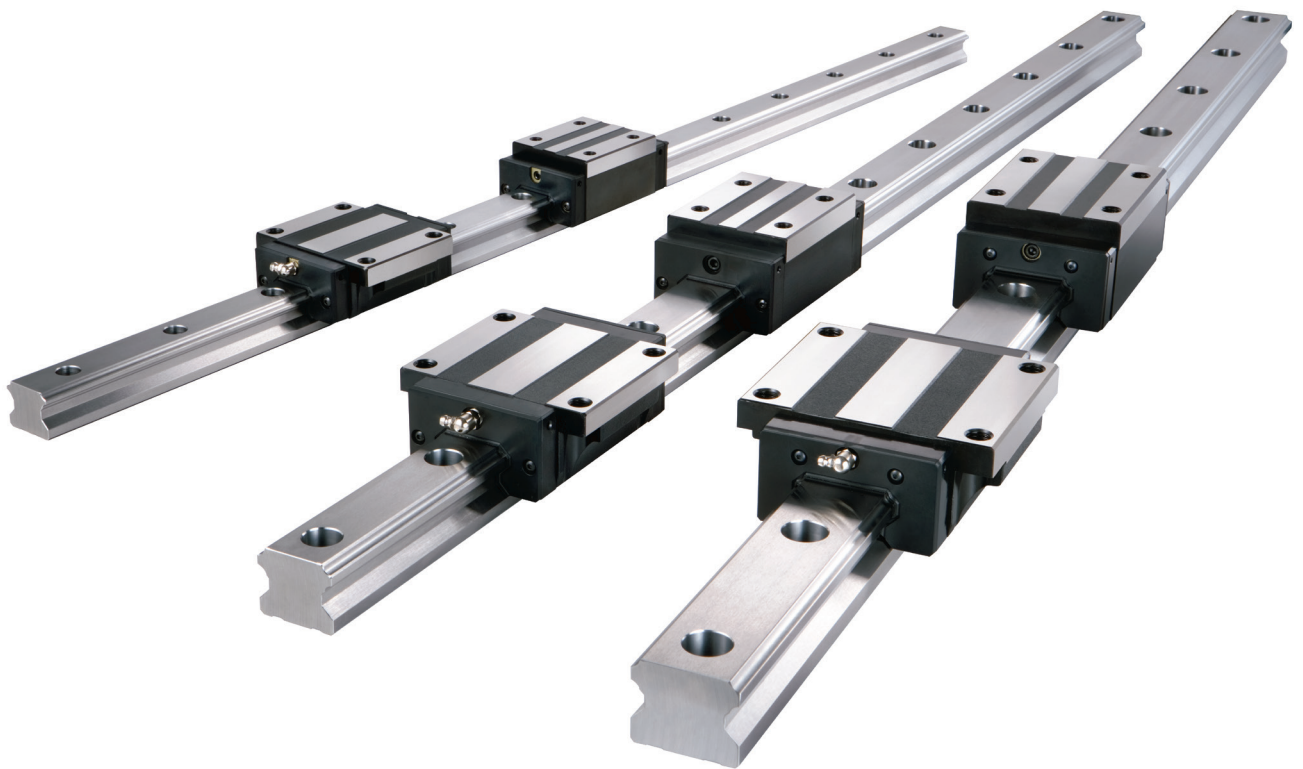


Linear Guides

MSA-EM Stainless Steel

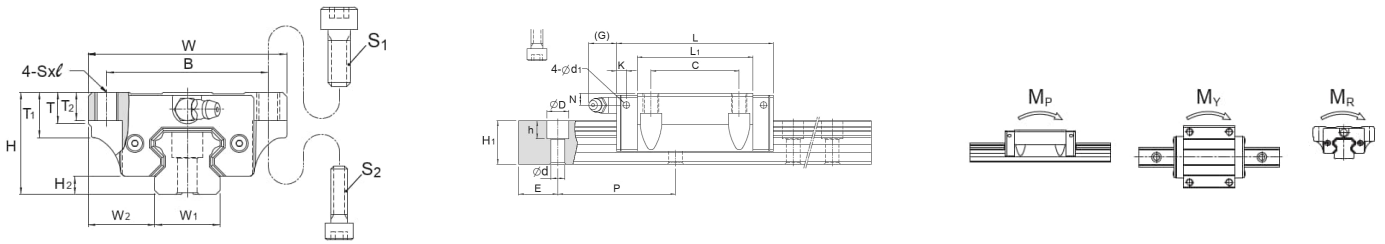
The MSA-EM series is a stainless steel series of linear guide. Manufactured from high grade, corrosion-resistant stainless steel, ensuring optimal performance in humid, or alkaline environments. The MSA-Series is specially suited for high precision and high rigidity required motion, for normal and high load.



TECHNICAL PRODUCT SPECIFICATION

Preload:	2 % of dynamic load capacity
Max speed:	3 m/s
Max acceleration:	23 m/s ²
Max temp:	80° Celsius
Material:	SUS 440C (Stainless Steel)
Recommended load:	Max. 25 % of dynamic and moment rating

Stainless Steel Linear Guides Features



Model No.	External Dimension					Carriage Dimension													
	Height H	Width W	Length L	W ₂	H ₂	B	C	S x l	S ₁	S ₂	L1	T	T ₁	T ₂	N	G	K	d ₁	Grease Nipple
MSA15EM	24	47	56.3	16	4.2	38	30	M5x7	M5	M4	39.3	7	11	7	4.3	7	3.2	3.3	G-M4x0.75
MSA20EM	30	63	72.9	21.5	5	53	40	M6x10	M6	M5	51.3	7	10	10	5	12	5.8	3.3	G-M6x0.75
MSA25EM	36	70	81.6	23.5	6.5	57	45	M8x10	M8	M6	59	11	16	10	6	12	5.8	3.3	G-M6x0.75


Model No.	Rail Dimension					Basic Load Rating		Static Moment Rating				Weight		
	Width W ₁	Height H ₁	Pitch P	E Std.	D x h x d	Dynamic C N	Static C ₀ N	M _p Nm		M _y Nm		M _r Nm	Carriage kg	Rail
								Single*	Double*	Single*	Double*			
MSA15EM	15	15	60	20	7.5x5.3x4.5	11 800	18 900	120	680	120	680	140	0.18	1.5
MSA20EM	20	18	60	20	9.5x8.5x6	19 200	29 500	230	1 420	230	1 420	290	0.4	2.4
MSA25EM	23	22	60	20	11x9x7	28 100	42 400	390	2 200	390	2 200	480	0.62	3.4

Carbon Steel Compatible	Superior Corrosion Resistance	Vacuum-Compatible Design	Four-Direction Equal Load Capacity	Advanced Lubrication System	Stainless Steel Material
Equivalent Functionality and Dimensions to Carbon Steel Linear Guides.	Manufactured from high-grade, corrosion-resistant stainless steel, ensuring optimal performance in humid, acidic, or alkaline environments.	Engineered to integrate seamlessly with metal accessories, making it well-suited for medium to low vacuum applications.	Rigid cross-section and a four-row, 45° contact-angle design provide equal load capacity in all directions and support preload for increased rigidity.	The internal lubrication circuit evenly distributes grease for smooth travel and longer service life in any mounting orientation.	Rails and blocks are manufactured from SUS 440C stainless steel. Balls, screws, and oil nipples are also stainless steel, but may use different materials.

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