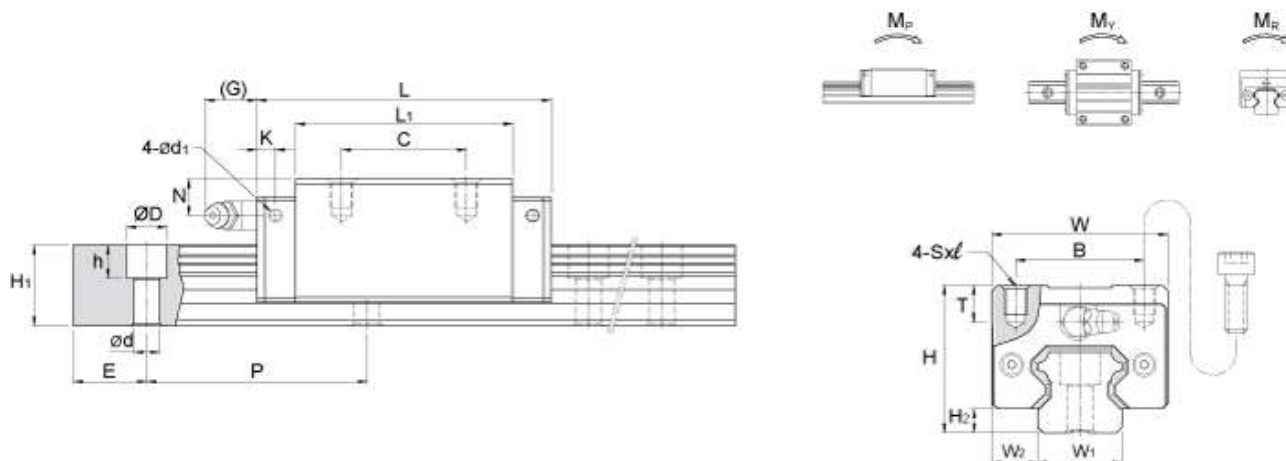


# MSA S/LS

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Note: The basic dynamic load rating C of ball type is based on the 50 km for nominal life.

The conversion between C for 50 km and C<sub>100</sub> for 100 km is C=1.26 x C<sub>100</sub>.

Note\*: Single: Single carriage / Double: Double carriages closely contacting with each other.

Unit:mm

Model No.	External dimension				Carriage dimension							Grease Nipple			
	Height H	Width W	Length L	W <sub>2</sub>	H <sub>2</sub>	B	C	S × ℓ	L <sub>1</sub>	T	N		G	K	d <sub>1</sub>
<b>MSA 15S</b>	28	34	56.3	9.5	4.2	26	26	M4 × 5	39.3	7.2	8.3	7	3.2	3.3	G-M4
<b>MSA 20S</b>	30	44	72.9	12	5	32	36	M5 × 6	51.3	8	5	12	5.8	3.3	G-M6
<b>MSA 20LS</b>			88.8				50		67.2						
<b>MSA 25S</b>	40	48	81.6	12.5	6.5	35	35	M6 × 8	59	10	10	12	5.8	3.3	G-M6
<b>MSA 25LS</b>			100.6				50		78						
<b>MSA 30S</b>	45	60	97	16	8	40	40	M8 × 10	71.4	11.7	10	12	6.8	3.3	G-M6
<b>MSA 30LS</b>			119.2				60		93.6						
<b>MSA 35S</b>	55	70	111.2	18	9.5	50	50	M8 × 12	81	12.7	15	11.5	8.6	3.3	G-M6
<b>MSA 35LS</b>			136.6				72		106.4						
<b>MSA 45S</b>	70	86	137.7	20.5	10	60	60	M10 × 17	102.5	16	20	13.5	10.6	3.3	G-PT1/8
<b>MSA 45LS</b>			169.5				80		134.3						
<b>MSA 55S</b>	80	100	161.5	23.5	13	75	75	M12 × 18	119.5	18	21	13.5	8.9	3.3	G-PT1/8
<b>MSA 55LS</b>			199.5				95		157.5						
<b>MSA 65S</b>	90	126	199	31.5	15	76	70	M16 × 20	149	23	19	13.5	8.9	3.3	G-PT1/8
<b>MSA 65LS</b>			253				120		203						

Model No.	Rail dimension				Basic load rating		Static moment rating				Weight			
	Width W <sub>1</sub>	Height H <sub>1</sub>	Pitch P	E std.	D × h × d	Dynamic C kN	Static Co kN	M <sub>p</sub> kN-m		M <sub>y</sub> kN-m		M <sub>R</sub> kN-m	Carriage kg	Rail kg/m
								Single*	Double*	Single*	Double*			
<b>MSA 15S</b>	15	15	60	20	7.5 × 5.3 × 4.5	11.8	18.9	0.12	0.68	0.12	0.68	0.14	0.18	1.5
<b>MSA 20S</b>	20	18	60	20	9.5 × 8.5 × 6	19.2	29.5	0.23	1.42	0.23	1.42	0.29	0.3	2.4
<b>MSA 20LS</b>						23.3	39.3	0.39	2.23	0.39	2.23	0.38	0.39	0.39
<b>MSA 25S</b>	23	22	60	20	11 × 9 × 7	28.1	42.4	0.39	2.20	0.39	2.20	0.48	0.52	3.4

<b>MSA 25LS</b>						34.4	56.6	0.67	3.52	0.67	3.52	0.63	0.68	
<b>MSA 30S</b>	28	26	80	20	14 x 12 x 9	39.2	57.8	0.62	3.67	0.62	3.67	0.79	0.86	4.8
<b>MSA 30LS</b>						47.9	77.0	1.07	5.81	1.07	5.81	1.05	1.12	
<b>MSA 35S</b>	34	29	80	20	14 x 12 x 9	52.0	75.5	0.93	5.47	0.93	5.47	1.25	1.45	6.6
<b>MSA 35LS</b>						63.6	100.6	1.60	8.67	1.60	8.67	1.67	1.9	
<b>MSA 45S</b>	45	38	105	22.5	20 x 17 x 14	83.8	117.9	1.81	10.67	1.81	10.67	2.57	2.83	11.5
<b>MSA 45LS</b>						102.4	157.3	3.13	16.95	3.13	16.95	3.43	3.7	
<b>MSA 55S</b>	53	44	120	30	23 x 20 x 16	123.6	169.8	3.13	17.57	3.13	17.57	4.50	4.12	15.5
<b>MSA 55LS</b>						151.1	226.4	5.40	28.11	5.40	28.11	6.00	4.91	
<b>MSA 65S</b>	63	53	150	35	26 x 22 x 18	198.8	265.3	6.11	33.71	6.11	33.71	8.36	6.43	21.9
<b>MSA 65LS</b>						253.5	375.9	11.84	57.32	11.84	57.32	11.84	8.76	