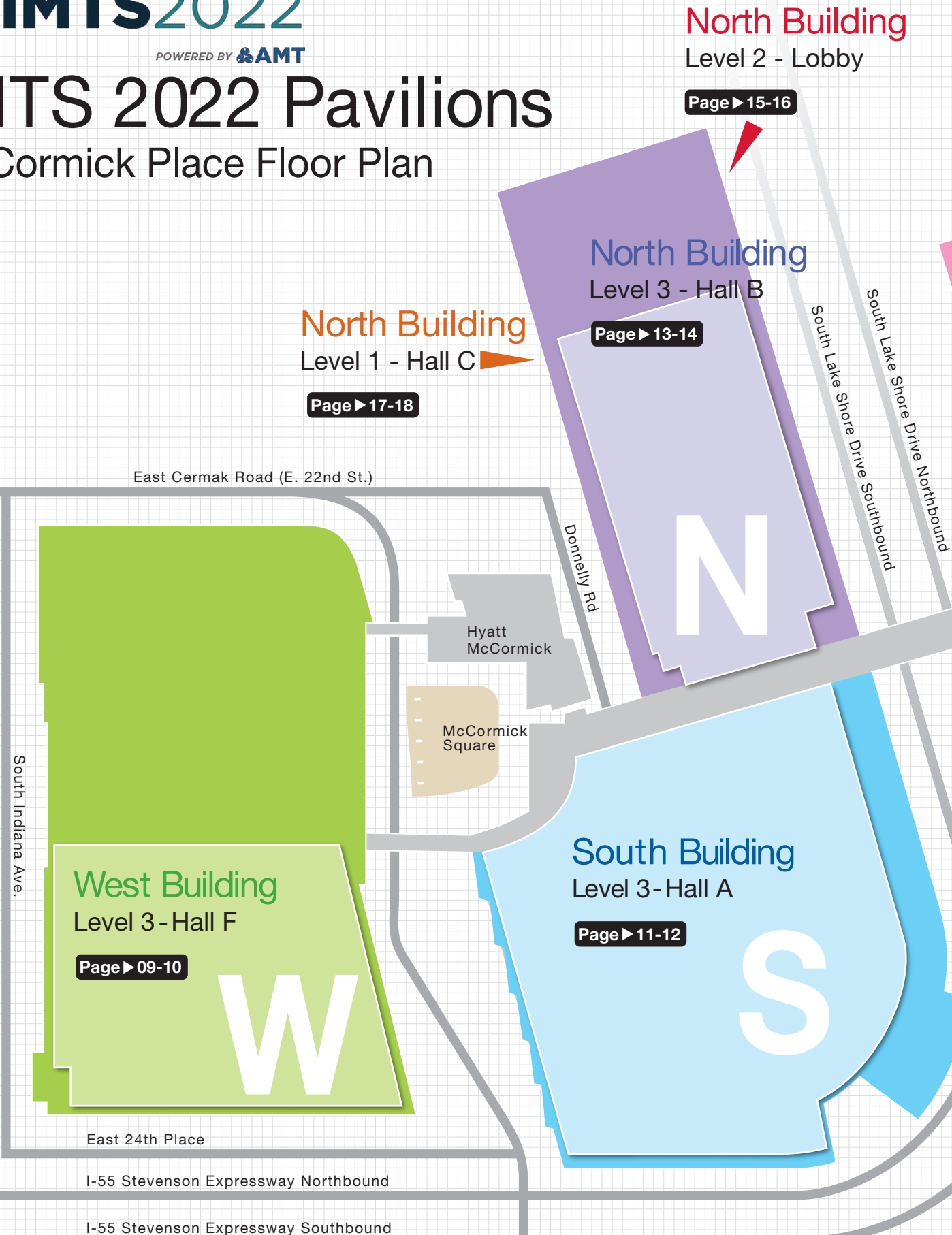
The background is a deep blue gradient. It features several large, semi-transparent circular shapes. Overlaid on these are glowing blue lines and dots, some of which form a network diagram with nodes and connecting lines. A bright, horizontal light streak cuts across the middle of the image, with a lens flare effect on the right side. The overall aesthetic is high-tech and futuristic.

THK

INNOVATION AND TECHNOLOGY IN MOTION

IMTS 2022 Pavilions

McCormick Place Floor Plan



IMTS SHOW DATES

September 12 - 17

McCormick Place, Chicago, IL USA

East Building, Level 3	9:00 am–5:00 pm
East Building, Level 2	8:30 am–4:30 pm
West Building, Level 3	9:00 am–5:00 pm
South Building, Level 3	10:00 am–6:00 pm
North Building, Level 3	10:00 am–6:00 pm
North Building, Level 1	9:00 am–3:00 pm

East Building 〈Lakeside Center〉

Level 3 - Hall D

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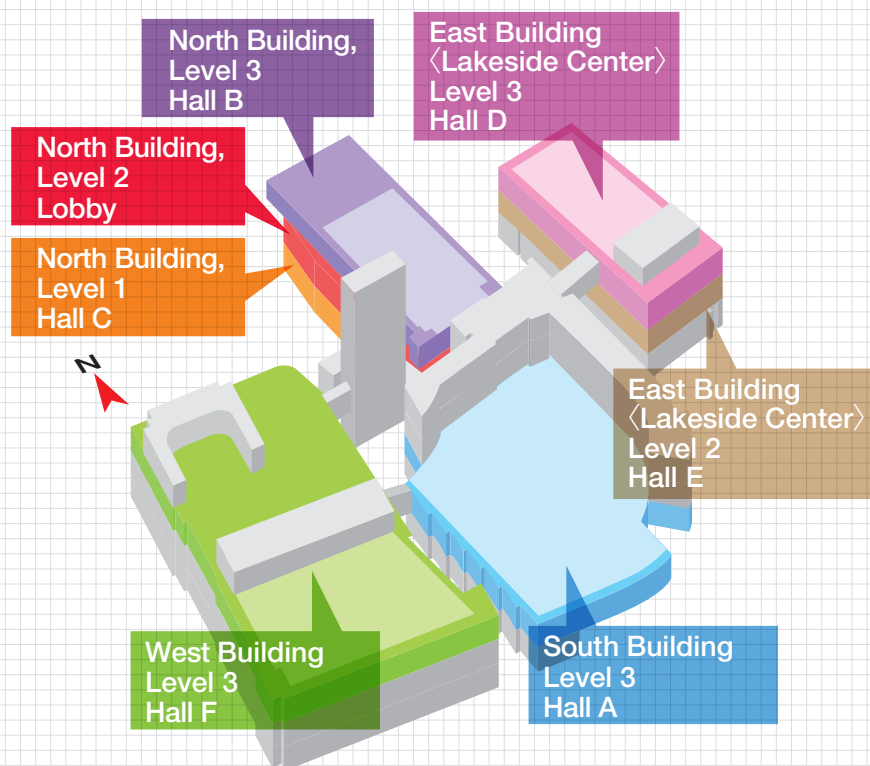
East Building 〈Lakeside Center〉

Level 2 - Hall E

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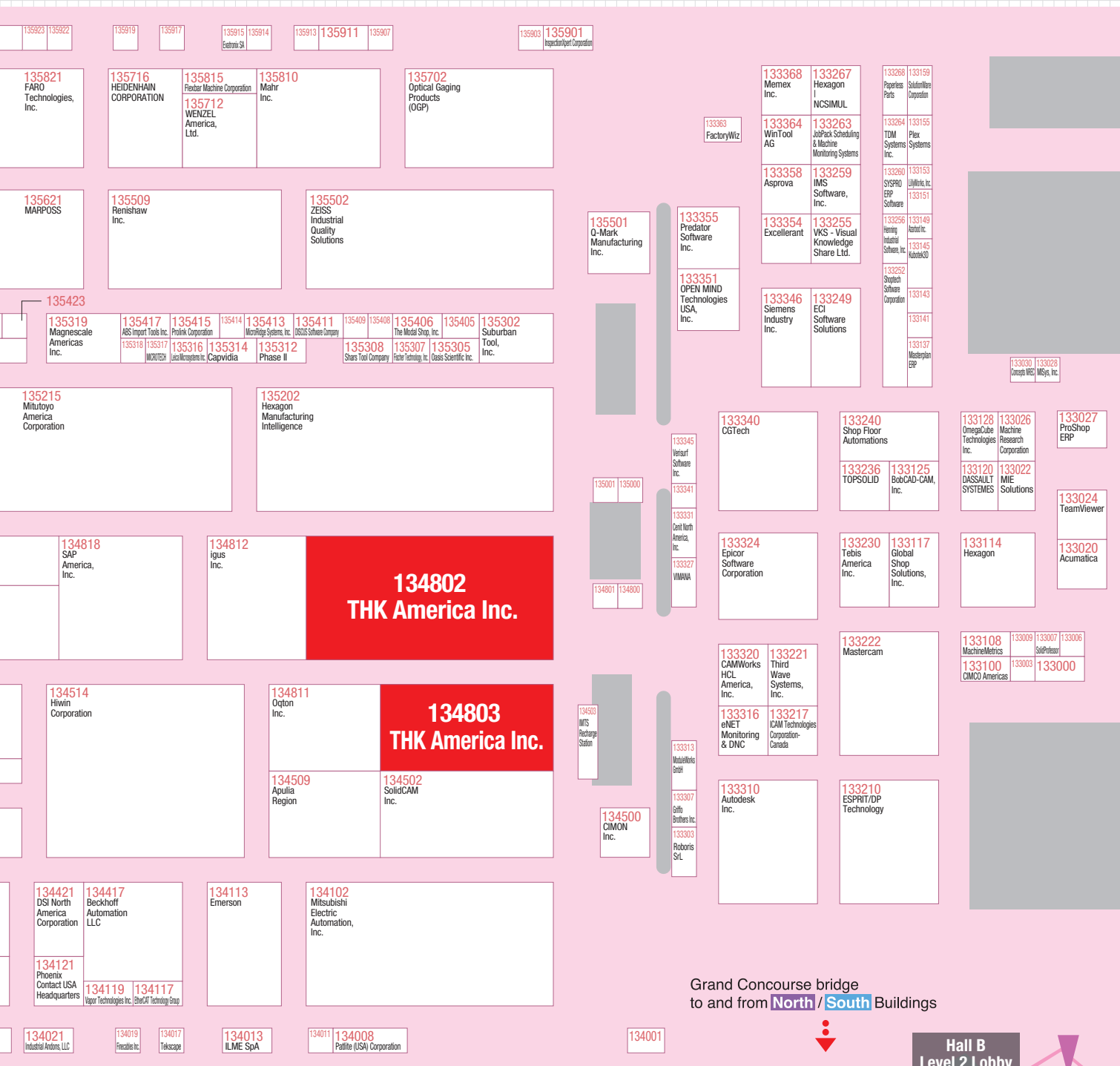
134802
134803



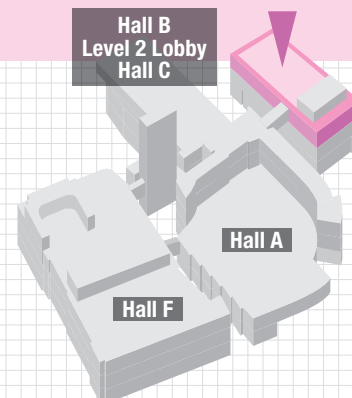
East Building <Lakeside Center> Level 3 - Hall D (E3)

135967	135966	135965	135963	135962	135961	135960	135958	135956	135954	135952	135947	135944	135941	135939	135938	135937	135936	135934	135932	135930	135928	135926	135924			
										Pi Physik Instrumente LP		Aligned Vision	Promess, Inc.	RX Solutions	Tie-Hoatung	USA Systems	Digital Design LLC	Heavy Precision Instruments Ltd.	Polytec, Inc.	Bit Vision Technology, Inc.	Metronor, Inc.					
Aisle 135800																										
135869	135865	135863	135860	135857	135854	135849	135847			135841	135838	135836	135833	135830			135828									
		Artec 3D		CEMB USA-BL SYSTEMS			AMETEK			EasyCMM		Made to Measure	Aberlink / Masters Precision	Holts Precision Inc.			Lumafield									
135788			135785	135784	135780	135778	135777	135776	135770	135764	135760	135756	135754	135750	135746	135742	135736			135730						
									Fowler Precision Tools	Advanced Industrial Measurement Systems, Inc.	Applied Automation Technologies, Inc.	Dorsey Metrology International, Inc.	OASIS Inspection Systems	Polyrix Inc.	Brüker Alicona	Werth, Inc.	Caron Engineering Inc.			MetrologyWorks						
Aisle 135600																										
135689	135685	135677	135673	135667	135663	135659	135657			135545	135541			135645	135532	135527										
		Forster Instruments, Inc.	SHINING 3D Technology Inc.	Edmunds Gages	Vicivision America	New River Kinematics	Automated Precision, Inc.			QUALITY Magazine	1factory, Inc.			Metrologic Group Services Inc.	Blum-Novotest, Inc.	CAPTURE 3D, LLC										
135581			135579	135575	135571	135567	135563	135557	135553	135549																
					VJ Technologies Inc.	METRIOS - VICI & C. S.p.A			ibg NDT Systems Corp.	Techna-Tool Inc.																
Aisle 135400																										
135465	135463	135462	135461	135460	135458	135456	135454	135453	135451	135449	135448			135444	135443	135442	135440	135438	135436	135435	135434	135432	135430	135429	135427	135425
						Advanced IQ Technology	PrimeTest Automation Inc.			Rayco Fixture	High QA Inc.			OAV				One-Stop-Test (Sgt.)		Jobell LLC	Gage Assembly Company	John Innes Supply Ltd.	OASS	Renar Laser Network, Inc.	TUV Rheinland	
135365	135364	135362	135360	135359	135356	135354	135352	135350	135348	135344	135342	135340	135339	135337	135335	135333	135331	135329	135327							
			IQ Technology Corporation		Digital Way, Inc.	Neural Electronics	UMITRON	Source Systems Corporation		Accurus Measurement, Inc.	JME Technologies		Air Gaging LLC		WRC Measure Supply Co., Inc.	Gradient Lens Corporation	J & L Metrology Company	Polygic Inc.	New Vise Corporation							
Aisle 135200																										
135194	135263	135261			135258	135255	135254	135252	135250	135162			135246	135242	135237			135230	135226							
					Creaform Inc.	ABTech Inc.	Proport Laser Systems	Mark-10 Corporation	Diatest Precision Gages	Schenck USA Corp	Ewellic	Fagor Automation Corporation			LK Metrology, Inc.	Keyence Corporation										
135190	135184					135174	135170	135166																		
Aisle 135100																										
		135080	135177	135175	135173	135169	135165	135062																		
		InnovMetric Software Inc.					INNOVATEST USA																			
				135074	135072	135070	135068	135066																		
Aisle 135000																										
135081	135079	135077	135075	135073	135071	135067	135065			135063	135059	135057	135051	135047	135045	135043	135039	135037	135035	135033	135031	135029	135027	135021	135019	
STMicroelectronics	IKIDO	MetaSafe				THE Automation, LLC	binder USA			Sensor Metrology	Innovalet Metrology	Euchner USA, Inc.	Murrelektronik Inc.	Radia Srl	Haskel	Helukabel USA, Inc.	Modula	DWFRITZ Metrology								
134982	134978	134976	134974	134972	134968	134966	134964			134856	134854	134848	134846	134844	134842	134840	134838	134836	134834	134832	134830	134828	134826	134824	134822	
Telegartner Inc.	Makidesch Co., Ltd.				KINECON					Foundation	Woehner LLC	Cognex	Q-Pag S.p.A.	Automation Services SRL	NR di Nisoli Srl	Amerifation, Inc.	Zimmer Group US Inc.	Eurotech Elite								
Aisle 134900																										
134993	134991	134989	134986	134984	134982	134980	134978	134976	134974	134972	134970	134968	134966	134964	134962	134960	134958	134956	134954	134952	134950	134948	134946	134944	134942	
AirTAC USA Corporation	San Gers	134976	134974	134972	134970	134968	134966	134964	134962	134960	134958	134956	134954	134952	134950	134948	134946	134944	134942	134940	134938	134936	134934	134932	134930	
Aisle 134800																										
134897	134893	134885	134879	134869	134863	134859	134857	134855	134841	134837	134835	134829	134827	134825	134823	134821	134819	134817	134815	134813	134811	134809	134807	134805	134803	
				IKO International	IBM Corporation	PDM-LABS LLC	relay, Inc.	AT&T Business	MISUMI																	
134766	134764	134760	134757	134750	134748	134746	134742	134740	134738	134736	134734	134732	134730	134728	134726	134725	134723	134721	134719	134717	134715	134713	134711	134709	134707	
			Nokia of America Corp.	Leidos			5G-ACIA 5G Alliance for Connected Industries & Automation																			
Aisle 134600																										
134566	134565	134564	134563	134562	134561	134560	134559	134557	134554	134552	134550	134548	134546	134544	134542	134540	134538	134536	134534	134532	134530	134528	134526	134524	134522	
		TEKMA	MFA	Kalva Enterprises Pvt. Ltd.	Telit	134559	134557	134555	134554	134552	134550	134548	134546	134544	134542	134540	134538	134536	134534	134532	134530	134528	134526	134524	134522	
Aisle 134400																										
134467	134466	134465	134464	134463	134462	134461	134460	134459	134458	134457	134454	134447	134446	134445	134444	134443	134442	134441	134440	134439	134438	134437	134436	134435	134434	
Aisle 134200																										
134249	134248	134247	134246	134245	134244	134243	134242	134241	134240	134239	134238	134237	134236	134235	134234	134233	134232	134231	134230	134229	134228	134227	134226	134225	134224	
Janitza LP	SmartD	Item America LLC	VDMA Services GmbH																							
134149	134148	134147	134146	134145	134144	134143	134142	134141	134140	134139	134138	134137	134136	134135	134134	134133	134132	134131	134130	134129	134128	134127	134126	134125		
Aisle 134000																										
134065	134064	134062	134060	134058	134056	134054	134052	134050	134048	134046	134044	134042	134040	134038	134036	134034	134032	134030	134028	134026						
			Super Engtech Pte. Ltd.	Southwire Company, LLC	Panda North America Corp	PR electronics, Inc.	134051	134049	134047	134043	134041	134040	134039	134038	134037	134036	134035	134034	134033	134032	134031	134030	134028	134026		
							Bores - Pearle - U.S. Inc.			NR America LLC / NBER	Michael Koch GmbH				SpaceSense	Meta-Simp America Corp.	LUTZE Inc.		Tapesmith Corporation	PanelShop.com						
134024																										

This map is current as of June 22, 2022
この地図は 2022 年 6 月 22 日現在のものです



- | | |
|--|---|
| 135408 Phillips Precision, Inc. | 135913 JUMO Process Control, Inc. |
| 135409 Digipass Technologies Inc. | 135914 Novacam Technologies Inc. |
| 135414 New Scale Robotics | 135917 ViewTech Borescopes |
| 135423 Meyer Gage Company | 135919 Dynascan Inspection Systems Company |
| 135424 Pratt & Whitney Measurement Systems Inc. | 135922 ABRO Balancing Incorporated |
| 135429 Nel Pretech Corporation | 135923 Brighton Science |
| 135436 NDC Technologies (Beta LaserMike Products) | 135924 Jesse Garant Metrology Center |
| 135440 ELECTRONICA MECHATRONIC SYSTEMS (INDIA) PVT. LTD | 135937 Industrial Inspection & Analysis |
| 135442 MISCO Refractometer | 135947 Origin International Incorporated |
| 135443 IAC Geometrical Engineers | 135960 LMI Corporation |
| 135451 Advanced Material Solutions (AMS) | 135961 INSIZE USA LLC |
| 135453 Bonal Technologies, Inc. | 135967 Rad Source NDT |
| 135460 Leica Geosystems | |
| 135776 GD&T Basics | |
| 135777 Bruker Nano Inc. | |
| 135778 DESTEC Solutions | |
| 135903 Volume Graphics, Inc. | |
| 135907 Machining Solutions, LLC | |

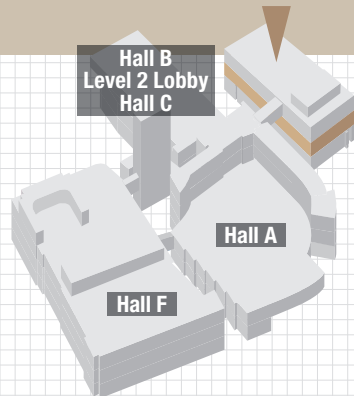


East Building ‹Lakeside Center› Level 2 - Hall E (E2)

121021

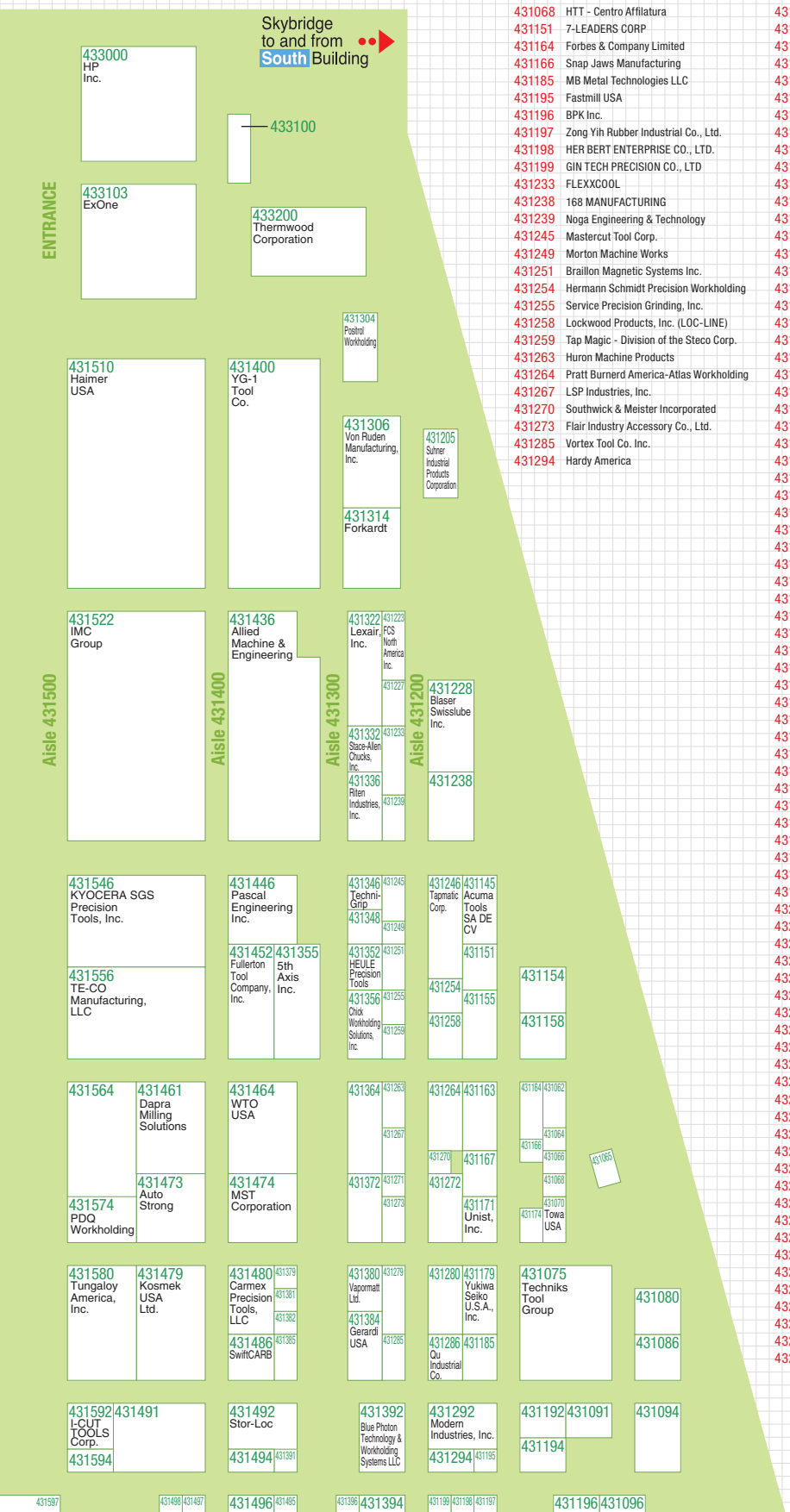
121081	121079	121077	121075	121073	121071		121069		121063	121061 MIP Logistics	121059 Informa	121055	121053 Rapid Prep	121051	121047 Team Texas	121045 ITT Endine	121041	121035 Rosedale Products Inc.	121033	121029	121023										
121098	121097	121096	121095	121094	121092	121090	121088	121086	121082	121080	121074	121070	121068 Nune PM Mechanics Sr	121064	121062	121058 Talleres MYL S.A.	121054 Graymills Corporation	121052 Nilfisk	121046 Jenfab Cleaning Solutions	121040 Jenfab Cleaning Solutions	121038 Hastings Air-Energy Control	121032 co-ax valves inc.	121028								
121185							121177	121175			121169			121165	121161	121157	121153 Schaefer Systems International Inc.	121151 Atlas Copco Compressors	121147 KYZEN Corporation	121143 Alliance Manufacturing, Inc.	121139	121133 HSD USA									
121194	121192	121190	121188	121184	121180	121178	121176				121174	121168 Castrol	121164 Walker Engineered Products	121160 Harrington Hoists, Inc.	121253			121150 MCR Safety	121144 Walsh Manufacturing	121138	121134 RUP Briquetting Systems	121231									
121297	121295	121291	121289	121287	121283	121279 ASD Safety Solutions, Inc.			121277		121269 LS Industries	121265 Esmat, Inc.	121261 Flexpipe	121257 DelgaçKaran Kompresör San. Tic. Ltd.				121249 WON ST CO., LTD.	121247		121237 Everest Elektro Mekanik Makina Sanayi ve Tic. A.Ş.										
121282	121280	121276			121272	121363 CPM Di Piu Systems					121262 QualChem, Inc.	121258 IMTS Recharge Station	121254 Enterprise Florida, Inc.		121250 Hubbard-Hall	121246 Kaeser Compressors, Inc.			121238	121234 Nikuni America, Inc.		121230 RIX North America	121325 Pro Mach								
121383	121377 Female Safety	121373 Rotoclear GmbH			121369 Factur						121361 MIJET	121355	121351 Orion Machinery		121347 CSA Technical Lighting Corp.				121335 Air Purification Incorporated			121327 Master North America									
121398	121396	121394	121392	121390	121388	121386	121384	121382 Aerofilm Systems Inc.		121380	121378	121376 Wearwell LLC	121372 Applied Robotics Inc.	121368 CAPLUGS	121364	121360 Closed Loop Recycling	121356	121352 AERODG, INC.	121348 Emerson - Branson	121344 Tape Caliber Corporation	121340 Alconox	121338	121336	121332 Thermal Edge	121328 MicroCare, LLC						
121499	121497	121495	121493	121491	121489	121487	121485	121483 MGT OIL LTD	121477 Hilman Rollers	121473 Dustcontrol Inc.	121471	121469	121467	121465 FT SRL	121461	121459	121445 Bogdan USA	121451	121449 Kornline-Barnes	121447 SIO	121443 Bissell Commercial	121441 J.W. Winco, Inc.	121439 Daubert Cromwell	121435 Werner Engineering Inc.	121431						
121488	121486	121482	121478	121474	121468					121464								121438 RBH TECHNIK GMBH	121436 Wieland Electric Inc.	121430 Shanley Pump & Equipment	121426 Analog Devices, Inc.	121424									
121595	121593	121591	121589 FecClean	121587	121585	121583 OL USA	121579 Heavy Motion	121577	121573 Reiland Electronics			121563 Graybar	121561 Dyfridat	121559	121555 JITBase	121553 Fulcrum	121547 Swiss Technologies				121531 MAM Automation GmbH	121527 SOLOMON TECHNOLOGY CORPORATION			121523						
121598	121594	121590	121588	121586	121584	121580 KSA-RULP Service Systems	121576			121574	121572 Patrikylum UNOMIC	121570 Gardelnet	121568 Gofornetz	121564	121562 boom	121560	121558 Irya, LLC	121657 Dassault Systemes	121554 Redzone	121552	121550	121548	121546	121544	121540	121536 Freedom IoT, LLC	121532 PoliMANAGE Smart Manufacturing Solutions				
121699	121697	121695	121693	121691	121689	121687	121685 Verbyale	121681		121679	121677 Cemag Ltd	121675 Depth Soft	121671 Plymoring	121669 Fishbow	121667 Seek XR	121665	121661 Symac				121659 Aptean	121657	121655	121649	121647	121645	121639	121637	121635 Paper-Less, LLC		
121698	121696	121694	121692			121678	121676	121674	121670	121666	121664	121662	121660	121658		121656	121654	121652	121648 Super Track CONVEYANCE division of	121646 Turbowin Co., Ltd.	121640	121638	121636		121634	121632	121630	121628	121626		
121799	121797	121795	121793			121777	121775	121771		121767	121765	121763	121761	121759		121757	121755	121753		121745 RFID, Inc.	121743	121741	121737 APANA INC.		121735	121733	121731	121727			
121798	121796	121794	121792			121784	121780	121776		121774	121772	121770	121768	121766	121764	121760	121758	121754 Aegis Software	121750 Aegis Software		121746	121744	121742	121740	121738	121736	121734	121730			
121897	121893					121889	121885	121881	121877	121873				121869	121865	121861	121857	121853	121849		121843	121839	121835	121829							
121898	121896	121894	121892			121888	121884	121880	121876	121874	121872	121868	121864	121862	121860	121858	121854	121953		121847 Solutions Theater - HANNOVER MESSE USA											
121999	121997	121995	121993			121989	121985	121981	121977	121975	121973	121971	121969	121967	121965	121963	121961	121959	121955		121844 Peak Performance Inc.	121842	121840	121838	121836	121834	121832	121828			
																				121951	121949	121947	121945	121943	121941	121939	121937	121935	121933		
121998	121996	121994	121992			121988	121984	121980	121976	121974	121972	121970	121968	121966	121964	121962	121960	121958	121954	121950	121948	121946	121944	121942	121940	121938	121936	121934	121932	121930	121928

121019	Ergotron Inc.	121378	Pro Ultrasonics Inc.	121486	Sin Yu Technology, Inc.	121639	steute Technologies
121029	NASA Technology Transfer Program	121380	DST-CHEMICALS Inc.	121487	VITO Coolant Filter	121640	Scroll Laboratories, Inc.
121032	Leister Technologies - Industrial Heating	121388	Alliance Metal India	121493	Pinellas County Economic Development	121645	CADDIS Systems
121033	American Sweeping Solutions	121392	TRANSEARCH, International	121510	Fractory Solutions OU	121646	Midwest Control
121041	Stop-Painting.com	121427	Zero Gravity Filters, Inc.	121522	Burns & McDonnell	121647	LeClaire Manufacturing
121051	Oriental Export Corporation	121431	Sky Hook / Syclone ATTCO Service	121528	Genius ERP	121649	Numerical Control Computer Sciences
121055	Pasco Economic Development Council	121447	Fluid Chillers Inc.	121544	Man & Machine, Inc.	121650	Priority Software
121062	State Development Corporation of Thuringia (LEG)	121451	CHIA-LUNN INDUSTRIAL CO., LTD.	121546	DeepHow Corp.	121661	Decide 4 Action
121068	DMM Technology Corp.	121453	Iguchi Kiko Company Limited	121550	Synapse Wireless	121667	Valor Manufacturing Training
121071	Miyanchand Ind., Co., Ltd.	121457	Oil Skimmers, Inc.	121551	GETT North America LLC	121677	Engineering USA
121230	Takachiho America, Inc.	121459	Technotrade International Inc.	121552	Copia Automation	121679	AutoForm Engineering USA Incorporated
121321	3M	121461	Flexicon / Atkore International	121559	Jigsaw Australia Pty Ltd.	121685	MW Industries - Servometer
121324	MICRO AIR	121465	HBC-radiomatic Inc.	121564	IMCO Associates Inc.	121699	Precision Eforming
121335	Blast Cleaning Technologies	121467	Newcastle Systems	121568	EAC Product Development Solutions	121711	JAY JALARAM PRECISION COMPONENT LLP
121336	SKM Industries, Inc.	121469	Zerust Corrosion Solutions	121583	American Industries Group	121731	Surface Finishing Equipment Co.
121338	HYFRA Industriekuehlanlagen GmbH	121471	WAGO Corporation	121601	RER Software, Inc.		
121355	GKS Lifting and Moving Solutions LLC	121479	NGL America Inc.	121621	SymphonyAI Industrial		
121356	Thomas Regout International B.V.	121481	GSA TECHNOLOGY CO., LTD.	121626	EVALED Evaporation Technologies		
121364	Economic Development Partnership of North Carolina	121485	Unitech Industries Inc.	121631	StartProto Manufacturing ERP		



431696
Anrufak

This map is current as of June 22, 2022
この地図は 2022 年 6 月 22 日現在のものです



Grand Concourse bridge to and from
North Building and Lakeside Center

338004
Ingersoll
Machine
Tools, Inc.

338009
Ebreitar
USA

338012
Knuth Machine
Tools USA, Inc.

338017
Keyence Corporation

338021
Fadal
Engineering
LLC

338025
Alzmetall
Machine Tools
USA Inc.

338032
TRAK Machine
Tools

338038
Buffoli
Transfer
SpA

338041 338043

338045
Pemat Machinery / Lucas

338048
Expand Machinery LLC

338054 338056

338058
Nicolas Correa
SA

338063

338068
Titan EDM

338162

338158
IMA
Schelling
Group

338252
Nidec
Machine
Tool
America LLC

338100
Haas
Automation,
Inc.

338109
C.R.
Onsrud
Inc.

338119
Hwacheon
Machinery
America,
Inc.

338129
Mitsubishi
EDM / MC
Machinery
Systems, Inc.

338136
Makino
Inc.

338140
SW North
America,
Inc.

338148

338245
Heller
Machine Tools

338250

338300
Mazak
Corporation

338319
Hurco
Companies,
Inc.

338329
GF
Machining
Solutions
LLC

338336
Dynamic
International,
Inc.

338348
Axle

338450
FFG
Americas

338434
Jingdiao North
America, Inc.

338440
Edge
Technologies

338500
Okuma America
Corporation

338519
Absolute
Machine
Tools, Inc.

338622
CNC Indexing
& Feeding
Technologies

338536
Yamazaki
Inc.

338546
Nigata
Machine Techno
USA, Inc.

338556
Starrag
USA
Inc.

338630
Matsuura
Machinery
USA Inc.

338640
Sodick,
Inc.

338656
Star CNC
Machine
Tool Corp.

338700
JTEKT TOYODA
AMERICAS
CORPORATION

338719
Maier
Machine
Tool, LLC

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338844
Murata
Machinery
USA, Inc.

338754
SMEC
Co.,
Ltd.

338760
WIS Machinery Station

338819
Mikron
Corporation
Monroe

338854
Belmont
Equipment &
Technologies

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Doosan
Machine Tools
America

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FANUC
Corporation

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YCM

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Machining
Technologies

338953
bavius
technologie
gmbh

338959
Parpas
America
Corp.

339053
WEILER
North
America
Corporation

339059
Fuji Machine
America
Corporation

339100
Hardinge

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INDEX
Corporation

339133
Kitamura
Machinery

339136
Porta
North
America
Inc.

339148
Koma
Precision,
Inc.

339153
MCM
USA
Inc.

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339159
UNISIG
Deep-Hole
Drilling
Systems

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PAMA
SpA

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Kingston
Machine
Tool Mfg., Inc.

339336
Zimmermann
Inc.

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Willem-
Macodel Inc.

339347
MIDACO
Corporation

339352
Abramp
Machinery
Inc.

339400
GIE Media

339410
Tsugami
/ Rem
Sales,
LLC

339419
Menubeni
Citizen-Cincom,
Inc.

339430
Shibaura
Machine
Company,
America

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Ensitu USA
Corporation

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Gosiger
High
Volume,
LLC

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North
America
LLC

Skybridge
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West Building

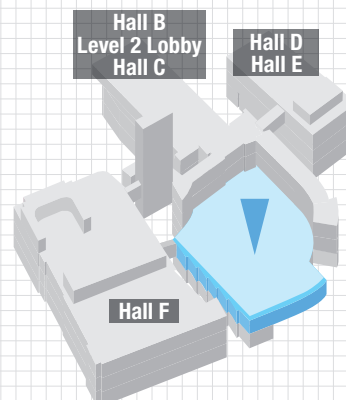
■ South Building Level 3 - Hall A (S)

This map is current as of June 22, 2022

この地図は 2022 年 6 月 22 日現在のものです

338164 Jorgensen Conveyer and Filtration Solutions	338171 Galzerano Machine Tools LLC	338172 Retolet USA	338173 Integrating Materials 338277 MP Systems		
338260	338374	338376 System 3R USA, Inc.	338378 Readers of America Inc.	338280 338383 338384	
338460 KAASST Machine Tools, Inc.	338373 Kays Engineering - DeHoff / Eldorado / TechniDrill	338381 JURST Boring & Milling Machines S.U.	338387 Weingartner Maschinenbau GmbH	338486 Tacchi USA, Inc.	338490 Mandelli Srl
338566 Sugino Corporation	338470 KGK International Corp.	338481 EROWA Technology, Inc.	338496 Uni-Fab Automation		
338666 WFL Millturn Technologies GmbH & Co. KG	338574	338578 Tornos Technologies U.S. Corporation	338586 LNS North America, Inc.	338592 Henning, Inc.	338596
338768	338670 SB MACHINE TOOLS	338676 Schutte North America	338686	338692	338696 Japan Machine Tools Corp.
338865 SNC Systems, Inc.	338774	338780 Gurutzpe Turning Solutions S.A.	338786 Manufacturing USA	338790 Mayfran International	338796 Sun Firm Machinery Ind. Co., Ltd.
338966 Bohle Machine Tools, Inc.	338874	338880 CAMBRO	338884 Modig Machine Tool	338890	338896 TEK4 Ltd.
339066	338980 Pietro Carnaghi USA, Inc.	338984	338986 Comprehensive Machinery Solutions	338994	338998 Marshall Machines (P) Ltd.
339166 CMS North America, Inc.	339080 GNUTTI TRANSFER, SpA of Italy	339082	339084	339092	
339266 Promac Srl	339174 FPT Industrie S.P.A.	339178 Chieto Corporation, S.A.	339186 Fasternis LLC	339190 NANO TECH Co., Ltd.	339292
339270	339272 Current EDM, Inc.	339276	339286 Spinner North America LLC	339288 Halter CNC Robotics LLC	
339371	339374 Ministry of Industry and Trade of the Czech Republic	339376	339383 Revolution Machine Tools	339396 WALDRICH COBURG NA, Inc.	339394 Wald America Corp. 339398
339476 Takamatsu Machinery Co., Ltd.	339468 339469 339470 339471 339466 339467 339469 339470 339471 339472 339473	339500	339516 339517 339518 339519		

- 338041 Penta Machine Company
- 338043 Bantam Tools
- 338054 DynaPath Systems Inc.
- 338062 Giuseppe Giana Srl
- 338068 SYIL Machine Tools, Inc.
- 338172 EDM Performance Accessories
- 338280 National Machine Products
- 338382 Mersen USA GS Corp - St. Marys
- 338384 BURKHARDT+WEBER LLC
- 338725 Levil Technology Corp.
- 338730 Racer Machinery International USA Inc.
- 338768 Optimum Machine Solutions
- 338821 Wells Index Milling Machines
- 338825 WINEMA TRANSFER MACHINES GmbH & Co. KG
- 338861 Maxmill Machinery Co., Ltd.
- 339163 Cubic Machinery, Inc.
- 339182 M. K. Morse Company, The
- 339184 Yong Ju Precision Technology Co., Ltd.
- 339263 Advanced Precision Works
- 339292 Tezmaşan Robot VE Otomasyon Teknolojileri San. Tic. As
- 339358 Advanced Machine & Engineering
- 339371 Acer/Springwood Industrial, Inc.
- 339382 Saporiti Srl
- 339384 Ethereal Machines Pvt Ltd.
- 339489 CYTEC Zylindertechnik GmbH
- 339490 CSC Bearing Co., Ltd.
- 339493 Move Marketing
- 339498 Automazioni Industriali Srl
- 339518 AMT - The Association For Mfg. Technology



Level 3 - Hall B (N3)

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236006	Manufacturing Technology, Inc. (MTI)	236330	PUNCH INDUSTRY USA INC.	236413	Inertia Friction Welding	236581	Yag Services
236016	Andantex USA Inc.	236331	Rathbone Precision Metals, Inc.	236422	Yen Shen Electric Ind. Co., Ltd.	236585	Quarton USA Inc.
236019	TECHNOMARK North America	236332	Vision Engraving and Routing Systems	236428	Weldsafe Company	236587	Asia Forging Supply Co., Ltd.
236028	Ambrell Induction Heating Solutions	236333	FluidForming Americas, LLC	236430	Flex Machine Tools	236630	Unison Corporation
236032	UltraFlex Power Technologies, Corp.	236335	LNA Laser Technology	236432	GH Induction Atmospheres LLC	236656	Fehr Warehouse Solutions Inc.
236035	Yetek	236341	TRA-C FSW Industrie	236438	SIC MARKING USA, INC.	236660	Baden-Wuerttemberg International
236042	CEIA USA Induction Heating Systems	236344	Izumi - All World Machinery Supply	236441	Vista Metals Corp	236664	Avantec Zerspantechnik GmbH
236046	Quintus Technologies	236345	Brooks Automation, Inc.	236443	VersaBuilt Robotics	236674	TBT - Tiefbohrtechnik
236052	Cornell Forge	236347	SPS Spindle Parts & Service	236445	Solar Manufacturing	236679	FARM NEW BRASS s.r.l.
236127	Synova USA	236349	Air Quality Engineering, Inc.	236446	Adapt Laser	236758	EVOSYS North America Corporation
236163	Parv Metal Processing Co.	236350	Rolled Alloys	236448	Geo. T. Schmidt, Inc.	236759	Hunger DFE GmbH
236165	Lingbo Group Inc.	236352	Industrial Machine Tool, Inc.	236451	SizTech LLC	236760	HAMUEL Maschinenbau GmbH & Co. KG
236175	EUNSSUNG CO., LTD.	236353	San Antonio Laser	236452	Water Jet Sweden AB	236761	Bavarian Ministry of Economic Affairs, Regional Development
236239	Veo Robotics	236354	Doringer Cold Saws, Inc.	236454	The FABRICATOR / CANADIAN METALWORKING	236762	OK Spezialschmierstoffe GmbH
236281	CNC Machines	236355	Markspan Marking Systems	236470	TECNO INDUZIONE SRL	236763	pro-micron GmbH
236283	Industrial Machine Trader's Manufacturers Showcase	236357	Dou Yee Technologies Pte Ltd	236473	Potlras Foundry Ltd.	236765	Bavarian Ministry of Economic Affairs, Regional Development
236293	VESSEL TOOLS USA INC	236358	Continental Pipe and Tube Cut-Off Machines	236478	Lets Media Corporation	236770	ERO-Fuehrungen GmbH
236295	DK Metals LLC	236370	Beamcut Systems	236482	J & M Media Corporation	236773	BLOKSMA Engineering GmbH
236300	Smalley	236372	Burlok Tool	236545	KMT Waterjet Systems Inc.	236878	Taiwan External Trade Development Council
236302	Elite Robots Inc.	236378	Manufacturing.net	236570	Alliance Specialties and Laser Sales	236879	MachineStation
236304	Rocklin Manufacturing Co.	236380	Metal Supermarkets Family of Companies	236571	IMTS Recharge Station	236880	Heat Seal, LLC
236311	Robotmaster, a Hypertherm brand	236382	SAE Media Group	236572	Gutekunst Formfedern GmbH	236963	Aeroex Technologies Inc.
236313	Smith Metal Products	236383	United Performance Metals	236573	Borries Marking Systems	236973	YHM Springtech Machinery Co.
236314	Formdrill USA, Inc.	236400	Toolpen Corporation	236574	Karl Klirk GmbH	236974	APEX PRECISION TECHNOLOGY CORP.
236322	Kinova	236402	Greenerd Press & Machine Company	236575	HPM Technologie GmbH	236975	ACROW MACHINERY MANUFACTURING CO., LTD.
236323	Eper Technology	236404	Tos Pressotechnik L.L.C.	236577	Machinery Marketing International	236977	RAS REDUCER Co., Ltd.
236324	Midwest Tool, Inc.	236409	Thermal Care, Inc.	236579	Ascentium Capital	236979	Entropy Precision System Inc.
236329	AIMTEK, Inc.	236411	Taylor-Winfield Technologies, Inc.	236580	KraussMaffei Corporation	236981	SHIN LONG PRECISION DIE CASTING CO., LTD.

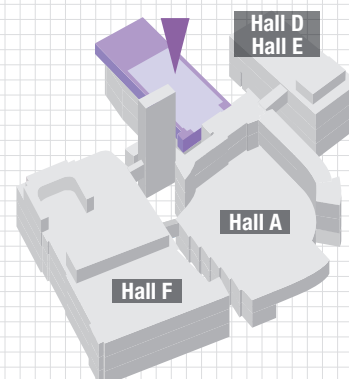
This map is current as of June 22, 2022
この地図は 2022 年 6 月 22 日現在のものです



236982 HSIANG KAI FU CO., LTD.
236983 bhagwansons
236984 Hantop Intelligence Technology Co., Ltd.
237073 Luoyang SFX Industrial Technology Co., Ltd.
237077 SHINJIN SM CO., LTD.
237080 PRECISION MACHINERY RESEARCH & DEVELOPMENT CENTER
237088 Tomei Diamond
237089 Roditor & Philadelphia Srl
237106 Ty-Miles, Inc.
237108 Mu-Tools SA
237117 Mecanica Comercial Mecco, S.L.
237118 Amorphylogy, Inc.
237120 EST Tools America, Inc. - Ever Sharp Tools
237126 Williams & White Equipment
237128 Mexicali Hard Chrome Corp.
237135 Crystal Mark, Inc.
237136 ARNTZ, Inc.
237138 South Bay Supply LLC
237139 Toolroom Solutions
237145 CLC Lubricants Co., Inc.
237147 Kent Corporation
237148 Brush Research Manufacturing Co., Inc.
237150 Machine Control Technologies, Inc.
237154 SHL Automation
237156 Pacer Industries, Inc.
237161 Jaeger Spindles NA Corp.
237163 Camel Precision Co., Ltd.
237165 Site Location Partnership (SLP)

237166 Hilzinger America Corporation
237170 Darmann Abrasive Products, Inc.
237171 SOLAR DIAMOND TOOLS (INDIA) PVT LTD
237176 Mega Machine Co., Ltd.
237179 Industrial Machinery Digest - Source 360 Media
237186 MANN+HUMMEL USA, INC.
237205 Darex LLC
237207 Greenlee Diamond Tool Company, Inc. - A DoAll Company
237210 G II Solutions
237212 C.A.M.S. S.R.L.
237213 Comco Inc.
237214 Action SuperAbrasive Products
237223 Rotec Tools Ltd.
237225 Gear Solutions Magazine
237227 Dontyne Gears Ltd.
237234 BaseTek, LLC
237236 Arcos-USA
237238 Eagle Superabrasives, Inc.
237243 Control Gaging, Inc.
237245 J. F. Berns Co.
237247 Tenryu America, Inc.
237249 Eberle America
237250 Showa Denko America Inc.
237251 Colonial Saw Company, Inc.
237257 Jepson Power Inc.
237258 Liberty Machinery Company
237259 Arrow Cryogenics Inc.
237260 Power Saw Inc.

237261 Leister Technologies - Laser Plastic Welding
237262 Diamond Saw Works Incorporated
237263 Dedeco International, Inc.
237265 J.L.H. Saws International Inc.
237266 Reliabilities LLC
237268 Tanis Brush
237269 Iwata Saw Mfg. Co., Ltd.
237272 DCM Tech, Incorporated
237275 Impact Engg. Corp. (India)
237311 NSK America Corporation
237314 Gear Technology / Power Transmission Engineering
237363 Jannher Machine Co., LTD.
237413 Fladder - Hansen & Hundebol, Incorporated
237437 Ecoroll Corporation Tool Technology
237477 International Abrasives
237503 Burr King Mfg. Company Inc.
237508 Sul Corte Importadora de Ferramentas Ltda
237515 Hangsterfer's Laboratories, Incorporated
237518 Brinkmann Pumps, Inc.
237520 Ruthman Companies-Gusher Pumps
237534 Soling Impact SL
237538 Haberle / Ken Bergman & Associates LLC
237547 Bel Air Finishing Supply



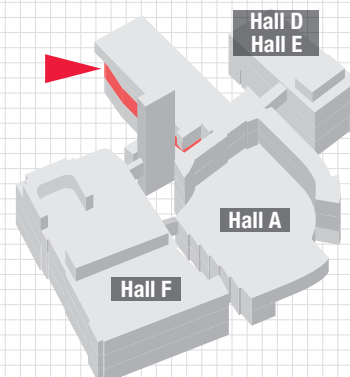
■ North Building Level 2 - Lobby (N2)

Open Area To Exhibit Floor Below

This map is current as of June 22, 2022
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221022	221021	221020	221019	221018	221017	221016	221015	221014	221013	221012
221001	221002	221003	221004	221005	221006	221007	221008	221009	221010	221011

- 221001 CECIMO - European Association of the Machine Tool Industries
 221002 TMBA - Taiwan Machine Tool & Accessory Builders' Association
 221003 VDW - German Machine Tool Builders' Association
 221004 TAMI - Taiwan Association of Machinery Industry
 221005 UCIMU-SISTEMI PER PRODURRE Italian Machine Tools, Robots and
 221007 SWISSMEM - Swiss Mechanical and Electrical Engineering Ind.
 221008 Czech SST - Association of Engineering Technology
 221011 KOMMA - Korea Machine Tool Manufacturers' Association
 221012 JTA - Japan Cutting and Wear-Resistant Tool Association
 221013 JMTBA - Japan Machine Tool Builders' Association
 221014 IMTMA - Indian Machine Tool Manufacturers' Association
 221017 CARMAHE-The Argentine Assoc of Machine Tools & Technology
 221018 AMTIL - Australian Manufacturing Technology Institute Ltd.
 221019 AMDM - Mexican Association of Machine Tool Distributors
 221020 AFM - Machine Tool Manufacturers Association of Spain
 221021 ABIMAQ - Brazilian Machinery Builders' Association



■ North Building Level 1 - Hall C (N1)



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215724

ENTRANCE

Aisle 215700

215717		215713	215711		215707	215705	215600 HEIDENHAIN CORPORATION
215618	215616	215614	215612	215610	215608	215606	

Aisle 215600

215520 SMC Corporation of America	215613	215500 FANUC Corporation
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Aisle 215500

215521	215517	215515	215513	215511	215501	
215422	215420	215418	215416	215412	215408	215400

Aisle 215400

215320 Autodesk Education	215300 Haas Automation, Inc.
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Aisle 215300

215323	215321	215317	215313 Mastercam	215200 Mastercam
	215218	215212		

Aisle 215200

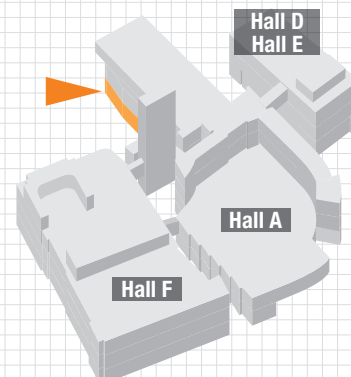
215120 Mitsubishi Electric Automation, Inc.	215219	215217	215211 TransfrVR	215209	215207	215100 SME Education Foundation
	215114 KUKA	215110 ABB Inc.	215208			

Aisle 215100

215018	215016 Yaskawa America, Inc. - Motoman Robotics Division	215113	215000 Festo Didactic Inc.
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Aisle 215000

215209 Okuma America Corporation
215212 Greater Chicago Advanced Manufacturing Partnership
215217 Goodheart-Willcox Publisher
215218 Mazak Corporation
215219 Technical Education Magazine
215317 Mitutoyo America Corporation
215321 Renishaw Inc.
215400 ZEISS Industrial Quality Solutions
215408 Verisurf Software Inc.
215412 Phillips Corporation
215416 Immerse Engineering
215418 Project MFG - Global Learning Accelerator, Inc.
215420 Advanced Manufacturing International (AMI)



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A	168 MANUFACTURING	431238	AIMMAP - Associacao dos Ind. Met. Metalomecanicos 134967, 134969, 134971, 134973, 134974
B	1factory, Inc.	135541	AIMTEK, Inc. 236329
C	1sourcevend	431984	Air Gaging LLC 135339
D	3D MicroPrint GmbH	134643	Air Purification Incorporated 121333
E	3D Systems	433104	Air Quality Engineering, Inc. 236349
F	3DEO, Inc.	433159	Air Turbine Tools 431645
G	3DXTECH	433100	Air Vise & Workholding 431391
H	3M	121321	AirTAC USA Corporation 134882
I	3M - RoboTape	236289	Alconox 121340
J	3nine USA, Inc.	121100	Aligned Vision 135944
K	4D Technology Corporation	135360	Allegheny York 134892
L	5G-ACIA 5G Alliance for Connected Industries & Automation	134742	Alliance Manufacturing, Inc. 121143
M	5th Axis Inc.	431355	Alliance Metal India 121388
N	6K Additive	433171	Alliance Specialties and Laser Sales 236570
O	7-LEADERS CORP	431151	Allied Machine & Engineering 431436
P	80/20 LLC	236568	Allways Precision 236723
Q	A		Almco Inc. 236652
R	AB Tools, Inc.	431969	Aloris Tool Technology Co., Inc. 432153
S	ABB Inc.	215110, 236520	Alpha Ball Screw 134238
T	Aberlink / Masters Precision	135833	Alpha Laser-US 236048
U	ABIMAQ - Brazilian Machinery Builders' Association	221021	ALS Schmiertechnik GmbH & Co KG 134642
V	Abrams Industries Inc.	134446	Alugha GmbH 134445
W	ABRO Balancing Incorporated	135922	Alzmetall Machine Tools USA Inc. 338025
X	ABS Import Tools Inc.	135417	AM Ventures Management GmbH 433230
Y	Absolute Machine Tools, Inc.	338519	AM4U 433010
Z	ABTech Inc.	135254	Amada Machinery America, Inc. 237200
	Abtex, LLC	237536	Amazon Web Services 121600, 121803
	Accu-Cut Industrial Co., Ltd.	431871	Ambrell Induction Heating Solutions 236028
	Accurex Measurement, Inc.	135344	AMDM - Mexican Association of Machine Tool Distributors 221019
	Accutek	431696	American Broach & Machine Company 237020
	Acer/Springwood Industrial, Inc.	339371	American Industries Group 121583
	Acme Manufacturing	237433	American Sweeping Solutions 121033
	ACROW MACHINERY MANUFACTURING CO., LTD.	236975	Amerimation, Inc. 134832
	Action SuperAbrasive Products	237214	AMETEK 135847
	Acuma Tools SA DE CV	431145	AMFG 432410
	Acumatica	133020	Amorphology, Inc. 237118
	Adapt Laser	236446	Amper Technologies, Inc. 121504
	Additive Assurance	433126	AMT - The Association For Mfg. Technology 236905, 339518
	Additive Industries North America, Inc.	433152	AMTIL - Australian Manufacturing Technology Institute Ltd. 221018
	AddUp Inc.	433133	AMT's Emerging Technology Center 236700
	ADEK Industrial Computers	135072	Analog Devices, Inc. 121426
	ADF Systems, Ltd.	236455	ANCA CNC Machines 237406
	Advanced Industrial Measurement Systems, Inc.	135764	Andantex USA Inc. 236016
	Advanced Machine & Engineering	339358, 432453	ANSYS, Inc. 433145
	Advanced Machine Works	339263	APANA INC. 121737
	Advanced Manufacturing International (AMI)	215420	APEX PRECISION TECHNOLOGY CORP. 236974
	Advanced Material Solutions (AMS)	135451	Applied Automation Technologies, Inc. 135760
	Advanced Superabrasives, Inc.	237530	Applied Robotics Inc. 121372
	Advanced VSR Technology	135456	Aptean 121651
	Aegis Software	121750	Apulia Region 134509
	Aeroex Technologies Inc.	236963	Arcos-USA 237236
	Aerofilm Systems Inc.	121382	Armor Protective Packaging 121123
	AEROGO, INC.	121352	ARNO-Werkzeuge USA LLC 431585
	AerosUSA, Inc.	134024	ARNTZ, Inc. 237136
	AFM - Machine Tool Manufacturers Association of Spain	221020	Arobotech Systems, Inc. 432226
	Agathon Machine Tools, Inc.	236823	Arrow Cryogenics Inc. 237259
	Agile Robotic Systems	236530	Artec 3D 135863
	Ahaus Tool and Engineering, Inc.	432371	A-Safe Inc. 121322
	AIDA CCI-Camara de Comercio e Industria Distrito de Aveiro	134975	ASAHI DIAMOND AMERICA, INC. 237472
			Ascent Aerospace 236367

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ASO Safety Solutions, Inc.	121279
Asprova	133358
ASQ Inspection Division	134800
ASSA ABLOY Entrance Systems	121580
ASTM International	433124
AT&T Business	134855
ATA TOOLS, INC.	432361
ATI Industrial Automation	236111
Atlas Copco Compressors	121151
Atrump Machinery Inc.	339352
Aurora Scientific Corp.	431991
Auto Strong	431473
Autocam Medical	431965
Autodesk Education	215320
Autodesk Inc.	133310
AutoForm Engineering USA Incorporated	121679
Automated Precision, Inc.	135657
Automation Services S.R.L.	134842
Automazioni Industriali Srl	339498
AutoStore	432094
Avantec Zerspantechnik GmbH	236664
Axile	338348
Axiomtek	134154
AXYZ International Inc.	236142
Azarbod Inc.	133149
AZUL 3D, INC.	433156
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Baden-Württemberg International	236660
Baker Industries, a Lincoln Electric Company	433163
Balance Systems Corporation	135350
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BARTON International	236022
Basaran Grinder Corporation	236817
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Bavarian Ministry of Economic Affairs, Regional Development	236761, 236765
bavius technologie gmbh	338953
bcom	121562
Beamcut Systems	236370
Beamer Laser Marking Systems	236244
Beckett Packaging, a Division of MOCAP	432179
Beckhoff Automation LLC	134417
Behringer Saws, Inc.	236844
Bel Air Finishing Supply	237547
Belmont Equipment & Technologies	338854
Benz Tooling	432445
bhagwansons	236983
Big Ass Fans	236459
BIG DAISHOWA Inc.	431610
Big Systems	433167
BigRep America Inc.	433158
Bilz Vibration Technology, Inc.	135928
binder USA	135065
Birla Precision Technologies Limited	431874
Bishop-Wisecarver Corporation	134825
BISON USA Corp.	431670
Bissell Commercial	121443
Blaser Swisslube Inc.	431228

Blast Cleaning Technologies	121335
Block USA, Inc.	134333
BLOKSMA Engineering GmbH	236773
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Blue Photon Technology & Workholding Systems LLC	431392
Blum-Novotest, Inc.	135532
BobCAD-CAM, Inc.	133125
Bohle Machine Tools, Inc.	338966
Bonal Technologies, Inc.	135453
Boplan USA	121455
Borries Marking Systems	236573
BPK Inc.	431196
Brailon Magnetic Systems Inc.	431251
Breton S.p.A	433238
Brightly Software	133003
Brighton Science	135923
Brinkmann Pumps, Inc.	237518
Brooks Automation, Inc.	236345
Bruker Alicona	135746
Bruker Nano Inc.	135777
Brulin	121305
Brush Research Manufacturing Co., Inc.	237148
Bucci Industries USA, Inc.	338270
Buffoli Transfer SpA	338038
Buhler Technologies, LLC	134040
Bunting-Newton	236555
BURKHARDT+WEBER LLC	338384
Burloak Tool	236372
Burns & McDonnell	121522
Burr King Mfg. Company Inc.	237503
Business Engineering America, Inc.	134011
Buww Coverings Inc.	121423
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C.A.M.S. S.R.L.	237212
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CADDIS Systems	121645
CAI Software	121556
CAMBRIO	338880
Camel Precision Co., Ltd.	237163
CAM-TOOL by CGS North America	133141
CAMWorks HCL America, Inc.	133320
Canela Corporation	432292
Canon U.S.A., Inc.	134864
CAPPLUGS	121368
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Carbinite Metal Coatings	431396
CARMAHE-The Argentine Assoc of Machine Tools & Technology	221017
Carmex Precision Tools, LLC	431480
Caron Engineering Inc.	135736
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CBG Biotech	432526
CCEA Technical Lighting Corp.	121347
CECIMO - European Association of the Machine Tool Industries	221001
CEIA USA Induction Heating Systems	236042
CEMB USA-BL SYSTEMS	135857
CemeCon, Inc.	431716
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A	Centaur Precision Tools Inc.	432033	Czech SST - Association of Engineering Technology	221008
B	CERATIZIT USA, Inc	431900	D	
C	CGTech	133340	Dalgakiran Kompresör San. Tic. Ltd.	121257
D	CGW Abrasives	237542	DANOBAT, S. COOP.	236811
E	Cheto Corporation, S.A.	339178	DaoAi Robotics Inc.	134662
F	Chevin Tools, Inc.	431749	DAPRA Marking Solutions	236246
G	CHIA-LUNN INDUSTRIAL CO., LTD.	121451	Dapra Milling Solutions	431461
H	Chiao Chuen Precision Machinery Co., Ltd.	432183	Darex LLC	237205, 432364
I	Chick Workholding Solutions, Inc.	431356	Darmann Abrasive Products, Inc.	237170
J	Chieftek Precision USA Co., Ltd.	134352	Dassault Systemes	121657
K	Chiron America, Inc.	134542	DASSAULT SYSTEMES	133120
L	CHUMPOWER MACHINERY CORP.	431784	Datanomix	121607
M	CIMCO Americas	133100	Daubert Cromwell	121439
N	Cimlogic Ltd.	121675	DCM Tech, Incorporated	237272
O	CIMON Inc.	134500	Decide 4 Action	121661
P	City Tools Co., Ltd.	431987	Dedeco International, Inc.	237263
Q	Clamptek USA, Inc.	431694	DeepHow Corp.	121546
R	CLC Lubricants Co., Inc.	237145	Desktop Metal	432212
S	Cleaning Technologies Group, LLC	121400	DESTEC Solutions	135778
T	Closed Loop Recycling	121360	Deublin Company	121003
U	CMS North America, Inc.	339166	Diamond Saw Works Incorporated	237262
V	CNC Indexing & Feeding Technologies	338622	Diatest Precision Gages	135162
W	CNC Machines	236281	Diehl Tool Steel	431765
X	CNC Systems, Inc.	338865	DigiFabster	121561
Y	co-ax valves inc.	121028	Digipas Technologies Inc	135409
Z	Cognex	134848	Digital Metrology Standards Consortium (DMSC)	135000
	Coherent, Inc.	236008	Digital Way, Inc.	135356
	Colonial Saw Company, Inc.	237251	Digitalium dba MR Service & Consult LLC	134344
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	Comco Inc.	237213	Dijet Inc.	431671
	Comprehensive Machinery Solutions	338986	Dinkle Corporation USA	134145
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	Concepts NREC	133030	DISCUS Software Company	135411
	Cone Drive	134435	DK Metals LLC	236295
	Continental Diamond Tool Corp.	237253	DM3D Technology, LLC	433020
	Continental Pipe and Tube Cut-Off Machines	236358	DMM Technology Corp.	121068
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	Cornell Forge	236052	Doringer Cold Saws, Inc.	236354
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	CP GRAT -EX MFG. CO.	432195	Drishti Technologies, Inc.	134239
	CPM Di Piu Systems	121363	DropsA North America, Inc.	431664
	Creaform Inc.	135258	DSI North America Corporation	134421
	Creative 3D Technologies, Inc.	432518	DST-CHEMICALS Inc.	121380
	Creative Automation, Inc.	236435	DTR Corporation	237017
	Crest Ultrasonics	121129	Dura-Bar	432172
	Crystal Mark, Inc.	237135	Dustcontrol Inc.	121473
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	Cy Carbide Mfg. Co., Ltd.	431850	Dynascan Inspection Systems Company	135919
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E J Company	431497	Everest Elektro Mekanik Makina Sanayi ve Tic. A.S.	121237
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Emerson	134113	Fastech LLC	433118
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Entropy Precision System Inc.	236979	Ferndale Safety	121377
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Epicor Software Corporation	133324	FFG Americas	338450
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		Formdrill USA, Inc.	236314

A	Formlabs	433219	Greenerd Press & Machine Company	236402
	Fortify	433114	Greenlee Diamond Tool Company, Inc.- A DoAll Company	237207
B	Fowler Precision Tools	135770	Griffo Brothers Inc.	133307
C	FPT Industrie S.P.A.	339174	Gruppo Riello Sistemi North America	339282
D	Fractory Solutions OU	121510	GSA TECHNOLOGY CO., LTD.	121481
	Freedom IOT, LLC	121536	Guidewheel	121570
E	FT SRL	121463	Gurutzpe Turning Solutions S.A.	338780
F	Fuchs Lubricants Co.	431646	Gutekunst Formfedern GmbH	236572
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Scientific Cutting Tools	432268

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Tacchi USA, Inc.	338486
Taicin L.S. Co., Ltd.	134038
Taiwan External Trade Development Council	236878
Taiyo Cabletec Corporation	121344
Takachiho America, Inc.	121320
Takamatsu Machinery Co., Ltd.	339476
Talleres MYL S.A.	121058
TAMI - Taiwan Association of Machinery Industry	221004
TA-MOU Precision Industrial Co., Ltd.	431872
Tanis Brush	237268
Tap Magic - Division of the Steco Corp.	431259
Tapeswitch Corporation	134028
Tapmatic Corp.	431246
Taylor-Winfield Technologies, Inc.	236411
TBI Motion Technology Co., Ltd.	121217
TBT - Tiefbohrtechnik	236674
TCI Precision Metals	432123
TDM Systems Inc.	133264
Team Texas	121047
TeamViewer	133024
Tebis America Inc.	133230
TECHMET CARBIDES, INC.	431553
Techna-Tool Inc.	135549
Technical Education Magazine	215219
Techni-Grip	431346
Techniks Tool Group	431075
TECHNOMARK North America	236019
Technotrade International Inc.	121459
TECNO INDUZIONE SRL	236470
Tecnotion Inc.	134437
TE-CO Manufacturing, LLC	431556
TEK4 Ltd.	338896
TEKIMA	134663
Tek-Industrial	135938
Tekscape	134017
Telegartner Inc.	134982
Telesis Technologies, Inc.	236000
Telit	134657
Tenryu America, Inc.	237247
Tezmaksan Robot VE Otomasyon Teknolojileri San. Tic.As	339292
The FABRICATOR / CANADIAN METALWORKING	236454
The L. S. Starrett Co.	135044
The Modal Shop, Inc.	135406
Thermal Care, Inc.	236409
Thermal Edge	121332
Thermwood Corporation	433200
THG Automation, LLC	135067
Third Wave Systems, Inc.	133221
THK America Inc.	134802, 134803
Thomas Regout International B.V.	121356
Thors, LLC	236285
TIERRATECH USA	121020
Tiger-Vac Inc.	121413
Timepayment	121569
Titan EDM	338064
TMBA - Taiwan Machine Tool & Accessory Builders' Association	221002
TnC Shark Co., Ltd.	431767
Tocho Marking Systems America, Inc.	236315
TombstoneCity	432443
Tomei Diamond	237088

Tooling U-SME	431679
Toolmen Corporation	236400
Toolroom Solutions	237139
TOPSOLID	133236
Tornos Technologies U.S. Corporation	338578
Towa USA	431070
Tower Metalworking Fluids	432479
Tox Pressotechnik L.L.C.	236404
Toyo Automation Co., Ltd.	134554
TRA-C FSW Industrie	236341
TRAK Machine Tools	338032
TRANSEARCH, International	121392
TransfrVR	215211
Transmission Machinery Co., Ltd.	134136
Transor Filter USA	237440
Trinity Robotics Automation	134129
Triple-T Cutting Tools, Inc.	432250
Trotec Laser, Inc.	236055
TRUMPF Inc.	236217, 433037
TST Tooling Software Technology	133000
Tsugami / Rem Sales, LLC	339410
Tsune America LLC	237365
TTC North America, LLC	432382
Tulip Interfaces	121602
Tungaloy America, Inc.	431580
Tungco Powder Procurement	432192
Turbowin Co., Ltd.	121642
TUV Rheinland	135425
TYKMA Electrox - Industrial Laser Systems	236266
Ty-Miles, Inc.	237106
U	
U S Shop Tools	432122
U.S. Chrome Corporation	433110
U.S. Lubricants	431771
UCIMU-SISTEMI PER PRODURRE Italian Machine Tools, Robots and	221005
Ulmer Tool Grinders - Reinecker	237426
UltraFlex Power Technologies, Corp.	236032
Uni-Fab Automation	338496
Union Materials Corporation	432180
UNISIG Deep Hole Drilling Systems	339159
Unison Corporation	236630
Unisorb Installation Technologies	237545
Unist, Inc.	431171
Unitech Industries Inc.	121485
UNITED GRINDING North America, Inc.	236802
United Performance Metals	236383
United Surface Solutions LLC	236609
UNITRON	135352
Universal Robots USA, Inc.	236949
UNOMIC	121572
US Union Tool, Inc.	432138
USA Borescopes	135936
V	
VacuumTables.com Graphic Parts International Inc.	431382
Valor Manufacturing Training	121667
Vapor Technologies Inc.	134119
Vapormatt Ltd.	431380
Vargus USA	432251
VBN Components AB	432528
VDMA Services GmbH	134242

A	VDW - German Machine Tool Builders' Association	221003	WFL Millturn Technologies GmbH & Co. KG	338666
	Vektec LLC	431922	Whitney Tool Company, Inc.	432175
B	Velo3D	433031	Widin Inc.	431591
	Vention	236740	Wieland Electric Inc.	121436
C	Veo Robotics	236239	Willemin-Macodel Inc.	339341
	Vergason Technology, Inc.	433014	Williams & White Equipment	237126
D	Verisurf Software Inc.	133345, 215408	WINEMA TRANSFER MACHINES GmbH & Co. KG	338825
E	VersaBuilt Robotics	236443	Winstar Cutting Technologies Corp.	432498
	Veryable	121683	WinTool AG	133364
F	VESSEL TOOLS USA INC	236293	Wirepas	134726
	Vicivision America	135663	WISER Systems Inc	134037
G	Vidir Inc.	432287	Woehner LLC	134854
H	ViewTech Borescopes	135917	WON ST CO., LTD.	121249
	VIMANA	133327	Woorim Power Train Solution Co., Ltd.	134728
I	Virtek Vision	236379	WTO USA	431464
	Vision Engineering Inc.	135323	Würth Additive Group	432427
J	Vision Engraving and Routing Systems	236332	X	
K	Visiport	121300	Xact Metal	433041
	Visometry GmbH	135261	Xerox Elem Additive Solutions	433234
L	Vista Metals Corp	236441	Xometry	433012
	Visual Factories	121518	XYZprinting, Inc.	432423
M	VITO Coolant Filter	121487	Y	
	VJ Technologies Inc.	135567	Yag Services	236581
N	VKS - Visual Knowledge Share Ltd.	133255	Yamazen Inc.	338536
O	voestalpine eifeler Coatings	432490	Yaskawa America, Inc.- Motoman Robotics Division	215016, 236601
	Vollmer of America Corp.	236834	YCM	339033
P	Volume Graphics, Inc.	135903	Yen Shen Electric Ind. Co., Ltd	236422
Q	Von Ruden Manufacturing, Inc.	431306	YG-1 Tool Co.	431400
	Vortex Tool Co. Inc.	431285	YHM Springtech Machinery Co.	236973
R	voxeljet America Inc.	433148	Yong Ju Precision Technology Co., Ltd.	339184
	VRC Metal Systems LLC	433149	Yukiwa Seiko U.S.A., Inc.	431179
S	Vytek	236035	Z	
	W		Zaber Technologies Inc.	134335, 236576
T	WAGO Corporation	121471	ZCC - USA, Inc.	431938
U	WALDRICH COBURG NA, Inc.	339396	Zebra Skimmers Corp.	121405
V	Walsh Manufacturing	121144	ZEISS Industrial Quality Solutions	135502, 215400, 433231
	Walther Trowal LLC	237315	Zeman Tool & Mfg	432083
W	Wanner Engineering Inc.	121435	Zero Gravity Filters, Inc.	121427
	Water Jet Sweden AB	236452	Zerust Corrosion Solutions	121469
X	Waterjet Corporation Srl	236235	Zhejiang Boesion PT Tech CO., LTD	134049
	Wave Tool, LLC	432029	Zheng Lung Industry Co., Ltd.	432497
Y	WDL Systems, LLC	134963	Zimmer Group US Inc.	134830
	Wearwell LLC	121376	Zimmermann Inc.	339336
Z	WEBER Screwdriving Systems Inc.	236871	ZOLLER Inc.	432018
	Weber Technologies GmbH	432284	Zong Yih Rubber Industrial Co., Ltd.	431197
	Weidmüller	134138	ZS Instruments	135337
	Weiler Abrasives Group	237357	Zund America	236566
	WEILER North America Corporation	339053		
	WEIMA America, Inc.	121112		
	Weingärtner Maschinenbau GmbH	338387		
	Weldon Solutions	236850		
	Weldsale Company	236428		
	Welker Engineered Products	121164		
	Wells Index Milling Machines	338821		
	Wen Technology Inc.	432196		
	WENZEL America, Ltd.	135712		
	WERMA USA Inc.	121417		
	Werth, Inc.	135742		
	Wes-Tech Automation Solutions, LLC	236709		
	Western Gage Corporation	135405		

Presenting Product [製品紹介]

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SPR / SPS

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SVR / SVS

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NR-X / NRS-X

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SRG / SRN

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HRX

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HSR

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HDR

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SDA-V / SDAN-V

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EBB-V / EPB-V

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BSM / BSM-B

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SBN-V

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BIF-V / BNF-V

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Advanced Dust Prevention seal (HH)

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HBN-V

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HBN / SBKH

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BTK-V

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BNS-V

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RW

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SKR

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KSF

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ALK

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PC

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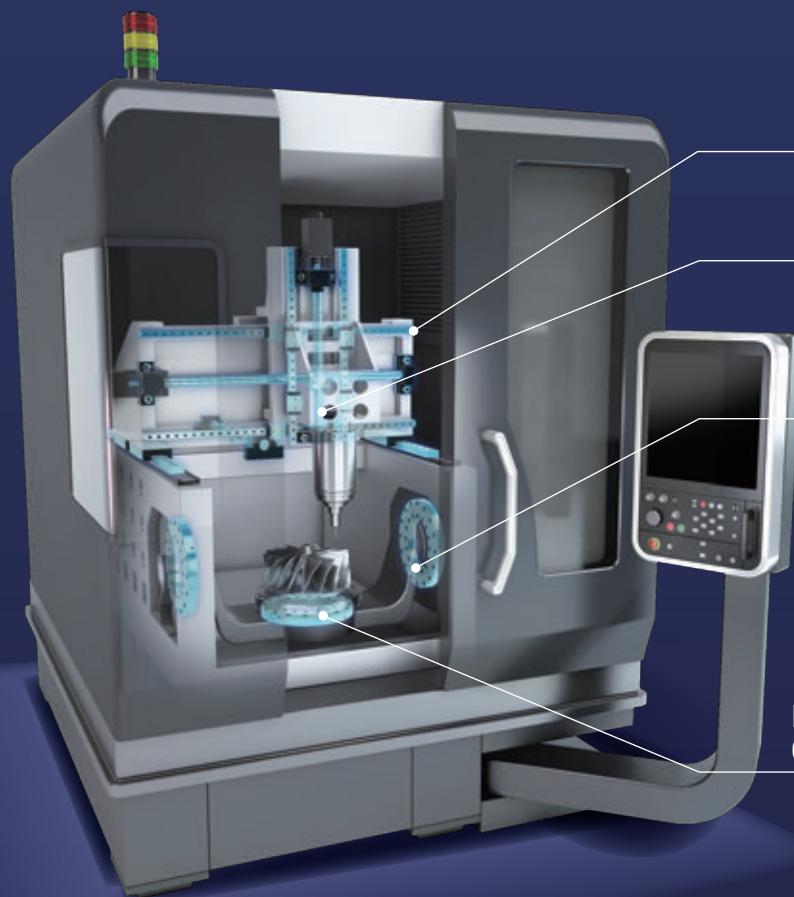
DSP

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GLM15 / 20AP

Application Examples [使用例]



LM Guide P.35-P.52

Ball Screw P.53-P.76

Cross-Roller Ring P.79-P.80

Double-Row Angular
Contact Roller Ring P.77-P.78

Electric Actuator
P.81-P.87



Caged Ball LM Guide with 8 Rows of Raceways Models SPR/SPS

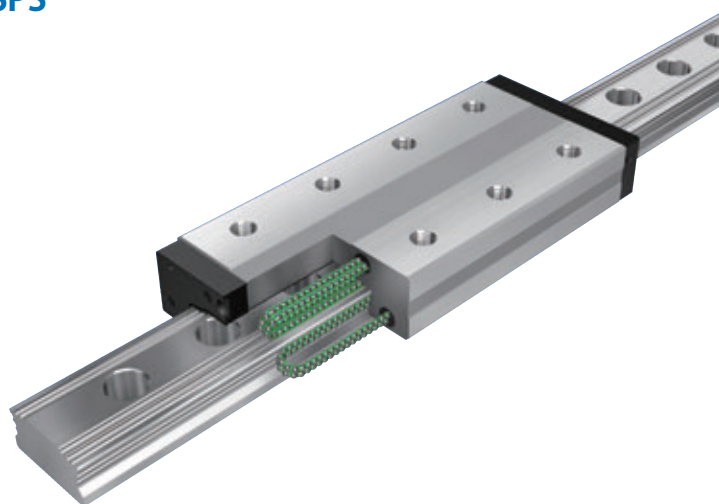
8 条列ボールリテーナ入り LM ガイド SPR/SPS

Super-low waving

超低ウェービング

Ultra-high rigidity

超々高剛性



Achieve super-low waving and ultra-high rigidity

These models adopt ① 8 rows of raceways, ② small-diameter balls and ③ super-long blocks. These features greatly increase the number of load-bearing balls and minimize the amplitude of waving. The new models achieve low waving comparable to hydrostatic guides. In addition, the deformation of the ball is minimized to achieve ultra-high rigidity that surpasses even roller guides. The two models contribute to higher accuracy of equipment.

超低ウェービング・超々高剛性を実現

①8条の転動溝、②小径ボール、③超ロングブロックを採用しました。これらの要素により、有効ボール数が大幅に増加するとともに、ボールの出入りによる振幅を最小限に抑制。静圧案内に匹敵する超低ウェービングを実現しました。同時に、ボールの変形量を極小化し、ローラーガイドをしのぐ超々高剛性をも実現。装置の高精度化に貢献します。

Super-low waving and ultra-high rigidity have been verified.

超低ウェービングと超々高剛性は実証されています。

Waving evaluation

The waving performance of models SPR/SPS is approximately 1/10 of the waving value (100 to 300 nm) of conventional LM Guide models.

* Internal evaluation results

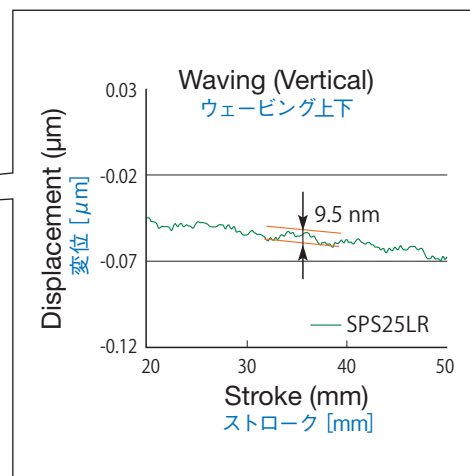
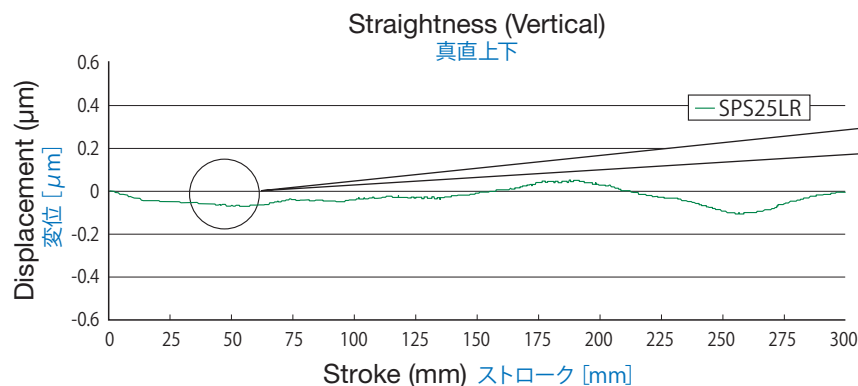
ウェービング評価

SPR/SPS形は、従来の一般的なLMガイドのウェービング値(100~300nm)と比較して、約1/10の値となります。

※社内評価実績

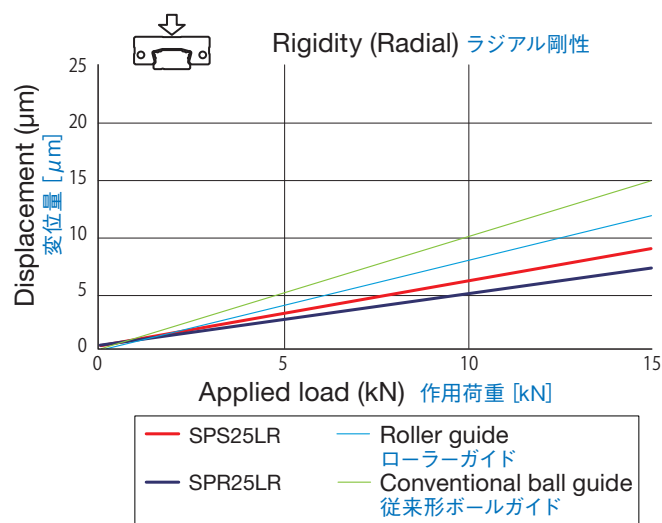
Conditions 条件

Test piece 試験品	SPS25LR
Rail span レールスパン	250 mm
Block span ブロックスパン	250 mm
Measurement point 測定点	Upper 250 mm of the middle of the table テーブル中央上方 250mm
Measurement direction 測定方向	Vertical, horizontal 上下、左右



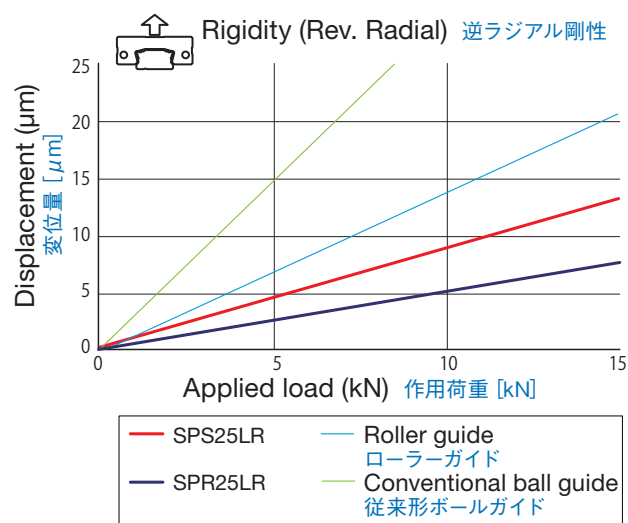
Rigidity Comparison

Models SPR/SPS achieve very high rigidity.



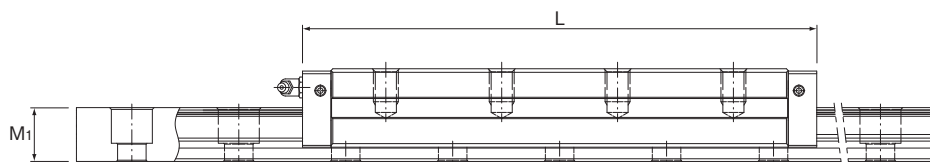
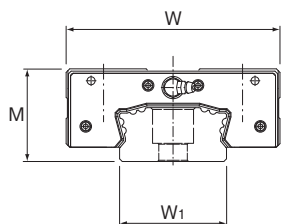
剛性比較評価

SPR/SPS形は、非常に高い剛性を実現しています。



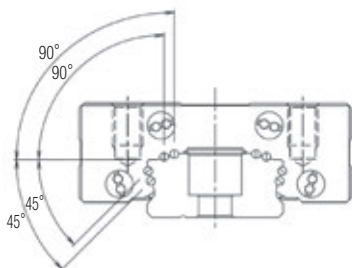
Dimensional Table

寸法表

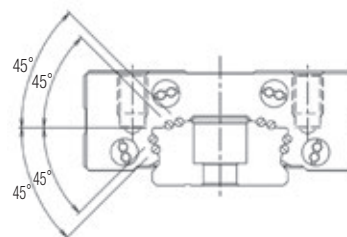


Unit: mm 単位: mm

Model No. 呼び形番	Outer dimensions 外形寸法			LM rail dimensions LM レール寸法		Basic load rating 基本定格荷重	
	Height 高さ M	Width 幅 W	Length 長さ L	Width 幅 W ₁	Height 高さ M ₁	C(kN)	Co(kN)
SPR 15LR	25	50	121.5	25	14	22.5	58.2
SPS 15LR						15.9	41.2
SPR 20LR	28	60	150.5	30	16	36.8	92.4
SPS 20LR						26	65.3
SPR 25LR	31	72	180.1	35	18.2	59.9	156
SPS 25LR						42.4	110
SPR 30LR	38	90	207.8	45	21.4	83.2	212
SPS 30LR						58.8	150
SPR 35LR	44	100	235.5	50	25	111	278
SPS 35LR						78.2	196
SPR 45LR	52	120	288.5	60	30.2	178	434
SPS 45LR						126	307



SPR radial type
ラジアルタイプSPR形 断面図



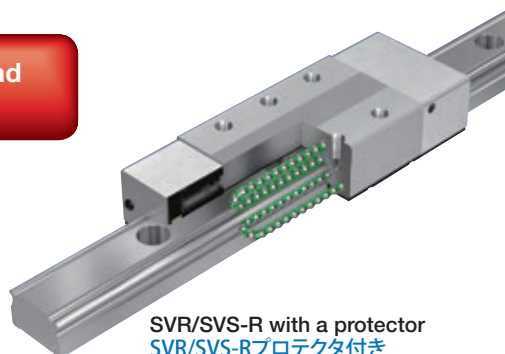
SPS 4-way equal load type
4方向等荷重タイプSPS形 断面図

Caged Ball LM Guide for Machine Tools SVR/SVS / Full-Ball Type NR-X/NRS-X

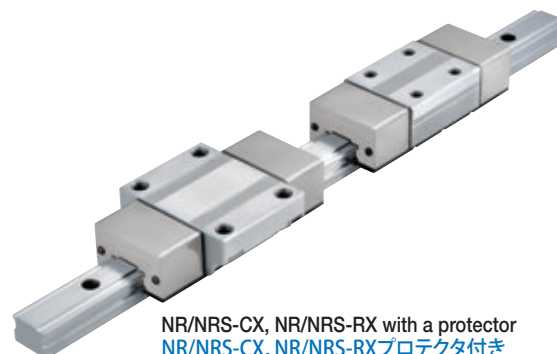
工作機械用ボールリテーナ入り LM ガイド SVR/SVS / 総ボールタイプ NR-X/NRS-X

Super-heavy load

超重荷重



SVR/SVS-R with a protector
SVR/SVS-Rプロテクタ付き



NR/NRS-CX, NR/NRS-RX with a protector
NR/NRS-CX, NR/NRS-RXプロテクタ付き

High rigidity

Models SVR/SVS and NR-X/NRS-X achieve higher rigidities than other LM Guide models. In addition, you can also select from a radial type model SVR/NR-X or a 4-way type model SVS/NRS-X, both of which have the same dimensions. Select a model suited to your specifications.

高剛性

SVR/SVS形、NR-X/NRS-X形は、LMガイドの中でも高い剛性を実現しています。また、同一寸法でラジアルタイプのSVR形/NR-X形、4方向タイプのSVS形/NRS-X形をラインナップ。仕様に応じて形番をお選び頂けます。

Super-heavy load and improved damping performance

Models SVR/SVS and NR-X/NRS-X adopt deep, circular arc grooves with curvatures approximate to the ball diameter in the raceway. As the applied load increases, the ball contact area also increases to achieve a large load capacity, thus improving the damping performance.

超重荷重・ダンピングの向上

SVR/SVS形、NR-X/NRS-X形は、転動面にボール径に近似した曲率を持つサーキュラーアーク形の深溝を採用。荷重負荷の増加に伴いボール接触面積が増大し、大きな負荷能力が得られ、更にダンピング（減衰性）も向上します。

Improved dust-proofing performance and various options

The protector's improved foreign material removal capabilities strengthen its dust-proofing performance.

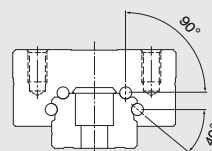
In addition, use of a side scraper will maintain the LM Guide's performance over an extended period even in adverse environments by decreasing the ingress of foreign material into the LM block.

防塵性能の向上と豊富なオプション

プロテクタにより異物除去機能を向上させ、防塵性能を強化しました。更にサイドスクレーパの採用によりLMブロック内への異物の侵入を低減させることで、悪環境下でも長期にわたりLMガイドの性能を維持します。

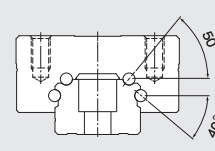
	Radial type ラジアルタイプ	4-way type 4 方向タイプ
With Caged ball ボールリテーナ入り	SVR	SVS
Full-ball type 総ボール	NR-X	NRS-X

SVR/NR-X: Radial type
ラジアルタイプ SVR形/NR-X形



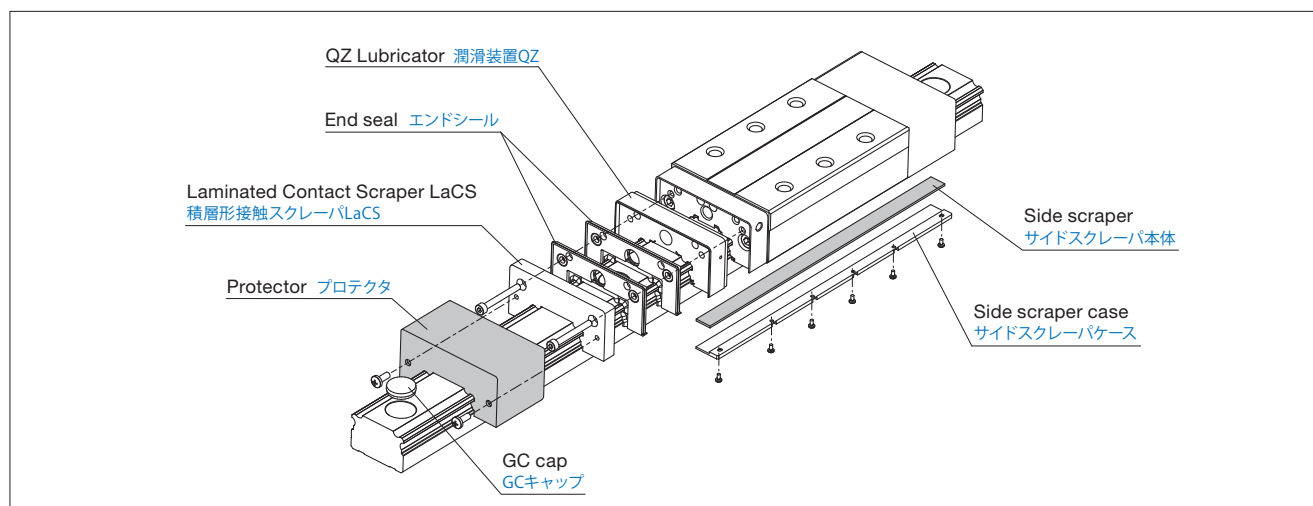
Cross section 断面図

SVS/NRS-X: 4-way type
4方向タイプ SVS形/NRS-X形



Cross section 断面図

Contamination protection accessories 防塵オプション例



QZTTHHYY type + GC cap
QZTTHHYY仕様+GCキャップ

Evaluation of dust-proofing performance of models SVR/SVS and NR-X/NRS-X

Models SVR/SVS and NR-X/NRS-X are capable of maintaining their product performance even under harsh environments where foreign material such as fine powder or liquids is present.

SVR/SVS形、NR-X/NRS-X形 防塵性能評価

SVR/SVS形、NR-X/NRS-X形は、微細粉や液体等の異物が存在する過酷な環境でも製品性能を維持することができます。

Test conditions 試験条件

Item 項目	Details 内容
Test piece 試験品	SVS45LR1TTHHYYC1 + 2880LP×2 sets ※
Maximum speed 最高速度	200 m/min
Stroke ストローク	2500 mm
Grease used 封入グリース	THK AFB-LF Grease THK AFB-LF グリース
Environmental conditions 環境条件	Foreign material 異物
	Type : Metal powder 125 mesh (atomized powder) 種類 : 金属粉末 125 メッシュ (アトマイズ粉)
	Dispersed amount : 0.4 g/20 min 散布量 : 0.4g/20min
	Coolant クーラント
	Water-soluble coolant 水溶性クーラント
	Dispersed amount : 0.2 cc/10 s 散布量 : 0.2cc/10s

*

TTHHYY Option:

Double Seals
Side Seal
Inner Seal
Laminated Contact Scraper LaCS
Protector
Side Scraper

※

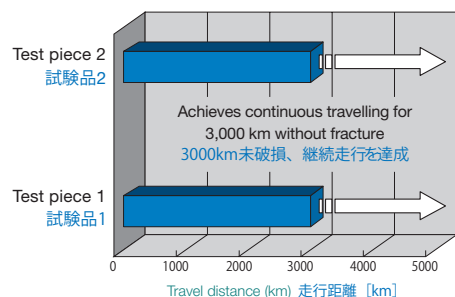
TTHHYY仕様

ダブルシール
サイドシール
インナシール
積層形接触スクレーパLaCS
プロテクタ
サイドスクレーパ



Test piece after travelling 3,000 km
3000km走行時での試験品

Results 試験結果



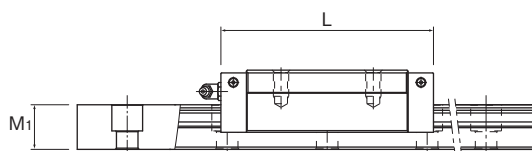
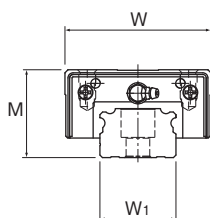
Even after travelling 3,000 km in a harsh environment with coolant or foreign material, models SVR/SVS are capable of maintaining their product performance.

クーラントや異物が入る過酷環境下における3000km走行時でも、SVR/SVS形は製品性能を維持し続けます。

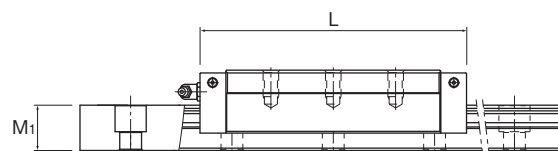
Dimensional Table

寸法表

Compact Type コンパクトタイプ



SVR-R/SVS-R, NR-RX/NRS-RX



SVR-LR/SVS-LR, NR-LRX/NRS-LRX

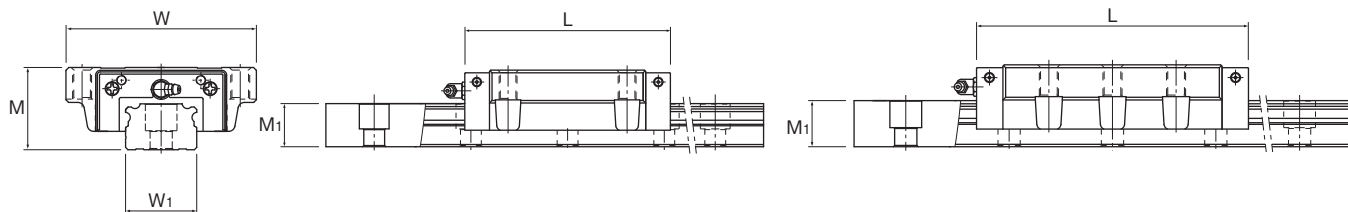
Unit: mm 単位: mm

Model No. 呼び番号	Outer dimensions 外形寸法			LM rail dimensions LM レール寸法		Basic load rating 基本定格荷重			
	Height 高さ M	Width 幅 W	Length 長さ L	Width 幅 W1	Height 高さ M1	SVR		NR-X	
						C(kN)	Co(kN)	C(kN)	Co(kN)
SVR 25R / NR 25RX SVR 25LR / NR 25LRX	31	50	82.8 102	25	17	48.2 57	68.1 86.3	37.1 45.4	68.1 90.8
SVR 30R / NR 30RX SVR 30LR / NR 30LRX	38	60	98 120.5	28	21	67.9 84	91.6 124	54.7 66.9	98.1 130.8
SVR 35R / NR 35RX SVR 35LR / NR 35LRX	44	70	109.5 135	34	24.5	89.6 112	116 160	72.4 89.6	124.6 169.1
SVR 45R / NR 45RX SVR 45LR / NR 45LRX	52	86	138.2 171	45	29	138 161	186 233	110.2 132	197.6 255.8
SVR 55R / NR 55RX SVR 55LR / NR 55LRX	63	100	163.3 200.5	53	36.5	177 214	235 309	141.9 175.1	250.2 338.4
SVR 65R / NR 65RX SVR 65LR / NR 65LRX	75	126	186 246	63	43	271 339	352 484	208.7 268.9	351.7 505.5

Unit: mm 単位: mm

Model No. 呼び番号	Outer dimensions 外形寸法			LM rail dimensions LM レール寸法		Basic load rating 基本定格荷重			
	Height 高さ M	Width 幅 W	Length 長さ L	Width 幅 W1	Height 高さ M1	SVS		NRS-X	
						C(kN)	Co(kN)	C(kN)	Co(kN)
SVS 25R / NRS 25RX SVS 25LR / NRS 25LRX	31	50	82.8 102	25	17	37 43.7	52.2 66.1	28.4 34.7	52.2 69.6
SVS 30R / NRS 30RX SVS 30LR / NRS 30LRX	38	60	98 120.5	28	21	52 64.4	70.1 95.2	41.9 51.2	75.2 100.2
SVS 35R / NRS 35RX SVS 35LR / NRS 35LRX	44	70	109.5 135	34	24.5	68.6 86.1	88.6 123	55.5 68.6	95.5 129.5
SVS 45R / NRS 45RX SVS 45LR / NRS 45LRX	52	86	138.2 171	45	29	105 123	142 178	84.4 101.1	151.4 195.9
SVS 55R / NRS 55RX SVS 55LR / NRS 55LRX	63	100	163.3 200.5	53	36.5	136 164	180 237	108.7 134.1	191.6 259.3
SVS 65R / NRS 65RX SVS 65LR / NRS 65LRX	75	126	186 246	63	43	208 260	269 370	159.8 206	269.4 387.2

Flange Type フランジタイプ



SVR-C/SVS-C, NR-CX/NRS-CX

SVR-LC/SVS-LC, NR-LCX/NRS-LCX

Unit: mm 単位: mm

Model No. 呼び形番	Outer dimensions 外形寸法			LM rail dimensions LM レール寸法		Basic load rating 基本定格荷重			
	Height 高さ M	Width 幅 W	Length 長さ L	Width 幅 W ₁	Height 高さ M ₁	SVR		NR-X	
						C(kN)	Co(kN)	C(kN)	Co(kN)
SVR 25C / NR 25CX SVR 25LC / NR 25LCX	31	72	82.8 102	25	17	48.2 57	68.1 86.3	37.1 45.4	68.1 90.8
SVR 30C / NR 30CX SVR 30LC / NR 30LCX	38	90	98 120.5	28	21	67.9 84	91.6 124	54.7 66.9	98.1 130.8
SVR 35C / NR 35CX SVR 35LC / NR 35LCX	44	100	109.5 135	34	24.5	89.6 112	116 160	72.4 89.6	124.6 169.1
SVR 45C / NR 45CX SVR 45LC / NR 45LCX	52	120	138.2 171	45	29	138 161	186 233	110.2 132	197.6 255.8
SVR 55C / NR 55CX SVR 55LC / NR 55LCX	63	140	163.3 200.5	53	36.5	177 214	235 309	141.9 175.1	250.2 338.4
SVR 65C / NR 65CX SVR 65LC / NR 65LCX	75	170	186 246	63	43	271 339	352 484	208.7 268.9	351.7 505.5

Unit: mm 単位: mm

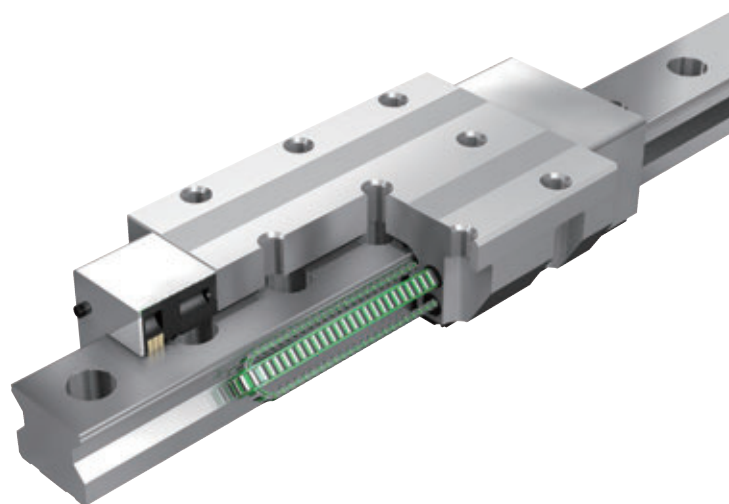
Model No. 呼び形番	Outer dimensions 外形寸法			LM rail dimensions LM レール寸法		Basic load rating 基本定格荷重			
	Height 高さ M	Width 幅 W	Length 長さ L	Width 幅 W ₁	Height 高さ M ₁	SVS		NRS-X	
						C(kN)	Co(kN)	C(kN)	Co(kN)
SVS 25C / NRS 25CX SVS 25LC / NRS 25LCX	31	72	82.8 102	25	17	37 43.7	52.2 66.1	28.4 34.7	52.2 69.6
SVS 30C / NRS 30CX SVS 30LC / NRS 30LCX	38	90	98 120.5	28	21	52 64.4	70.1 95.2	41.9 51.2	75.2 100.2
SVS 35C / NRS 35LCX SVS 35LC / NRS 35LCX	44	100	109.5 135	34	24.5	68.6 86.1	88.6 123	55.5 68.6	95.5 129.5
SVS 45C / NRS 45CX SVS 45LC / NRS 45LCX	52	120	138.2 171	45	29	105 123	142 178	84.4 101.1	151.4 195.9
SVS 55C / NRS 55CX SVS 55LC / NRS 55LCX	63	140	163.3 200.5	53	36.5	136 164	180 237	108.7 134.1	191.6 259.3
SVS 65C / NRS 65CX SVS 65LC / NRS 65LCX	75	170	186 246	63	43	208 260	269 370	159.8 206	269.4 387.2

Caged Roller LM Guide Models SRG/SRN

ローラーリテーナ入り LM ガイド SRG/SRN

Ultra-high rigidity

超々高剛性



Ultra-high rigidity

An extremely rigid roller, with an overall length at least 1.5 times greater than its diameter, provides ultra-high rigidity.

超々高剛性

L/D=1.5以上 (L:ローラー長、D:ローラー径) を特長とした高剛性ローラー設計を採用することにより、超々高剛性を実現。

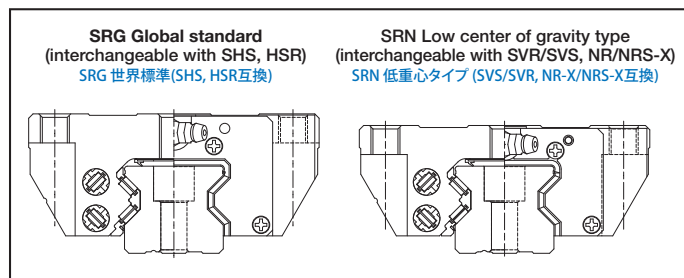
Extensive lineup

Ultra-long blocks and options that meet high-rigidity and high-load requirements are available.

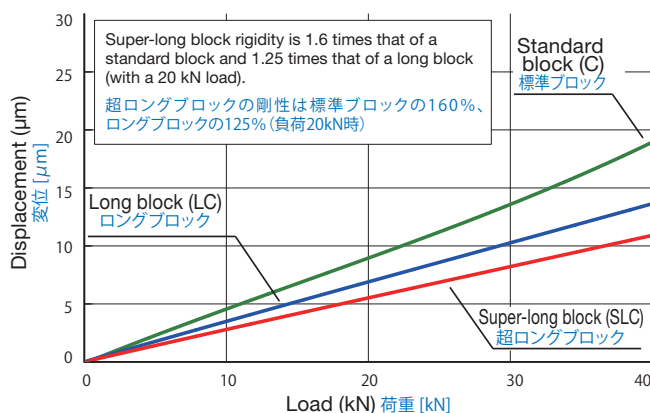
豊富なバリエーション

超ロングブロックをラインナップ、高剛性・高負荷要求に対応。

Interchangeability 互換性



SRG45C/LC/SLC (C0 clearance) radial direction rigidity
SRG45C/LC/SLC (C0すきま) ラジアル方向剛性



Lineup ラインナップ

Model No. 呼び形番	Standard block 標準ブロック				Long block ロングブロック				Super-long block 超ロングブロック		
	A	C	R	V	LA	LC	LR	LV	SLC	SLR	SLV
SRG15X	○			○							
SRG20X	○			○	○			○			
SRG25X		○	○			○	○				
SRG30X		○	○			○	○				
SRG/SRN35		○ ☆	○ ☆			○ ☆	○ ☆		○ ☆	○ ☆	
SRG/SRN45		○ ☆	○ ☆			○ ☆	○ ☆		○ ☆	○ ☆	
SRG/SRN55		○ ☆	○ ☆			○ ☆	○ ☆		○ ☆	○ ☆	
SRG/SRN65		○ ☆	○ ☆	○		○ ☆	○ ☆	○	○ ☆	○ ☆	○
SRG85						○					
SRG100						○					

【Existing item】
【現行ラインナップ】
SRG/SRG-X: ○, SRN: ☆
【New item】
【新規ラインナップ】
SRN: ☆

☆: Highly dust-proof options added (SRG only)
高防塵オプション追加 (SRGのみ)

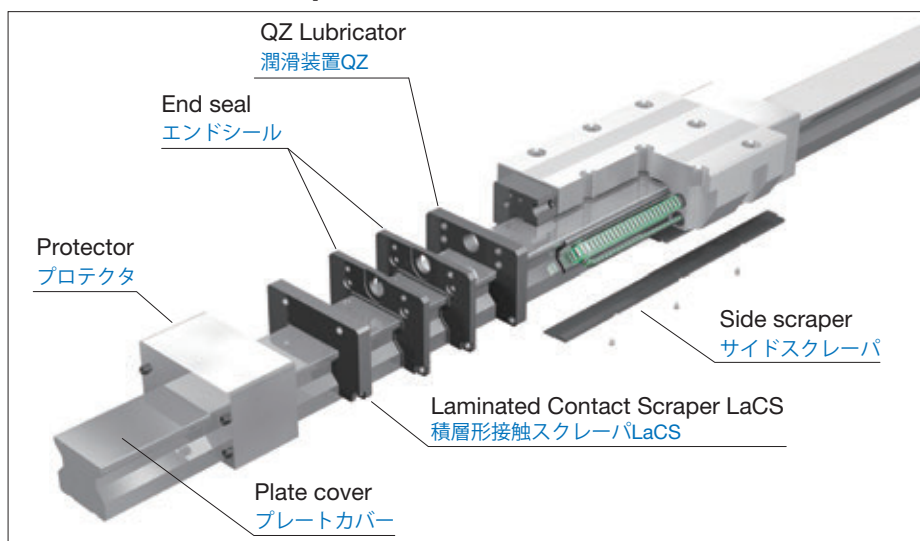
Improved dust-proofing performance and various options

The protector's improved foreign material removal capabilities strengthen its dust-proofing performance. In addition, use of a side scraper will maintain the LM Guide's performance over an extended period even in adverse environments by decreasing the ingress of foreign material into the LM block. (SRG only)

防塵性能の向上と豊富なオプション

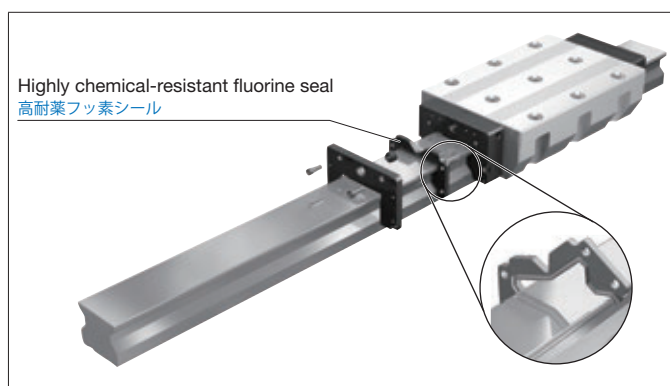
プロテクタにより異物除去機能を向上させ、防塵性能を強化しました。更にサイドスクレーパの採用によりLMブロック内への異物の侵入を低減させることで、悪環境下でも長期にわたりLMガイドの性能を維持します。(SRGのみ)

Contamination protection accessories 防塵オプション群



Abundant options to improve the performance of the LM Guide
LMガイドの性能をさらに向上させる充実のオプション群

Highly chemical-resistant fluorine seal (SRG only) 高耐薬フッ素シール (SRGのみ)

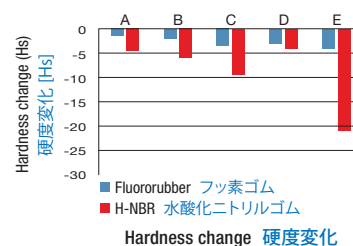
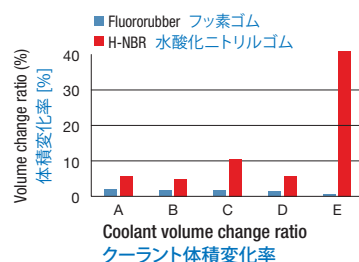


- The fluorine seal is made of fluororubber and has excellent chemical resistance.
- The fluorine seal can be inserted from the upper surface of the LM rail and is easy to install.

- フッ素シールは、材質にフッ素ゴムを使用し、耐薬性に優れたシールです。
- フッ素シールはLMレール上面からも挿入でき、組付けが容易になっています。

Comparison of chemical resistance 耐薬品性比較

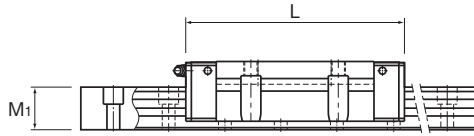
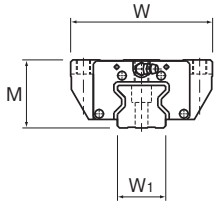
Test piece 試験品	Dumbbell piece, JIS type 3 JIS ダンベル片 3号
Dipping temperature 浸漬温度	70°C
Dipping time 浸漬時間	500 h



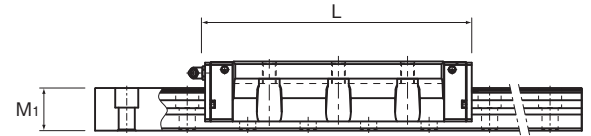
Dimensional Table (SRG)

寸法表 [SRG]

Flange Type フランジタイプ



SRG35 ~ 65C/LC

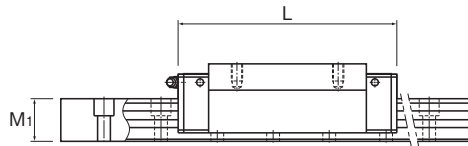
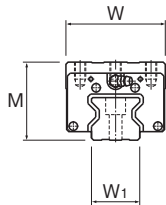


SRG35 ~ 65SLC

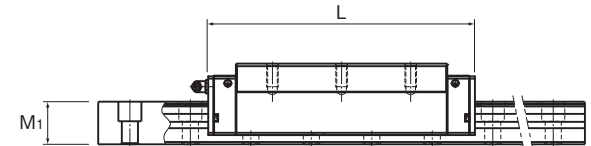
Unit: mm 単位: mm

Model No. 呼び形番	Outer dimensions 外形寸法			LM rail dimensions LM レール寸法		Basic load rating 基本定格荷重	
	Height 高さ M	Width 幅 W	Length 長さ L	Width 幅 W ₁	Height 高さ M ₁	C(kN)	Co(kN)
SRG 35C SRG 35LC SRG 35SLC	48	100	125 155 180.8	34	30	59.1 76 87.9	119 165 199
SRG 45C SRG 45LC SRG 45SLC	60	120	155 190 231.5	45	37	91.9 115 139	192 256 328
SRG 55C SRG 55LC SRG 55SLC	70	140	185 235 292	53	43	131 167 210	266 366 488
SRG 65C SRG 65LC SRG 65SLC	90	170	244.9 303 380	63	54	219 278 352	441 599 811

Compact Type コンパクトタイプ



SRG35 ~ 65R/LR/LV



SRG35 ~ 55SLR

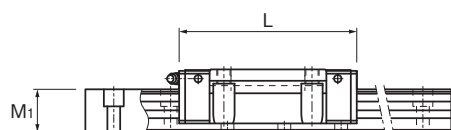
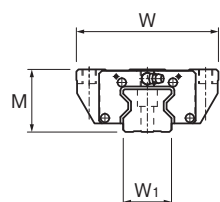
Unit: mm 単位: mm

Model No. 呼び形番	Outer dimensions 外形寸法			LM rail dimensions LM レール寸法		Basic load rating 基本定格荷重	
	Height 高さ M	Width 幅 W	Length 長さ L	Width 幅 W ₁	Height 高さ M ₁	C(kN)	Co(kN)
SRG 35R SRG 35LR SRG 35SLR	55	70	125 155 180.8	34	30	59.1 76 87.9	119 165 199
SRG 45R SRG 45LR SRG 45SLR	70	86	155 190 231.5	45	37	91.9 115 139	192 256 328
SRG 55R SRG 55LR SRG 55SLR	80	100	185 235 292	53	43	131 167 210	266 366 488
SRG 65V SRG 65LV SRG 65SLV	90	126	244.9 303 380	63	54	219 278 352	441 599 811

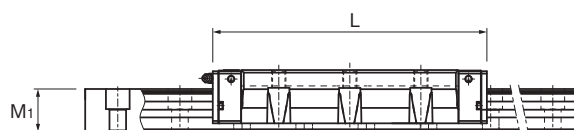
Dimensional Table (SRN)

寸法表 [SRN]

Flange Type フランジタイプ



SRN35 ~ 65C/LC

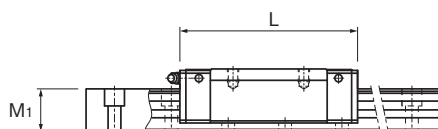
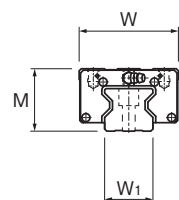


SRN35 ~ 65SLC

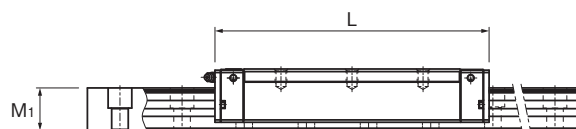
Unit: mm 単位: mm

Model No. 呼び形番	Outer dimensions 外形寸法			LM rail dimensions LM レール寸法		Basic load rating 基本定格荷重	
	Height 高さ M	Width 幅 W	Length 長さ L	Width 幅 W1	Height 高さ M1	C(kN)	Co(kN)
SRN 35C SRN 35LC SRN 35SLC	44	100	125 155 180.8	34	30	59.1 76 87.9	119 165 199
SRN 45C SRN 45LC SRN 45SLC	52	120	155 190 231.5	45	36	91.9 115 139	192 256 328
SRN 55C SRN 55LC SRN 55SLC	63	140	185 235 292	53	43	131 167 210	266 366 488
SRN 65C SRN 65LC SRN 65SLC	75	170	244.9 303 380	63	49	219 278 352	441 599 811

Compact Type コンパクトタイプ



SRN35 ~ 65R/LR



SRN35 ~ 65LR

Unit: mm 単位: mm

Model No. 呼び形番	Outer dimensions 外形寸法			LM rail dimensions LM レール寸法		Basic load rating 基本定格荷重	
	Height 高さ M	Width 幅 W	Length 長さ L	Width 幅 W1	Height 高さ M1	C(kN)	Co(kN)
SRN 35R SRN 35LR SRN 35SLR	44	70	125 155 180.8	34	30	59.1 76 87.9	119 165 199
SRN 45R SRN 45LR SRN 45SLR	52	86	155 190 231.5	45	36	91.9 115 139	192 256 328
SRN 55R SRN 55LR SRN 55SLR	63	100	185 235 292	53	43	131 167 210	266 366 488
SRN 65R SRN 65LR SRN 65SLR	75	126	244.9 303 380	63	49	219 278 352	441 599 811

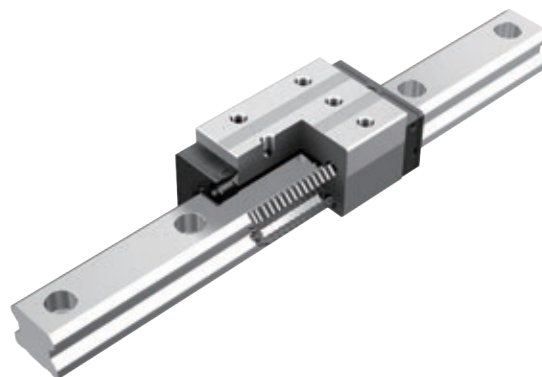
NEW

Roller Type LM Guide HRX with DF Structure

DF 構造ローラタイプ LM ガイド HRX

High-rigidity

高剛性



High rigidity

The Model HRX uses rollers with low elastic deformation and optimized diameter and length as rolling elements in order to achieve high rigidity.

高剛性

HRX形は、超高剛性を実現するため、転動体に弾性変形の少ないローラーを使用し、ローラー径とローラー長さを最適化しました。

4-way equal load

The Model HRX is designed to equally bear loads applied to the LM block from four directions (radial, reverse-radial, and horizontal). As a result, this model can be used in any orientation, enabling a wide variety of applications.

4方向等荷重

HRX形は、LMブロックに作用する4方向（ラジアル・逆ラジアル・横方向）に対して同一定格荷重となるよう設計されています。したがってあらゆる姿勢で使用が可能になり、幅広い用途に使用できます。

LM block overall length and basic load rating

LMブロック長および基本定格荷重

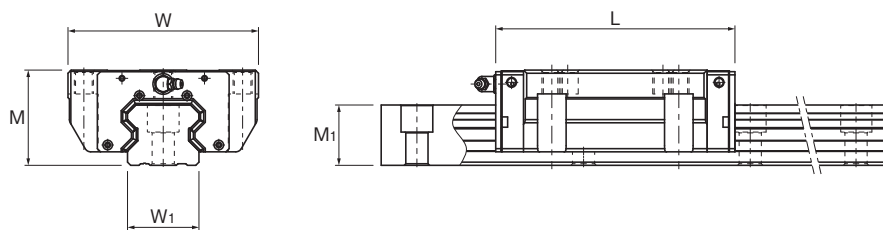
Unit: mm 単位: mm

Model No. 呼び形番		Basic load rating 基本定格荷重 C ₀	
		Our existing roller products 弊社従来ローラー製品	HRX
HRX25	C R	57.5	73.1
	LC LR	75	89.3
HRX30	C R	82.5	104.7
	LC LR	108	135.2
HRX35	C R	119	150.1
	LC LR	165	195.7
HRX45	C R	192	250.4
	LC LR	256	326.7
HRX55	C R	266	369.9
	LC LR	366	497.9
HRX65	C R	441	567
	LC LR	599	756

Dimensional Table (HRX)

寸法表 [HRX]

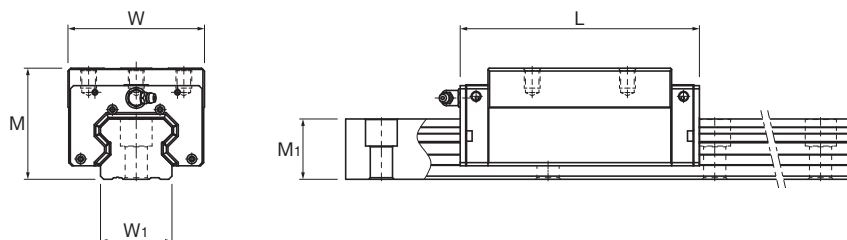
Flange Type C/LC フランジタイプ C/LC



Unit: mm 単位: mm

Model No. 呼び形番		Outer dimensions 外形寸法			LM rail dimensions LM レール寸法		Basic load rating 基本定格荷重	
		Height 高さ M	Width 幅 W	Length 長さ L	Width 幅 W ₁	Height 高さ M ₁	C(kN)	Co(kN)
HRX25	C LC	36	70	99.6 116.4	23	21.5	26.3 30.8	73.1 89.3
HRX30	C LC	42	90	110.6 135.1	28	23.5	39.4 48	104.7 135.2
HRX35	C LC	48	100	123.2 151.2	34	29	56 68.9	150.1 195.7
HRX45	C LC	60	120	150.7 185.7	45	38	94.3 116	250.4 326.7
HRX55	C LC	70	140	180.2 229.7	53	44	134.5 169.5	369.9 497.9
HRX65	C LC	90	170	239.1 304.1	63	53	205.5 257	567 756

Compact Type R/LR コンパクトタイプ R/LR



Unit: mm 単位: mm

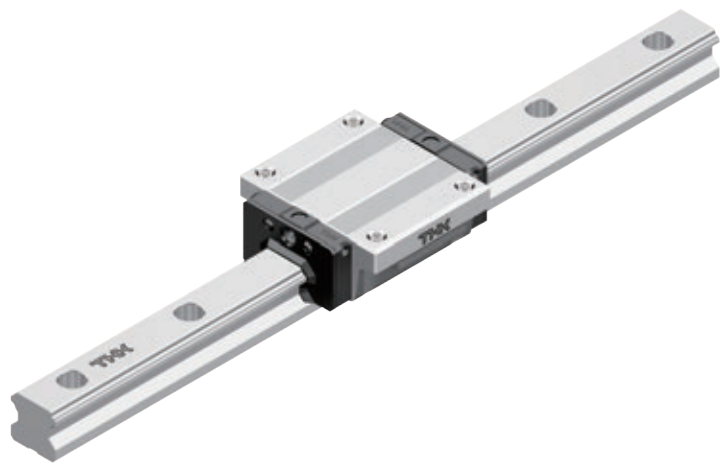
Model No. 呼び形番		Outer dimensions 外形寸法			LM rail dimensions LM レール寸法		Basic load rating 基本定格荷重	
		Height 高さ M	Width 幅 W	Length 長さ L	Width 幅 W ₁	Height 高さ M ₁	C(kN)	Co(kN)
HRX25	R LR	40	48	99.6 116.4	23	21.5	26.3 30.8	73.1 89.3
HRX30	R LR	45	60	110.6 135.1	28	23.5	39.4 48	104.7 135.2
HRX35	R LR	55	70	123.2 151.2	34	29	56 68.9	150.1 195.7
HRX45	R LR	70	86	150.7 185.7	45	38	94.3 116	250.4 326.7
HRX55	R LR	80	100	180.2 229.7	53	44	134.5 169.5	369.9 497.9
HRX65	R LR	100	126	239.1 304.1	63	53	205.5 257	567 756

Redesigned

Global standard LM Guide Model HSR

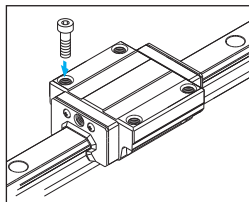
世界標準 LM ガイド HSR

Long-selling
ロングセラー



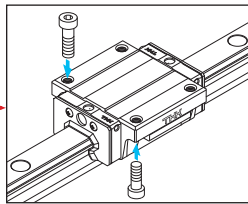
Extensive product lineup 実績豊富なラインナップ

Existing HSR-A/LA
従来 HSR-A/LA



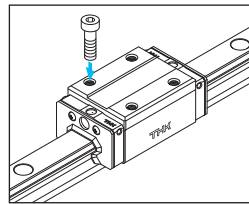
Lineup consolidation
ラインナップ統合

HSR-C/XC/LC/XLC



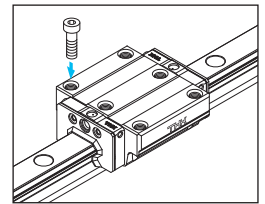
Tapped flange. Mountable from the top or the bottom.
フランジ部にタップ加工、上下どちらからでも取付可能

HSR-R/XR/LR/XLR



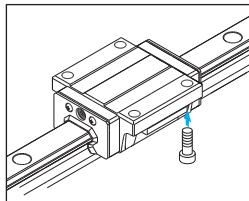
Tapped block. Mounted from the top.
ブロック部タップ加工、上面から取付

HSR-CA/XCA/HA/XHA



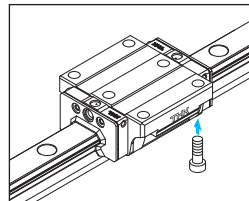
Tapped flange. Mounted from the top.
フランジ部タップ加工、上面から取付

Existing HSR-B/LB
従来 HSR-B/LB



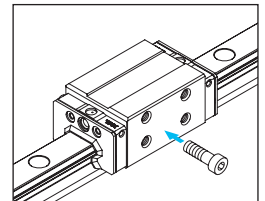
Bolt size required when installing a C/XC/LC/XLC type block from the bottom is the same as that of the B/LB type.
C/XC/LC/XLC タイプブロックを下面から取付ける際のボルトサイズは、B/LB タイプと同サイズです。

HSR-CB/XCB/HB/XHB



Flange drilled through. Mounted from the bottom.
フランジ部通し穴加工、下面から取付

HSR-YR/XYR



Tapped side of block. Mounted from the side.
ブロック側面タップ加工、側面から取付

■ Lineup ラインナップ

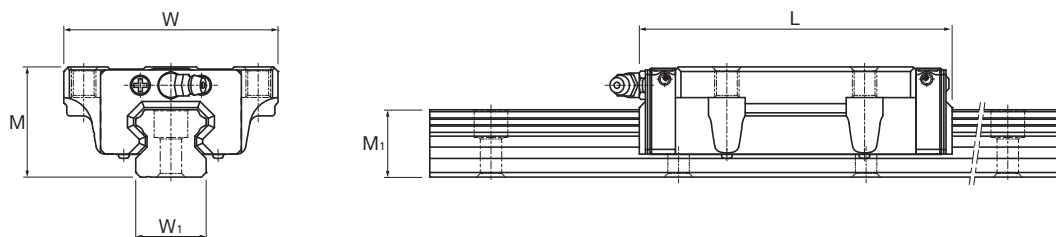
Model No. 呼び形番	Block type ブロックタイプ												
	Flange Type フランジタイプ						Compact Type コンパクトタイプ		Tapped Side 側面タップ	Flange Type フランジタイプ			
	C	LC	B	LB	A	LA	R	LR	YR	CA	HA	CB	HB
HSR15	●	●	○	-	○	-	○	●	○	-	-	-	-
HSR20	●	●	○	○	○	○	○	○	○	○	○	○	○
HSR25	●	●	○	○	○	○	○	○	○	○	○	○	○
HSR30	●	●	○	○	○	○	○	○	○	○	○	○	○
HSR35	●	●	○	○	○	○	○	○	○	○	○	○	○
HSR45	●	●	○	○	○	○	○	○	○	○	○	○	○
HSR45X	-	-	-	-	-	-	-	-	●	-	-	-	-
HSR55	●	●	○	○	○	○	○	○	○	○	○	○	○
HSR55X	-	-	-	-	-	-	-	-	●	-	-	-	-
HSR65	-	-	△	△	△	△	△	△	△	△	△	△	△
HSR65X	●	●	-	-	-	-	●	●	●	●	●	●	●

● : [New model] 【新規追加ラインナップ形番】
○ : [Redesigned] 【リニューアル対象品】

△ : [No change] 【現行品継続】
- : [Not available] 【ラインナップ無し】

Dimensional Table (HSR-C/XC/LC/XLC)

寸法表 [HSR-C/XC/LC/XLC]

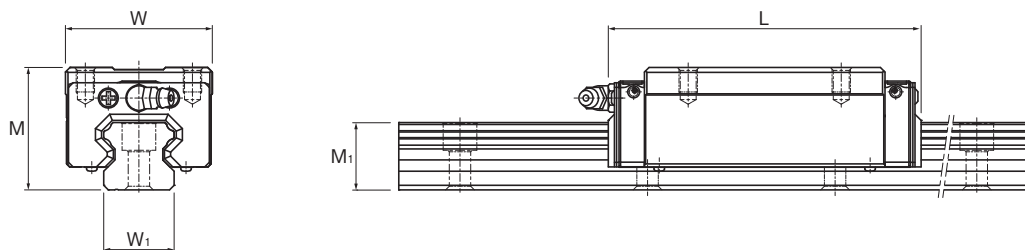


Unit: mm 単位: mm

Model No. 呼び形番		Outer dimensions 外形寸法			LM rail dimensions LM レール寸法		Basic load rating 基本定格荷重	
		Height 高さ M	Width 幅 W	Length 長さ L	Width 幅 W ₁	Height 高さ M ₁	C(kN)	Co(kN)
HSR15	C	24	47	56.6	15	15	10.9	15.7
	LC			74.6			14.2	22.9
HSR20	C	30	63	74	20	18	19.8	27.4
	LC			90			23.9	35.8
HSR25	C	36	70	83.1	23	22	27.6	36.4
	LC			102.2			35.2	51.6
HSR30	C	42	90	98	28	26	40.5	53.7
	LC			120.6			48.9	70.2
HSR35	C	48	100	109.4	34	29	53.9	70.2
	LC			134.8			65	91.7
HSR45	C	60	120	139	45	38	82.2	101
	LC			170.8			100	135
HSR55	C	70	140	163	53	44	121	146
	LC			201.1			148	194
HSR65X	C	90	170	190.5	63	53	195	228
	LC			250			249	323

Dimensional Table (HSR-R/XR/LR/XLR)

寸法表 [HSR-R/XR/LR/XLR]

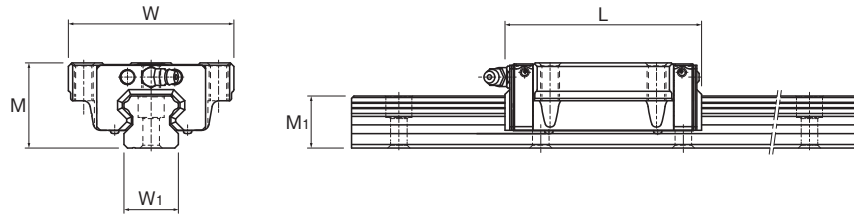


Unit: mm 単位: mm

Model No. 呼び形番		Outer dimensions 外形寸法			LM rail dimensions LM レール寸法		Basic load rating 基本定格荷重	
		Height 高さ M	Width 幅 W	Length 長さ L	Width 幅 W ₁	Height 高さ M ₁	C(kN)	Co(kN)
HSR15	R	28	34	56.6	15	15	10.9	15.7
	LR			74.6			14.2	22.9
HSR20	R	30	44	74	20	18	19.8	27.4
	LR			90			23.9	35.8
HSR25	R	40	48	83.1	23	22	27.6	36.4
	LR			102.2			35.2	51.6
HSR30	R	45	60	98	28	26	40.5	53.7
	LR			120.6			48.9	70.2
HSR35	R	55	70	109.4	34	29	53.9	70.2
	LR			134.8			65	91.7
HSR45	R	70	86	139	45	38	82.2	101
	LR			170.8			100	135
HSR55	R	80	100	163	53	44	121	146
	LR			201.1			148	194
HSR65X	R	90	126	190.5	63	53	195	228
	LR			250			249	323

Dimensional Table (HSR-CA/XCA/HA/XHA)

寸法表 [HSR-CA/XCA/HA/XHA]

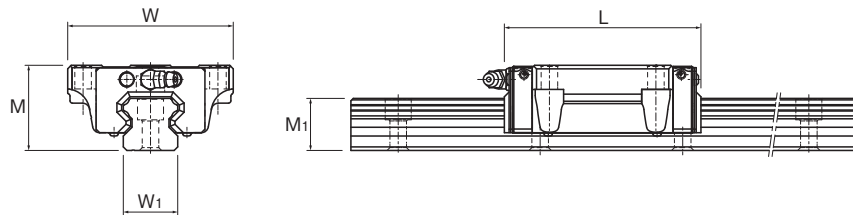


Unit: mm 単位: mm

Model No. 呼び形番		Outer dimensions 外形寸法			LM rail dimensions LM レール寸法		Basic load rating 基本定格荷重	
		Height 高さ M	Width 幅 W	Length 長さ L	Width 幅 W ₁	Height 高さ M ₁	C(kN)	Co(kN)
HSR20	CA	30	63	74	20	18	19.8	27.4
	HA			90			23.9	35.8
HSR25	CA	36	70	83.1	23	22	27.6	36.4
	HA			102.2			35.2	51.6
HSR30	CA	42	90	98	28	26	40.5	53.7
	HA			120.6			48.9	70.2
HSR35	CA	48	100	109.4	34	29	53.9	70.2
	HA			134.8			65	91.7
HSR45	CA	60	120	139	45	38	82.2	101
	HA			170.8			100	135
HSR55	CA	70	140	163	53	44	121	146
	HA			201.1			148	194
HSR65	CA	90	170	186	63	53	195	228
	XCA			190.5				
	HA			245.5			249	323
	XHA			250				
HSR85	CA	110	215	245.6	85	65	304	355
	HA			303			367	464

Dimensional Table (HSR-CB/XCB/HB/XHB)

寸法表 [HSR-CB/XCB/HB/XHB]

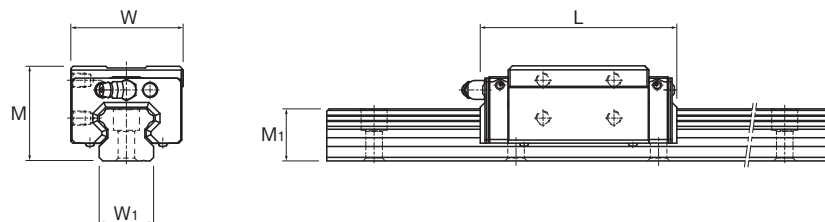


Unit: mm 単位: mm

Model No. 呼び形番		Outer dimensions 外形寸法			LM rail dimensions LM レール寸法		Basic load rating 基本定格荷重	
		Height 高さ M	Width 幅 W	Length 長さ L	Width 幅 W ₁	Height 高さ M ₁	C(kN)	Co(kN)
HSR20	CB	30	63	74	20	18	19.8	27.4
	HB			90			23.9	35.8
HSR25	CB	36	70	83.1	23	22	27.6	36.4
	HB			102.2			35.2	51.6
HSR30	CB	42	90	98	28	26	40.5	53.7
	HB			120.6			48.9	70.2
HSR35	CB	48	100	109.4	34	29	53.9	70.2
	HB			134.8			65	91.7
HSR45	CB	60	120	139	45	38	82.2	101
	HB			170.8			100	135
HSR55	CB	70	140	163	53	44	121	146
	HB			201.1			148	194
HSR65	CB	90	170	186	63	53	195	228
	XCB			190.5				
	HB			245.5			249	323
	XHB			250				
HSR85	CB	110	215	245.6	85	65	304	355
	HB			303			367	464

Dimensional Table (HSR-YR/XYR)

寸法表 [HSR-YR/XYR]



Unit: mm 単位: mm

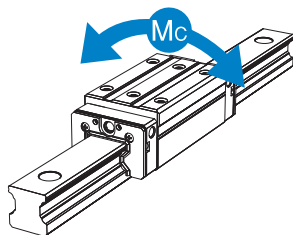
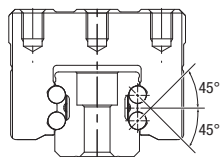
Model No. 呼び形番		Outer dimensions 外形寸法			LM rail dimensions LM レール寸法		Basic load rating 基本定格荷重	
		Height 高さ M	Width 幅 W	Length 長さ L	Width 幅 W ₁	Height 高さ M ₁	C(kN)	Co(kN)
HSR15	YR	28	33.5	56.6	15	15	10.9	15.7
HSR20	YR	30	43.5	74	20	18	19.8	27.4
HSR25	YR	40	47.5	83.1	23	22	27.6	36.4
HSR30	YR	45	59.5	98	28	26	40.5	53.7
HSR35	YR	55	69.5	109.4	34	29	53.9	70.2
HSR45	YR	70	85.5	139	45	38	82.2	101
	XYR							
HSR55	YR	80	99.5	163	53	44	121	146
	XYR							
HSR65	YR	90	124.5	186	63	53	195	228
	XYR			190.5				

Suited for Single Rail Applications HDR

1軸使用に適したLMガイドHDR

Optimal for equipment weight reduction

装置軽量化



High moment rigidity in Mc direction

Features a ball contact structure with high rigidity in the Mc direction, making single-axis applications possible even when a moment is applied in that direction.

高いMcモーメント剛性を実現

Mc方向のモーメントに対して高い剛性を持つボール接触構造を採用。Mcモーメントが作用する箇所にも1軸で使用頂けます。

Plate cover available

The plate cover creates a smooth surface on the top side of the LM rail and prevents foreign matter from accumulating in the mounting holes.

* An extra-long plate cover roll is available to provide replacements whenever needed.

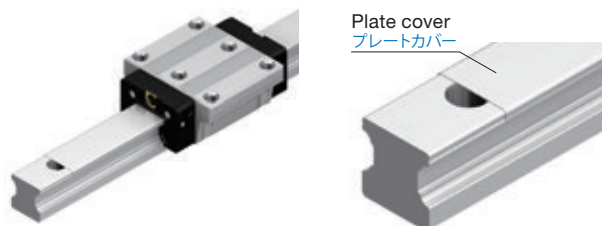
Special tools that suit the installation method for the plate cover are available.

プレートカバー対応可能

プレートカバーは、LMレール上面の段差をなくし、取付穴に異物が堆積することを防ぎます。

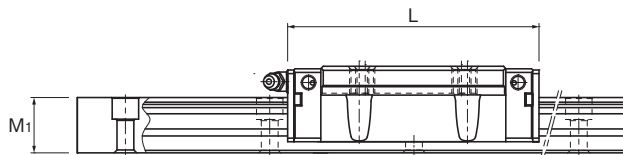
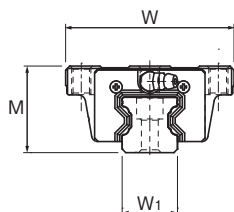
※ お客様が必要なタイミングで交換可能な、長尺の巻取式プレートカバーもございます。

プレートカバーの取付け方法に合わせた、専用ツールをご用意しております。

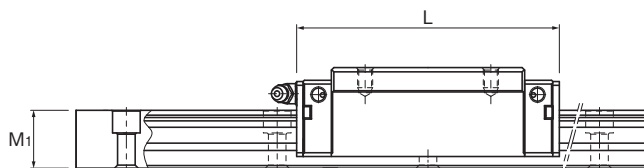
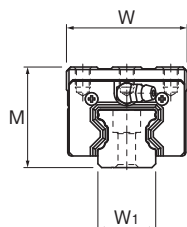


Block type ブロックタイプ

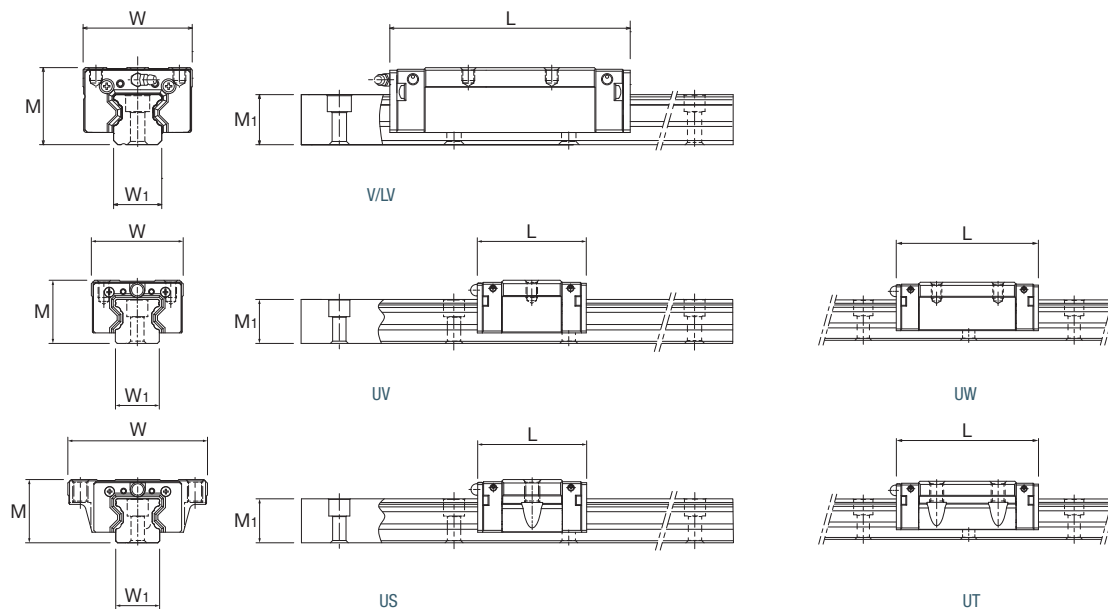
Flange Type C/LC フランジタイプ C/LC



Compact Type R/LR コンパクトタイプ R/LR



Compact and Low Center of Gravity Type V/LV/UV/UW/US/UT コンパクト・低重心タイプ V/LV/UV/UW/US/UT



Dimensional Table 寸法表

Unit: mm 単位: mm

Model No. 呼び形番		Outer dimensions 外形寸法			LM rail dimensions LM レール寸法		Basic load rating 基本定格荷重	
		Height 高さ M	Width 幅 W	Length 長さ L	Width 幅 W ₁	Height 高さ M ₁	C(kN)	Co(kN)
HDR15	C LC	24	47	61.4 74.9	15	15.6	10.9 13.7	15.7 21.7
	R LR	28	34	61.4 74.9	15	15.6	10.9 13.7	15.7 21.7
	V LV	24	34	61.4 74.9	15	15.6	10.9 13.7	15.7 21.7
	C LC	30	63	74.9 90.7	20	20.1	19.8 23.9	27.4 35.8
HDR20	R LR	30	44	74.9 90.7	20	20.1	19.8 23.9	27.4 35.8
	UV	28	42	49	20	20.1	12.8	14.8
	UW	28	42	68.8	20	20.1	18.7	25.3
	US	28	59	49	20	20.1	12.8	14.8
HDR20	UT	28	59	68.8	20	20.1	18.7	25.3
	C LC	36	70	87.6 104.5	23	23	29.2 33.8	39.5 48.6
	R LR	40	48	87.6 104.5	23	23	29.2 33.8	39.5 48.6
	V LV	36	48	87.6 104.5	23	23	29.2 33.8	39.5 48.6
HDR25	UV	33	48	57	23	23	18.9	21.3
	UW	33	48	80.9	23	23	27.6	36.4
	US	33	73	57	23	23	18.9	21.3
	UT	33	73	80.9	23	23	27.6	36.4
HDR30	C LC	42	90	102.1 124.1	28	26	40.5 48.9	53.7 70.2
	R LR	45	60	102.1 124.1	28	26	40.5 48.9	53.7 70.2
	V LV	42	60	102.1 124.1	28	26	40.5 48.9	53.7 70.2
	C LC	48	100	116.5 139.5	34	30	53.9 62.4	70.2 86.4
HDR35	R LR	55	70	116.5 139.5	34	30	53.9 62.4	70.2 86.4
	V LV	48	70	116.5 139.5	34	30	53.9 62.4	70.2 86.4
	C LC	60	120	145.6 177.3	45	37	86.9 105	110 143
	R LR	70	86	145.6 177.3	45	37	86.9 105	110 143
HDR45	V LV	60	86	145.6 177.3	45	37	86.9 105	110 143
	C LC	70	140	179.2 217.3	53	43	135 161	170 219
	R LR	80	100	179.2 217.3	53	43	135 161	170 219
	V LV	70	100	179.2 217.3	53	43	135 161	170 219
HDR55	C LC	90	170	199.2 258.8	63	54	195 249	228 323
	R LR	90	126	199.2 258.8	63	54	195 249	228 323

High-speed, Compact Precision Caged Ball Screw SDA-V/SDAN-V

ボールリテーナ入り高速コンパクト精密ボールねじ SDA-V/SDAN-V

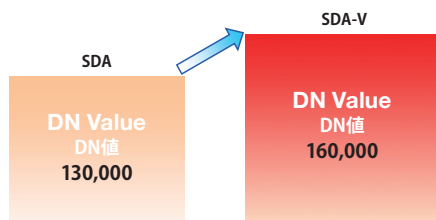
High-speed

高速

Compliant with

ISO 3408-2

ISO 3408-2 準拠



Superb high-speed response

Caged ball type DN value: maximum 160,000

Full-ball type DN value: maximum 130,000

*Max revolution speed: 5000 min⁻¹

優れた高速性

リテーナタイプ: DN値最高160,000

総ボールタイプ: DN値最高130,000

※但し最高回転数5000min⁻¹

Wide lineup

A wide lineup is available, with shaft sizes from 10 mm to 63 mm and leads from 4 mm to 50 mm. Select a model suited to your application.

幅広いラインナップ

ボールねじ軸外径 10mm~63mm、リード4mm~50mmの幅広いラインナップをご用意。用途に合わせてお選び頂けます。

Slim nut with optimized circulation

The optimized circulation system achieves ideal ball circulation and significantly reduces product size.

The nut dimensions are compliant with ISO 3408-2.

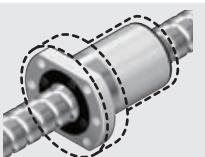
最適設計した循環方式によるスリムナット

最適設計した循環方式により、理想的なボール循環構造と大幅なコンパクト化を実現。

ナット寸法はISO 3408-2に準拠。

Outer diameter is up to 30% smaller

外径比 最大30%のコンパクト化



A double-nut type is available

ダブルナット仕様に対応



*The full-ball type is also supported. If you desire the full-ball type, contact THK.

※ 総ボールタイプも対応しております。総ボールタイプをご要望の際はTHKまでお問合せください。

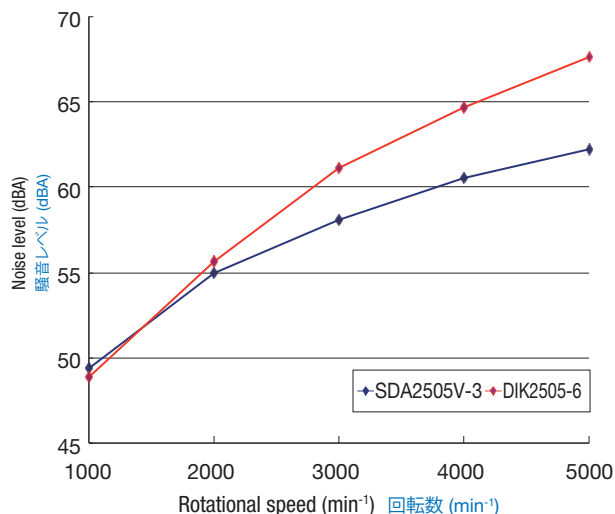
Low noise, acceptable running sound

The ball retainer eliminates the sound of balls colliding with one another, resulting in a quieter sound.

低騒音・好音質

ボールリテーナにより、ボール同士の衝突音がなく低騒音・好音質を実現。

Model number 形番	SDA2505V-3, DIK2505-6
Measuring equipment 測定機器	Noise meter 騒音計
Measurement distance 測定距離	1 m



High-Speed Precision Ball Screw (Deflector Type) EBB-V/EPB-V

高速精密ボールねじ（デフレクタ式）EBB-V/EPB-V

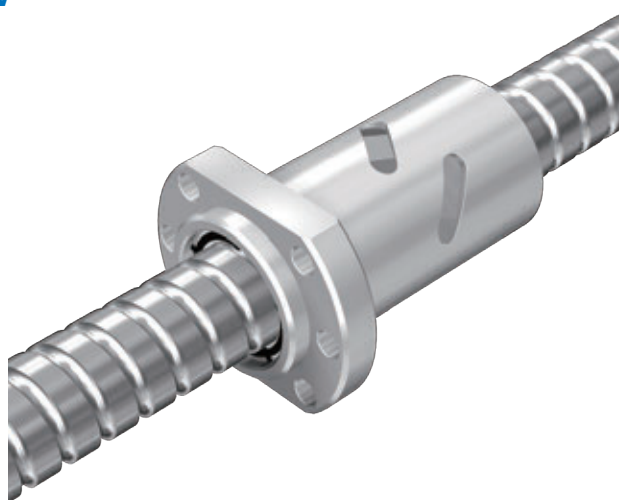
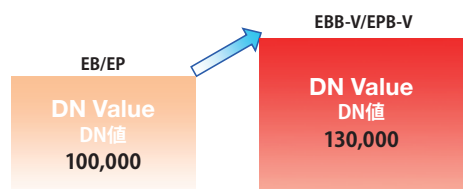
High-speed

高速

Compliant with

ISO 3408-2

ISO 3408-2 準拠



Superb high-speed response

DN value: maximum 130,000

*Max rotational speed: 5000 min⁻¹

優れた高速性

DN値最高130,000

※但し最高回転数5000min⁻¹

Available with or without preload

Two types are available: oversized-ball preload or no preload Model EBB-V and offset preload Model EPB-V.

無予圧タイプ、予圧タイプをラインナップ

オーバーサイズボール予圧または無予圧タイプのEBB-V形と、オフセット予圧のEPB-V形の2つのタイプが用意されています。

Lineup ラインナップ

		Lead リード (mm)													
		4	5	6	8	10	12	16	20	25	30	32	36	40	50
Screw shaft outer diameter ねじ軸外径	10	●	●			●									
	12		●			●			●		●				
	14		●												
	15		●			●			●		●				
	16		●★☆			●		●							
	20	●★☆	●★☆	★☆	★☆	●★☆			●		●			●	
	25	★☆	●★☆	★☆	★☆	●★☆	★☆		●	●	●				●
	28			●★☆											
	31					●○	●○	●○	●○			●			
	32	★☆	●○★☆	○★☆	○★☆	●○★☆	○	○	○						
	36	★☆		○★☆	★☆	●○	●○	●○	●○				●		
	38					●○	●○	●○	●○	●	●			●	
	40	★☆	★☆	★☆	○★☆	○★☆	○★☆	○	○★						
	45					●○	●○	●○	●○	●	●			●	
	50		★☆		★☆	●○★☆	●○	●○	●○★	●○	●○			●○	●
	55					○	○	○	○						
	63					○★☆	○★	○★	○★	○	○			○	
	80					★	★	★	★						

- : SDA-V
- : SDAN-V
- ★ : EBB-V
- ☆ : EPB-V

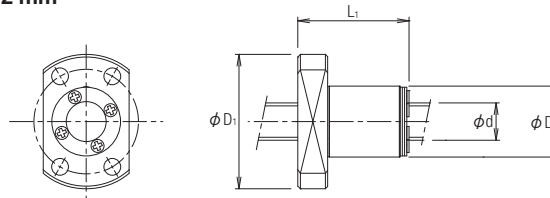
If a Ball Screw not covered by the table is required, contact THK.
空欄の組み合わせは THK にお問い合わせください。

Dimensional Table (SDA-V)

寸法表 [SDA-V]

Screw shaft outer diameter 10 mm to 12 mm

ねじ軸外径 10~12mm

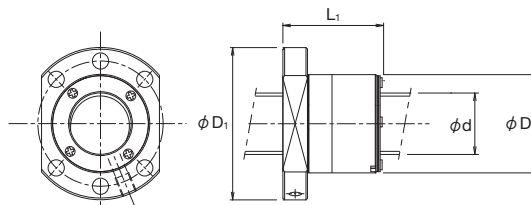


Unit: mm 単位: mm

Model No. 呼び形番	Screw shaft outer diameter ねじ軸外径 d	Lead リード Ph	Basic load rating 基本定格荷重				Nut dimensions ナット寸法		
			Caged ball type ボールリテーナタイプ		Full-ball type 総ボールタイプ		Outer diameter 外径 D	Flange diameter フランジ径 D1	Overall length 全長 L1
			Ca (kN)	Coa(kN)	Ca (kN)	Coa(kN)			
SDA1004VZ-4	10	4	—	—	3.54	5.42	19	36	24
SDA1005VZ-4	10	5	—	—	3.53	5.44	19	36	28
SDA1010VZ-3	10	10	—	—	2.63	3.86	19	36	37
SDA1205VZ-3	12	5	—	—	4.99	7.02	24	40	25
SDA1210VZ-2	12	10	—	—	3.31	4.25	24	40	29
SDA1220VZ-2	12	20	—	—	3.13	4.63	24	40	47
SDA1230VZ-2	12	30	—	—	2.92	4.14	24	40	65

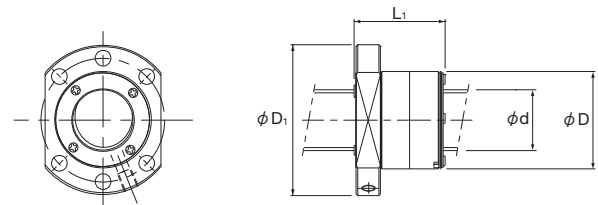
Screw shaft outer diameter 14 mm to 25 mm

ねじ軸外径 14~25mm



Screw shaft outer diameter 28 mm to 32 mm

ねじ軸外径 28~32mm

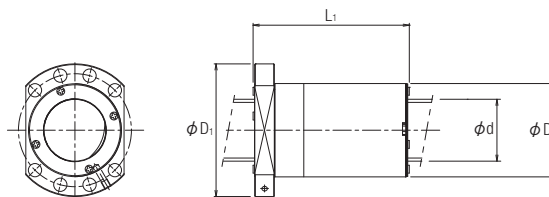


Unit: mm 単位: mm

Model No. 呼び形番	Screw shaft outer diameter ねじ軸外径 d	Lead リード Ph	Basic load rating 基本定格荷重				Nut dimensions ナット寸法		
			Caged ball type ボールリテーナタイプ		Full-ball type 総ボールタイプ		Outer diameter 外径 D	Flange diameter フランジ径 D1	Overall length 全長 L1
			Ca (kN)	Coa(kN)	Ca (kN)	Coa(kN)			
SDA1405V-4	14	5	7.4	10.1	7.1	11.3	26	48	30
SDA1505V-3	15	5	5.9	7.9	5.6	8.8	28	48	25
SDA1510V-3	15	10	5.8	7.6	5.5	8.4	28	48	38
SDA1520V-4	15	20	6.8	10.1	6.5	11.2	28	48	46
SDA1530V-4	15	30	6.5	8.8	6.2	9.7	28	48	65
SDA1605V-3	16	5	6	8.4	5.8	9.4	28	48	25
SDA1610V-3	16	10	6	8.1	5.7	9	28	48	39
SDA1616V-3	16	16	5.9	8.4	5.6	9.2	28	48	56
SDA2004V-4	20	4	8.8	14.7	8.3	16.2	32	58	27
SDA2005V-3	20	5	11.7	17.7	11.1	18.9	36	58	27
SDA2010V-3	20	10	11.6	17.7	11	19	36	58	40
SDA2020V-3	20	20	11.4	17.2	10.8	18.5	36	58	67
SDA2030V-2	20	30	7.4	11.5	7	12.3	36	58	66
SDA2040V-2	20	40	7.1	9.7	6.8	10.4	36	58	84
SDA2505V-3	25	5	12.9	22	12.3	23.7	40	62	27
SDA2510V-3	25	10	12.8	22	12.2	23.8	40	62	40
SDA2520V-3	25	20	12.7	21.3	12.1	22.9	40	62	67
SDA2525V-3	25	25	12.5	21.6	11.9	23.3	40	62	82
SDA2530V-2	25	30	8.3	13.9	7.9	14.9	40	62	66
SDA2550V-2	25	50	7.8	12.1	7.5	13.1	40	62	102
SDA2806V-5	28	6	29.6	54.5	28.2	57.7	46	80	42
SDA3110V-5	31	10	57.1	94.7	54.4	99.7	56	86	65
SDA3112V-5	31	12	57	94.7	54.3	99.9	56	86	74
SDA3116V-5	31	16	56.8	96	54.1	100.5	56	86	93
SDA3120V-5	31	20	56.6	90.3	53.9	95.1	56	86	112
SDA3132V-2	31	32	23.2	33.8	22.1	35.4	56	86	73
SDA3205V-4	32	5	18.8	38.5	17.9	41.7	50	80	32
SDA3210V-5	32	10	31.3	62.9	29.8	66.3	50	80	61

Screw shaft outer diameter 36 mm to 50 mm

ねじ軸外径 36~50mm



Unit: mm 単位: mm

Model No. 呼び形番	Screw shaft outer diameter ねじ軸外径 d	Lead リード Ph	Basic load rating 基本定格荷重				Nut dimensions ナット寸法		
			Caged ball type ボールリテーナタイプ		Full-ball type 総ボールタイプ		Outer diameter 外径 D	Flange diameter フランジ径 D ₁	Overall length 全長 L ₁
			Ca (kN)	Coa(kN)	Ca (kN)	Coa(kN)			
SDA3610V-5	36	10	61.7	110.6	58.8	116.4	61	91	65
SDA3612V-5	36	12	61.7	110.6	58.7	116.6	61	91	74
SDA3616V-5	36	16	61.5	111.9	58.6	117.1	61	91	93
SDA3620V-5	36	20	61.3	105.2	58.4	110.6	61	91	112
SDA3636V-2	36	36	25.1	39.3	23.9	41.3	61	91	81
SDA3810V-5	38	10	63.4	117.7	60.4	123.1	63	93	65
SDA3812V-5	38	12	63.4	117.7	60.3	123.3	63	93	74
SDA3816V-5	38	16	63.2	117.7	60.2	123.7	63	93	93
SDA3820V-5	38	20	63	111.9	60	116.9	63	93	112
SDA3825V-4	38	25	51.1	87.8	48.6	92.7	63	93	111
SDA3830V-3	38	30	38.7	64.9	36.9	68.2	63	93	100
SDA3840V-2	38	40	25.7	42	24.4	43.9	63	93	87
SDA4510V-5	45	10	68.7	139.4	65.4	146.5	70	105	65
SDA4512V-5	45	12	68.6	139.4	65.4	146.7	70	105	74
SDA4516V-5	45	16	68.5	140.7	65.3	147	70	105	93
SDA4520V-5	45	20	68.4	140.7	65.1	147.5	70	105	112
SDA4525V-4	45	25	55.5	104	52.8	109.8	70	105	110
SDA4530V-4	45	30	55.3	105.3	52.6	110.5	70	105	130
SDA4540V-3	45	40	41.7	78.3	39.7	81.9	70	105	129
SDA5010V-5	50	10	72	155.2	68.6	163.2	75	110	65
SDA5012V-5	50	12	72	155.2	68.5	163.3	75	110	74
SDA5016V-5	50	16	71.9	156.6	68.4	163.7	75	110	93
SDA5020V-5	50	20	71.7	156.6	68.3	164.2	75	110	112
SDA5025V-4	50	25	58.2	123.6	55.5	129.8	75	110	110
SDA5030V-4	50	30	58	117.5	55.3	122.6	75	110	130
SDA5040V-3	50	40	43.9	86.5	41.8	90.7	75	110	128
SDA5050V-2	50	50	29.2	55.5	27.8	58	75	110	107

Dimensional Table (SDAN-V)

寸法表 [SDAN-V]

SDAN-V Double Nut

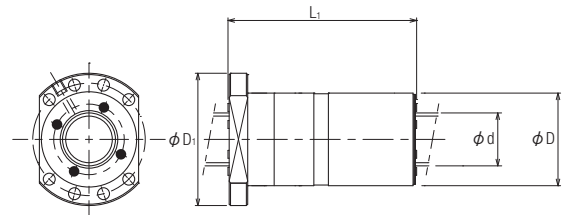
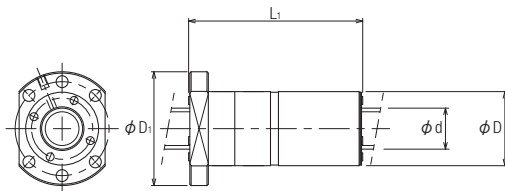
SDAN-V ダブルナット

Screw shaft outer diameter 31 to 32 mm

ねじ軸外径 31~32mm

Screw shaft outer diameter 36 mm to 40 mm

ねじ軸外径 36~40mm

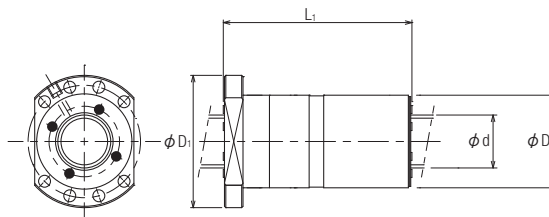


Unit: mm 単位: mm

Model No. 呼び形番	Screw shaft outer diameter ねじ軸外径 d	Lead リード Ph	Basic load rating 基本定格荷重				Nut dimensions ナット寸法		
			Caged ball type ボールリテーナタイプ		Full-ball type 総ボールタイプ		Outer diameter 外径 D	Flange diameter フランジ径 D1	Overall length 全長 L1
			Ca (kN)	Coa(kN)	Ca (kN)	Coa(kN)			
SDAN3110V-5	31	10	57.1	94.7	54.4	99.7	56	86	135
SDAN3112V-5	31	12	57	94.7	54.3	99.9	56	86	158
SDAN3116V-5	31	16	56.8	96	54.1	100.5	56	86	189
SDAN3120V-5	31	20	56.6	90.3	53.9	95.1	56	86	232
SDAN3205V-4	32	5	18.8	38.5	17.9	41.7	50	80	62
SDAN3206V-5	32	6	31.4	62.4	29.9	66.1	50	80	84
SDAN3208V-5	32	8	31.4	62.4	29.9	66.2	50	80	108
SDAN3210V-5	32	10	31.3	62.9	29.8	66.3	50	80	121
SDAN3210VA-5	32	10	58.1	98.9	55.3	103.1	57	87	135
SDAN3212VA-5	32	12	58	98.9	55.3	103.3	57	87	158
SDAN3216VA-5	32	16	57.8	98.9	55.1	103.8	57	87	189
SDAN3220VA-5	32	20	57.6	94.3	54.9	98.2	57	87	232
SDAN3606V-4	36	6	26.9	55.6	25.6	58.6	54	84	72
SDAN3610V-5	36	10	61.7	110.6	58.8	116.4	61	91	135
SDAN3612V-5	36	12	61.7	110.6	58.7	116.6	61	91	158
SDAN3616V-5	36	16	61.5	111.9	58.6	117.1	61	91	189
SDAN3620V-5	36	20	61.3	105.2	58.4	110.6	61	91	232
SDAN3810V-5	38	10	63.4	117.7	60.4	123.1	63	93	135
SDAN3812V-5	38	12	63.4	117.7	60.3	123.3	63	93	158
SDAN3816V-5	38	16	63.2	117.7	60.2	123.7	63	93	189
SDAN3820V-5	38	20	63.0	111.9	60.0	116.9	63	93	232
SDAN4008VX-5	40	8	—	—	42.2	99.4	61	91	111
SDAN4010VA-5	40	10	65.6	126.4	62.5	132.3	70	100	135
SDAN4012VA-5	40	12	65.5	126.4	62.4	132.5	70	100	158
SDAN4016VA-5	40	16	65.4	126.4	62.3	132.9	70	100	189
SDAN4020VA-5	40	20	65.2	127.7	62.1	133.4	70	100	232

Screw shaft outer diameter 45 mm to 50 mm

ねじ軸外径 45～50mm

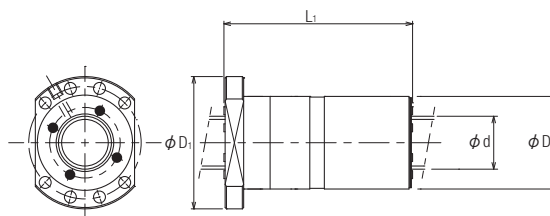


Unit: mm 単位: mm

Model No. 呼び形番	Screw shaft outer diameter ねじ軸外径 d	Lead リード Ph	Basic load rating 基本定格荷重				Nut dimensions ナット寸法		
			Caged ball type ボールリテーナタイプ		Full-ball type 総ボールタイプ		Outer diameter 外径 D	Flange diameter フランジ径 D ₁	Overall length 全長 L ₁
			Ca (kN)	Coa(kN)	Ca (kN)	Coa(kN)			
SDAN4510V-5	45	10	68.7	139.4	65.4	146.5	70	105	135
SDAN4510VA-5	45	10	69.2	142.2	65.9	149	75	110	135
SDAN4512V-5	45	12	68.6	139.4	65.4	146.7	70	105	158
SDAN4512VA-5	45	12	69.2	142.2	65.9	149.2	75	110	158
SDAN4516V-5	45	16	68.5	140.7	65.3	147	70	105	189
SDAN4516VA-5	45	16	69	142.2	65.8	149.5	75	110	189
SDAN4520V-5	45	20	68.4	140.7	65.1	147.5	70	105	232
SDAN4520VA-5	45	20	68.9	143.6	65.6	150	75	110	232
SDAN5010V-5	50	10	72	155.2	68.6	163.2	75	110	135
SDAN5010VA-5	50	10	72.5	158.1	69	165.7	82	118	135
SDAN5012V-5	50	12	72	155.2	68.5	163.3	75	110	158
SDAN5012VA-5	50	12	72.4	158.1	69	165.9	82	118	158
SDAN5016V-5	50	16	71.9	156.6	68.4	163.7	75	110	189
SDAN5016VA-5	50	16	72.3	158.1	68.9	166.2	82	118	189
SDAN5020V-5	50	20	71.7	156.6	68.3	164.2	75	110	232
SDAN5020VA-5	50	20	72.2	159.4	68.8	166.7	82	118	232
SDAN5025V-4	50	25	58.2	123.6	55.5	129.8	75	110	235
SDAN5025VA-4	50	25	58.6	125.1	55.8	131.7	82	118	235
SDAN5030V-4	50	30	58	117.5	55.3	122.6	75	110	265
SDAN5030VA-4	50	30	58.4	118.9	55.7	124.5	82	118	265
SDAN5040V-3	50	40	43.9	86.5	41.8	90.7	75	110	268
SDAN5040VA-3	50	40	44.2	87.9	42.1	92	82	118	269

Screw shaft outer diameter 55 mm to 63 mm

ねじ軸外径 55～63mm



Unit: mm 単位: mm

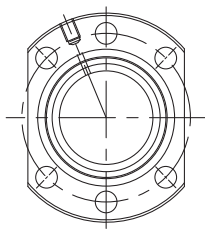
Model No. 呼び形番	Screw shaft outer diameter ねじ軸外径 d	Lead リード Ph	Basic load rating 基本定格荷重				Nut dimensions ナット寸法		
			Caged ball type ボールリテーナタイプ		Full-ball type 総ボールタイプ		Outer diameter 外径 D	Flange diameter フランジ径 D ₁	Overall length 全長 L ₁
			Ca (kN)	Coa(kN)	Ca (kN)	Coa(kN)			
SDAN5510VX-4	55	10	—	—	58.2	141.6	80	118	115
SDAN5510VAX-4	55	10	—	—	58.5	143.6	82	120	115
SDAN5512VX-4	55	12	—	—	58.1	141.7	80	118	134
SDAN5512VAX-4	55	12	—	—	58.5	143.7	82	120	134
SDAN5516VX-4	55	16	—	—	58.1	142	80	118	157
SDAN5516VAX-4	55	16	—	—	58.4	144	82	120	157
SDAN5520VX-4	55	20	—	—	58	142.3	80	118	192
SDAN5520VAX-4	55	20	—	—	58.3	144.3	82	120	192
SDAN6310VX-4	63	10	—	—	61.6	162.7	90	125	115
SDAN6312VX-4	63	12	—	—	72.9	185.2	95	135	135
SDAN6316VX-4	63	16	—	—	72.8	185.5	95	135	158
SDAN6320VX-4	63	20	—	—	72.7	185.8	95	135	193
SDAN6325VX-4	63	25	—	—	72.6	186.3	95	135	237
SDAN6330VX-4	63	30	—	—	72.5	186.9	95	135	266
SDAN6340VX-3	63	40	—	—	55	129.2	95	135	269

Dimensional Table (EBB-V/EPB-V)

寸法表 [EBB-V/EPB-V]

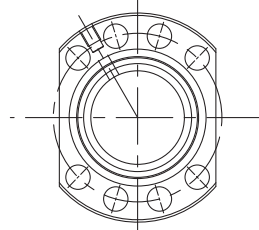
Screw shaft outer diameter 16 mm to 80 mm

ねじ軸外径 16~80mm



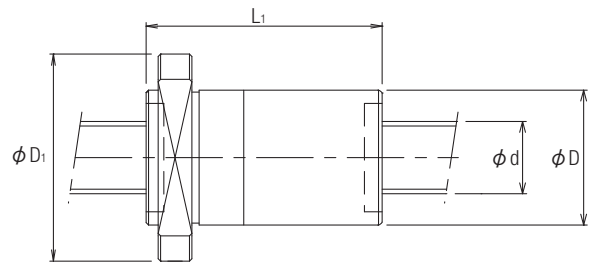
Screw shaft outer diameter 16 to 36

ねじ軸外径 16~36



Screw shaft outer diameter 40 to 80

ねじ軸外径 40~80

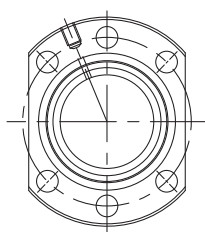
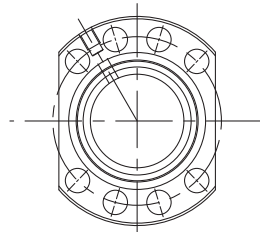
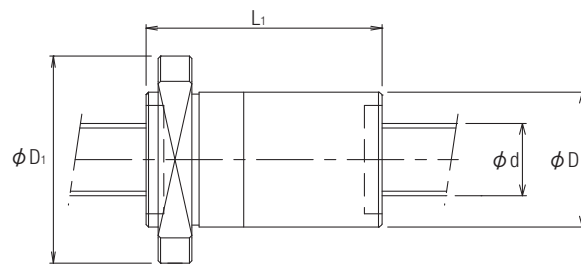


Unit: mm 単位: mm

Model No. 呼び形番	Screw shaft outer diameter ねじ軸外径 d	Lead リード Ph	Basic load rating 基本定格荷重		Nut dimensions ナット寸法		
			Ca(kN)	Coa(kN)	Outer diameter 外径 D	Flange diameter フランジ径 D ₁	Overall length 全長 L ₁
EBB1605V-4	16	5	11.9	17.4	28	48	55
EBB2004V-8	20	4	14.9	30.9	36	58	69
EBB2005V-3	20	5	10.6	17.3	36	58	50
EBB2006V-6	20	6	25	40.8	36	58	73
EBB2008V-6	20	8	24.9	40.8	36	58	87
EBB2010V-6	20	10	31.4	49	36	58	102
EBB2504V-8	25	4	16.4	39	40	62	70
EBB2505V-3	25	5	12.1	22.6	40	62	50
EBB2506V-6	25	6	29	54.1	40	62	74
EBB2508V-6	25	8	28.9	54.1	40	62	88
EBB2510V-3	25	10	15.9	27	40	62	69
EBB2510V-4	25	10	20.9	37.6	40	62	81
EBB2512V-4	25	12	25.4	42.3	40	62	91
EBB2806V-6	28	6	31.7	64.1	42	71	72
EBB3204V-10	32	4	22.3	63.9	50	80	81
EBB3205V-3	32	5	13.9	30.2	50	80	52
EBB3205V-4	32	5	17.8	40.3	50	80	57
EBB3205V-6	32	5	25.1	60.4	50	80	67
EBB3206V-8	32	6	43.3	98.9	50	80	95
EBB3208V-8	32	8	52.9	110.5	50	80	117
EBB3210V-3	32	10	32.1	52.2	50	80	78
EBB3210V-4	32	10	41.3	69.7	50	80	90
EBB3604V-6	36	4	15.3	44.3	56	86	58
EBB3606V-8	36	6	45.8	112.4	56	86	92
EBB3608V-8	36	8	57.4	129.7	56	86	112
EBB4004V-6	40	4	15.9	49.4	63	93	59
EBB4005V-6	40	5	26.6	77.5	63	93	65
EBB4006V-12	40	6	68.1	188.7	63	93	117
EBB4008V-8	40	8	61.3	148.9	63	93	113
EBB4010V-3	40	10	37.3	69.3	63	93	75
EBB4010V-4	40	10	47.6	92.4	63	93	85
EBB4012V-8	40	12	86.4	184.8	63	93	152
EBB4020V-3	40	20	36.8	69.3	63	93	122
EBB5005V-12	50	5	56	198.3	75	110	104
EBB5008V-8	50	8	67.5	187.7	75	110	115
EBB5010V-4	50	10	54.3	120.5	75	110	87
EBB5020V-3	50	20	55.3	108.8	75	110	117
EBB6310V-4	63	10	61.9	161	90	125	89
EBB6312V-4	63	12	80.9	189.1	95	135	104
EBB6316V-4	63	16	134	306.4	95	135	125
EBB6320V-3	63	20	104.4	229.3	95	135	122
EBB8010V-4	80	10	68.6	206.9	105	145	93
EBB8012V-4	80	12	92.1	251.7	125	165	110
EBB8016V-4	80	16	154.7	413.2	125	165	131
EBB8020V-4	80	20	154.5	413.2	125	165	149

Screw shaft outer diameter 16 mm to 63 mm

ねじ軸外径 16~63mm

Screw shaft outer diameter 16 to 36
ねじ軸外径 16~36Screw shaft outer diameter 40 to 63
ねじ軸外径 40~63

Unit: mm 単位: mm

Model No. 呼び番号	Screw shaft outer diameter ねじ軸外径 d	Lead リード Ph	Basic load rating 基本定格荷重		Nut dimensions ナット寸法		
			Ca(kN)	Coa(kN)	Outer diameter 外径 D	Flange diameter フランジ径 D ₁	Overall length 全長 L ₁
EPB1605V-6	16	5	9.3	13.1	28	48	65
EPB2004V-8	20	4	8.2	15.5	36	58	69
EPB2005V-6	20	5	10.6	17.3	36	58	65
EPB2006V-6	20	6	13.8	20.4	36	58	73
EPB2008V-6	20	8	13.7	20.4	36	58	87
EPB2010V-6	20	10	17.3	24.5	36	58	102
EPB2504V-8	25	4	9.1	19.5	40	62	70
EPB2505V-6	25	5	12.1	22.6	40	62	66
EPB2506V-6	25	6	16	27.1	40	62	74
EPB2508V-6	25	8	15.9	27.1	40	62	88
EPB2510V-4	25	10	11.3	18	40	62	81
EPB2512V-4	25	12	14	21.2	40	62	91
EPB2806V-6	28	6	17.5	32	42	71	72
EPB3204V-10	32	4	12.3	31.9	50	80	81
EPB3205V-6	32	5	13.9	30.2	50	80	67
EPB3205V-8	32	5	17.8	40.3	50	80	78
EPB3206V-8	32	6	23.9	49.5	50	80	95
EPB3208V-8	32	8	29.2	55.2	50	80	117
EPB3210V-6	32	10	32.1	52.2	50	80	108
EPB3604V-6	36	4	8.4	22.2	56	86	58
EPB3606V-8	36	6	25.2	56.2	56	86	92
EPB3608V-8	36	8	31.6	64.8	56	86	112
EPB4004V-6	40	4	8.8	24.7	63	93	59
EPB4005V-6	40	5	15.4	38.8	63	93	65
EPB4006V-12	40	6	37.5	94.4	63	93	117
EPB4008V-8	40	8	33.8	74.5	63	93	113
EPB4010V-6	40	10	37.3	69.3	63	93	105
EPB4010V-8	40	10	47.6	92.4	63	93	129
EPB4012V-8	40	12	47.6	92.4	63	93	152
EPB5005V-12	50	5	30.9	99.1	75	110	104
EPB5008V-8	50	8	37.2	93.9	75	110	115
EPB5010V-8	50	10	54.3	120.5	75	110	131
EPB6310V-4	63	10	34.1	80.1	90	125	89

NEW

High-Speed Ball Screw for Machine Tools Model BSM/BSM-B

工作機械用高速ボールねじ BSM/BSM-B

High-speed

高速

BSM/BSM-B

DN Value

DN値

170,000

Superb high-speed response

The ideal ball circulation has been achieved through a new design.

DN value: maximum 170,000

*Max rotational speed: 5000 min⁻¹

優れた高速性

新開発の循環構造により理想的なボール循環を実現。

DN値最高170,000

※但し最高回転数5000min⁻¹

Compact design

An offset preload method is used instead of the conventional double-nut preload method. The nut is compact, allowing for a greater stroke length.

コンパクト設計

従来のダブルナット予圧方式ではなく、オフセット予圧方式を採用。ナット全長がコンパクトであり、ストローク確保に貢献します。

Design that responds to the performance needs of machine tools

Improves load capacity through the groove design.

The BSM improves load capacity with a unique groove design and double groove structure.

工作機械の要求性能に応える設計

独自の溝設計と2条溝採用により、高負荷容量を実現しました。

■ Lineup ラインナップ

Screw shaft outer diameter ねじ軸外径	Lead リード (mm)			
	16	20	25	30
φ 36		★		
φ 40	●	● ★	● ★	● ★
φ 45	●	● ★	● ★	
φ 50	●	● ★	● ★	● ★
φ 63	●			

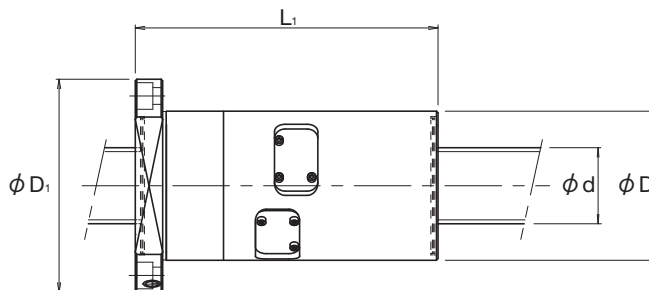
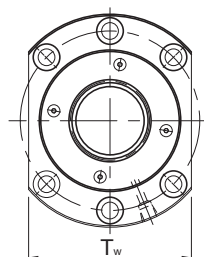
● : BSM ★ : BSM-B

Dimensional Table (BSM/BSM-B)

寸法表 [BSM/BSM-B]

Screw shaft outer diameter 40 mm to 63 mm

ねじ軸外径 40~63mm

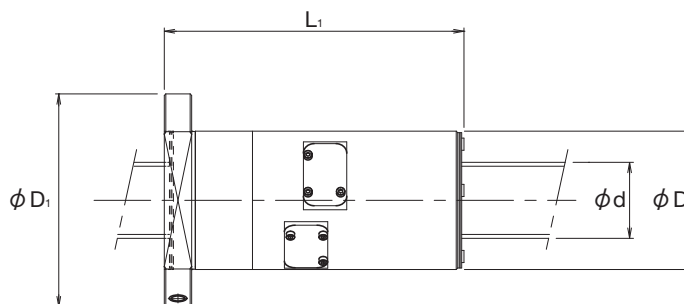
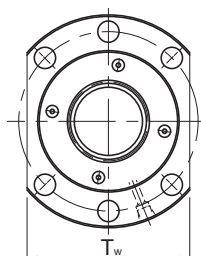


Unit: mm 単位: mm

Model No. 呼び形番	Screw shaft outer diameter ねじ軸外径	Lead リード	Basic load rating 基本定格荷重		Nut dimensions ナット寸法			
			Ca	Coa	Outer diameter 外径	Flange diameter フランジ径	Overall length 全長	
			kN	kN	D	D ₁	L ₁	Tw
BSM4016-4	40	16	58.2	139	86	128	149	96
BSM4020-6	40	20	68.5	180.7	86	128	140	96
BSM4020-4	40	20	58.1	139.5	86	128	180	96
BSM4025-6	40	25	79.8	192	86	128	171	96
BSM4030-6	40	30	79.4	193.5	86	128	200	96
BSM4516-4	45	16	61.6	156.4	92	134	149	102
BSM4520-6	45	20	72.4	203.1	92	134	141	102
BSM4525-6	45	25	84.6	215.7	92	134	171	102
BSM5016-4	50	16	64.7	173.9	98	140	149	107
BSM5020-6	50	20	75.9	225.6	98	140	141	107
BSM5025-6	50	25	88.9	254.7	98	140	171	107
BSM5030-6	50	30	88.6	240.6	98	140	199	107
BSM6316-4	63	16	112.7	339	122	180	150	138

Screw shaft outer diameter 36 mm to 50 mm

ねじ軸外径 36~50mm



Unit: mm 単位: mm

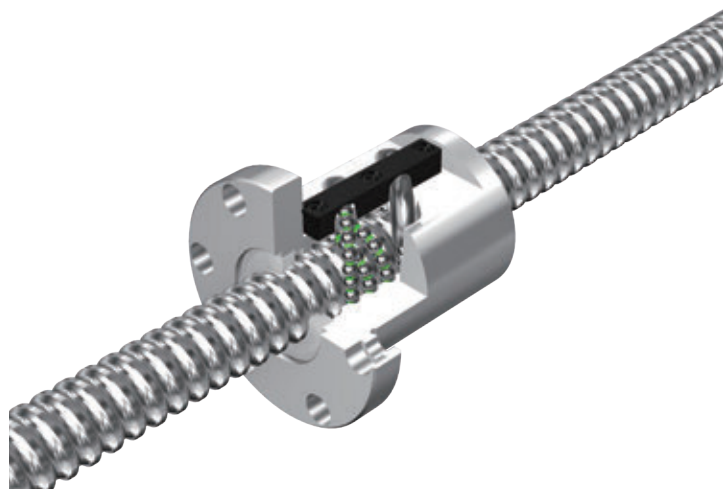
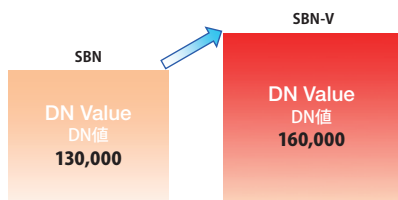
Model No. 呼び形番	Screw shaft outer diameter ねじ軸外径	Lead リード	Basic load rating 基本定格荷重		Nut dimensions ナット寸法			
			Ca	Coa	Outer diameter 外径	Flange diameter フランジ径	Overall length 全長	
			kN	kN	D	D ₁	L ₁	Tw
BSM3620B-8	36	20	85.6	210.3	73	114	178	83
BSM4020B-8	40	20	105.4	279.1	80	136	179	103
BSM4025B-6	40	25	79.8	192	80	136	170	103
BSM4030B-6	40	30	79.4	193.5	80	136	199	103
BSM4520B-8	45	20	111.6	313.9	85	141	140	107
BSM4525B-6	45	25	84.6	215.7	85	141	170	107
BSM5020B-8	50	20	117.2	348.7	90	146	180	110
BSM5025B-6	50	25	88.9	254.7	90	146	170	110
BSM5030B-6	50	30	88.6	240.6	90	146	198	110

Precision Caged Ball Screw Model SBN-V

ボールリテーナ入り精密ボールねじ SBN-V

High-speed

高速



Superb high-speed response

Achieves ideal ball circulation with an optimized circulation structure.

DN value: maximum 160,000

*Max rotational speed: 5000 min⁻¹

優れた高速性

最適化された循環構造により理想的なボール循環を実現。

DN値最高160,000

※但し最高回転数5000min⁻¹

Stable torque

The optimized circulation components decrease torque fluctuation for smooth operation.

安定したトルク

循環部品の最適化により、トルク変動が小さく、滑らかな動作を実現。

Low noise, acceptable running sound

The ball retainer eliminates the sound of balls colliding with one another, resulting in a quieter sound.

低騒音・好音質

ボールリテーナにより、ボール同士の衝突音がなく低騒音・好音質を実現。

Ball Cage Effect ボールリテーナ効果

Low Noise, Acceptable Running Sound

The use of the ball cage eliminates the collision noise between the balls. Additionally, as balls are picked up in the tangential direction, the collision noise from the ball circulation has also been eliminated.

低騒音・好音質

ボールリテーナによりボール同士の衝突音がなくなりました。さらに、ボールは接線方向にすくい上げられるため、ボールの循環による衝突音が解消されました。

Long-Term Maintenance-Free Operation

The friction between the balls has been eliminated, and the grease retention has been improved through the provision of grease pockets. As a result, long-term maintenance-free operation (i.e., with re-lubrication unnecessary for long periods of time) is achieved.

長期メンテナンスフリー

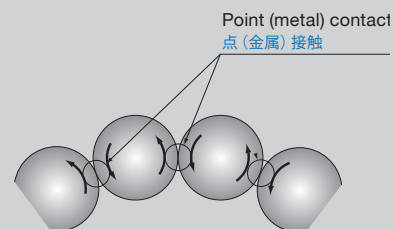
ボール同士の相互摩擦がなく、またグリースポケットによりグリースが保持されるため、長期メンテナンスフリー（長期間給脂不要）を実現します。

Smooth Motion

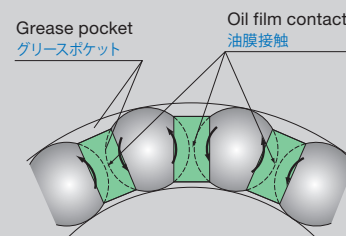
The use of a ball cage eliminates the friction between the balls and minimizes the torque fluctuation, thus allowing smooth rotational movement to be achieved.

滑らかな動作

ボールリテーナによりボール同士の相互摩擦がなくなり、トルクの変動が小さくなったため、滑らかな回転運動が得られます。



Conventional Structure
従来の構造



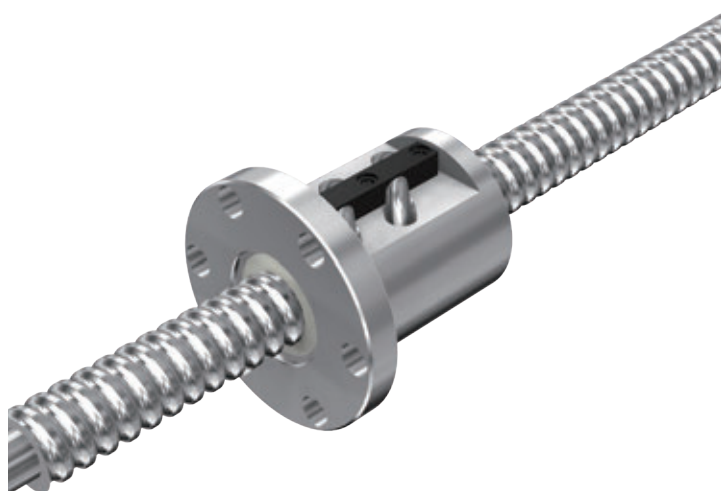
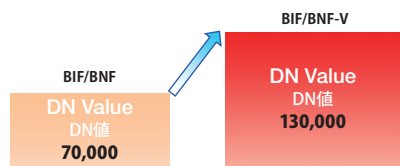
Structure of the Ball Screw with Ball Cage
ボールリテーナ入りボールねじの構造

Precision Ball Screw with Return Pipe Models BIF-V/BNF-V

精密ボールねじ BIF-V / BNF-V

High-speed

高速



Superb high-speed response

Achieves ideal ball circulation with an optimized circulation structure.

DN value: maximum 130,000

*Max rotational speed: 5000 min⁻¹

優れた高速性

最適化された循環構造により理想的なボール循環を実現。

DN値最高130,000

※但し最高回転数5000min⁻¹

Stable torque

The optimized circulation components decrease torque fluctuation for smooth operation.

安定したトルク

循環部品の最適化により、トルク変動が小さく、滑らかな動作を実現。

The dimensions are interchangeable with the previous return pipe type precision ball screws

Product performance was improved without changing the nut shape.

従来のリターンパイプ式 精密ボールねじとの寸法互換

ナット形状はそのままに製品性能の向上を実現。

Lineup ラインナップ

Screw shaft outer diameter ねじ軸外径	Lead リード (mm)							
	4	5	6	8	10	12	16	20
φ 16	●	●						
φ 20	●	●			●			
φ 25	●	●	●	●	●			
φ 28		●	●		●			
φ 32		●	●		●	●	●	
φ 36					●	●	●	●
φ 40					●	●	●	●
φ 45					●	●	●	●
φ 50					●	●	●	●

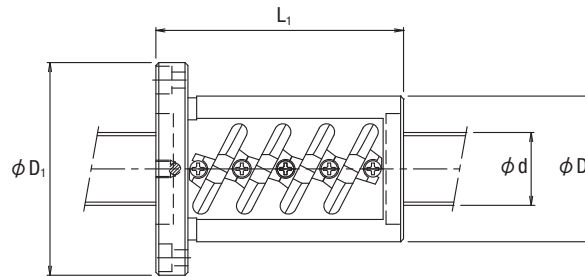
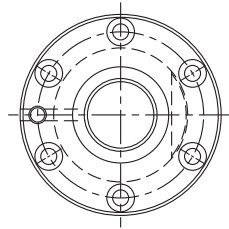
● : SBN-V/BIF-V/BNF-V

Dimensional Table (SBN-V/BIF-V/BNF-V)

寸法表 [SBN-V/BIF-V/BNF-V]

Screw shaft outer diameter 16 mm to 32 mm

ねじ軸外径 16~32mm

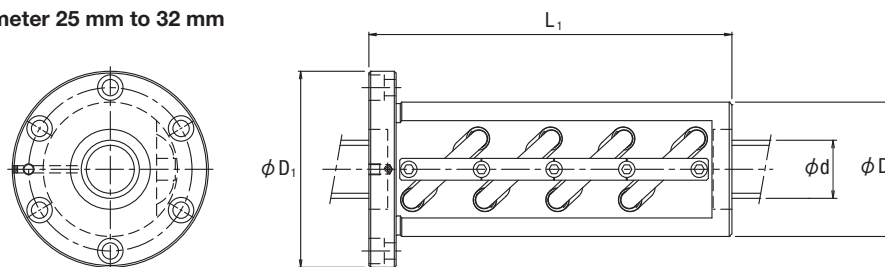


Unit: mm 単位: mm

Model No. 呼び形番	Screw shaft outer diameter ねじ軸外径 d	Lead リード Ph	No. of loaded circuits 負荷回路数 Rows×turns	Basic load rating 基本定格荷重 Ca (kN)			Nut dimensions ナット寸法		
				Caged Ball SBN-V ボールリテーナ入り SBN-V DN130,000 Offset preload オフセット予圧	BIF-V DN100,000 Offset preload オフセット予圧	BNF-V DN100,000	Outer diameter 外径 D	Flange diameter フランジ径 D ₁	Overall length 全長 L ₁
#1604V	16	4	2.5	—	—	4.3	36	59	41
			5	5.3	4.3	7.8	36	85	53
			7.5	—	—	11	36	85	65
#1605V	16	5	2.5	—	—	7.4	40	60	41
			5	9.2	7.4	13.5	40	60	56
			7.5	—	—	19.1	40	60	71
#2004V	20	4	2.5	—	—	4.8	40	63	37
			5	5.9	4.8	8.6	40	63	49
			7.5	—	—	12.3	40	63	61
			10	10.3	8.6	15.7	40	63	73
#2005V	20	5	2.5	—	—	8.3	44	67	41
			5	10.3	8.3	15.1	44	67	56
			7.5	—	—	21.4	44	67	71
			10	18.1	15.1	27.4	44	67	86
#2010V	20	10	2.5	—	—	8.3	46	74	58
			5	10.2	8.3	15	46	74	90
#2504V	25	4	2.5	—	—	5.2	46	69	36
			5	6.4	5.2	9.5	46	69	48
			7.5	—	—	13.4	46	69	60
			10	11.3	9.5	17.2	46	69	72
#2505V	25	5	2.5	—	—	9.2	50	73	40
			5	11.3	9.2	16.7	50	73	55
			7.5	—	—	23.6	50	73	70
			10	20.1	16.7	30.3	50	73	85
#2506V	25	6	2.5	—	—	12.4	53	76	44
			5	15.4	12.4	22.6	53	76	62
			7.5	—	—	32	53	76	80
			10	27.5	22.6	41	53	76	98
#2805V	28	5	2.5	—	—	9.7	55	85	44
			5	11.8	9.7	17.5	55	85	59
			7.5	—	—	24.8	55	85	74
			10	21.2	17.5	31.8	55	85	89
#2806V	28	6	2.5	—	—	9.6	55	85	50
			5	11.6	9.6	17.5	55	85	68
			7.5	—	—	24.8	55	85	86
			10	21.1	17.5	31.8	55	85	104
#3205V	32	5	2.5	—	—	10.2	58	85	41
			5	12.6	10.2	18.5	58	85	56
			7.5	—	—	26.2	58	85	71
			10	22.4	18.5	33.6	58	85	86
#3206V	32	6	2.5	—	—	13.9	62	89	45
			5	17.2	13.9	25.2	62	89	63
			7.5	—	—	35.7	62	89	81
			10	30.9	25.2	45.8	62	89	99

Screw shaft outer diameter 25 mm to 32 mm

ねじ軸外径 25~32mm



Unit: mm 単位: mm

Model No. 呼び形番	Screw shaft outer diameter ねじ軸外径 d	Lead リード Ph	No. of loaded circuits ねじ回路数 Rows×turns	Basic load rating 基本定格荷重 Ca (kN)			Nut dimensions ナット寸法		
				Caged Ball SBN-V ボールリテーナ入り SBN-V DN160,000 Offset preload オフセット予圧	BIF-V DN130,000 Offset preload オフセット予圧	BNF-V DN130,000	Outer diameter 外径 D	Flange diameter フランジ径 D1	Overall length 全長 L1
#2508V	25	8	1.5	—	—	10.2	58	85	55
			2.5	—	—	15.8	58	85	58
			3	12.5	10.2	—	58	85	71
			3.5	—	—	21.1	58	85	66
			5	19.4	15.8	28.7	58	85	82
			7	26.2	21.1	38.3	58	85	98
			7.5	—	—	40.7	58	85	106
			10	35.2	28.7	52.1	58	85	130
#2510V	25	10	10.5	—	—	54.3	58	85	130
			1.5	—	—	10.2	58	85	64
			2.5	—	—	15.8	58	85	70
			3	12.4	10.2	—	58	85	84
			3.5	—	—	21.1	58	85	78
			5	19.6	15.8	28.7	58	85	100
#2810V	28	10	7	26.1	21.1	38.3	58	85	118
			1.5	—	—	15.6	65	106	68
			2.5	—	—	24.3	65	106	86
			3	19.5	15.6	—	65	106	88
			3.5	—	—	32.4	65	106	96
			5	29.7	24.3	44	65	106	116
#3210V	32	10	7	40	32.3	58.7	65	106	136
			1.5	—	—	16.8	74	108	67
			2.5	—	—	26	74	108	70
			3	20.5	16.8	—	74	108	87
			3.5	—	—	34.8	74	108	80
			5	32.2	26	47.3	74	108	100
			7	43	34.8	63.1	74	108	120
			7.5	—	—	67	74	108	130
#3212V	32	12	10	58.5	47.3	85.8	74	108	160
			10.5	—	—	89.4	74	108	160
			1.5	—	—	19.5	76	121	69
			2.5	—	—	30.2	76	121	81
			3	24.1	19.5	—	76	121	93
			3.5	—	—	40.4	76	121	98
			5	37.4	30.2	54.9	76	121	117
			7	50	40.4	73.3	76	121	146
#3216V	32	16	7.5	—	—	77.8	76	121	153
			10	68	54.9	99.6	76	121	189
			10.5	—	—	103.8	76	121	189
			1.5	—	—	16.7	74	108	75
			2.5	—	—	25.9	74	108	91
#3216V	32	16	3	20.3	16.7	—	74	108	107
			3.5	—	—	34.6	74	108	107
			5	31.9	25.9	47.1	74	108	139
			5	31.9	25.9	47.1	74	108	139

Screw shaft outer diameter 36 mm to 40 mm

ねじ軸外径 36~40mm

Unit: mm 単位: mm

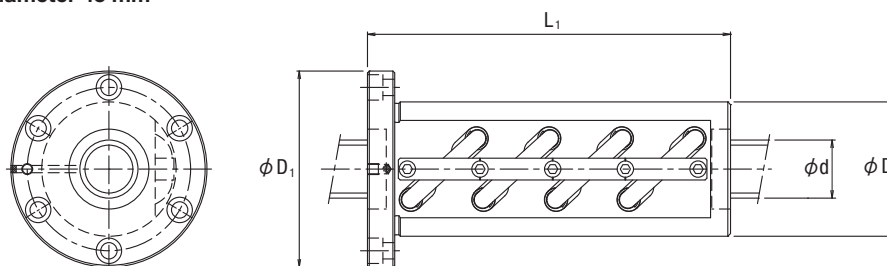
Model No. 呼び形番	Screw shaft outer diameter ねじ軸外径 d	Lead リード Ph	No. of loaded circuits 負荷回路数 Rows×turns	Basic load rating 基本定格荷重 Ca (kN)			Nut dimensions ナット寸法		
				Caged Ball SBN-V ボールリテーナ入り SBN-V DN160,000	BIF-V DN130,000	BNF-V DN130,000	Outer diameter 外径 D	Flange diameter フランジ径 D ₁	Overall length 全長 L ₁
				Offset preload オフセット予圧	Offset preload オフセット予圧				
#3610V	36	10	1.5	—	—	17.8	75	120	71
			2.5	—	—	27.6	75	120	81
			3	21.9	17.8	—	75	120	91
			3.5	—	—	36.9	75	120	91
			5	33.9	27.6	50.1	75	120	111
			7	45.6	36.9	66.9	75	120	123
			7.5	—	—	71	75	120	141
			10	61.5	50.1	91	75	120	171
			10.5	—	—	94.8	75	120	171
#3612V	36	12	1.5	—	—	20.7	78	123	75
			2.5	—	—	32.2	78	123	87
			3	25.3	20.7	—	78	123	99
			3.5	—	—	43	78	123	92
			5	39.8	32.2	58.4	78	123	123
			7	53.2	43	78	78	123	140
			7.5	—	—	82.8	78	123	159
			10	72.3	58.4	106	78	123	195
			10.5	—	—	110.5	78	123	195
#3616V	36	16	1.5	—	—	20.7	78	123	76
			2.5	—	—	32.1	78	123	92
			3	25.2	20.7	37.6	78	123	108
			3.5	—	—	42.8	80	123	108
			5	39.7	32.1	58.3	78	123	140
			7	53.1	42.8	77.8	80	123	172
#3620V	36	20	1.5	—	—	17.6	75	114	82
			2.5	—	—	27.4	78	123	102
			3	21.6	17.6	32	75	114	122
			3.5	—	—	36.6	78	123	122
#4010V	40	10	1.5	—	—	18.7	82	124	70
			2.5	—	—	29	82	124	73
			3	23.2	18.7	—	82	124	90
			3.5	—	—	38.8	82	124	83
			5	35.8	29	52.7	82	124	103
			7	47.8	38.8	70.4	82	124	123
			7.5	—	—	74.7	82	124	133
			10	65.1	52.7	95.6	82	124	163
			10.5	—	—	99.7	82	124	163
#4012V	40	12	1.5	—	—	21.9	84	126	71
			2.5	—	—	33.9	84	126	83
			3	27.1	21.9	—	84	126	95
			3.5	—	—	45.3	84	126	95
			5	42	33.9	61.6	84	126	119
			7	55.9	45.3	82.3	84	126	143
			7.5	—	—	87.3	84	126	155
			10	76.1	61.6	111.8	84	126	191
			10.5	—	—	116.5	84	126	191
#4016V	40	16	1.5	—	—	21.8	84	126	80
			2.5	—	—	33.9	84	126	96
			3	27	21.8	—	84	126	112
			3.5	—	—	45.2	84	126	112
			5	41.9	33.9	61.5	84	126	144
			7	55.6	45.2	82	84	126	176
#4020V	40	20	1.5	—	—	18.6	82	126	82
			2.5	—	—	28.9	82	126	102
			3	22.9	18.6	—	82	126	122
			3.5	—	—	38.6	82	126	122
			5	35.4	28.9	52.4	82	126	162

Dimensional Table (SBN-V/BIF-V/BNF-V)

寸法表 [SBN-V/BIF-V/BNF-V]

Screw shaft outer diameter 45 mm

ねじ軸外径 45mm



Unit: mm 単位: mm

Model No. 呼び形番	Screw shaft outer diameter ねじ軸外径 d	Lead リード Ph	No. of loaded circuits 負荷回路数 Rows×turns	Basic load rating 基本定格荷重 Ca (kN)			Nut dimensions ナット寸法		
				Caged Ball SBN-V ボールリテーナ入り SBN-V DN160,000	BIF-V DN130,000	BNF-V DN130,000	Outer diameter 外径 D	Flange diameter フランジ径 D1	Overall length 全長 L1
				Offset preload オフセット予圧	Offset preload オフセット予圧				
#4510V	45	10	1.5	—	—	19.7	88	132	74
			2.5	—	—	30.6	88	132	81
			3	24.2	19.7	35.8	88	132	94
			3.5	—	—	40.9	88	132	91
			5	37.9	30.6	55.6	88	132	111
			7	50.4	40.9	74.3	88	132	131
			7.5	—	—	78.8	88	132	141
			10	68.9	55.6	100.9	88	132	171
#4512V	45	12	10.5	—	—	105.2	88	132	171
			1.5	—	—	23.1	90	130	71
			2.5	—	—	35.9	90	130	83
			3	28.7	23.1	—	90	130	95
			3.5	—	—	47.9	90	130	95
			5	44.4	35.9	65.2	90	130	119
			7	59	47.9	87	90	130	143
			7.5	—	—	92.3	90	130	155
#4516V	45	16	10	80.4	65.2	118.3	90	130	191
			10.5	—	—	123.3	90	130	191
			1.5	—	—	23.1	90	130	76
			2.5	—	—	35.8	90	130	92
			3	28.6	23.1	—	90	130	108
			3.5	—	—	47.9	90	130	108
#4520V	45	20	5	44.3	35.8	65	90	130	140
			7	59.4	47.8	86.8	90	130	172
			1.5	—	—	23	90	130	82
			2.5	—	—	35.8	90	130	102
			3	28.4	23	41.8	90	130	122
#4520V	45	20	3.5	—	—	47.7	92	130	122
			5	43.9	35.8	64.9	90	130	162

Screw shaft outer diameter 50 mm

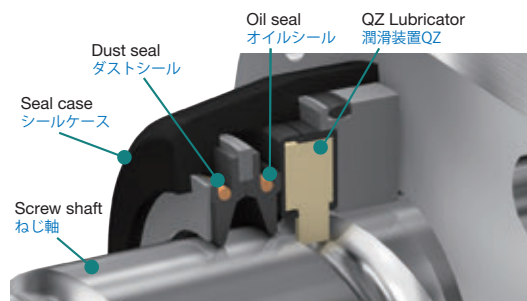
ねじ軸外径 50mm

Unit: mm 単位: mm

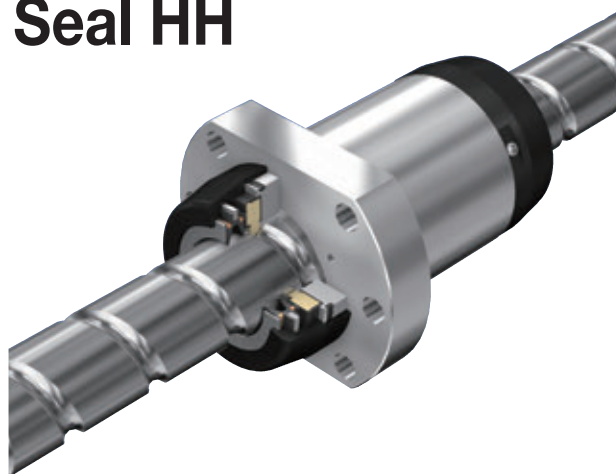
Model No. 呼び形番	Screw shaft outer diameter ねじ軸外径 d	Lead リード Ph	No. of loaded circuits 負荷回路数 Rows×turns	Basic load rating 基本定格荷重 Ca (kN)			Nut dimensions ナット寸法		
				Caged Ball SBN-V ボールリテーナ入り SBN-V DN160,000	BIF-V DN130,000	BNF-V DN130,000	Outer diameter 外径 D	Flange diameter フランジ径 D ₁	Overall length 全長 L ₁
				Offset preload オフセット予圧	Offset preload オフセット予圧				
#5010V	50	10	1.5	—	—	20.7	93	135	70
			2.5	—	—	32.1	93	135	73
			3	25.7	20.7	—	93	135	90
			3.5	—	—	42.9	93	135	83
			5	39.4	32.1	58.2	93	135	103
			7	52.8	42.9	77.8	93	135	123
			7.5	—	—	82.5	93	135	133
			10	71.6	58.2	105.7	93	135	163
#5012V	50	12	10.5	—	—	110.2	93	135	163
			1.5	—	—	28	100	146	75
			2.5	—	—	43.4	100	146	87
			3	34.7	28	—	100	146	99
			3.5	—	—	58	100	146	99
			5	53.6	43.4	78.8	100	146	123
			7	71.4	58	105.3	100	146	147
			7.5	—	—	111.7	100	146	159
#5016V	50	16	10	97.3	78.8	143	100	146	195
			10.5	—	—	149.1	100	146	195
			1.5	—	—	46.8	105	152	100
			2.5	—	—	72.6	105	152	116
			3	57.4	46.8	85	105	152	132
			3.5	—	—	239	107	152	132
			5	89	72.6	131.8	105	152	164
			7	120.3	97	176	107	152	196
#5020V	50	20	7.5	—	—	186.8	105	152	212
			10	161.6	131.8	239.3	105	152	260
			10.5	—	—	249.5	107	152	260
			1.5	—	—	46.7	105	152	121
			2.5	—	—	72.5	105	152	141
			3	57.2	46.7	84.8	105	152	161
#5020V	50	20	3.5	—	—	96.8	108	152	161
			5	88.7	72.5	131.6	105	152	201
			7	119.9	96.8	175.7	108	152	218

Ball Screw Contamination Protection Accessory: Advanced Dust Prevention Seal HH

ボールねじ防塵オプション：高防塵シール HH



Advanced dust prevention seal (cross section)
高防塵シール断面



Superior Dust Prevention

The newly developed seal removes foreign material and prevents it from getting inside the nut, reducing the risk of premature wear.

Superior grease retention

The oil seal enables better retention of grease inside the nut, ensuring proper long-term lubrication.

Low torque, low heat generation

Material improvements and a newly developed seal result in lower torque and less heat generation for greater overall accuracy.

優れた防塵性能

新開発のダストシールが外部からの異物を除去し、ナット内部への侵入を防ぎます。ボールねじの早期破損リスクを低減します。

優れたグリース保持能力

オイルシールの採用によって、ナット内部に封入しているグリースの保持性能が向上し、正常な潤滑状態を長期にわたって維持できます。

低トルク・低発熱

新素材と新開発のシール形状の採用によって、低トルク・低発熱を実現しました。ボールねじの高精度化に貢献できます。

Applicable models

Compatible with models SBN, SBK, and other precision ball screws. (Contact THK for details on other compatible models.)

対応形番

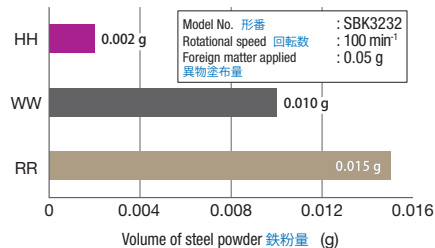
対応形番：SBN形、SBK形などの精密ボールねじに対応可能
(対応形番については、THKまでお問い合わせください。)

Dust Prevention Performance

80% less penetration of foreign matter compared wiper ring.

防塵性能比較

ワイパーリングと比べ、異物侵入量は1/5に低減。

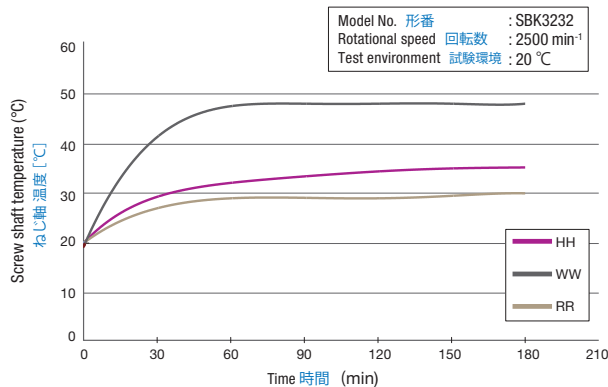


Heat generation

50% less heat generated compared to wiper ring.

ねじ軸発熱量比較

ワイパーリングと比べ、発熱量は1/2に低減。

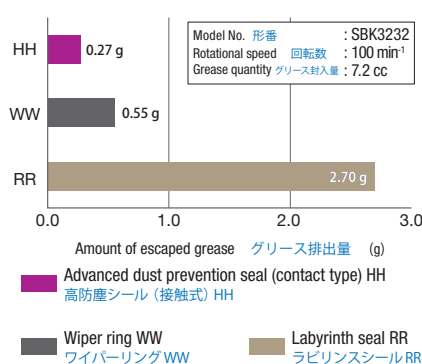


Grease Retention

50% less grease leakage compared to wiper ring.

グリース保持性能比較

ワイパーリングと比べ、グリース漏れ量は1/2に低減。

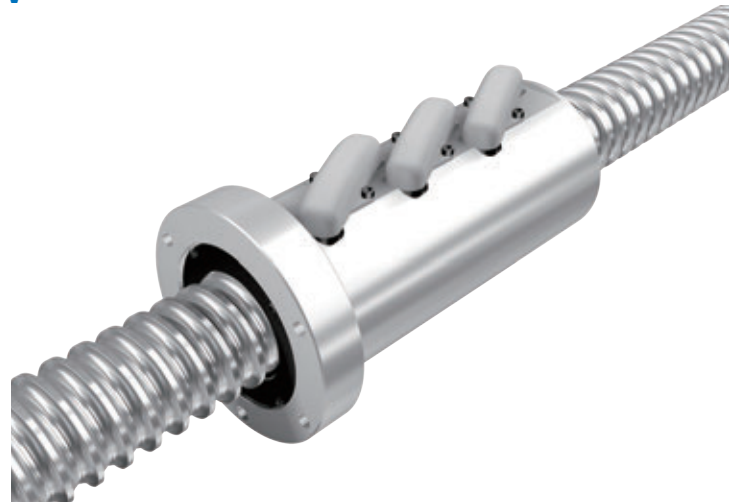
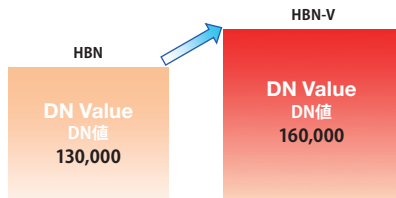


High-Load Caged Ball Screw Model HBN-V

ボールリテーナ入り高負荷ボールねじ HBN-V

High-load
高負荷

High-speed
高速



Improved high-speed performance

The new circulation method enables operation at higher speeds.
DN value: maximum 160,000

高速性能向上

新循環方式の採用による更なる高DN値の高速駆動が可能。
DN値最高160,000

Longer service life due to higher load ratings

The Model HBN-V has higher load ratings than the previous type by increasing the number of loaded circuits. This extends the rated life by 30% compared to previous products.

定格荷重向上による寿命延長

HBN-V形は、従来製品から負荷回路数を増やして定格荷重を向上させました。
これにより、製品寿命が従来製品に比べ30%延長します。

Low noise, acceptable running sound

The ball retainer eliminates the sound of balls colliding with one another, resulting in a quieter sound.

低騒音・好音質

ボールリテーナにより、ボール同士の衝突音がなく低騒音・好音質を実現。

Energy savings

Replacing the hydraulic drives of injection molding machines and press machines with electric drives contributes to cleaner equipment environments.

It also achieves energy savings by reducing the power consumption to 20-30%.

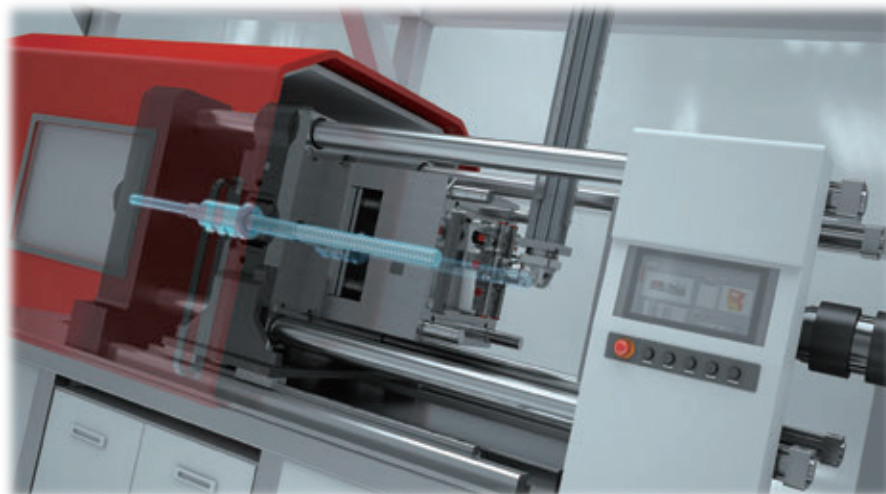
省エネ効果

射出成形機、プレス機の油圧駆動から電動化への置換えにより、装置のクリーン環境に貢献。

電力消費量も20-30%に低減し省エネを実現します。

Application Example: Injection Machine

使用例: 射出成型機

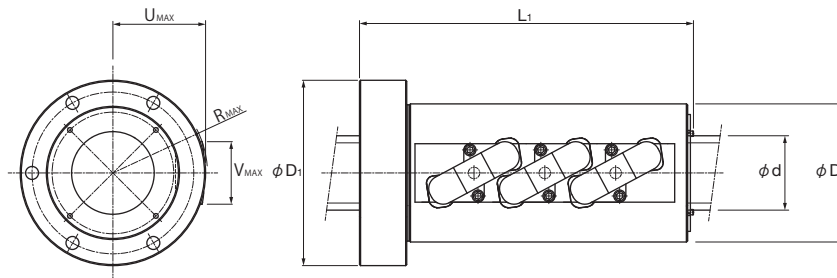


Dimensional Table

寸法表

Screw shaft outer diameter 50 mm to 80 mm

ねじ軸外径 50~80mm



Unit: mm 単位: mm

Model No. 呼び番号	Screw shaft outer diameter ねじ軸外径 d	Lead リード Ph	Basic dynamic load rating 動定格荷重 Ca(kN)	Basic static load rating 静定格荷重 Coa(kN)	Permissible load 許容荷重 Fp(kN)	Nut dimensions ナット寸					
						Outer diameter 外径 D	Flange diameter フランジ径 D1	Overall length 全長 L1	Umax	Vmax	Rmax
HBN5010V-7.5	50	10	189	506	71	75	109	143	50	48	52
HBN5012V-7.5	50	12	250	624	87	80	114	163	54	48	55
HBN5016V-7.5	50	16	410	902	126	95	129	213	64	48	65
HBN6316V-7.5	63	16	459	1134	159	105	139	213	71	57	71.5
HBN6316V-10.5	63	16	598	1544	216	105	139	261	71	57	71.5
HBN6320V-7.5	63	20	613	1410	197	117	157	257	78	57	79
HBN6325V-10.5	63	25	797	1920	269	117	157	377	78	57	79
HBN8016V-7.5	80	16	510	1440	202	120	154	219	79	70	80
HBN8016V-10.5	80	16	668	1970	276	120	154	267	79	70	80
HBN8020V-7.5	80	20	688	1787	250	130	170	257	86	69	87
HBN8020V-10.5	80	20	899	2442	342	130	170	317	86	69	87
HBN8025V-7.5	80	25	872	2135	299	145	185	315	95	68	95
HBN8025V-10.5	80	25	1139	2912	408	145	185	391	95	69	96

High-Load Caged Ball Screw Models HBN, SBKH

ボールリテーナ入り高負荷ボールねじ HBN, SBKH

High-load

高負荷

High-speed

高速

HBN/SBKH

DN Value
DN値
130,000



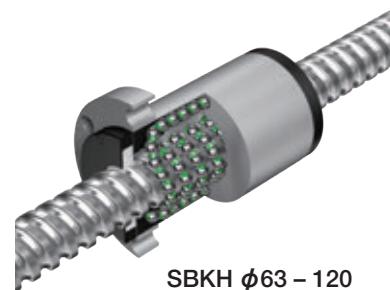
HBN $\phi 32 - 140$

Maximum DN Value

DN値最高

HBN32-63: 130,000

HBN80K-140K: 120,000



SBKH $\phi 63 - 120$

Maximum DN Value 130,000

DN値最高130,000

Superb high-speed response

The design compatible with high DN values enables high-speed drive.
DN value: maximum HBN:130,000 / HBN-K:120,000

優れた高速性

高DN値対応設計による高速駆動が可能。
DN値最高HBN:130,000/HBN-K:120,000

High thrust force achieved by a load-resistant structure

The optimal design of the raceway shape achieves the high thrust force necessary for injection molding and press machines.

耐荷重構成による高推力

転動溝形状の最適設計により、射出成形機、プレス機で必要とする高推力を発揮。

Low noise, acceptable running sound

The ball retainer eliminates the sound of balls colliding with one another, resulting in a quieter sound.

低騒音・好音質

ボールリテーナにより、ボール同士の衝突音がなく低騒音・好音質を実現。

Energy savings

Replacing the hydraulic drives of injection molding machines and press machines with electric drives contributes to cleaner equipment environments.

It also achieves energy savings by reducing the power consumption to 20-30% .

省エネ効果

射出成形機、プレス機の油圧駆動から電動化への置換えにより、装置のクリーン環境に貢献。
電力消費量も20~30%に低減し省エネを実現します。

■ Lineup ラインナップ

Screw shaft outer diameter ねじ軸外径 d	Lead リード (mm)										
	10	12	16	20	25	32	35	40	42	50	60
$\phi 32$	●										
$\phi 36$	●	●									
$\phi 40$	●	●									
$\phi 63$						★	●○★		●○	●○	
$\phi 80$								●○		●○★	★
$\phi 100$			●○	●○	●○					★	★
$\phi 120$				●○	●○						★
$\phi 140$					●○	●○		●○			

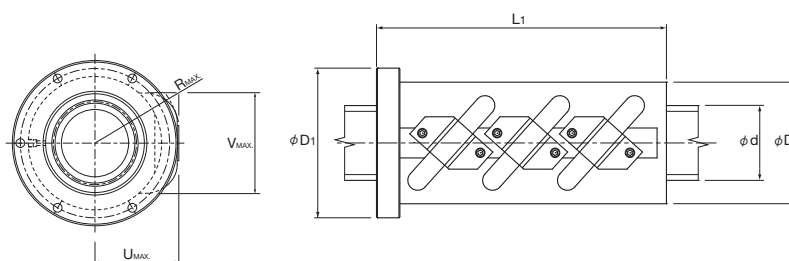
● : HBN ○ : HBN-K ★ : SBKH

Dimensional Table (HBN)

寸法表 [HBN]

Screw shaft outer diameter 32 mm to 140 mm

ねじ軸外径 32~140mm



Unit: mm 単位: mm

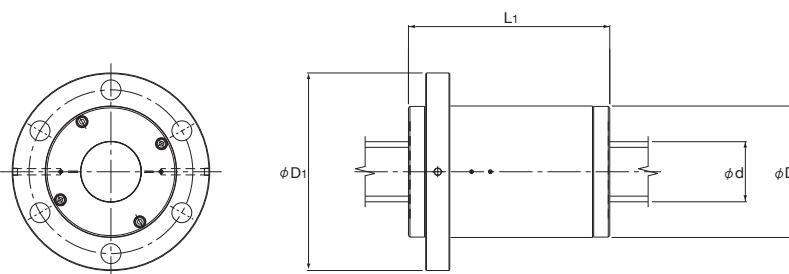
Model No. 呼び形番	Screw shaft outer diameter ねじ軸外径 d	Lead リード Ph	Basic dynamic load rating 動定格荷重 Ca(kN)	Basic static load rating 静定格荷重 Coa(kN)	Permissible load 許容荷重 Fp(kN)	Nut dimensions ナット寸法					
						Outer diameter 外径 D	Flange diameter フランジ径 D1	Overall length 全長 L1	Umax	Vmax	Rmax
HBN3210-5	32	10	102.9	191.3	31.9	58	85	98	43	46	43.5
HBN3610-5	36	10	108.2	220.4	33.5	62	89	98	45	50	46
HBN3612-5	36	12	141.1	267.7	43.7	66	100	116	49	52.5	50
HBN4010-7.5	40	10	162.6	366	50.4	66	100	135	46.5	54	48
HBN4012-7.5	40	12	212.4	441.6	65.8	70	104	152	51	56	52
HBN6335K-10	63	35	548	1376	169	105	139	271	70.5	82	73
HBN6335K-15	63	35	776	2064	240	105	139	376	70.5	82	73
HBN6342K-3	63	42	259	526	80	117	157	156	79	84	80
HBN6350K-10	63	50	719	1723	222	117	157	358	78.5	84	80
HBN8040K-5	80	40	451	1105	154	134	174	185	88	102	93
HBN8050K-15	80	50	1171	3376	472	134	174	519	89	101	90
HBN10016K-10	100	16	673	2244	314	150	190	263	92	119	98.5
HBN10020K-7	100	20	674	1956	273	154	194	232	97	128	105
HBN10020K-7.5	100	20	717	2107	295	154	194	252	96	123	101
HBN10020K-10	100	20	919	2810	393	154	194	312	96	123	101
HBN10020K-10.5	100	20	955	2934	410	154	194	312	97	128	105
HBN10020K-12.5	100	20	1114	3512	491	154	194	372	96	123	101
HBN10025K-7	100	25	866	2355	329	167	207	297	105	127	109.5
HBN10025K-7.5	100	25	921	2532	354	167	207	322	105	127	109.5
HBN10025K-10	100	25	1180	3376	472	167	207	397	105	127	109.5
HBN10025K-10.5	100	25	1227	3533	494	167	207	397	105	127	109.5
HBN10025K-12.5	100	25	1429	4220	590	167	207	472	105	127	109.5
HBN10025K-14	100	25	1572	4711	659	167	207	497	105	127	109.5
HBN12020K-10	120	20	995	3389	474	190	230	322	110	142	117
HBN12025K-7.5	120	25	996	3034	424	195	235	322	115	147	122
HBN12025K-10	120	25	1276	4045	566	195	235	397	115	147	122
HBN12025K-12.5	120	25	1546	5057	708	195	235	472	115	147	122
HBN12025K-14	120	25	1698	5632	788	195	235	497	115	147	122
HBN14025K-10	140	25	1360	4714	660	230	290	397	140	175	148
HBN14032K-10.5	140	32	2089	6510	911	230	290	520	147	175	154
HBN14040K-7.5	140	40	1058	3527	493	230	290	470	140	170	140

Dimensional Table (SBKH)

寸法表 [SBKH]

Screw shaft outer diameter 63 mm to 120 mm

ねじ軸外径 63~120mm



Unit: mm 単位: mm

Model No. 呼び形番	Screw shaft outer diameter ねじ軸外径 d	Lead リード Ph	Basic dynamic load rating 動定格荷重 Ca(kN)	Basic static load rating 静定格荷重 Coa(kN)	Permissible load 許容荷重 Fp(kN)	Nut dimensions ナット寸法		
						Outer diameter 外径 D	Flange diameter フランジ径 D1	Overall length 全長 L1
SBKH6332-3.8	63	32	304	631	88	140	205	190
SBKH6340-7.6	63	40	413	967	135	127	191	209
SBKH8050-7.6	80	50	777	1788	250	175	253	268
SBKH8060-7.6	80	60	780	1824	255	175	253	306
SBKH10050-7.6	100	50	876	2401	336	195	273	269
SBKH10060-7.6	100	60	880	2294	321	195	273	307
SBKH12060-7.6	120	60	962	2941	411	210	288	308

Rolled Ball Screw Model BTK-V

転造ボールねじ BTK-V

High-speed

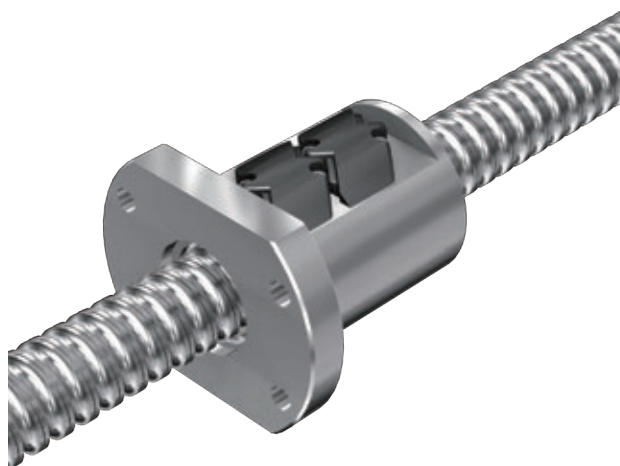
高速

BTK-V

BTK

DN Value
DN値
50,000

DN Value
DN値
100,000



DN Value 100,000

High DN value for high-speed drive with a rolled ball screw.

DN値 100,000

高いDN値を実現し、転造ボールねじにおいて高速駆動に対応。

Stable torque

The new circulation method decreases torque fluctuation for smooth operation.

安定したトルク

循環部品の最適化により、トルク変動が小さく、滑らかな動作を実現。

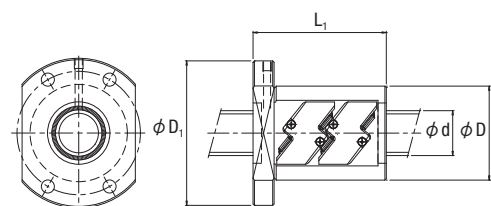
Dimensional Table

寸法表

Unit: mm 単位: mm

Screw shaft outer diameter 10 mm to 50 mm

ねじ軸外径 10~50mm



Model No. 呼び形番	Screw shaft outer diameter ねじ軸外径 d	Lead リード Ph	Basic load rating 基本定格荷重		Nut dimensions ナット寸法		
			Ca(kN)	Coa(kN)	Outer diameter 外径 D	Flange diameter フランジ径 D1	Overall length 全長 L1
BTK1006V-2.6	10	6	2.8	4.9	26	42	36
BTK1208V-2.6	12	8	3.8	6.8	29	45	44
BTK1404V-3.6	14	4	5.5	11.5	31	50	40
BTK1405V-2.6		5	5	11.4	32	50	40
BTK1605V-2.6	16	5	5.4	13.3	34	54	40
BTK1808V-3.6	18	8	13.1	31	50	80	61
BTK2005V-2.6	20	5	6	16.5	40	60	40
BTK2010V-2.6		10	10.6	25.1	52	82	61
BTK2505V-2.6	25	5	6.7	20.8	43	67	40
BTK2510V-5.3		10	31.2	83.7	60	96	98
BTK2806V-2.6	28	6	7	23.4	50	80	47
BTK2806V-5.3			12.8	46.8	50	80	65
BTK3210V-2.6	32	10	19.8	53.8	67	103	68
BTK3210V-5.3			36	107.5	67	103	98
BTK3610V-2.6	36	10	20.8	59.8	70	110	70
BTK3610V-5.3			37.8	118.7	70	110	100
BTK4010V-5.3	40	10	40.3	134.9	76	116	100
BTK4512V-5.3	45	12	49.5	169	82	128	118
BTK5016V-5.3	50	16	93.8	315.2	102	162	145

DN values in the table are 100,000.

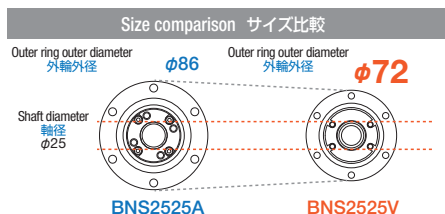
本表掲載の DN 値は、100,000 です。

Low Inertia Ball Screw/Spline BNS-V

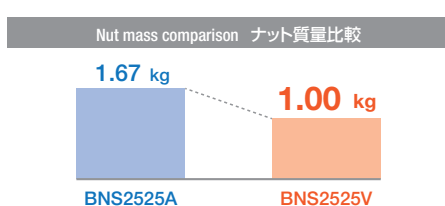
低慣性ボールねじ・スプライン BNS-V

Lightweight
軽量化

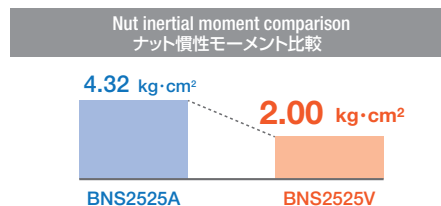
Compact
コンパクト



Lightweight
軽量化



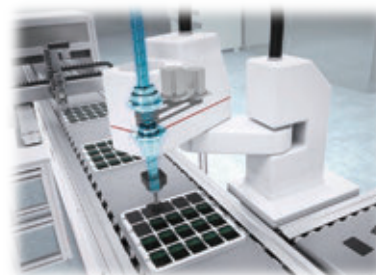
Low Inertia
低慣性



The BNS-V is a composite product in which a ball screw groove and a ball spline groove are provided on a single shaft, and dedicated support bearings are positioned on the outer periphery of the ball screw nut and spline outer cylinder. Moreover, we adopted a smaller ball screw nut and spline outer cylinder than conventional products, achieving a compact outer diameter for the product.

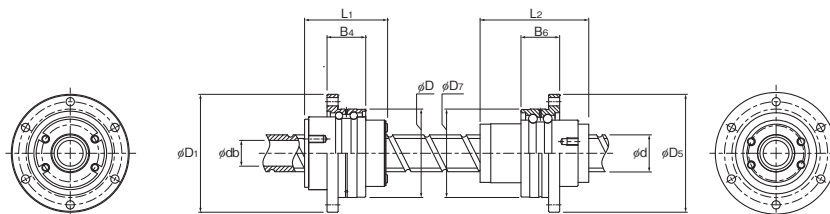
BNS-Vは、1本の軸にボールねじ溝とボールスプライン溝を設け、ボールねじナット、スプライン外筒の外周に専用のサポートベアリングをダイレクトに組み込んだ複合製品です。また、ボールねじナット、スプライン外筒に従来よりコンパクト化したタイプを採用し、製品全体の外径をコンパクト化しました。

Application Example: SCARA Robot
使用例: スカルロボット



Dimensional Table 寸法表

Screw shaft outer diameter 16 mm
to 25 mm
ねじ軸外径 16~25mm



Ball screw unit
ボールねじ部

Model No. 呼び形番	Screw shaft ねじ軸			Ball screw dimensions ボールねじ寸法							Support bearing サポートベアリング		Nut inertial moment ナット慣性モーメント	Screw shaft inertial moment 軸慣性モーメント	Nut mass ナット質量	Shaft mass 軸質量
	Outer diameter 外径	Inner diameter 内径	Lead リード	Basic load rating 基本定格荷重		Outer diameter 外径	Flange diameter フランジ径	Overall length 全長	Basic load rating 基本定格荷重							
	d	db	Ph	Ca	Coa	D	D1	L1	B4	Ca	Coa					
				(kN)	(kN)					(kN)	(kN)	(kg・cm ²)	(kg・cm ² /mm)	(kg)	(kg/m)	
BNS1616V	16	11	16	4.6	6.8	42	54	38	18	6.7	8.6	0.20	3.21×10 ⁻⁴	0.23	0.8	
BNS2020V	20	14	20	7.3	11.7	48	64	45	21	7.3	10.6	0.65	8.04×10 ⁻⁴	0.38	1.21	
BNS2525V	25	18	25	8	14.4	56	72	55	21	9.7	13.4	1.02	1.91×10 ⁻³	0.51	1.79	

Ball spline unit
ボールスプライン部

Ball spline dimensions ボールスプライン寸法						Support bearing サポートベアリング		Nut inertial moment 外筒慣性モーメント	Nut mass ナット質量
Basic load rating 基本定格荷重		Outer diameter 外径	Flange diameter フランジ径	Overall length 全長	Basic load rating 基本定格荷重				
C	C ₀	D ₇	D ₅	L ₂	B ₆	C	C ₀		
(kN)	(kN)					(kN)	(kN)	(kg·cm ²)	(kg)
8.4	13.4	42	54	46.5	18	5.2	5.1	0.18	0.19
10.5	18.6	48	64	59	21	6.7	6.4	0.42	0.33
15.9	26.2	56	72	67	21	7.4	7.8	0.98	0.49

Double-Row Angular Contact Roller Ring Model RW

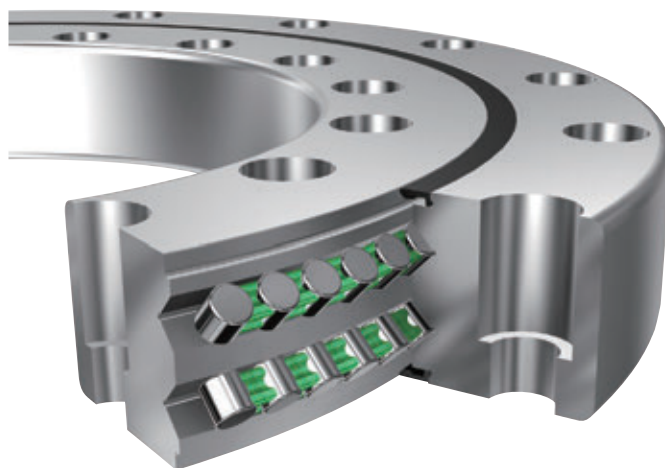
複列アンギュラローラーリング RW

High rigidity

高剛性

High accuracy

高精度



Lower torque

The Model RW adopts small-diameter rollers to reduce the friction coefficient and achieve lower torque and low heat generation.

低トルク化を実現

RW形は小径ローラーの採用により、摩擦係数を低減し低トルク化、低昇温特性を実現しています。

High rigidity and high accuracy

The inner ring and the outer ring of the Model RW have an integrated structure to achieve high part rigidity. Since the inner ring and the outer ring are machined to have mounting bolt holes, and the size and number of the mounting bolt holes are optimally designed, the deformation of the raceway resulting from the mounting can be minimized, and stable rotational performance can be achieved. In addition, the increased machining accuracy results in high rotational accuracy.

高剛性、高精度を実現

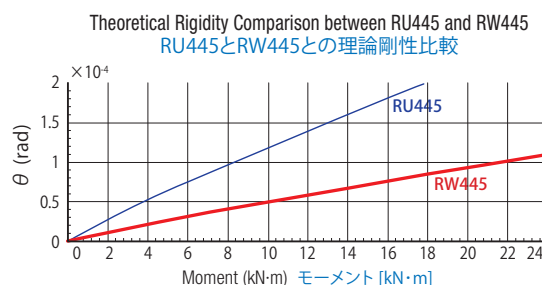
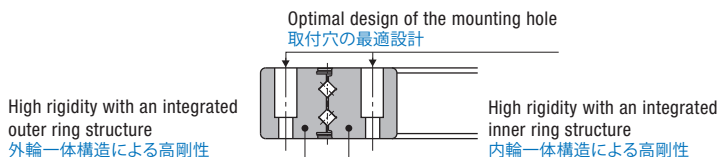
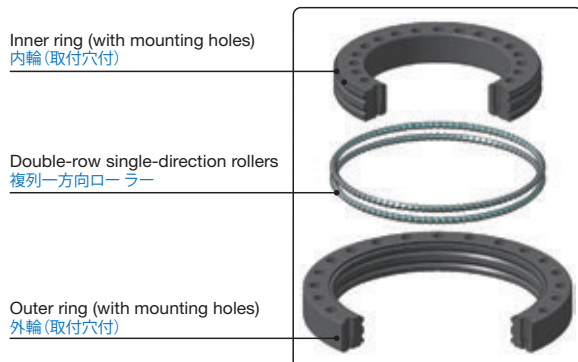
RW形の内輪と外輪は一体構造として高い部品剛性を実現しています。内・外輪には、取付け用ボルト穴が加工されており、取付け用ボルト穴のサイズ・本数を最適設計することで、取付けによる転動面の変形を抑え、安定した回転性能を得ることが出来ます。また、加工精度の向上により、高い回転精度に対応が可能です。

Increased rigidity

Despite having almost the same dimensions as the previous Cross-Roller Ring Model RU, the Model RW has twice the rows of raceways of the Model RU and has a DB structure to increase the rigidity.

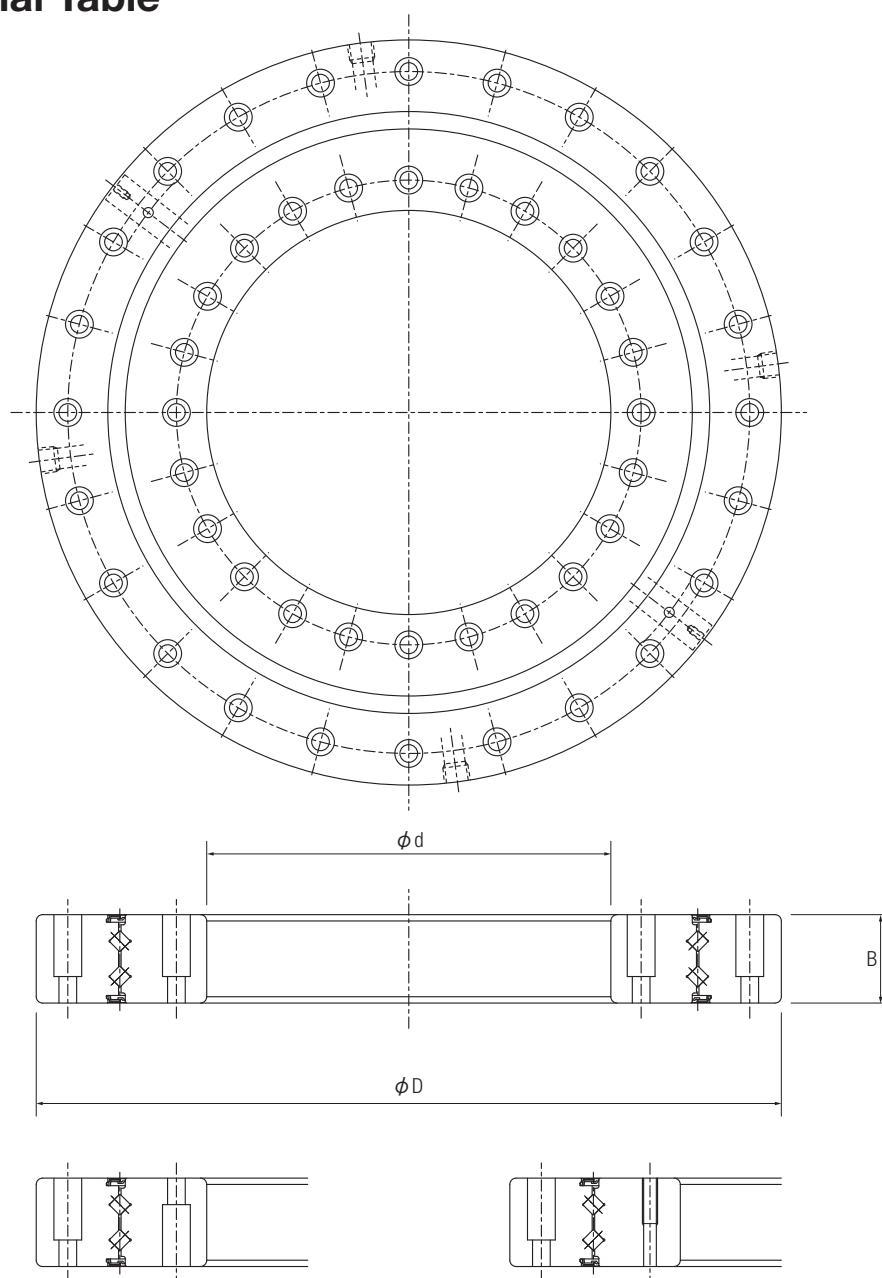
剛性向上

RW形は従来のクロスローラーリングRU形とほぼ同寸法でありながら、RU形に対して、軌道列を2倍、DB構造とし剛性を向上しています。



Dimensional Table

寸法表



Unit: mm 単位: mm

Model No. 呼び形番		Inner diameter 内径 d	Outer diameter 外径 D	Width 幅 B	Basic load rating (Radial) 基本定格荷重 (ラジアル)	
					C(kN)	Co(kN)
Standard dimension 標準寸法	RW228	160	295	35	58.4	158
	RW297	210	380	40	101	287
	RW445	350	540	50	214	647
Semi-standard dimension 準標準寸法	RW145	100	185	20	25.7	62.9
	RW164	120	210	30	44.5	99.8
	RW195	150	240	30	53.1	133
	RW230	180	280	40	81.6	198
	RW250	200	300	40	89.7	230
	RW323	260	385	50	176	449
	RW388	325	450	50	197	551
	RW463	395	525	50	214	660
	RW530	460	600	50	231	762
	RW665	580	750	60	329	1100
	RW760	650	870	60	361	1299

Cross-Roller Ring Model RU

クロスローラーリング RU

Easy to install

簡単組付



Easy installation

It is possible to reduce the installation time of the housing and shaft because this cross-roller ring has an integrated flange with mounting holes.

容易な組付け

取付穴付きフランジ一体型のため、ハウジング・軸への組付け工数削減が可能。

Fewer parts

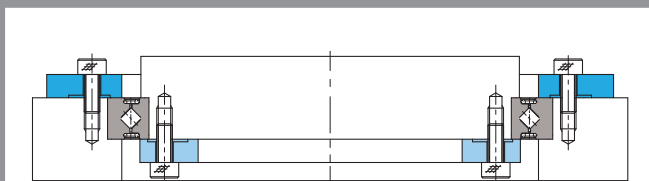
The mounting holes in the inner and outer rings can be used for mounting directly on the device, eliminating the need for a presser flange and reducing both design time and the number of components.

部品点数削減を実現

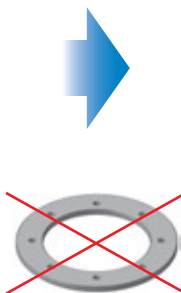
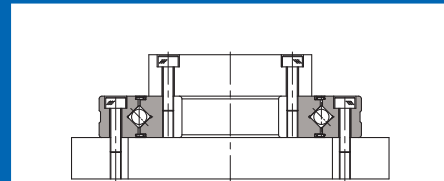
内・外輪に設けられた取付穴を利用して装置に直接固定することが可能。おさえフランジ等の部品が不要になり、設計工数・部品点数の削減が可能。

Parts comparison 部品点数比較

RB/RA Assembly Example
RB/RA 組付例



RU Assembly Example
RU 組付例



Presser flange not required for the inner ring and outer ring
内輪・外輪おさえフランジが不要

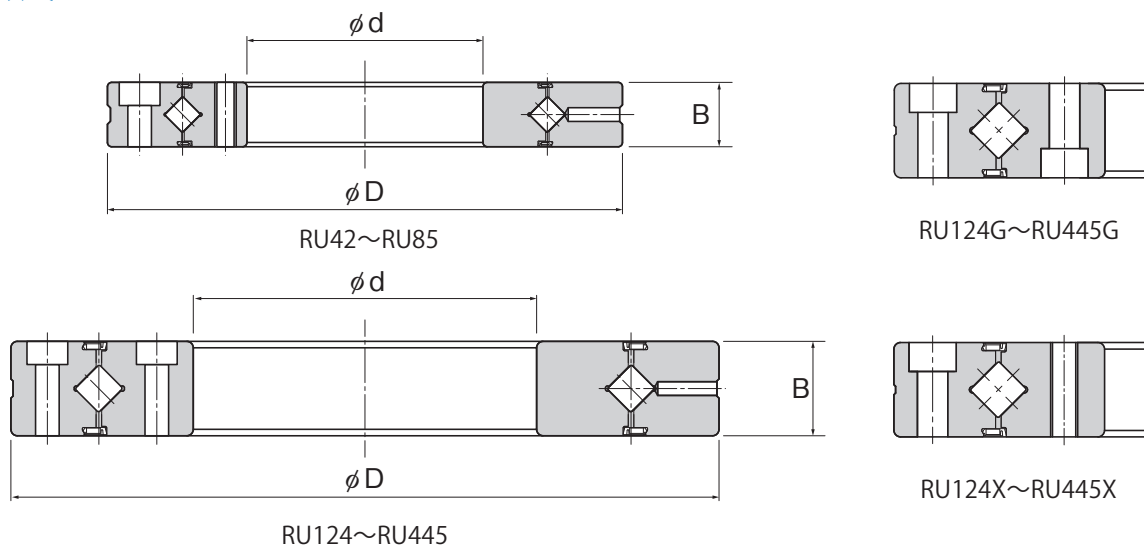
Application Example: Machine Tool

使用例: 工作機械



Dimensional Table

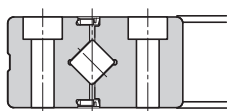
寸法表



Unit: mm 単位: mm

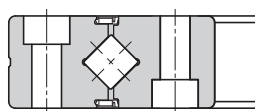
Shaft diameter 軸径	Model No. 呼び形番	Inner diameter 内径 d	Outer diameter 外径 D	Width 幅 B	Basic load rating (radial) 基本定格荷重 (ラジアル)		Mass 質量 (kg)
					C (kN)	C ₀ (kN)	
20	RU 42	20	70	12	7.35	8.35	0.29
35	RU 66	35	95	15	17.5	22.3	0.62
55	RU 85	55	120	15	20.3	29.5	1
80	RU 124	80	165	22	33.1	50.9	2.6
90	RU 148	90	210	25	49.1	76.8	4.9
115	RU 178	115	240	28	80.3	135	6.8
160	RU 228	160	295	35	104	173	11.4
210	RU 297	210	380	40	156	281	21.3
350	RU 445	350	540	45	222	473	35.4

Mounting holes 取付穴



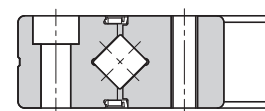
The counterbore holes of the inner and outer rings face the same direction
内輪・外輪のザグリ穴が同一方向

RU124~RU445



The counterbore holes of the inner and outer rings face the opposite direction
内輪・外輪のザグリ穴が逆向き

RU124G~RU445G



Inner ring tapped hole (through hole)
内輪タップ穴(通シ穴)

RU124X~RU445X

Caged Ball LM Guide Actuator Model SKR

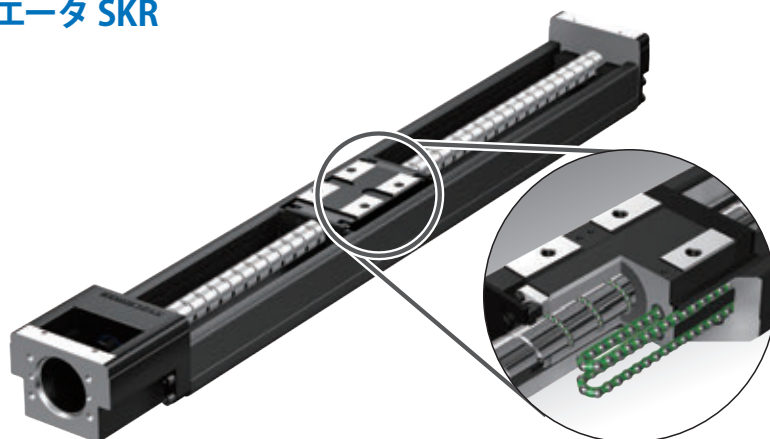
ボールリテーナ入り LM ガイドアクチュエータ SKR

High rigidity

高剛性

High accuracy

高精度



High rigidity

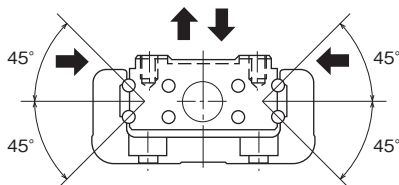
The use of a steel outer rail with a cross-sectional U-shape enables it to receive larger moments. In addition, the highly rigid actuator eliminates the need for support guides, enabling a more compact design.

高剛性

U字形断面形状の鋼製アウタレール採用により、大きなモーメントを受けることができます。また、アクチュエータ単体の剛性が高いため、補助ガイドを使用しないコンパクトな設計が可能です。

4-way equal load

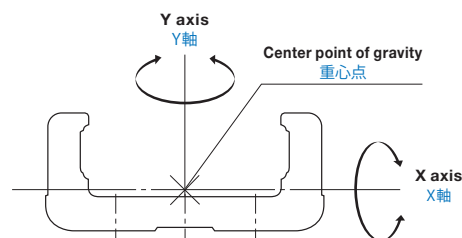
4方向等荷重



Load Capacity and Contact Angle of Model SKR
SKRの負荷能力と接触角

High rigidity

高剛性



Cross Section of the Outer Rail
アウタレール断面図

Basic specifications

基本仕様

Model 形番	Ball screw lead ボールねじリード (mm)	Stroke ストローク (mm)	Maximum load capacity ¹ 最大可搬質量 ^{*1} (kg)		Maximum speed ² 最高速度 ^{*2} (mm/s)
			Horizontal 水平	Vertical 垂直	
SKR20	1	30 ~ 130	12.5	3	100
	6		12.5	6	600
SKR26	2	60 ~ 210	27.5	14	200
	6		27.5	7	600
SKR33	6	45 ~ 595	43.5	19	390 ~ 600
	10		34.5	12	650 ~ 1000
	20		21	6	1270 ~ 2000
SKR46	10	190 ~ 790	96	23	430 ~ 1000
	20		90	18	840 ~ 2000
	20		118	37	520 ~ 1100
SKR55	30	800 ~ 1200	80	23	780 ~ 1650
	40		43	15	1030 ~ 2160
	20		147	29	450 ~ 1470
SKR65	25	790 ~ 1490	93	24	550 ~ 1810
	30		62	19	670 ~ 2210
	50		18	7	1100 ~ 3000
	50		18	7	1100 ~ 3000

¹ The maximum load capacity is calculated under the rated speed and the following acceleration/deceleration speed:

Ball screw lead less than 10 mm=0.15G. / Ball screw lead equals 10 mm=0.3G. / Ball screw lead is 20 mm or more=0.5G (0.3G for SKR6550 only).

² The maximum speed is the value restricted by the motor rotational speed (at 6,000 min⁻¹), or by the permissible rotational speed of the ball screw.

*1 最大可搬質量は、定格速度時、下記加減速度時の質量です。

リード 10mm 未満は 0.15G/ リード 10mm は 0.3G/ リード 20mm 以上は 0.5G (ただし SKR6550 は 0.3G)

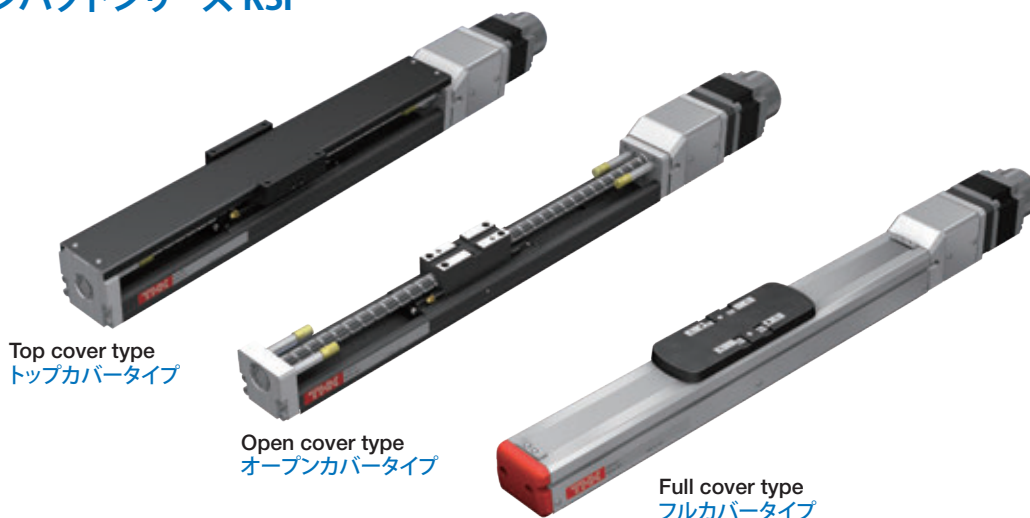
*2 最高速度は、モータの回転数 (6000min⁻¹) 時の速度、もしくはボールねじの許容回転数によって制限される速度です。

Electric Actuator Compact Series Model KSF

電動アクチュエータ コンパクトシリーズ KSF

High acceleration and deceleration
高加減速

Long stroke
ロングストローク



Top cover type
トップカバータイプ

Open cover type
オープンカバータイプ

Full cover type
フルカバータイプ

High speed and high-acceleration

The larger lead of the ball screw achieves a maximum speed of 2,500 mm/s. Using a larger motor makes high-acceleration conveyance possible. (Up to 4G)

高速・高加減速

ボールねじの大リード化により、最高速度2500[mm/s]を実現。さらに適用モータを大きくすることで高加減速な搬送を可能にしています。(最大4G)

Higher rated power of the motor

By increasing the diameter of the ball screw and shaft end, a high-rated motor can be used. This allows high speeds as well as high-acceleration and long strokes.

適用モータ定格出力アップ

ボールねじ軸、端末部を大径化することで、定格出力の大きいモータが使用可能になりました。これにより高速・高加減速・ロングストロークが可能になりました。

Motor rated output モータ定格出力

Model 形番	KSF4	KSF5	KSF6	KSF8	KSF10
Motor rated output (W) モータ定格出力 [W]	100	100	200	400	750

Basic specifications

基本仕様

Model 形番	Ball screw lead ボールねじリード (mm)	stroke ストローク (mm)	Maximum load capacity ^{1,2} 最大可搬質量 ^{※1※2} (kg)		Maximum speed ³ 最高速度 ^{※3} (mm/s)
			Horizontal 水平	Vertical 垂直	
KSF4U/KSF4	10	50 ~ 900	19	8.5	210 ~ 830
	16		14	7	340 ~ 1060
KSF5T/KSF5U/KSF5	10	50 ~ 900	26	12.5	280 ~ 830
	20		7.5	6	570 ~ 1330
KSF6T/KSF6U/KSF6	20	50 ~ 1300	42	12	320 ~ 1000
	30		20.5	7.5	480 ~ 1500
KSF8T/KSF8U/KSF8	20	100 ~ 1500	83.5	23.5	320 ~ 1000
	40		19	10.5	650 ~ 2000
KSF10T/KSF10U/KSF10	25	100 ~ 1500	118.5	33.5	510 ~ 1250
	50		40	14.5	1030 ~ 2500

¹ The maximum load capacity is calculated under the rated speed and acceleration/deceleration rate of 0.5 G (0.3 G for a lead less than 20 mm).

² Value with fully enclosed specification.

³ The maximum speed is the value restricted by the motor rotational speed (at 3,000 min⁻¹), or by the permissible rotational speed of the ball screw.

※ 1 最大可搬質量は、定格速度時、加減速度 0.5G (リード 20mm 未満は 0.3G) の質量です。

※ 2 フルカバー仕様の値です。

※ 3 最高速度は、モータの回転数 3000min⁻¹ 時の速度、もしくはアクチュエータの許容速度によって制限される速度です。

NEW

LM Guide Actuator with Right/Left Ball Screw KR-RL

LM ガイドアクチュエータ左右ねじ仕様 KR-RL

Compact
コンパクト

High rigidity
高剛性



Right/left threads used for the driving element

One motor performs both the "open" and "close" operations. It can be used in a wide range of applications, such as gripping, measuring, and positioning.

駆動部に左右ねじを採用

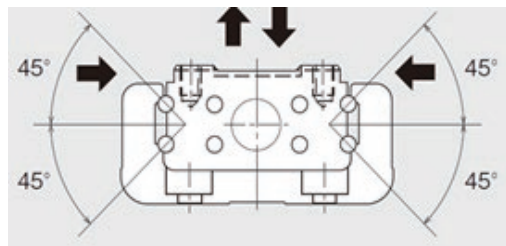
「開く」「閉じる」動作をモータ1つで実現。把持、計測、位置決め等の幅広い用途で使用可能です。

Can be used in any orientation

Each row of balls in the linear motion guide is arranged at a 45° contact angle, achieving the same load rating in 4 directions (radial, reverse-radial, and horizontal directions) acting on the inner block. It can be used in any orientation. Optimal for end effectors of robot arms that move freely.

全方向使用可能

直動案内内部の各ボール列を接触角45°で配置することで、インナブロックに作用する4方向(ラジアル方向、逆ラジアル方向、横方向)に対する、同一定格荷重の性能を実現しました。全方向あらゆる姿勢で使用可能です。自由に動くロボットアームのエンドエフェクトに最適です。



Basic specifications

基本仕様

Model 形番	Ball screw lead ボールねじリード (mm)	Stroke ストローク (mm)		Estimated motor capacity 想定モータ容量 (W)	Rated thrust 定格推力 (N)	Static permissible moment 静的許容モーメント (N・m)					
		A Type block ブロックAタイプ	C Type block ブロックCタイプ			A Type block ブロックAタイプ			C Type block ブロックCタイプ		
						M _A	M _B	M _C	M _A	M _B	M _C
KR15	1	25 ～ 75	-	30	537	12.1	12.1	38	-		
	2				268						
KR20	1	30 ～ 55	-	50	899	31	31	83	-		
	6				149						
KR26	2	59 ～ 84	-	50	449	84	84	208	-		
	6				149						
KR30H	6	51 ～ 251	46 ～ 271	100	299	166	166	428	44	44	214
	10				179						
KR33	6	48 ～ 248	48 ～ 273	100	299	166	166	428	44	44	214
	10				179						
KR45H	10	81 ～ 331	61 ～ 361	200	361	486	486	925	130	130	463
				400	718						
	20			200	180						
				400	359						
KR46	10	96 ～ 321	51 ～ 351	200	361	547	547	1400	149	149	700
				400	718						
	20			200	180						
				400	359						
KR55	20	112 ～ 662	-	400	359	870	870	2280	-		
				750	675						
KR65	25	100 ～ 650	-	750	540	1300	1300	3920	-		

* Rated thrust values are restricted by the rated torque of the motor or permissible input torque.

※ 定格推力は、モータの定格トルク、もしくは許容入力トルクによって制限される値です。

Electric Actuator Lightweight Series Model ALK

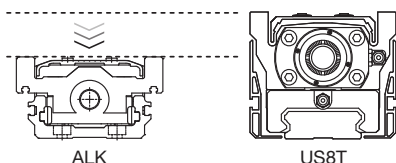
電動アクチュエータ 軽量シリーズ ALK

Lightweight

軽量

Compact

コンパクト



Note) Comparison against a product with a 100 W motor
注) モータ100W仕様製品と比較した場合



Compact and lightweight structure

Compared to THK actuators that use motors with the same rated output, such as when comparing the ALK30 and US8T, the cross-sectional dimensions of the ALK are approximately 35% more compact. The weight is up to 49%* lighter than equivalent THK products with a steel base.

*This varies by model and stroke.

Motors from any company can be installed as needed

Based on the application, you can choose either a low-cost stepper motor or a high-performance servo motor. Intermediate flanges are available for mounting various types of motors to the ALK. You can employ the type of control you are used to.

Service life can be calculated

The LM guide and ball screws are made of steel material, letting you calculate the operational lifespan based on usage conditions.

コンパクト・軽量構造

同じ定格出力のモータを使用する当社アクチュエータと比較した場合、ALK30とUS8Tの比較で、断面寸法は約35%のコンパクト化を実現しました。当社鉄ベース同等製品と比較した場合、最大49%※の軽量化を実現しました。

※ 形番やストロークによって異なります。

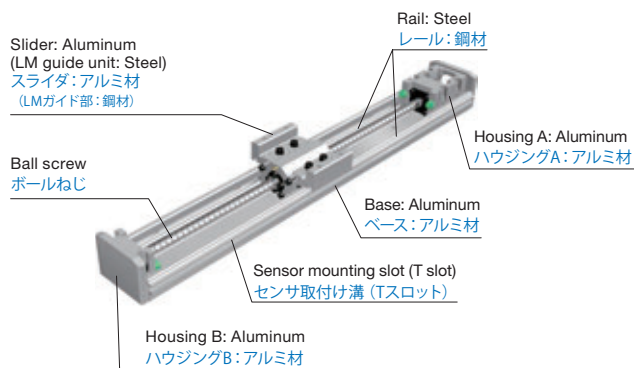
用途に応じた各種モータを取付け可能

リーズナブルなステッピングモータと高性能なサーボモータを用途に応じて選択可能です。ALKは各種モータが取り付けられるよう中間フランジを用意しております。お客様の使い慣れた制御で使用可能です。

寿命計算が可能

LMガイド、ボールねじは鋼材で構成されているため、使用条件に合わせて走行寿命が算出可能です。

ALK External Structure (No Cover) ALK カバーなし外観構造



Basic specifications 基本仕様

Unit: mm 単位: mm

Model 形番	Stroke ストローク	LM Guide Unit LMガイド部		Ball screw unit ボールねじ部		Mass* 質量*
		Basic dynamic load rating 基本動定格荷重 C (kN)	Basic static load rating 基本静定格荷重 C ₀ (kN)	Basic dynamic load rating 基本動定格荷重 C _a (kN)	Basic static load rating 基本静定格荷重 C _{0a} (kN)	
ALK2006A	30, 80, 130	2.38	2.97	1.06	1.61	0.5
ALK2606A	60, 110, 160, 210	4.63	6	2.39	3.9	1.08
ALK3006A	50, 100, 200, 300, 400, 500	6.92	8.43	2.8	5.1	2.4
ALK3010A				2.1	3.9	
ALK4510A	200, 300, 400, 500, 600, 700, 800	13.18	17.54	3.02	5.4	6.8
ALK4520A				2.92	5.72	

* This is the mass with the maximum stroke.

※最大ストローク時の質量です。

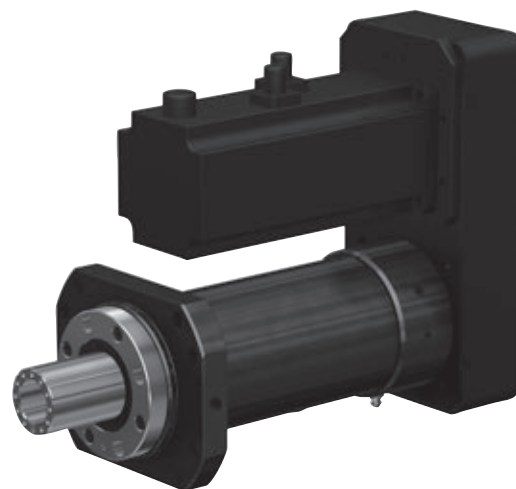
Electric Actuator Press Series Model PC

電動アクチュエータ プレスシリーズ PC

Compact
コンパクト

High rigidity
高剛性

High accuracy
高精度



Compact structure

The overall length is reduced by approx. 30% from our previous model (at a stroke of 50 mm). The structural integration of the precision ball screw nut and the ball spline shaft substantially shortens the overall length, enabling more compact machine designs.

Configured for compressive load capacity

The adoption of a special bearing arrangement, etc. achieves a structure strong against compressive loads.

High applied load

A high applied load is achieved by maximizing the diameter of the ball screw shaft and increasing the number of loaded circuits.

High rigidity

Using the Model LF ball spline for the guide eliminates clearance to allow smooth motion and ensures a highly rigid guide.

High-accuracy feed

Use of a precision ball screw for the feeding mechanism ensures high feed accuracy.

コンパクト構造

全長を当社比で約30%サイズダウン(ストローク50mm時)。精密ボールねじのナットとボールスプライン軸を一体構造とする事で、全長の大幅短縮を実現し、装置の省スペース化に貢献します。

耐圧縮荷重に特化した構造

ベアリング配列等、圧縮荷重に強い構造としています。

高負荷荷重

ボールねじ軸径を最大限に太くし、負荷回路数を多くすることで、高負荷荷重を実現しています。

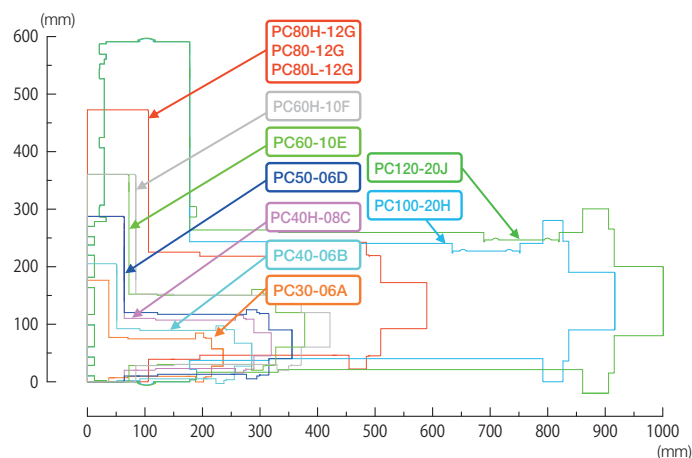
高剛性

案内にはボールスプラインLF形を採用しているため、すきまがなく軽く動き、剛性の高い案内が得られます。

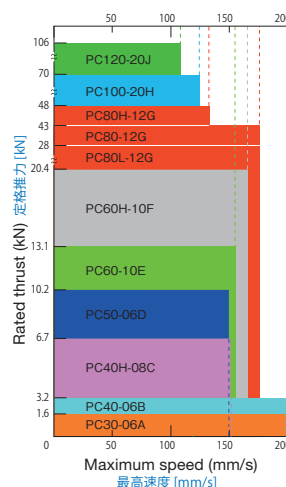
高精度送り

送り機構には精密ボールねじを採用しているため、高い送り精度が得られます。

External size by model
外観サイズ 一覧



Velocity and thrust by model
速度-推力 一覧



Servo press actuator Press Series Model DSP

NEW

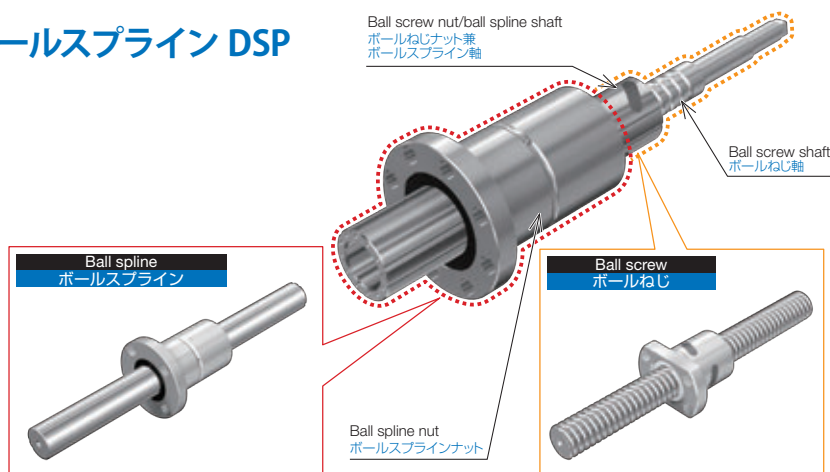
プレスシリーズ ボールねじ一体型ボールスプライン DSP

Space saving structure

省スペース構造

Quick installation

組付け工数削減



Combined drive component and linear motion guide

High thrust is transmitted with smooth motion by combining a ball spline, which serves as a linear motion guide, with a ball screw, which serves as the driving force.

Compact structure

Combining the drive force and linear motion guide into one unit enables a more compact structure than those of conventional products.

Fewer components, quicker installation

There are fewer components, which reduces installation and component processing time and improves equipment fabrication efficiency.

駆動と直動案内の一体構造

直動案内のボールスプラインと駆動源であるボールねじの一体化構造により滑らかな動きで大きな推力を伝達します。

省スペース構造

駆動と直動案内が一体化しているため、従来構造よりも省スペースの構造が可能です。

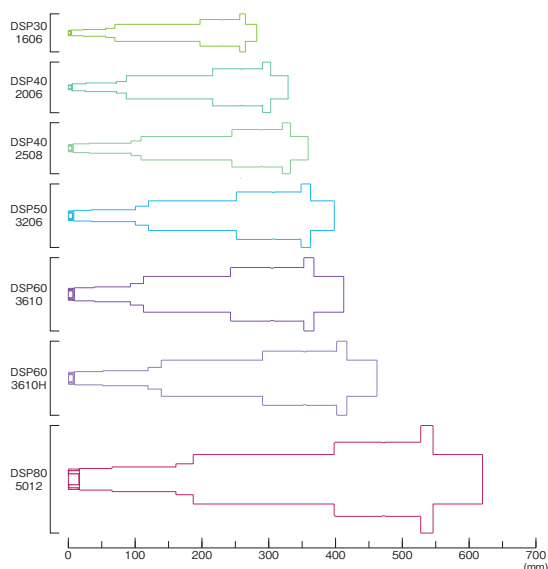
部品点数減による組付け工数削減

部品点数が削減されるため、組付け工数削減や部品加工時間短縮により装置製作の効率化に貢献します。



Application example :
Press-Fit Machine
使用例: プレス機

External size by models 外観サイズ 一覧



Basic specifications 基本仕様

Unit: mm 単位: mm

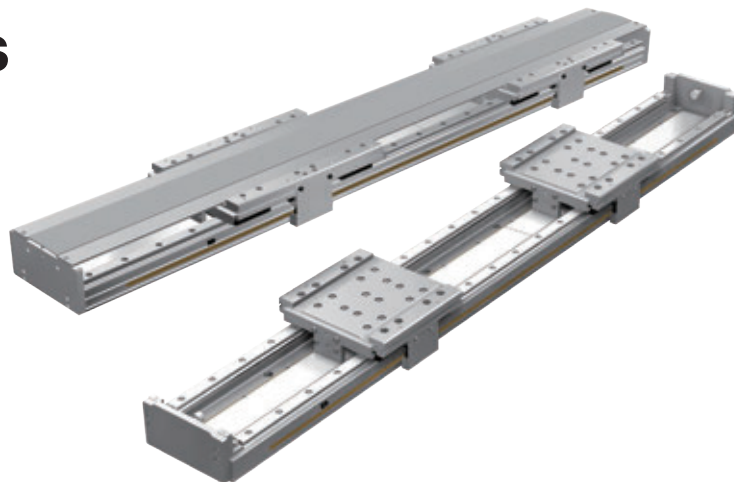
Model 形番	DSP301606	DSP402006	DSP402508	DSP503206
Spline shaft diameter ボールスプライン軸径	φ30	φ40	φ40	φ50
Screw shaft diameter ボールねじ軸径	φ16	φ20	φ25	φ32
Screw lead ボールねじリード	6	6	8	6

Model 形番	DSP603610	DSP603610H	DSP805012
Spline shaft diameter ボールスプライン軸径	φ60	φ60	φ80
Screw shaft diameter ボールねじ軸径	φ36	φ36	φ50
Screw lead ボールねじリード	10	10	12

Linear Motor Series GLM15AP/20AP

リニアモータシリーズ GLM15AP/20AP

High-Speed
高速



Long strokes and high-speed conveyance

The linear encoder can be chosen to suit the application or environment. Compact and capable of various movements.

Low-cost and high-speed scaleless system available

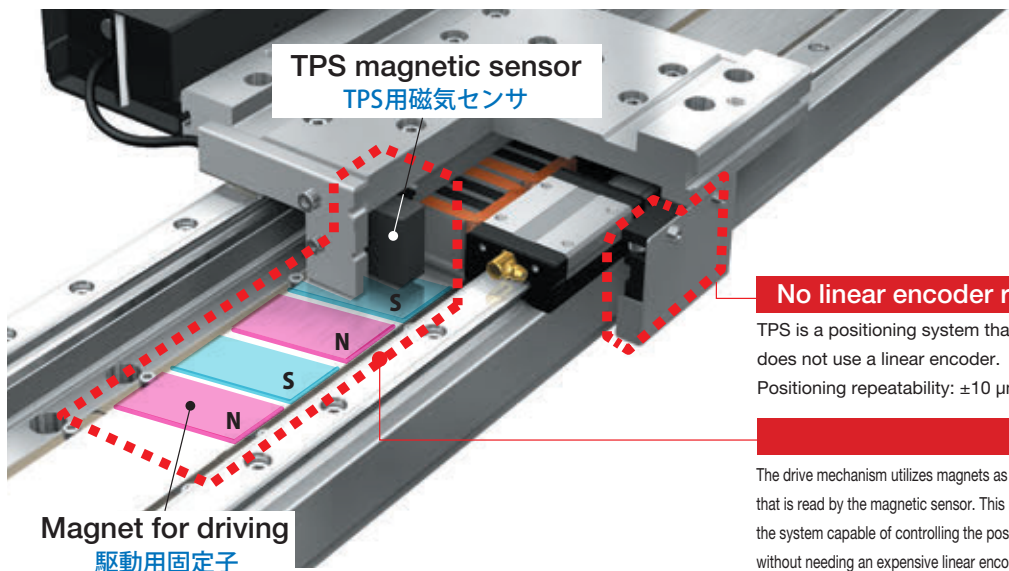
THK's proprietary position-detecting sensors make it possible to use a linear motor stator in place of a linear scale. Optimal for high-speed transfers over long strokes. Positioning repeatability: $\pm 10 \mu\text{m}$

ロングストローク・高速搬送

使用環境・用途に合わせてリニアエンコーダを選択可能。省スペースで多様な動作を実現。

低価格と高速性の両立 スケールレスシステムをラインナップ

THK独自の位置検出センサによりリニアモータ固定子をリニアスケールの代わりとして使用することが可能。ロングストロークの高速搬送に最適。繰り返し位置決め精度 $\pm 10 \mu\text{m}$



No linear encoder required リニアエンコーダ不要

TPS is a positioning system that does not use a linear encoder. Positioning repeatability: $\pm 10 \mu\text{m}$

TPSはリニアエンコーダを使用しない位置決めシステムです。繰り返し位置決め精度 $\pm 10 \mu\text{m}$

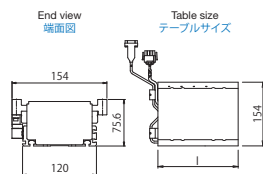
TPS

The drive mechanism utilizes magnets as a scale that is read by the magnetic sensor. This makes the system capable of controlling the position without needing an expensive linear encoder.

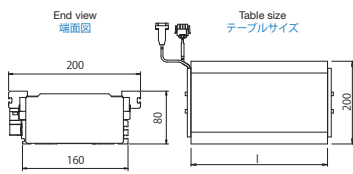
駆動用固定子(マグネット)を磁気目盛りとして磁気センサで読み取ることで、高価なリニアエンコーダを使用することなく位置決め制御を可能にするシステムです。

Dimension Overview 寸法概要

GLM15AP



GLM20AP



Unit: mm 単位: mm

	GLM15AP		GLM20AP		
	S	M	S	M	L
Table size I dimension テーブルサイズ I 寸法	116	194	180	330	470

Product Specifications 製品仕様

	GLM15AP		GLM20AP		
Motor size モータサイズ	S	M	S	M	L
Maximum thrust ¹ (N) 最大推力 ^{※1} [N]	152	283	336	618	954
Rated thrust ¹ (N) 定格推力 ^{※1} [N]	42	89	118	220	344
Maximum speed ² (m/s) 最大速度 ^{※2} [m/s]	0.3 ~ 3				
Positioning repeatability ³ (μm) 繰り返し位置決め精度 ^{※3} [μm]	$\pm 1 \sim \pm 10$				
Maximum load capacity ⁴ (kg) 最大可搬質量 ^{※4} [kg]	14.8	28.3	33	61.5	97

1 The values shown are those when the average temperature of the armature winding is 90°C and the ambient temperature is 20°C.

2 Maximum speed varies based on the encoder resolution.

3 Positioning repeatability varies based on the encoder resolution.

4 Specifications such as the operating speed and acceleration/deceleration are limited by the weight of the load.

The maximum load capacity is the weight at which the drive functions at an acceleration of 0.5 G and a maximum achieved speed of 1 m/s.

※1 周囲温度が 20°C の環境において、電機子巻線平均温度が 90°C の時の値です。

※2 エンコーダ分解能により最高速度は変わります。

※3 エンコーダ分解能により繰り返し位置決め精度は変わります。

※4 負荷質量により動作速度・加減速度等の仕様が制限されます。最大可搬質量は加速度 0.5G、到達最大速度 1m/s にて駆動可能な質量です。

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OMNI edge is a system that lets you attach a sensor to a component to
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部品にセンサをつけて、現在の状態を数値で見える化するシステムです！

Collect and analyze component data with the THK SENSING SYSTEM.
部品の状態をTHK SENSING SYSTEMで収集、解析



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カンタン後付け設置



Receive e-mail notifications about abnormal part conditions.
部品の異常をご担当者へメールでお知らせ



Stay informed about component conditions!
部品の状態を把握

THK SENSING SYSTEM

This technology uses an original algorithm and extensive reference data to quantify the status of components.
It diagnoses a component's condition and detects part failure before it occurs.

THK SENSING SYSTEMとは

独自のアルゴリズムと豊富なバックデータにより、部品の状態を数値化する技術です。その部品の状態診断や予兆検知を実現いたします。

Contact Us

お問合せ
お待ちしております

OMNI edge
website

OMNI edge専用サイト



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CROSS ROLLERS GUIDES



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LM ROLLERS



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LINK BALLS



ROD ENDS



SPHERICAL BEARINGS



LUBRICATIONS



Features of the THK Online Store

- Easy Pairing for LM Guide Block & Rail



Check "Include" and Select Specifications

Part Number

SHS15C1SS BLOCK

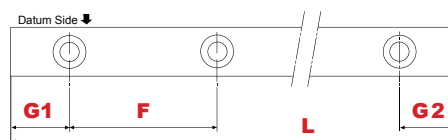
SHS20C1SS BLOCK

Include Rail

☒ Include

☐ Include

- Easy Custom LM Guide Rail Ordering



Specify Length and place order

Length (L) *

1730

G1 *

30

G2 *

20

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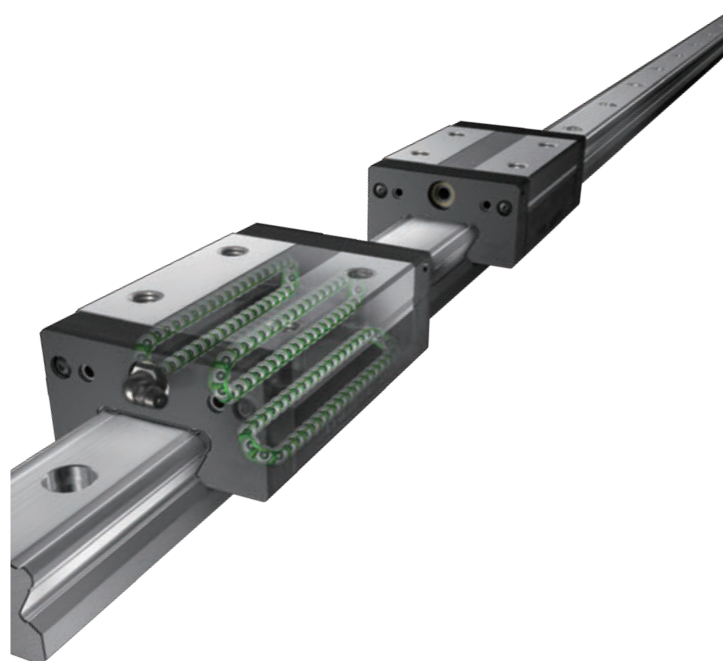
THK's advanced manufacturing technologies

THKの生産技術力

At its manufacturing plants around the world, THK has the capacity to produce and supply LM Guide products incorporating continuous guide rails as long as 7,000 mm. THK also possesses advanced capabilities for the manufacture of ball splines, ball screws, cross-roller rings, and R Guides. Through the daily pursuit of innovative manufacturing techniques, THK strives to contribute to its customers' success by providing them with pioneering products.

THKは世界各国の生産拠点でつなぎ無し最長 7000 mm LM ガイドの生産・供給体制を整えています。その他、ボールスプライン、ボールねじ、クロスローラーリング、R ガイドにおける最新の製造能力をご紹介します。

THKは製造技術革新の追求により、先進製品をご提案し、お客様への貢献を目指してまいります。

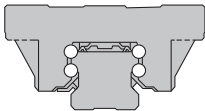
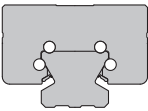


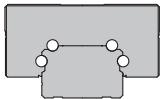
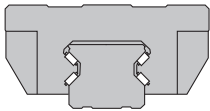
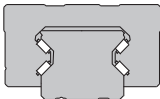
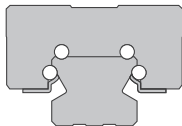
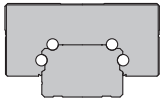
LM Guide

LM ガイド

Model No. supporting 7,000 mm length

7000mm対応形番

Model No., features, cross-section image 形番・特長・断面形状	Size サイズ	Maximum length listed in THK catalog (mm) カタログ掲載最大長さ [mm]	Maximum length for custom orders (mm) 特注最大長さ [mm]
SHS Caged Ball LM Guide 4-way Equal Load Type ボールリテーナ入り LM ガイド 4 方向等荷重形 	20	3000	7000
	25	3000	7000
	30	3000	7000
	35	3000	7000
	45	3090	7000
	55	3060	7000
	65	3000	7000
SSR Caged Ball LM Guide Radial Type ボールリテーナ入り LM ガイド ラジアル形 	20X	3000	7000
	25X	3000	7000
	30X	3000	7000
	35X	3000	7000

Model No., features, cross-section image 形番・特長・断面形状	Size サイズ	Maximum length listed in THK catalog (mm) カタログ掲載最大長さ [mm]	Maximum length for custom orders (mm) 特注最大長さ [mm]
SVR/SVS Caged Ball LM Guide Super-Heavy Load for Machine Tools 工作機械用ボールリテーナ入り LM ガイド 超重荷重 	25	3000	7000
	30	3000	7000
	35	3000	7000
	45	3090	7000
	55	3060	7000
	65	3000	7000
SHW Caged Ball LM Guide Wide Rail ボールリテーナ入り LM ガイド ワイドレール 	35	3000	7000
SRG Caged Roller LM Guide Ultra-High Rigidity ローラーリテーナ入り LM ガイド 超々高剛性 	35	3000	7000
	45	3090	
	55	3060	
	65	3000	
SRN Caged Roller LM Guide Low Center of Gravity ローラーリテーナ入り LM ガイド 低重心 	30	3000	7000
	35	3000	
	45	3090	
	55	3060	
HSR 4-way Equal Load Type 4方向等荷重形 	65	3000	7000
	20	3000	7000
	25	3000	7000
	30	3000	7000
	35	3000	7000
SR Radial Type ラジアル形 	45	3000	7000
	55	3000	7000
	25	3000	7000
	30	3000	7000
	35	3000	7000
NR/NRS-X Super-Heavy Load for Machine Tools 工作機械用 LM ガイド 超重荷重 	45	3090	7000
	55	3060	7000
	65	3000	7000
	25	3000	7000
	30	3000	7000
HRW Wide Rail ワイドレール 	27	3000	7000
	35	3000	7000
	50	3000	7000

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Ball Splines

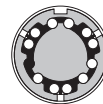
ボールスプライン



Maximum length for custom orders
特注最大長さ

High Torque Type Ball Splines: Maximum Manufacturing Length by Accuracy

高トルク形ボールスプライン精度別最大長さ

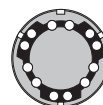


Unit: mm
単位: mm

Grades 等級		Normal grade 並 級						High accuracy grade 上級						Precision grade 精密級								
Nominal shaft diameter 呼び径	Above 超え	12	20	32	50	80	150	12	20	32	50	80	150	12	20	32	50	80	150			
	Or less 以下	20	32	50	80	125		20	32	50	80	125		20	32	50	80	125				
Overall spline shaft length スプライン軸の呼び全長		Runout tolerance (max) (μm) 振れ公差 (最大) [μm]						Runout tolerance (max) (μm) 振れ公差 (最大) [μm]						Runout tolerance (max) (μm) 振れ公差 (最大) [μm]								
Above 超え	Or less 以下																					
-	200	56	53	53	51	51	-	34	32	32	30	30	-	18	18	16	16	16	-			
200	315	71	58	58	55	53	-	45	39	36	34	32	-	25	21	19	17	17	-			
315	400	83	70	63	58	55	-	53	44	39	36	34	-	31	25	21	19	17	-			
400	500	95	78	68	61	57	46	62	50	43	38	35	36	38	29	24	21	19	19			
500	630	112	88	74	65	60	49	75	57	47	41	37	39	46	34	27	23	20	21			
630	800	137	103	84	71	64	53	92	68	54	45	40	43	58	42	32	26	22	24			
800	1000	170	124	97	79	69	58	115	83	63	51	43	48	75	52	38	30	24	27			
1000	1250	230	151	114	90	76	63	-	102	76	59	48	55	-	65	47	35	28	32			
1250	1600	294	190	139	106	86	80	-	130	93	70	55	65	-	85	59	43	33	40			
1600	2000	368	240	173	128	99	100	-	-	118	86	65	80	-	-	77	54	40	50			
2000	2500	-	300	225	156	117	125	-	-	-	106	78	100	-	-	-	68	49	68			
2500	3000	-	360	270	190	143	150	-	-	-	134	96	129	-	-	-	88	61	84			
3000	3500	-	-	-	236	189	175	-	-	-	-	-	152	-	-	-	-	-	99			
3500	4000	-	-	-	270	216	200	-	-	-	-	-	173	-	-	-	-	-	113			
Maximum length for custom orders 特注最大長さ		2000	3000	3000	4000	4000	4000	1000	1600	2000	3000	3000	4000	1000	1600	2000	3000	3000	4000			

Medium Torque Type Ball Splines: Maximum Manufacturing Length by Accuracy

中トルク形ボールスプライン精度別最大長さ



Unit: mm
単位: mm

Grades 等級		Normal grade 並 級					High accuracy grade 上 級					Precision grade 精密級				
Nominal shaft diameter 呼び径	Above 超え	12	20	32	50	80	12	20	32	50	80	12	20	32	50	80
	Or less 以下	20	32	50	80	125	20	32	50	80	125	20	32	50	80	125
Overall spline shaft length スプライン軸の呼び全長		Runout tolerance (max) (μm) 振れ公差 (最大) [μm]					Runout tolerance (max) (μm) 振れ公差 (最大) [μm]					Runout tolerance (max) (μm) 振れ公差 (最大) [μm]				
Above 超え	Or less 以下															
-	200	56	53	53	51	51	34	32	32	30	30	18	18	16	16	16
200	315	71	58	58	55	53	45	39	36	34	32	25	21	19	17	17
315	400	83	70	63	58	55	53	44	39	36	34	31	25	21	19	17
400	500	95	78	68	61	57	62	50	43	38	35	38	29	24	21	19
500	630	112	88	74	65	60	75	57	47	41	37	46	34	27	23	20
630	800	137	103	84	71	64	92	68	54	45	40	58	42	32	26	22
800	1000	170	124	97	79	69	115	83	63	51	43	75	52	38	30	24
1000	1250	230	151	114	90	76	-	102	76	59	48	-	65	47	35	28
1250	1600	294	190	139	106	86	-	130	93	70	55	-	85	59	43	33
1600	2000	368	240	173	128	99	-	-	118	86	65	-	-	77	54	40
2000	2500	-	300	225	156	117	-	-	-	106	78	-	-	-	68	49
2500	3000	-	360	270	190	143	-	-	-	134	96	-	-	-	88	61
3000	3500	-	-	-	236	189	-	-	-	-	-	-	-	-	-	-
3500	4000	-	-	-	270	216	-	-	-	-	-	-	-	-	-	-
Maximum length for custom orders 特注最大長さ		2000	3000	3000	4000	4000	1000	1600	2000	3000	3000	1000	1600	2000	3000	3000

Ball Screws

ボールねじ



Maximum length for custom orders 特注最大長さ

Maximum Length of the Precision Ball Screw Shaft

精密ボールねじ軸の製作限界長さ

Unit: mm
単位: mm

Screw shaft outer diameter ねじ軸外径	Overall screw shaft length ねじ軸全長					
	C0	C1	C2	C3	C5	C7
25	1100	1400	1600	1800	2000	2400
28	1300	1600	1900	2100	2350	2700
30	1450	1700	2050	2300	2570	2950
32	1600	1800	2200	2500	2800	3200
36	2000	2100	2550	2950	3250	3650
40	2000	2400	2900	3400	3700	4300
45	2000	2750	3350	3950	4350	5050
50	2000	3100	3800	4500	5000	5800
55	2000	3450	4150	5300	6050	6500
63	2000	4000	5200	5800	6700	7700
70	2000	4000	6300	6450	7650	9000
80	2000	4000	6300	7900	9000	11000
100	2000	4000	6300	11000	11000	11000
120	2000	4000	6300	11000	11000	11000

The maximum length of the HBN-V, HBN-K, HBN, and SBKH is 3000 mm.

HBN-V形、HBN-K形、HBN形、SBKH形の最大製作長さは3000mmです。

Maximum Length of the Rolled Ball Screw Shaft

転造ボールねじ軸の製作限界長さ

Unit: mm
単位: mm

Screw shaft outer diameter ねじ軸外径	Overall screw shaft length ねじ軸全長			Maximum length for custom orders 特注最大長さ
	C7	C8	C10	
25	2000	3000	3000	4000
28	3000	3000	3000	4000
30	3000	3000	3000	4500
32	3000	4000	4000	5000
36	3000	4000	4000	5500
40	3000	5000	5000	7000
45	3000	5500	5500	7000
50	3000	6000	6000	8000

Note: Lead angle accuracy varies depending on specifications. Contact THK for details.

※リード誤差は仕様により異なりますのでTHKまでお問い合わせください。

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Cross-Roller Rings

クロスローラーリング



Maximum inner/outer diameter for custom orders

特注最大内径 / 外径

Model RB and Model RU: Inner Ring Rotational Accuracy

RB、RU形の内輪回転精度

Unit: μm

単位: μm

Nominal dimension of the bearing inner diameter (mm) 軸受内径の呼び寸法		Radial runout tolerance of the inner ring 内輪ラジアル振れ許容値						Axial runout tolerance of the inner ring 内輪アキシャル振れ許容値							
		0 Grade 0 級	PE6 Grade PE6 級	PE5 Grade PE5 級	PE4 Grade PE4 級	PE2 Grade PE2 級	USP Grade USP 級	0 Grade 0 級	PE6 Grade PE6 級	PE5 Grade PE5 級	PE4 Grade PE4 級	PE2 Grade PE2 級	USP Grade USP 級		
			P6 級	P5 級	P4 級	P2 級	P6 級		P5 級	P4 級	P2 級				
Above 超え	Or less 以下	18	30	13	8	4	3	2.5	-	13	8	4	3	2.5	-
30	50	15	10	5	4	2.5	-	15	10	5	4	2.5	-		
50	80	20	10	5	4	2.5	-	20	10	5	4	2.5	-		
80	120	25	13	6	5	2.5	2.5	25	13	6	5	2.5	2.5		
120	150	30	18	8	6	2.5	2.5	30	18	8	6	2.5	2.5		
150	180	30	18	8	6	5	2.5	30	18	8	6	5	2.5		
180	250	40	20	10	8	5	3	40	20	10	8	5	3		
250	315	50	25	13	10	6	4	50	25	13	10	6	4		
315	400	60	30	15	12	7	4	60	30	15	12	7	4		
400	500	65	35	18	14	9	5	65	35	18	14	9	5		
500	630	70	40	20	16	10	6	70	40	20	16	10	6		
630	800	80	45	23	18	11	7	80	45	23	18	11	7		
800	1000	90	50	25	20	12	-	90	50	25	20	12	-		
1000	1250	100	55	28	22	13	-	100	55	28	22	13	-		
1250	1600	120	65	35	27	16	-	120	65	35	27	16	-		
1600	2000	140	70	40	32	20	-	140	70	40	32	20	-		
2000 *	2500 *	-	-	-	-	-	-	-	-	-	-	-	-		
2500 *	3000 *	-	-	-	-	-	-	-	-	-	-	-	-		
Maximum inner diameter listed in THK catalog (mm) カタログ掲載最大軸受内径 [mm]		1250	630	630	630	250	630	1250	630	630	630	250	630		

Model RE and Model RU: Outer Ring Rotational Accuracy

RE、RU形の外輪回転精度

Unit: μm

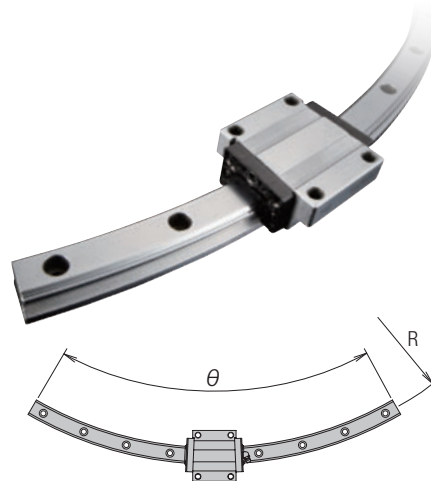
単位: μm

Nominal dimension of the bearing outer diameter (mm) 軸受外径の呼び寸法		Radial runout tolerance of the outer ring 外輪ラジアル振れ許容値						Axial runout tolerance of the outer ring 外輪アキシャル振れ許容値					
		0 Grade 0 級	PE6 Grade PE6 級	PE5 Grade PE5 級	PE4 Grade PE4 級	PE2 Grade PE2 級	USP Grade	0 Grade 0 級	PE6 Grade PE6 級	PE5 Grade PE5 級	PE4 Grade PE4 級	PE2 Grade PE2 級	USP Grade
			P6 Grade P6 級	P5 Grade P5 級	P4 Grade P4 級	P2 Grade P2 級	USP 級		P6 Grade P6 級	P5 Grade P5 級	P4 Grade P4 級	P2 Grade P2 級	USP 級
Above 超え	Or less 以下	20	10	7	5	2.5	-	20	10	7	5	2.5	-
30	50	25	13	8	5	4	-	25	13	8	5	4	-
50	80	35	18	10	6	5	3	35	18	10	6	5	3
80	120	40	20	11	7	5	3	40	20	11	7	5	3
120	150	45	23	13	8	5	3	45	23	13	8	5	3
150	180	50	25	15	10	7	4	50	25	15	10	7	4
180	250	60	30	18	11	7	4	60	30	18	11	7	4
250	315	70	35	20	13	8	5	70	35	20	13	8	5
315	400	80	40	23	15	9	5	80	40	23	15	9	5
400	500	100	50	25	16	10	7	100	50	25	16	10	7
500	630	120	60	30	20	13	8	120	60	30	20	13	8
630	800	120	75	38	25	16	-	120	75	38	25	16	-
800	1000	120	75	40	27	18	-	120	75	40	27	18	-
1000	1250	120	75	42	30	20	-	120	75	42	30	20	-
1250	1600	220	110	60	35	25	-	220	110	60	35	25	-
1600	2000	250	-	-	-	-	-	250	-	-	-	-	-
2000	2500	-	-	-	-	-	-	-	-	-	-	-	-
2500 *	3000 *	1600	1000	800	800	400	800	1600	1000	800	800	400	800
Maximum outer diameter listed in THK catalog (mm) カタログ掲載最大軸受外径 [mm]													

*Accuracy varies depending on specifications. Contact THK for details. *精度は仕様により異なりますので THK までお問い合わせください。

R Guides

R ガイド



Maximum radius for custom orders

特注最大曲率半径

R Guide Model HCR: Maximum Rail Radius and Center Angle

R ガイドHCR形の最大曲率半径と最大角度

Rail radius (mm) 曲率半径 [mm]		Maximum center angle: θ 最大角度: θ					
Or above 以上	Less than 未満	HCR12	HCR15	HCR25	HCR35	HCR45	HCR65
95R	100R	60°	-	-	-	-	-
100R	200R	60°	-	-	-	-	-
150R	200R	-	60°	-	-	-	-
200R	250R	-	60°	-	-	-	-
250R	300R	-	60°	-	-	-	-
300R	350R	-	60°	60°	-	-	-
350R	400R	-	60°	60°	-	-	-
400R	450R	-	60°	60°	-	-	-
450R	500R	-	60°	60°	60°	-	-
500R	650R	-	60°	60°	60°	-	-
650R	700R	-	60°	60°	60°	60°	-
700R	800R	-	60°	60°	60°	60°	60°
850R	900R	-	-	60°	60°	60°	60°
900R	1000R	-	-	60°	60°	60°	60°
1000R	1100R	-	-	60°	60°	60°	60°
1100R	1500R	-	-	60°	60°	60°	60°
1500R	1600R	-	-	60°	60°	60°	45°
1600R	1700R	-	-	60°	60°	45°	45°
1700R	1800R	-	-	60°	45°	45°	45°
1800R	2500R	-	-	45°	45°	45°	45°
2500R	2600R	-	-	40°	40°	40°	40°
2600R	2700R	-	-	40°	40°	40°	40°
2700R	2800R	-	-	40°	40°	40°	40°
2800R	2900R	-	-	36°	36°	36°	36°
2900R	3000R	-	-	36°	36°	36°	36°
3000R	3200R	-	-	30°	30°	30°	30°
3200R	3300R	-	-	30°	30°	30°	30°
3300R	3800R	-	-	20°	20°	20°	20°
3800R	3900R	-	-	20°	20°	20°	20°
3900R	5700R	-	-	18°	18°	18°	18°
5700R	5800R	-	-	18°	18°	18°	18°
5800R	6000R	-	-	18°	18°	18°	18°
Maximum radius listed in THK catalog カタログ掲載最大曲率半径		100R (60°)	400R (60°)	1000R (60°)	1300R (60°)	1600R (60°)	3000R (30°)
Maximum radius for custom orders 特注最大曲率半径		200R (60°)	800R (45°)	6000R (18°)	6000R (18°)	6000R (18°)	6000R (18°)

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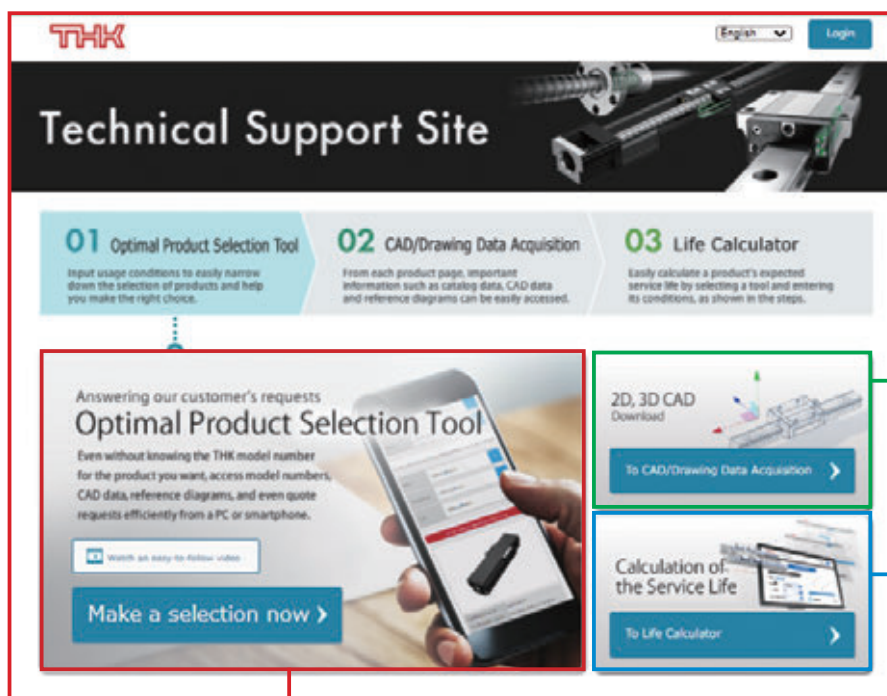
● Global Website THK コーポレートサイト / www.thk.com

Technical Support Site

テクニカルサポートサイトのご紹介

The THK Technical Support Site lets you access product information and technical support online. You will also find a search feature for locating desired products and a calculation feature for calculating service life. 2D-CAD and 3D-CAD data are also downloadable.

THK テクニカルサポートでは製品に関する情報や技術サービスがオンラインにてご利用頂けます。ご希望の製品を探し出す検索機能や製品寿命を算出する技術計算機能もご用意しています。また、2D-CAD データ、3D-CAD データもこちらからダウンロードできます。



2D, 3D CAD
downloads
2D、3DCADダウンロード

Service life
calculation
寿命計算

Optimal Product Selection Tool 最適品選定ツール



Product Information 製品情報

Search by model number or description. Also contains detailed product specifications according to model number.

形番、解説の検索ができます。形番ごとの詳細仕様も掲載しています。



CAD Data CAD データ

You can acquire 2D CAD data (DXF files) on approximately 4,000 items, or 3D CAD data according to specifications from rail lengths to installation of optional items.

約4,000アイテムの2D-CADデータ(DXFファイル)やレール長さからオプション品の設定まで、仕様にあった3D-CADデータが入手できます。



Technical Information 技術情報

Contains technical information, from application examples to research papers.

使用例から学会資料まで、専門的な技術情報を掲載しています。



Technical Calculation 技術計算

Rated life (service life) can be calculated simply by entering the model number, application criteria, etc.

形番或使用条件を入力すると、定格寿命(寿命時間)の算出が簡単に行えます。



Catalog Information カタログ情報

Order any of a variety of catalogs.

各種製品カタログのご請求はこちらから行えます。



FAQ

Contains frequently asked questions.

よくある質問

Languages: English, Japanese, German, Simplified Chinese, Traditional Chinese, Spanish, Portuguese (Brazil), Russian
言語: 英語、日本語、ドイツ語、簡体字、繁体字、スペイン語、ポルトガル語(ブラジル)、ロシア語

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The webpage design may differ slightly depending on the website.
ご利用には会員登録が必要です。
サイトによりデザインが一部異なる場合があります。

Select quick delivery products with ease

短納期品を簡単選定

Optimal Product Selection Tool

『最適品選定ツール』

Log in here:
ログイン画面はコチラから。

tech.thk.com/index_en.php



This tool is smartphone-compatible!

*Registration is required.
スマートフォンも対応
※ご登録が必要です。

STEP 1

Log in to the optimal product selection tool.
『最適品選定ツール』へログイン



On your
computer
PC から

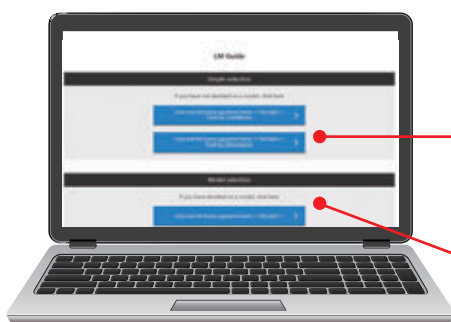


On your
smartphone
スマホから

STEP 2

Easy Selection : Find the optimal product by choosing at least 3 conditions.
Model (detail) Selection: Customize a product to meet your usage conditions.

簡易選定 : 最小 3 項目の条件選択で推奨形番を選ぶことができます。
形番 (詳細) 選択 : 使用条件に合わせてカスタマイズが可能です。



Proposes the optimal product
推奨形番のご提案



Easy Selection
簡易選定

Let's you customize the model
形番のカスタマイズが可能



Model (detail) Selection
形番 (詳細) 選択

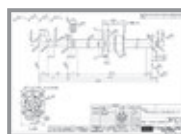
STEP 3

Get the CAD data, reference drawing, and catalog for your selected product and save them as PDFs to use during meetings. You can also request a quotation (price and shipping date).

選定した製品の CAD データや参考図、カタログを確認、PDF ファイルで保存し打ち合わせにもご活用いただけます。また、御見積依頼 (価格 / 納期) も可能です。



CAD data
CAD データ



Reference drawing
参考図



Quotation request
(price and shipping date)
御見積依頼 (価格 / 納期)



Optimal product selection results (PDF)
最適品選定結果 (PDF)



Life calculation (PDF)
寿命計算結果 (PDF)

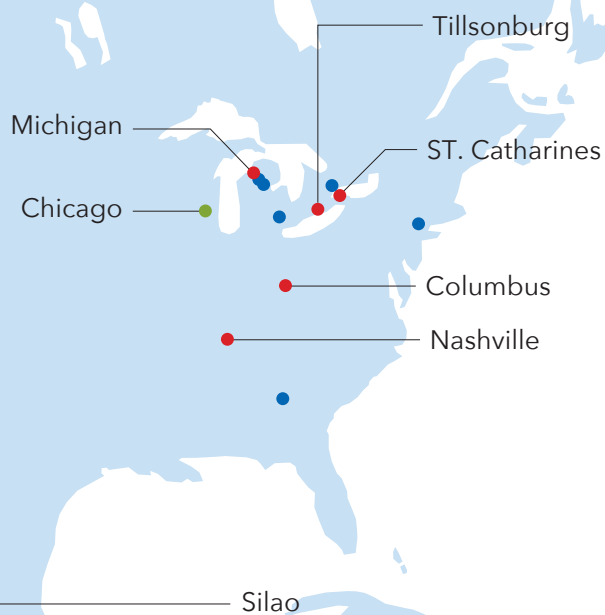


Catalog
カタログ

Americas

THK Global Network THK グローバルネットワーク

- Headquarters of Local Subsidiary
- Production Facility
- Sales Office



THK production at the optimal place, on a global scale. Americas

世界に広がるニーズに応え、世界規模の最適地生産を展開 アメリカ

Sales Offices

North America

THK America, Inc.

- Headquarters
- Chicago Office
- North East Office
- Atlanta Office
- Los Angeles Office
- San Francisco Office
- Detroit Office
- Toronto Office

South America

THK BRAZIL INDUSTRIA E COMERCIO LTDA.

- Sao Paulo Office



● THK America, Inc. Headquarters

Production Facilities



● THK Manufacturing of America, Inc. (USA)
Site: 109,058 m² (1,173,900 sq.ft.) / Floor space: 37,311 m² (401,692 sq.ft.)



● THK RHYTHM NORTH AMERICA CO., LTD. (USA)
Site: 116,496 m² (1,253,662 sq.ft.) / Floor space: 17,960 m² (193,320 sq.ft.)



● THK RHYTHM MEXICANA, S.A. DE C.V. (Mexico)
Site: 91,847 m² (988,632 sq.ft.) / Floor space: 16,430 m² (176,851 sq.ft.)



● THK RHYTHM AUTOMOTIVE MICHIGAN CORPORATION (USA)
Site: 307,559 m² (3,310,538 sq.ft.) / Floor space: 17,569 m² (189,108 sq.ft.)



● THK RHYTHM AUTOMOTIVE CANADA LIMITED (St. Catharines)
Site: 117,763 m² (1,267,596 sq.ft.) / Floor space: 41,347 m² (445,000 sq.ft.)



● THK RHYTHM AUTOMOTIVE CANADA LIMITED (Tillsonburg)
Site: 60,540 m² (651,657 sq.ft.) / Floor space: 10,870 m² (117,000 sq.ft.)

Europe

THK Global Network

THK グローバルネットワーク

- Headquarters of Local Subsidiary
- Production Facility
- Sales Office



THK production at the optimal place, on a global scale. Europe

世界に広がるニーズに応え、世界規模の最適地生産を展開 ヨーロッパ

Sales Offices



●THK GmbH European Headquarters

THK GmbH

- European Headquarters
- Düsseldorf Office
- Stuttgart Office
- U.K. Office
- Italy Office
- Sweden Office
- Austria Office
- Spain Office
- Turkey Office
- Prague Office
- Moscow Office

THK Europe B.V.

- Eindhoven Office

THK France S.A.S.

- Paris Office



THK RHYTHM AUTOMOTIVE GmbH
R&D Center (Düsseldorf)

Production Facilities



●THK Manufacturing of Europe S.A.S. (France)
Site: 198,559 m² (2,137,289 sq.ft.) / Floor space: 39,379 m² (423,876 sq.ft.)



●THK Manufacturing of Ireland Ltd. (Ireland)
Site: 10,198 m² (109,771 sq.ft.) / Floor space: 4,291 m² (46,188 sq.ft.)



●THK RHYTHM AUTOMOTIVE GmbH
(Krefeld Gellep)
Site: 64,021 m² (689,119 sq.ft.) / Floor space: 18,000 m² (193,750 sq.ft.)



●THK RHYTHM AUTOMOTIVE CZECH a.s.
(Czech Republic)
Site: 130,000 m² (1,399,308 sq.ft.) / Floor space: 53,900 m² (580,175 sq.ft.)

Japan

THK Global Network

THK グローバルネットワーク

● Headquarters

● Production Facility



● THK Headquarters
THK本社



Technology Center
テクノセンター

Production Facilities



● Kofu Plant
甲府工場
Site: 38,292 m² (412,172 sq.ft.) / Floor space: 25,957 m² (279,399 sq.ft.)



● Yamaguchi Plant
山口工場
Site: 160,798 m² (1,730,818 sq.ft.) / Floor space: 77,912 m² (838,641 sq.ft.)



● Yamagata Plant
山形工場
Site: 175,294 m² (1,886,850 sq.ft.) / Floor space: 103,665 m² (1,115,841 sq.ft.)



● Mie Plant
三重工場
Site: 42,259 m² (454,872 sq.ft.) / Floor space: 25,405 m² (273,457 sq.ft.)



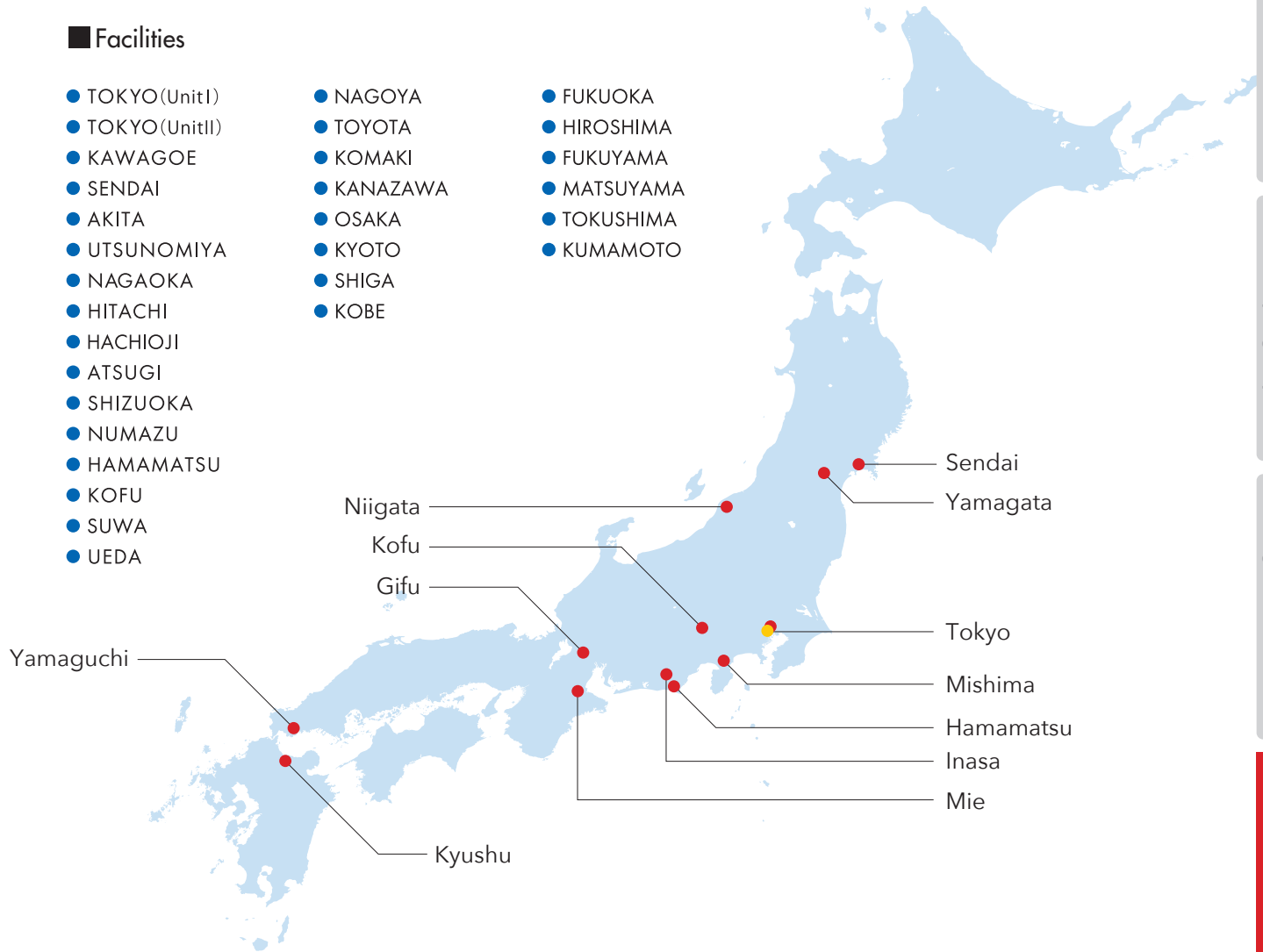
● Gifu Plant
岐阜工場
Site: 86,856 m² (934,910 sq.ft.) / Floor space: 26,966 m² (290,260 sq.ft.)



● THK NIIGATA CO., LTD.
THK新潟(株)
Site: 47,132 m² (507,324 sq.ft.) / Floor space: 15,162 m² (163,202 sq.ft.)

THK production at the optimal place, on a global scale. Japan

世界に広がるニーズに応え、世界規模の最適地生産を展開 日本



● THK RHYTHM CO., LTD., Headquarters and Hamamatsu Plant
THKリズム(株)本社・浜松工場
Site: 97,629 m² (1,050,870 sq.ft.) / Floor space: 43,485 m² (468,069 sq.ft.)



● THK RHYTHM CO., LTD., Inasa Plant
THKリズム(株)引佐工場
Site: 7,237 m² (77,898 sq.ft.) / Floor space: 2,625 m² (28,256 sq.ft.)



● THK RHYTHM CO., LTD., Kyushu Plant
THKリズム(株)九州工場
Site: 46,068 m² (495,872 sq.ft.) / Floor space: 21,057 m² (226,655 sq.ft.)



● THK INTECHS CO., LTD., Mishima Plant
THKインテックス(株)三島工場
Site: 12,917 m² (139,038 sq.ft.) / Floor space: 10,447 m² (112,451 sq.ft.)



● THK INTECHS CO., LTD., Sendai Plant
THKインテックス(株)仙台工場
Site: 42,943 m² (426,238 sq.ft.) / Floor space: 14,248 m² (153,365 sq.ft.)

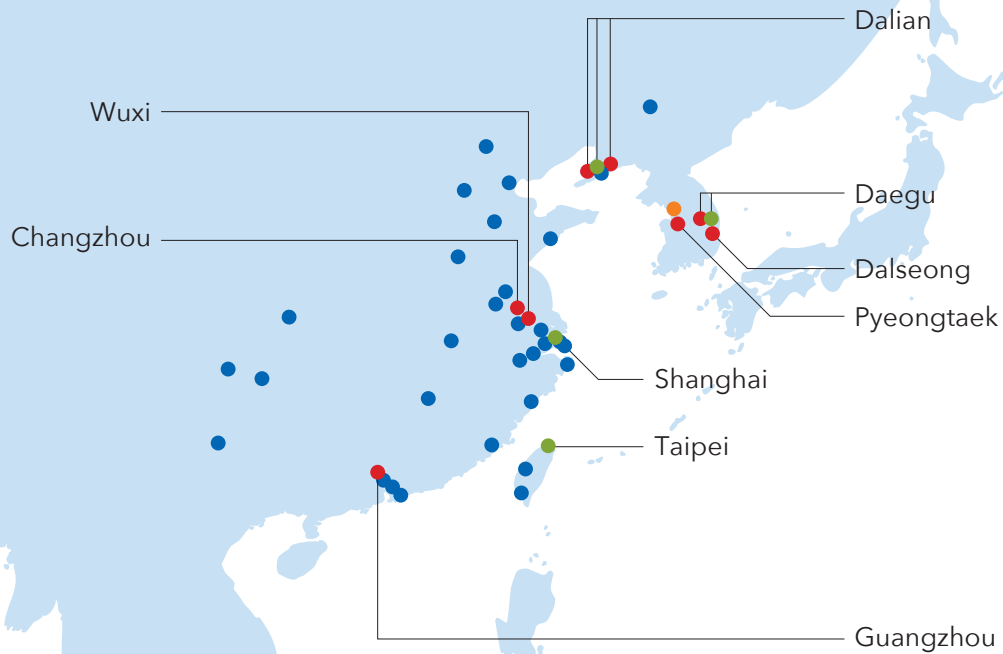


● NIPPON SLIDE CO., LTD.
日本スライド工業(株)
Site: 3,712 m² (39,955 sq.ft.) / Floor space: 4,224 m² (45,466 sq.ft.)

East Asia

THK Global Network THK グローバルネットワーク

- Headquarters of Local Subsidiary
- Production Facility
- Sales Office
- Representative Office



Production Facilities



● **THK MANUFACTURING OF CHINA (LIAONING) CO., LTD.**
Site: 163,108 m² (1,755,740 sq.ft.) / Floor space: 58,755 m² (632,434 sq.ft.)



● **DALIAN THK CO., LTD. (China)**
Site: 90,232 m² (971,249 sq.ft.) / Floor space: 52,715 m² (567,422 sq.ft.)



● **THK MANUFACTURING OF CHINA (WUXI) CO., LTD.**
Site: 155,256 m² (1,671,219 sq.ft.) / Floor space: 53,723 m² (578,270 sq.ft.)



● **SAMICK THK CO., LTD., Headquarters and Daegu Plant (South Korea)**
Site: 29,984 m² (322,756 sq.ft.) / Floor space: 26,672 m² (287,105 sq.ft.)



● **SAMICK THK CO., LTD. Technopolis Plant (South Korea)**
Site: 43,717 m² (462,848 sq.ft.) / Floor space: 43,361 m² (466,749 sq.ft.)



● **SAMICK THK CO., LTD. Pyeongtaek Plant (South Korea)**
Site: 31,662 m² (340,806 sq.ft.) / Floor space: 25,188 m² (271,123 sq.ft.)

THK production at the optimal place, on a global scale. Asia

世界に広がるニーズに応え、世界規模の最適地生産を展開 アジア

Sales Offices

China

THK (CHINA) CO., LTD.

- Headquarters
- Shanghai Branch
- Beijing Branch
- Chengdu Branch
- Guangzhou Branch
- Shenzhen Branch
- Xian Branch
- Ningbo Office
- Jinan Office
- Hangzhou Office
- Nanjing Office
- Wuhan Office
- Shenyang Office
- Tianjin Office
- Chongqing Office
- Xiamen Office
- Qingdao Office
- Dalian Office
- Suzhou Office
- Dongguan Office
- Changsha Office
- Wuxi Office
- Shijiazhuang Office
- Wenzhou Office
- Zhengzhou Office
- Kunming Office
- Jiaxing Office
- Yangzhou Office
- THK (SHANGHAI) CO., LTD.

Taiwan

THK TAIWAN CO., LTD.

- Taipei Headquarters
- Taichung Office
- Tainan Office

South Korea

● Seoul Representative Office
SAMICK THK CO., LTD.

- Daegu Headquarters
- Seoul Sales Headquarters
- Incheon Office
- Suwon Office
- Cheonan Office
- Daegu Office
- Daejeon Office
- Gwangju Office
- Changwon Office
- Busan Office
- Ulsan Office



● THK (CHINA) CO., LTD. Headquarters



THK (CHINA) CO., LTD. R&D Center



● THK MANUFACTURING OF CHINA (CHANGZHOU) CO., LTD.

Site: 54,556 m² (587,236 sq.ft.) / Floor space: 25,500 m² (274,480 sq.ft.)



● THK RHYTHM (CHANGZHOU) CO., LTD.

Site: 50,008 m² (538,282 sq.ft.) / Floor space: 24,352 m² (262,123 sq.ft.)



● THK RHYTHM GUANGZHOU CO., LTD. (China)

Site: 23,000 m² (247,569 sq.ft.) / Floor space: 8,900 m² (95,798 sq.ft.)



● SAMICK THK CO., LTD. Seongseo 2 Plant (South Korea)

Site: 10,119 m² (108,920 sq.ft.) / Floor space: 6,874 m² (73,991 sq.ft.)



● SAMICK THK CO., LTD. Dalseong Plant (South Korea)

Site: 34,886 m² (375,118 sq.ft.) / Floor space: 8,324 m² (89,505 sq.ft.)

Southeast Asia

South Asia

THK Global Network

THK グローバルネットワーク

● Headquarters of Local Subsidiary

● Production Facility

● Sales Office

Sri City

Bac Ninh

Rayong

Penang

Singapore

Sales Offices



●THK LM SYSTEM Pte. Ltd.
Headquarters

Singapore

THK LM SYSTEM Pte. Ltd.

- Headquarters

Thailand

THK RHYTHM (THAILAND) CO., LTD.

LM System Division

- Bangkok Branch

India

THK India Pvt. Ltd.

- Headquarters
- Bengaluru Branch
- Pune Branch
- Chennai Branch
- Ahmedabad Branch
- Delhi Branch

Production Facilities



●THK MANUFACTURING OF VIETNAM CO., LTD.
Site: 36,821 m² (396,338 sq.ft.) / Floor space: 23,525 m² (253,221 sq.ft.)



●THK India Pvt. Ltd., Headquarters and Sri City plant (India)
Site: 205,094 m² (2,207,620 sq.ft.) / Floor space: 36,691 m² (394,938 sq.ft.)



●THK RHYTHM (THAILAND) CO., LTD.
Site: 18,400 m² (198,058 sq.ft.) / Floor space: 3,000 m² (32,292 sq.ft.)



●THK RHYTHM MALAYSIA Sdn. Bhd.
Site: 6,070 m² (65,337 sq.ft.) / Floor space: 4,344 m² (46,760 sq.ft.)

North America

THK America, Inc.

Headquarters

200 East Commerce Drive, Schaumburg, IL 60173, U.S.A.
Phone: +1-847-310-1111 Fax: +1-847-310-1271

Chicago Office

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Phone: +1-847-310-1111 Fax: +1-847-310-1271

North East Office

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Phone: +1-847-310-1111 Fax: +1-847-310-1271

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Phone: +1-770-840-7990 Fax: +1-770-840-7897

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Phone: +1-949-955-3145 Fax: +1-949-955-3149

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3037 Independence Drive, Suite I, Livermore, CA 94551, U.S.A.
Phone: +1-925-455-8948 Fax: +1-925-455-8965

Detroit Office

41650 Gardenbrook, Suite 160, Novi, MI 48375, U.S.A.
Phone: +1-248-858-9330 Fax: +1-248-858-9455

Toronto Office

3600B Laird Road, Unit #10, Mississauga, ONT L5L 6A7, Canada
Phone: +1-905-820-7800 Fax: +1-905-820-7811

South America

THK BRASIL INDÚSTRIA E COMÉRCIO LTDA.

Av. Jaguaré, 818 Galpão 20, Jaguaré, São Paulo SP, 05346-000, Brazil
Phone: +55-11-3767-0100 Fax: +55-11-3767-0101

Europe

THK GmbH

European Headquarters

Kaiserswerther Strasse 115, 40880 Ratingen, Germany
Phone: +49-2102-7425-555 Fax: +49-2102-7425-556

Düsseldorf Office

Kaiserswerther Strasse 115, 40880 Ratingen, Germany
Phone: +49-2102-7425-0 Fax: +49-2102-7425-299

Stuttgart Office

Schwieberdinger-Strasse 56, D-71636 Ludwigsburg, Germany
Phone: +49-7141-4988-500 Fax: +49-7141-4988-888

U.K. Office

Suite W6, Harbour Buildings West, The Waterfront, Brierley Hill,
West Midlands, DY5 1LN, U.K.
Phone: +44-1384-471550 Fax: +44-1384-471551

Italy Office

Via G. Marconi, 35, 20812 Limbiate (MB), Italy
Phone: +39-02-9901-1801 Fax: +39-02-9901-1881

Sweden Office

Datavägen 3A, 175 43 Järfälla Sweden
Phone: +46-8-445-7630

Austria Office

Commerz Park West 1, 4061 Pasching, Austria
Phone: +43-7229-51400 Fax: +43-7229-51400-79

Spain Office

Calle Doctor Trueta, 183, Block G2, 3F, Door 8, 08005 Barcelona, Spain
Phone: +34-93-652-5740 Fax: +34-93-652-5746

Turkey Office

Serifali Mahallesi, Edep Sokak, No:15 Giris Kat, 34775 Yukarı Dudullu,
Ümraniye / Istanbul, Turkey
Phone: +90-216-362-4050 Fax: +90-216-569-7150

Prague Office

Michelska 300/60, Prague 4 CZ 14000, Czech Republic
Phone: +420-2-41025-100 Fax: +420-2-41025-199

Moscow Office

127474, Moscow, Dmitrovskoye Schosse 60, Office 610, Russia
Phone: +7-495-649-80-47 Fax: +7-495-649-80-44

THK Europe B.V.

Eindhoven Office

High Tech Campus 5, 5656 AE Eindhoven, Netherlands
Phone: +31-40-290-9500 Fax: +31-40-290-9599

THK France S.A.S.

Paris Office

Roissypôle Le Dôme, 3 Rue de la Haye, BP10959 Tremblay-en-France,
95733 Roissy CDG Cedex, France
Phone: +33-1-7425-3800 Fax: +33-1-7425-3799

Japan

THK CO., LTD.

HEADQUARTERS

2-12-10 Shibaura, Minato-ku, Tokyo, 108-8506, Japan
Phone: +81-3-5730-3911 Fax: +81-3-5730-3915

INTERNATIONAL SALES DEPARTMENT

2-12-10 Shibaura, Minato-ku, Tokyo, 108-8506, Japan
Phone: +81-3-5730-3860 Fax: +81-3-5730-3924

SALES DEPARTMENT, EAST JAPAN REGION I

TOKYO ORDER FULFILLMENT CENTER (OFC)

2-12-10 Shibaura, Minato-ku, Tokyo, 108-8506, Japan
Phone: +81-3-5730-3829 Fax: +81-3-5730-3925

TOKYO SALES UNIT I

2-12-10 Shibaura, Minato-ku, Tokyo, 108-8506, Japan
Phone: +81-3-5730-3820 Fax: +81-3-5730-3821

TOKYO SALES UNIT II

2-12-10 Shibaura, Minato-ku, Tokyo, 108-8506, Japan
Phone: +81-3-5730-3830 Fax: +81-3-5730-3835

KAWAGOE BRANCH

5F, Sumitomoseimei Kawagoe East Bldg., 23-1 Wakitahoncho, Kawagoe City, Saitama
Prefecture 350-1123, Japan
Phone: +81-49-291-7227 Fax: +81-49-291-7222

SENDAI BRANCH

6F, Kakyoin Plaza, 2-1-65 Aoba-ku, Sendai City, Miyagi Prefecture 980-0013, Japan
Phone: +81-22-206-1301 Fax: +81-22-206-1305

AKITA OFFICE

2F, Akita Square Bldg., 4-1-2 Nakadori, Akita City, Akita Prefecture 010-0001, Japan
Phone: +81-18-831-5553 Fax: +81-18-831-5554

UTSUNOMIYA BRANCH

5-1-22 Naka-imaizumi, Utsunomiya City, Tochigi Prefecture 321-0968, Japan
Phone: +81-28-683-2225 Fax: +81-28-663-4113

NAGAOKA BRANCH

3-8-5 Sanwa, Nagaoka City, Niigata Prefecture 940-1151, Japan
Phone: +81-258-37-1011 Fax: +81-258-37-0853

HITACHI BRANCH

6F, HL Katsuta Chuo Bldg., 10-7 Katsuta-chuo, Hitachi-naka City,
Ibaraki Prefecture 312-0045, Japan
Phone: +81-29-271-9311 Fax: +81-29-271-9313

SALES DEPARTMENT, EAST JAPAN REGION II

EAST JAPAN ORDER FULFILLMENT CENTER (OFC)

3F, Fios Atsugi Bldg., 3-11-18 Naka-cho, Atsugi City, Kanagawa Prefecture 243-0018, Japan
Phone: +81-46-297-3640 Fax: +81-46-297-3635

HACHIOJI BRANCH

3F, Yymax Hachioji Bldg., 25-6 Yokoyama-cho, Hachioji City, Tokyo 192-0081, Japan
Phone: +81-42-645-8101 Fax: +81-42-646-0509

ATSUGI BRANCH

1-26-7 Aiko-higashi, Atsugi City, Kanagawa Prefecture 243-0027, Japan
Phone: +81-46-229-0808 Fax: +81-46-229-0809

SHIZUOKA BRANCH

8F, Shizuoka Sakae-cho Bldg., 4-10 Sakae-cho, Aoi-ku, Shizuoka City, Shizuoka Prefecture
420-0859, Japan
Phone: +81-54-251-8261 Fax: +81-54-251-8265

NUMAZU OFFICE

4F, Century Space Numazu-eki Kitaguchi, 10-14 Takashima-cho, Numazu City, Shizuoka
Prefecture 410-0056, Japan
Phone: +81-55-924-4001 Fax: +81-55-923-4854

HAMAMATSU BRANCH

4F, Taijuseimei Hamamatsu Bldg., 145-1 Tokiwa-cho, Naka-ku, Hamamatsu City, Shizuoka
Prefecture 430-0917, Japan
Phone: +81-53-413-7871 Fax: +81-53-413-7874

KOFU BRANCH

754 Nakadate, Chuo City, Yamanashi Prefecture 409-3801, Japan
Phone: +81-55-273-6827 Fax: +81-55-273-1159

SUWA BRANCH

8-13 Minami-machi, Suwa City, Nagano Prefecture 392-0014, Japan
Phone: +81-266-53-1144 Fax: +81-266-53-1146

UEDA OFFICE

1F, Pres Maison, 310-17 Oaza Sumiyoshi, Ueda City, Nagano Prefecture 386-0002, Japan
Phone: +81-268-23-8506 Fax: +81-268-23-8507

SALES DEPARTMENT, CENTRAL JAPAN REGION

CENTRAL JAPAN ORDER FULFILLMENT CENTER (OFC)

5-7-4 Kanayama, Naka-ku, Nagoya City, Aichi Prefecture 460-0022, Japan
Phone: +81-52-883-6035 Fax: +81-52-857-0315

NAGOYA BRANCH

5-7-4 Kanayama, Naka-ku, Nagoya City, Aichi Prefecture 460-0022, Japan
Phone: +81-52-883-0851 Fax: +81-52-883-0855

TOYOTA BRANCH

3-5-19 Takara, Chiryu City, Aichi Prefecture 472-0056, Japan
Phone: +81-566-82-3007 Fax: +81-566-82-3870

KOMAKI BRANCH

1071 Aza Shitanda, Oaza Iwazaki, Komaki City, Aichi Prefecture 485-0011, Japan
Phone: +81-568-72-2031 Fax: +81-568-73-1894

KANAZAWA BRANCH

8F, AUBE Bldg., 5-181 Kuratsuki, Kanazawa City, Ishikawa Prefecture 920-8203, Japan
Phone: +81-76-238-6158 Fax: +81-76-238-0246

SALES DEPARTMENT, WEST JAPAN REGION I**WEST JAPAN ORDER FULFILLMENT CENTER (OFC)**

1-18-16 Heso, Ritto City, Shiga Prefecture 520-3031, Japan

Phone: +81-77-553-6301 Fax: +81-77-553-6341

OSAKA BRANCH

4F, Orix Koraibashi Bldg., 3-2-7 Koraibashi, Chuo-ku, Osaka City, Osaka 541-0043, Japan

Phone: +81-6-6222-8211 Fax: +81-6-6222-8212

KYOTO BRANCH

3F, Kawara-machi NNN Bldg., 773 Uematsu-cho, Matsubara-sagaru, Teramachi-dori,

Shimogyo-ku, Kyoto City, Kyoto 600-8028, Japan

Phone: +81-75-353-6806 Fax: +81-75-353-6808

SHIGA OFFICE

1-18-16 Heso, Ritto City, Shiga Prefecture 520-3031, Japan

Phone: +81-77-553-2431 Fax: +81-77-553-2421

KOBE BRANCH

10F, Sannomiya Daiichiseimei Bldg., 69 Kyomachi, Chuo-ku, Kobe City,

Hyogo Prefecture 650-0034, Japan

Phone: +81-78-325-3621 Fax: +81-78-325-3622

SALES DEPARTMENT, WEST JAPAN REGION II**WEST JAPAN ORDER FULFILLMENT CENTER (OFC)**

1-18-16 Heso, Ritto City, Shiga Prefecture 520-3031, Japan

Phone: +81-77-553-6301 Fax: +81-77-553-6441

FUKUOKA ORDER FULFILLMENT CENTER (OFC)

5F, ORIENT DEALING BLDG. NO. 90, 1-11-1 Kamimuta, Hakata-ku, Fukuoka City, Fukuoka

Prefecture 812-0006, Japan

Phone: +81-92-477-8747 Fax: +81-92-477-8790

FUKUOKA BRANCH

5F, ORIENT DEALING BLDG. NO. 90, 1-11-1 Kamimuta, Hakata-ku, Fukuoka City, Fukuoka

Prefecture 812-0006, Japan

Phone: +81-92-474-4471 Fax: +81-92-474-5429

HIROSHIMA BRANCH

3F, Teriha Hiroshima, 1-8 Nishikojin-machi, Minami-ku, Hiroshima City, Hiroshima Prefecture

732-0806, Japan

Phone: +81-82-568-4315 Fax: +81-82-568-4325

FUKUYAMA BRANCH

3F, Sanyo Daiichi Bldg., 10-18 Sannomaru-cho, Fukuyama City, Hiroshima Prefecture 720-

0066, Japan

Phone: +81-84-973-1501 Fax: +81-84-973-1502

MATSUYAMA BRANCH

5F, Asahi Seimei Minami-Horibata Bldg., 3-21 Hanazono-machi, Matsuyama City,

Ehime Prefecture 790-0005, Japan

Phone: +81-89-913-5505 Fax: +81-89-913-5507

TOKUSHIMA OFFICE

6F, Nissei Tokushima Bldg., 2-11 Yaoya-machi, Tokushima City, Tokushima Prefecture 770-

0841, Japan

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Exhibiting Our Products at IMTS 2022 IMTS 2022 出展に際して

Akihiro Teramachi, CEO, THK Group
THK グループ 最高責任者 寺町彰博



THK has been a pioneering manufacturer in linear motion ever since developing the world's first LM (Linear Motion) Guide in 1972. We have provided this Mobile Guidebook since JIMTOF 2002 with the hope of making the show in IMTS 2022 meaningful for visitors and exhibitors alike. We would greatly appreciate it if as many of our visitors as possible would use this at the show.

The LM Guide is THK's mainstay product; it is an important machine component that converts the linear motion of machine parts from a sliding to a rolling motion in order to provide motion that is smooth and accurate. Linear motion-related products, including the LM Guide, have been used extensively in various industrial machines such as machine tools, industrial robots, and flat panel display and semiconductor manufacturing machines, and furthermore, they have contributed to the development of industry as an essential part of improving the performance of these systems. In recent years, THK's core linear motion technology has been used to support the labor-saving efforts of the service industry and the development of new fields, such as automotive parts, seismic isolation and damping systems, medical equipment, aircraft, robotics, and renewable energy. Additionally, amidst the rapid development of digital technologies such as AI and the IoT, we have developed services that provide a new user experience, our "OMNI edge" IoT service for the manufacturing industry. As these products respond to the requirements of various industries, the demand for linear motion-related products will continue to grow as it becomes increasingly vital for machines to become more energy-efficient to preserve the global environment.

As described in this booklet, we exhibit a number of new products at IMTS 2022, which fulfill the performance requirements of various machines and equipment by achieving high rigidity, high accuracy, and energy conservation, among other features. We hope that you will find time to visit the THK booth (E3-134802, 134803) and experience our products up close.

As the leading manufacturer of the LM Guide, THK is ready to respond to your request in a timely manner through our production and sales branches located in many countries throughout the world. In addition, as a company focused on creation and development, we look forward to continuing to produce highly innovative and value-added products that match the ever-advancing demands of industry.

THK は、1972 年に世界で初めて LM ガイド (Linear Motion Guide:直線運動案内) を開発したパイオニアであり、世界のトップメーカーです。IMTS 2022 では、ご来場者の皆様はもちろんのこと、ご出展者の皆様におかれましてもより有意義な展示会となりますよう、2002 年の JIMTOF からこのモバイルガイドブックを作成しております。今回も少しでも多くの方々にご活用いただけたら幸いに存じます。

さて、THK の主力製品である LM ガイドは、機械の直線運動を“軽く”“正確に”動かすため、“すべり”を“ころがり”化する重要な機械要素部品です。LM ガイドをはじめとする直動関連製品は、これまで工作機械、産業用ロボット、フラットパネル、半導体製造装置などのさまざまな産業用機械に採用され、それらの高機能化に不可欠な部品として、産業の発展に貢献してまいりました。近年では、直動システムのコア技術を応用し、自動車、免震・制震装置、医療機器、航空機、ロボット、再生可能エネルギーといった新規分野の開拓とサービス産業における省力化の支援に努めています。さらに、AI、IoT などデジタルテクノロジーが急速に進展する中、製造業向け IoT サービス「OMNI edge」など、お客様へ新たな体験価値を提供するサービスを展開しています。そして、地球環境保全の観点から装置の省エネルギー化が不可欠となる中、それらのニーズにお応えできる製品として、今後もさまざまな分野において直動関連製品の必要性はさらに高まっていくものと考えております。

本冊子でもご紹介しておりますが、THK は今回の IMTS 2022 におきましても、高剛性や高精度、そして省エネルギーなど、各種機械装置に要求される様々な性能を実現する新製品を多数出品しております。ぜひ THK ブース S0312 (E3-134802, 134803) に足をお運びいただき、お手にとってご覧いただけますようお願い申し上げます。

THK は、LM ガイドのトップメーカーとして、世界各地に生産・販売拠点を構えて、皆様のご要望にタイムリーにお応えできる体制を整えております。「創造開発型企業」として、引き続き創造性に富んだ付加価値の高い製品を開発してまいります。今後も THK にどうぞご期待ください。

PROFILE

Company Name	THK CO., LTD.
Head Office	2-12-10 Shibaura, Minato-ku Tokyo 108-8506 Japan Phone 03-5730-3911 www.thk.com
Establishment	April 1971
Capital	¥34,606 million (Current as of December 31, 2021)
President/CEO	Akihiro Teramachi
Number of Employees	3,968 (consolidated total: 13,073) (Current as of December 31, 2021)
Activities	1. Manufacture and sale of various bearings and machine elements 2. Manufacture and sale of machine tools and their parts 3. Manufacture and sale of automotive, bicycle and vehicle parts 4. Manufacture and sale of industrial robot and associated parts 5. Manufacture and sale of instrument and control equipment parts, electrical and electronics equipment parts, and associated parts 6. Manufacture and sale of hydraulic and pneumatic equipment and associated equipment 7. Research, development, production, and sale of computer software 8. Development of building construction methods, design and construction of buildings, and manufacturing and sale of associated equipment parts 9. All the activities associated with the above items

Number of patents/utility model rights with continuing rights (as of December 31, 2021)

In Japan	Number of registered patents:	616
	Number of patents laid open:	140
	Number of registered utility models:	3
Overseas	Number of registered patents:	1271
	Number of patents laid open:	381
	Number of registered utility models:	2

会社概要

商 号	THK株式会社 THK CO., LTD.
所 在 地	〒108-8506 東京都港区芝浦2-12-10 TEL03-5730-3911 www.thk.com
設 立	1971年4月
資 本 金	34,606百万円(2021年12月31日現在)
代 表 者	代表取締役社長 寺町 彰博
従 業 員	3,968人(連結会社合計13,073人)(2021年12月31日現在)
事 業 目 的	1.各種軸受および機械要素の製造、販売 2.工作機械およびその部品の製造、販売 3.自動車部品、自転車部品および輸送用機械部品の製造、販売 4.産業用ロボットおよびその関連部品の製造、販売 5.計測制御機器部品、電気、電子応用機器部品およびこれらに関連する機器部品の製造、販売 6.油圧・空圧機器およびこれらに関連する機器の製造、販売 7.コンピュータのソフトウェアの研究、開発、作成、販売 8.建築工法の開発および建築の設計施工ならびにこれらに関連する機器部品の製造販売 9.前各号に付帯関連する一切の業務

特許・実用新案権の権利存続中の件数(2021年12月31日現在)

国 内	特許登録件数	: 616
	特許出願公開件数	: 140
	実用新案登録件数	: 3
海 外	特許登録件数	: 1271
	特許出願公開件数	: 381
	実用新案登録件数	: 2

CHICAGO IMTS

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www.thk.com

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