



Model No.	Bolt Size	
	$S_1$	$S_2$
MSB 15	M5	M4
MSB 20	M6	M5
MSB 25	M8	M6
MSB 30	M10	M8
MSB 35	M10	M8

Unit: mm

Model No.	External dimension					Carriage dimension										
	Height H	Width W	Length L	W <sub>2</sub>	H <sub>2</sub>	B	C	S × l	L <sub>1</sub>	T	T <sub>1</sub>	N	G	K	d <sub>1</sub>	Grease Nipple
<b>MSB 15 TE</b> MSB 15 E	24	52	40.2 57.2	18.5	4.5	41	- 26	M5×7	23.5 40.5	5	7	5.5	5.5	5.1	3.3	G-M4
<b>MSB 20 TE</b> MSB 20 E	28	59	48 67	19.5	6	49	- 32	M6×9	29 48	5	9	5.5	12	5.9	3.3	G-M6
<b>MSB 25 TE</b> MSB 25 E	33	73	60.2 82	25	7	60	- 35	M8×10	38.7 60.5	7	10	6	12	6.2	3.3	G-M6
<b>MSB 30 TE</b> MSB 30 E	42	90	68 96.7	31	9.5	72	- 40	M10×10	43.3 72	7	10	8	12	6.3	3.3	G-M6
<b>MSB 35 TE</b> MSB 35 E MSB 35 LE	48	100	78 112 137.5	33	9.5	82	- 50 62	M10×13	46 80 105.5	9	13	8.5	12	9.8	3.3	G-M6

**Note:** Rail mounting holes for M3 (6x4.5x3.5) and M4 (7.5x5.3x4.5) are available for MSB15 rail. The codes of rail type are MSB15R for M3 mounting holes, and MSB15U for M4 mounting holes.

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

**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>o</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>MSB 15 TE</b> <b>MSB 15 E</b>	15	12.5	60	20	6×4.5×3.5 (7.5×5.3×4.5)	6.7 10.0	9.6 16.9	0.04 0.10	0.26 0.61	0.04 0.10	0.26 0.61	0.07 0.13	0.12 0.21	1.2
<b>MSB 20 TE</b> <b>MSB 20 E</b>	20	15	60	20	9.5×8.5×6	9.7 13.9	14.2 23.6	0.07 0.18	0.44 0.97	0.07 0.18	0.44 0.97	0.14 0.24	0.20 0.34	2
<b>MSB 25 TE</b> <b>MSB 25 E</b>	23	18	60	20	11×9×7	15.6 22.3	22.1 36.9	0.13 0.35	0.91 1.87	0.13 0.35	0.91 1.87	0.26 0.43	0.39 0.60	3
<b>MSB 30 TE</b> <b>MSB 30 E</b>	28	23	80	20	11×9×7	23.1 32.9	31.8 53.1	0.23 0.60	1.39 3.15	0.23 0.60	1.39 3.15	0.45 0.74	0.65 1.08	4.4
<b>MSB 35 TE</b> <b>MSB 35 E</b> <b>MSB 35 LE</b>	34	27.5	80	20	14×12×9	35.7 52.0 63.6	44.0 75.5 100.6	0.34 0.93 1.60	2.81 5.47 8.67	0.34 0.93 1.60	2.81 5.47 8.67	0.75 1.28 1.67	0.91 1.61 1.80	6.2