

## 3.2. Selecting a Type

### Types of LM Guides

THK offers a wide array of types and dimensions with LM Guides as standard so that you can select the optimal product for any application. With the unit structure of each model, you can easily obtain high running accuracy with no clearance simply by mounting the product on a plane surface with bolts. We have a proven track record and know-how in extensive applications with LM Guides.

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- Surface grinder table
- Tool grinder table
- Electric discharge machine
- Printed circuit board drilling machine
- Chip mounter
- High-speed conveyance system
- Traveling unit of robots
- Machining center
- NC lathe
- Penta-plano milling machine
- Conveyance system
- Mold guide of pressing machines
- Inspection machine
- Testing machine
- Food-related machine
- Medical equipment
- 3D measuring instrument
- Packaging machine
- Injection molding machine
- Woodworking machine
- Ultra precision table
- Semiconductor manufacturing machine

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- Machining center
- NC lathe
- Grinding machine
- Penta-plano milling machine
- Jig boring machine
- Drilling machine
- NC milling machine
- Plano miller
- Mold processing machine
- Graphite processing machine
- Electric discharge machine
- Wire-cutting electric discharge machine

Category		Type	Major application	Load capacity diagram	Basic load rating (kN)		External dimensions (mm)		Reference page*	Features			
					Basic dynamic load rating	Basic static load rating	Height	Width					
Radial types	Caged Ball LM Guides	SSR-XW	1		14.7 to 64.6	16.5 to 71.6	24 to 48	34 to 70	a-94	● Long service life, long-term maintenance-free operation	● Thin, compact design, large radial load capacity		
		SSR-XV			9.0 to 21.7	9.7 to 22.5	24 to 33	34 to 48	a-96	● Low dust generation, low noise, acceptable running sound	● Superb in planar running accuracy		
		SSR-XTB			14.7 to 31.5	16.5 to 36.4	24 to 33	52 to 73	a-98	● Superbly high speed	● Superb capability of absorbing mounting error		
	Full-ball LM Guides	SR-W, T			9.51 to 411	19.3 to 537	24 to 135	34 to 250	a-232	● Smooth motion in all mounting orientations	● Stainless steel type also offered as standard		
		SR-M1W			9.51 to 41.7	19.3 to 77.2	24 to 48	34 to 70	a-244				
		SR-V			5.39 to 23.8	11.1 to 44.1	24 to 48	34 to 70	a-232				
		SR-M1V			5.39 to 23.8	11.1 to 44.1	24 to 48	34 to 70	a-244				
		SR-TB			9.51 to 98.1	19.3 to 157	24 to 68	52 to 140	a-234				
		SR-M1TB			9.51 to 41.7	19.3 to 77.2	24 to 48	52 to 100	a-246				
		SR-SB			5.39 to 23.8	11.1 to 44.1	24 to 48	52 to 100	a-234				
		SR-M1SB		5.39 to 23.8	11.1 to 44.1	24 to 48	52 to 100	a-246					
		Caged Ball LM Guides - ultra-heavy-load, high-rigidity types		SNR-C	48 to 260	79 to 409	31 to 75	72 to 170	a-118			● Long service life, long-term maintenance-free operation	● Large radial load capacity
				SNR-LC	57 to 340	101 to 572	31 to 75	72 to 170	a-118			● Low dust generation, low noise, acceptable running sound	● High vibration resistance and impact resistance due to improved damping characteristics
	SNR-R			48 to 260	79 to 409	31 to 75	50 to 126	a-114	● Superbly high speed	● Superb in planar running accuracy			
	SNR-LR			57 to 340	101 to 572	31 to 75	50 to 126	a-114	● Smooth motion in all mounting orientations	● Has dimensions almost the same as that of the full-ball type LM Guide model HSR, which is practically a global standard model			
	SNR-CH			90 to 177	144 to 292	48 to 70	100 to 140	a-126	● Ultra-heavy load capacity optimal for machine tools				
	SNR-LCH			108 to 214	188 to 383	48 to 70	100 to 140	a-126					
	SNR-RH			90 to 177	144 to 292	55 to 80	70 to 100	a-122					
	SNR-LRH			108 to 214	188 to 383	55 to 80	70 to 100	a-122					

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- Machining center
- NC lathe
- Grinding machine
- Penta-plano milling machine
- Jig boring machine
- Drilling machine
- NC milling machine
- Plano miller
- Mold processing machine
- Graphite processing machine
- Electric discharge machine
- Wire-cutting electric discharge machine

Category		Type	Major application	Load capacity diagram	Basic load rating (kN)		External dimensions (mm)		Reference page*	Features
					Basic dynamic load rating	Basic static load rating	Height	Width		
Radial types	Full-ball LM Guides - ultra-heavy-load, high-rigidity types	NR-A	2		33 to 479	84.6 to 1040	31 to 105	72 to 260	<a href="#">a-266</a>	<ul style="list-style-type: none"><li>● Ultra-heavy load capacity optimal for machine tools</li><li>● High vibration resistance and impact resistance due to improved damping characteristics</li><li>● Thin, compact design, large radial load capacity</li><li>● Superb in planar running accuracy</li></ul>
		NR-LA			44 to 599	113 to 1300	31 to 105	72 to 260	<a href="#">a-266</a>	
		NR-B			33 to 479	84.6 to 1040	31 to 105	72 to 260	<a href="#">a-270</a>	
		NR-LB			44 to 599	113 to 1300	31 to 105	72 to 260	<a href="#">a-270</a>	
		NR-R			33 to 479	84.6 to 1040	31 to 105	50 to 200	<a href="#">a-262</a>	
		NR-LR			44 to 599	113 to 1300	31 to 105	50 to 200	<a href="#">a-262</a>	
4-way equal-load types	Caged Roller LM Guides - super-ultra-heavy load, high-rigidity types	SRG-C			27.9 to 131	57.5 to 266	36 to 70	70 to 140	<a href="#">a-196</a>	<ul style="list-style-type: none"><li>● Long service life, long-term maintenance-free operation</li><li>● Low noise, acceptable running sound</li><li>● Superbly high speed</li><li>● Smooth motion due to prevention of rollers from skewing</li><li>● Ultra-heavy load capacity optimal for machine tools</li></ul>
		SRG-LC			34.2 to 278	75 to 599	36 to 90	70 to 170	<a href="#">a-196</a>	
		SRG-R			27.9 to 131	57.5 to 266	40 to 80	48 to 100	<a href="#">a-198</a>	
		SRG-LR, LV			34.2 to 278	75 to 599	40 to 90	48 to 126	<a href="#">a-198</a>	
		SRN-C			59.1 to 131	119 to 266	44 to 63	100 to 140	<a href="#">a-214</a>	<ul style="list-style-type: none"><li>● Long service life, long-term maintenance-free operation</li><li>● Low noise, acceptable running sound</li><li>● Superbly high speed</li><li>● Smooth motion due to prevention of rollers from skewing</li><li>● Ultra-heavy load capacity optimal for machine tools</li><li>● Low gravity center, super-ultra-high rigidity</li></ul>
		SRN-LC			76 to 278	165 to 599	44 to 75	100 to 170	<a href="#">a-214</a>	
		SRN-R	59.1 to 131		119 to 266	44 to 63	70 to 100	<a href="#">a-216</a>		
		SRN-LR	76 to 278		165 to 599	44 to 75	70 to 126	<a href="#">a-216</a>		
	Caged Ball LM Guides - ultra-heavy-load, high-rigidity types	SNS-C		37 to 199	61 to 315	31 to 75	72 to 170	<a href="#">a-120</a>	<ul style="list-style-type: none"><li>● Long service life, long-term maintenance-free operation</li><li>● Low dust generation, low noise, acceptable running sound</li><li>● Superbly high speed</li><li>● Smooth motion in all mounting orientations</li><li>● Ultra-heavy load capacity optimal for machine tools</li><li>● Thin, compact design, 4-way equal-load</li><li>● High vibration resistance and impact resistance due to improved damping characteristics</li></ul>	
		SNS-LC		44 to 261	78 to 441	31 to 75	72 to 170	<a href="#">a-120</a>		
		SNS-R		37 to 199	61 to 315	31 to 75	50 to 126	<a href="#">a-116</a>		
		SNS-LR		44 to 261	78 to 441	31 to 75	50 to 126	<a href="#">a-116</a>		

\* Note: These indicate the corresponding reference page numbers of the "THK General Catalog - Product Specifications," provided separately.

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- Machining center
- NC lathe
- Grinding machine
- Penta-plano milling machine
- Jig boring machine
- Drilling machine
- NC milling machine
- Plano miller
- Mold processing machine
- Graphite processing machine
- Electric discharge machine
- Wire-cutting electric discharge machine

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- Machining center
- NC lathe
- XYZ axes of heavy cutting machine tools
- Grinding head feeding axis of grinding machines
- Components requiring a heavy moment and high accuracy
- NC milling machine
- Plano miller
- Gantry penta-plano milling machine
- Z axis of electric discharge machines
- Wire-cutting electric discharge machine
- Multistory garage
- Food-related machine
- Testing machine
- Vehicle doors
- Printed circuit board drilling machine
- ATC
- Building equipment/machine
- Shield tunneling machine
- Semiconductor manufacturing machine

Category		Type	Major application	Load capacity diagram	Basic load rating (kN)		External dimensions (mm)		Reference page*	Features			
					Basic dynamic load rating	Basic static load rating	Height	Width					
4-way equal-load types	Caged Ball LM Guides - ultra-heavy-load, high-rigidity types	SNS-CH	2		69 to 136	110 to 225	48 to 70	100 to 140	a-128	<ul style="list-style-type: none"><li>● Long service life, long-term maintenance-free operation</li><li>● Low dust generation, low noise, acceptable running sound</li><li>● Superbly high speed</li><li>● Smooth motion in all mounting orientations</li><li>● Ultra-heavy load capacity optimal for machine tools</li></ul>	<ul style="list-style-type: none"><li>● 4-way equal-load</li><li>● High vibration resistance and impact resistance due to improved damping characteristics</li><li>● Has dimensions almost the same as that of the full-ball type LM Guide model HSR, which is practically a global standard model</li></ul>		
		SNS-LCH			83 to 164	144 to 295	48 to 70	100 to 140	a-128				
		SNS-RH			69 to 136	110 to 225	55 to 80	70 to 100	a-124				
		SNS-LRH			83 to 164	144 to 295	55 to 80	70 to 100	a-124				
	Full-ball LM Guides - ultra-heavy-load, high-rigidity types	NRS-A			25.9 to 376	59.8 to 737	31 to 105	72 to 260	a-268	<ul style="list-style-type: none"><li>● Ultra-heavy load capacity optimal for machine tools</li><li>● High vibration resistance and impact resistance due to improved damping characteristics</li><li>● Thin, compact design, 4-way equal-load</li></ul>			
		NRS-LA			34.5 to 470	79.7 to 920	31 to 105	72 to 260	a-268				
		NRS-B			25.9 to 376	59.8 to 737	31 to 105	72 to 260	a-272				
		NRS-LB			34.5 to 470	79.7 to 920	31 to 105	72 to 260	a-272				
		NRS-R			25.9 to 376	59.8 to 737	31 to 105	50 to 200	a-264				
		NRS-LR			34.5 to 470	79.7 to 920	31 to 105	50 to 200	a-264				
	Caged Ball LM Guides - heavy-load, high-rigidity types	SHS-C			3		14.2 to 205	24.2 to 320	24 to 90	47 to 170	a-144	<ul style="list-style-type: none"><li>● Long service life, long-term maintenance-free operation</li><li>● Low dust generation, low noise, acceptable running sound</li><li>● Superbly high speed</li><li>● Smooth motion in all mounting orientations</li><li>● Heavy load, high rigidity</li><li>● Has dimensions almost the same as that of the full-ball type LM Guide model HSR, which is practically a global standard model</li><li>● Superb capability of absorbing mounting error</li></ul>	
		SHS-LC					17.2 to 253	31.9 to 408	24 to 90	47 to 170	a-144		
		SHS-V					14.2 to 205	24.2 to 320	24 to 90	34 to 126	a-146		
		SHS-LV					17.2 to 253	31.9 to 408	24 to 90	34 to 126	a-146		
		SHS-R					14.2 to 128	24.2 to 197	28 to 80	34 to 100	a-148		
		SHS-LR					36.8 to 161	64.7 to 259	28 to 80	34 to 100	a-148		

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- Machining center
- NC lathe
- XYZ axes of heavy cutting machine tools
- Grinding head feeding axis of grinding machines
- Components requiring a heavy moment and high accuracy
- NC milling machine
- Plano miller
- Gantry penta-plano milling machine
- Z axis of electric discharge machines
- Wire-cutting electric discharge machine
- Multistory garage
- Food-related machine
- Testing machine
- Vehicle doors
- Printed circuit board drilling machine
- ATC
- Building equipment/machine
- Shield tunneling machine
- Semiconductor manufacturing machine

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- Cross rails of gantry machine tools
- Z axis of woodworking machines
- Z axis of measuring instruments
- Components opposed to each other

Category	Type	Major application	Load capacity diagram	Basic load rating (kN)		External dimensions (mm)		Reference page*	Features
				Basic dynamic load rating	Basic static load rating	Height	Width		
4-way equal-load types	HSR-A	3		8.33 to 210	13.5 to 310	24 to 110	47 to 215	a-290	<ul style="list-style-type: none"> <li>● Heavy load, high rigidity</li> <li>● Practically a global standard model</li> <li>● Superb capability of absorbing mounting error</li> <li>● Stainless steel type also offered as standard</li> <li>● Type M1, achieving max service temperature of 150°C, also available</li> <li>● Type M2, with high corrosion resistance, also available (Basic dynamic load rating: 2.33 to 5.57 kN, Basic static load rating: 2.03 to 5.16 kN)</li> </ul>
	HSR-M1A			8.33 to 37.3	13.5 to 61.1	24 to 48	47 to 100	a-318	
	HSR-LA			21.3 to 282	31.8 to 412	30 to 110	63 to 215	a-290	
	HSR-M1LA			21.3 to 50.2	31.8 to 81.5	30 to 48	63 to 100	a-318	
	HSR-CA			13.8 to 210	23.8 to 310	30 to 110	63 to 215	a-300	
	HSR-HA			21.3 to 518	31.8 to 728	30 to 145	63 to 350	a-300,304	
	HSR-B			8.33 to 210	13.5 to 310	24 to 110	47 to 215	a-292	
	HSR-M1B			8.33 to 37.3	13.5 to 61.1	24 to 48	47 to 100	a-320	
	HSR-LB			21.3 to 282	31.8 to 412	30 to 110	63 to 215	a-292	
	HSR-M1LB			21.3 to 50.2	31.8 to 81.5	30 to 48	63 to 100	a-320	
	HSR-CB			13.8 to 210	23.8 to 310	30 to 110	63 to 215	a-302	
	HSR-HB			21.3 to 518	31.8 to 728	30 to 145	63 to 350	a-302,304	
	HSR-R			1.08 to 210	2.16 to 310	11 to 110	16 to 156	a-294,296	
	HSR-M1R			8.33 to 37.3	13.5 to 61.1	28 to 55	34 to 70	a-322	
	HSR-LR			21.3 to 282	31.8 to 412	30 to 110	44 to 156	a-296	
	HSR-M1LR			21.3 to 50.2	31.8 to 81.5	30 to 55	44 to 70	a-322	
	HSR-HR			351 to 518	506 to 728	120 to 145	250 to 266	a-304	
	HSR-YR	4		8.33 to 141	13.5 to 215	28 to 90	33.5 to 124.5	a-298	<ul style="list-style-type: none"> <li>● Easy mounting and reduced mounting height when using 2 units opposed to each other since the side faces of the LM block have mounting holes</li> <li>● Superb capability of absorbing mounting error</li> <li>● Stainless steel type also offered as standard</li> <li>● Type M1, achieving max service temperature of 150°C, also available</li> <li>● Heavy load, high rigidity</li> </ul>
	HSR-M1YR			8.33 to 37.3	13.5 to 61.1	28 to 55	33.5 to 69.5	a-324	

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- Automated warehouse
- Garage
- Gantry robot
- FMS traveling rail
- Elevator
- Conveyance system
- Welding machine
- Lifter
- Crane
- Forklift
- Coating machine
- Shield tunneling machine
- Stage setting

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- Low gravity center, precision XY table
- NC lathe
- Optical measuring instrument
- Automatic lathe
- Inspection machine
- Cartesian coordinate robot
- Bonding machine
- Wire-cutting electric discharge machine
- Hollow table
- Printed circuit board assembler
- Machine tool table
- Electric discharge machine
- XY axes of horizontal machining centers

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- Z axis of IC printed circuit board drilling machine
- Z axis of small electric discharge machine
- Loader
- Machining center
- NC lathe
- Robot
- Wire-cutting electric discharge machine
- APC
- Semiconductor manufacturing machine
- Measuring instrument
- Wafer transfer equipment
- Building equipment
- Railroad vehicle

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- XYZ axes of electric discharge machine
- Precision table
- XZ axes of NC lathe
- Assembly robot
- Conveyance system
- Machining center
- Wire-cutting electric discharge machine
- Tool changer
- Woodworking machine

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- Industrial robot
- Various conveyance systems
- Automated warehouse
- Palette changer
- ATC
- Door closing device
- Guide using an aluminum mold base
- Welding machine
- Coating machine
- Car washing machine

Category		Type	Major application	Load capacity diagram	Basic load rating (kN)		External dimensions (mm)		Reference page*	Features	
					Basic dynamic load rating	Basic static load rating	Height	Width			
4-way equal-load types	Full-ball LM Guides - special LM rail types	JR-A	5		19.9 to 88.5	34.4 to 137	61 to 114	70 to 140	a-342	<ul style="list-style-type: none"><li>● Since the central part of the LM rail is thinly structured, the LM Guide is capable of absorbing an error and achieving smooth motion if the parallelism between the 2 axes is poor</li><li>● Since the LM rail has a highly rigid sectional shape, it can be used as a structural member</li></ul>	
		JR-B			19.9 to 88.5	34.4 to 137	61 to 114	70 to 140	a-342		
		JR-R			19.9 to 88.5	34.4 to 137	65 to 124	48 to 100	a-342		
	Full-ball LM Guides - orthogonal type	CSR	6		8.33 to 80.4	13.5 to 127.5	47 to 118	38.8 to 129.8	a-352	<ul style="list-style-type: none"><li>● A compact XY structure is allowed due to an XY orthogonal, single-piece LM block</li><li>● Since a saddle-less structure is allowed, the machine can be lightweighted and compactly designed</li></ul>	
	Caged Ball LM Guides - wide, low gravity center types	SHW-CA	7		4.31 to 70.2	5.66 to 91.4	12 to 50	40 to 162	a-162	<ul style="list-style-type: none"><li>● Long service life, long-term maintenance-free operation</li><li>● Low dust generation, low noise, acceptable running sound</li><li>● Superbly high speed</li><li>● Smooth motion in all mounting orientations</li><li>● Wide, low gravity center design, space saving structure</li><li>● Stainless steel type also available as standard</li></ul>	
		SHW-CR, HR			4.31 to 70.2	5.66 to 91.4	12 to 50	30 to 130	a-164		
	Full-ball LM Guides - wide, low gravity center types	HRW-CA			4.31 to 63.8	81.4 to 102	17 to 60	60 to 200	a-364		<ul style="list-style-type: none"><li>● 4-way equal-load, thin and highly rigid</li><li>● Wide, low gravity center design, space saving structure</li><li>● Stainless steel type also available as standard</li></ul>
		HRW-CR, LR			4.31 to 50.2	7.16 to 81.5	12 to 50	30 to 130	a-366		
	Interchangeable types	Full-ball LM Guides - separate types	HR, HR-T	8		1.57 to 141	3.04 to 206	8.5 to 60	18 to 125	a-402	<ul style="list-style-type: none"><li>● Thin, high rigidity, space saving structure</li><li>● Interchangeable with Cross-Roller Guide</li><li>● Preload can be adjusted</li><li>● Stainless steel type also available as standard</li></ul>
			GSR-T	9		5.69 to 25.1	8.43 to 33.8	20 to 38	32 to 68	a-376	<ul style="list-style-type: none"><li>● LM block and LM rail are both interchangeable</li><li>● Preload can be adjusted</li><li>● Capable of absorbing vertical level error and horizontal parallelism error</li></ul>
GSR-V					4.31 to 10.29	5.59 to 12.65	20 to 30	32 to 50	a-376		
Full-ball LM Guides - LM rail-rack integrated type		GSR-R			10.29 to 25.1	12.65 to 33.8	30 to 38	59.91 to 80.18	a-388	<ul style="list-style-type: none"><li>● LM rail-rack integrated design eliminates assembly and adjustment work</li><li>● LM rail-rack integrated design enables a space-saving structure to be achieved</li><li>● Capable of supporting long strokes</li></ul>	
Miniature types	Caged Ball LM Guides	SRS	10		2.69 to 16.5	2.31 to 20.2	10 to 25	20 to 48	a-178	<ul style="list-style-type: none"><li>● Long service life, long-term maintenance-free operation</li><li>● Low dust generation, low noise, acceptable running sound</li><li>● Superbly high speed</li><li>● Smooth motion in all mounting orientations</li><li>● Stainless steel type also available as standard</li><li>● Lightweight, compact</li></ul>	
		SRS-W			3.29 to 9.12	3.34 to 8.55	12 to 16	30 to 60	a-180		

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- IC/LSI manufacturing machine
- Hard disc drive
- Slide unit of OA equipment
- Wafer transfer equipment
- Printed circuit board assembly table
- Medical equipment
- Electronic components of electron microscope
- Optical stage
- Stepper
- Plotting machine
- Feed mechanism of IC bonding machine
- Inspection machine

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- IC/LSI manufacturing machine
- Inspection machine
- Slide unit of OA equipment
- Wafer transfer equipment
- Feed mechanism of IC bonding machine
- Printed circuit board assembly table
- Medical equipment
- Electronic components of electron microscope
- Optical stage

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- Large swivel base
- Pendulum vehicle for railroad
- Pantagraph
- Control unit
- Optical measuring machine
- Tool grinding machine
- X-ray machine
- CT scanner
- Medical equipment
- Stage setting
- Multistory garage
- Amusement machine
- Turntable
- Tool changer

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- XY axes of ordinary industrial machinery
- Various conveyance systems
- Automated warehouse
- Palette changer
- Automatic coating machine
- Various welding machines

Category	Type	Major application	Load capacity diagram	Basic load rating (kN)		External dimensions (mm)		Reference page*	Features
				Basic dynamic load rating	Basic static load rating	Height	Width		
Miniature types	Full-ball LM Guides	RSR, RSR-K, RSR-V		0.18 to 8.82	0.27 to 12.7	4 to 25	8 to 46	a-416, 418	<ul style="list-style-type: none"> <li>● Stainless steel type offered as standard</li> <li>● Long type with increased load capacity also offered as standard</li> <li>● Type M1, achieving max service temperature of 150°C, also available</li> </ul>
		RSR-M1V		1.47 to 8.82	2.25 to 12.7	10 to 25	20 to 46	a-444	
		RSR-N		0.3 to 14.2	0.44 to 20.6	4 to 25	8 to 46	a-416, 418	
		RSR-M1N		2.6 to 14.2	3.96 to 20.6	10 to 25	20 to 46	a-444	
		RSR-Z		0.88 to 4.41	1.37 to 6.57	8 to 16	17 to 32	a-432	
	Full-ball LM Guides - wide types	RSR-W, WV		0.25 to 6.66	0.47 to 9.8	4.5 to 16	12 to 60	a-420	<ul style="list-style-type: none"> <li>● Stainless steel type offered as standard</li> <li>● Long type with increased load capacity also offered as standard</li> <li>● Type M1, achieving max service temperature of 150°C, also available</li> </ul>
		RSR-M1WV		2.45 to 6.66	3.92 to 9.8	12 to 16	30 to 60	a-446	
		RSR-WN		0.39 to 9.91	0.75 to 14.9	4.5 to 16	12 to 60	a-420	
		RSR-M1WN		3.52 to 9.91	5.37 to 14.9	12 to 16	30 to 60	a-446	
		RSR-WZ		1.37 to 6.66	2.16 to 9.8	9 to 16	25 to 60	a-434	
	Full-ball LM Guides - ball-retaining plate types	RSH, RSH-K, RSH-V		0.88 to 2.65	1.37 to 4.02	8 to 13	17 to 27	a-456	<ul style="list-style-type: none"> <li>● Equipped with a ball-retaining plate</li> <li>● Stainless steel type offered as standard</li> </ul>
		RSH-Z		0.88 to 4.41	1.37 to 6.57	8 to 16	17 to 32	a-466	
	Full-ball LM Guide - orthogonal type	MX		0.59 to 2.04	1.1 to 3.21	10 to 14.5	15.2 to 30.2	a-478	<ul style="list-style-type: none"> <li>● A compact XY structure is allowed due to an XY orthogonal, single-piece LM block</li> <li>● Stainless steel type offered as standard</li> </ul>
Self-aligning circular arc types	Full-ball LM Guide	HCR		4.7 to 141	8.53 to 215	18 to 19	39 to 170	a-486	<ul style="list-style-type: none"> <li>● Circular-arc motion guide in a 4-way equal load design</li> <li>● Highly accurate circular-arc motion without play</li> <li>● Allows an efficient design with the LM block placed in the loading point</li> <li>● Large circular-arc motion easily achieved</li> </ul>
	Full-ball LM Guide	NSR-TBC		9.41 to 90.8	18.6 -152	40 to 105	70 to 175	a-498	<ul style="list-style-type: none"> <li>● Can be used in rough mount due to self-aligning on the fit surface of the case</li> <li>● Preload can be adjusted</li> <li>● Can be mounted on a black steel sheet</li> </ul>

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