



Unit: mm

Model No.	External dimension					Carriage dimension									
	Height H	Width W	Length L	$W_2$	$H_2$	B	C	$S \times l$	$L_1$	T	N	G	K	$d_1$	Grease Nipple
MSA 15 S	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
MSA 20 S MSA 20 LS	30	44	72.9 88.8	12	5	32	36 50	M5×6	51.3 67.2	8	5	12	5.8	3.3	G-M6
MSA 25 S MSA 25 LS	40	48	81.6 100.6	12.5	6.5	35	35 50	M6×8	59 78	10	10	12	5.8	3.3	G-M6
MSA 30 S MSA 30 LS	45	60	97 119.2	16	8	40	40 60	M8×10	71.4 93.6	11.7	10	12	6.8	3.3	G-M6
MSA 35 S MSA 35 LS	55	70	111.2 136.6	18	9.5	50	50 72	M8×12	81 106.4	12.7	15	11.5	8.6	3.3	G-M6
MSA 45 S MSA 45 LS	70	86	137.7 169.5	20.5	10	60	60 80	M10×17	102.5 134.3	16	20	13.5	10.6	3.3	G-PT 1/8
MSA 55 S MSA 55 LS	80	100	162.1 200.1	23.5	13	75	75 95	M12×18	119.5 157.5	18	21	13.5	8.9	3.3	G-PT 1/8
MSA 65 S MSA 65 LS	90	126	199 253	31.5	15	76	70 120	M16×20	149 203	23	19	13.5	8.9	3.3	G-PT 1/8

**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  $C_{100}$  for 100 km is  $C=1.26 \times C_{100}$ .

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

Unit: mm

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 C <sub>0</sub> 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 15 S</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 20 S</b> <b>MSA 20 LS</b>	20	18	60	20	9.5×8.5×6	19.2 23.3	29.5 39.3	0.23 0.39	1.42 2.23	0.23 0.39	1.42 2.23	0.29 0.38	0.3 0.39	2.4
<b>MSA 25 S</b> <b>MSA 25 LS</b>	23	22	60	20	11×9×7	28.1 34.4	42.4 56.6	0.39 0.67	2.20 3.52	0.39 0.67	2.20 3.52	0.48 0.63	0.52 0.68	3.4
<b>MSA 30 S</b> <b>MSA 30 LS</b>	28	26	80	20	14×12×9	39.2 47.9	57.8 77.0	0.62 1.07	3.67 5.81	0.62 1.07	3.67 5.81	0.79 1.05	0.86 1.12	4.8
<b>MSA 35 S</b> <b>MSA 35 LS</b>	34	29	80	20	14×12×9	52.0 63.6	75.5 100.6	0.93 1.60	5.47 8.67	0.93 1.60	5.47 8.67	1.25 1.67	1.45 1.9	6.6
<b>MSA 45 S</b> <b>MSA 45 LS</b>	45	38	105	22.5	20×17×14	83.8 102.4	117.9 157.3	1.81 3.13	10.67 16.95	1.81 3.13	10.67 16.95	2.57 3.43	2.83 3.7	11.5
<b>MSA 55 S</b> <b>MSA 55 LS</b>	53	44	120	30	23×20×16	123.6 151.1	169.8 226.4	3.13 5.40	17.57 28.11	3.13 5.40	17.57 28.11	4.50 6.00	4.12 4.91	15.5
<b>MSA 65 S</b> <b>MSA 65 LS</b>	63	53	150	35	26×22×18	198.8 253.5	265.3 375.9	6.11 11.84	33.71 57.32	6.11 11.84	33.71 57.32	8.36 11.84	6.43 8.76	21.9