

# Miniature Linear Guide

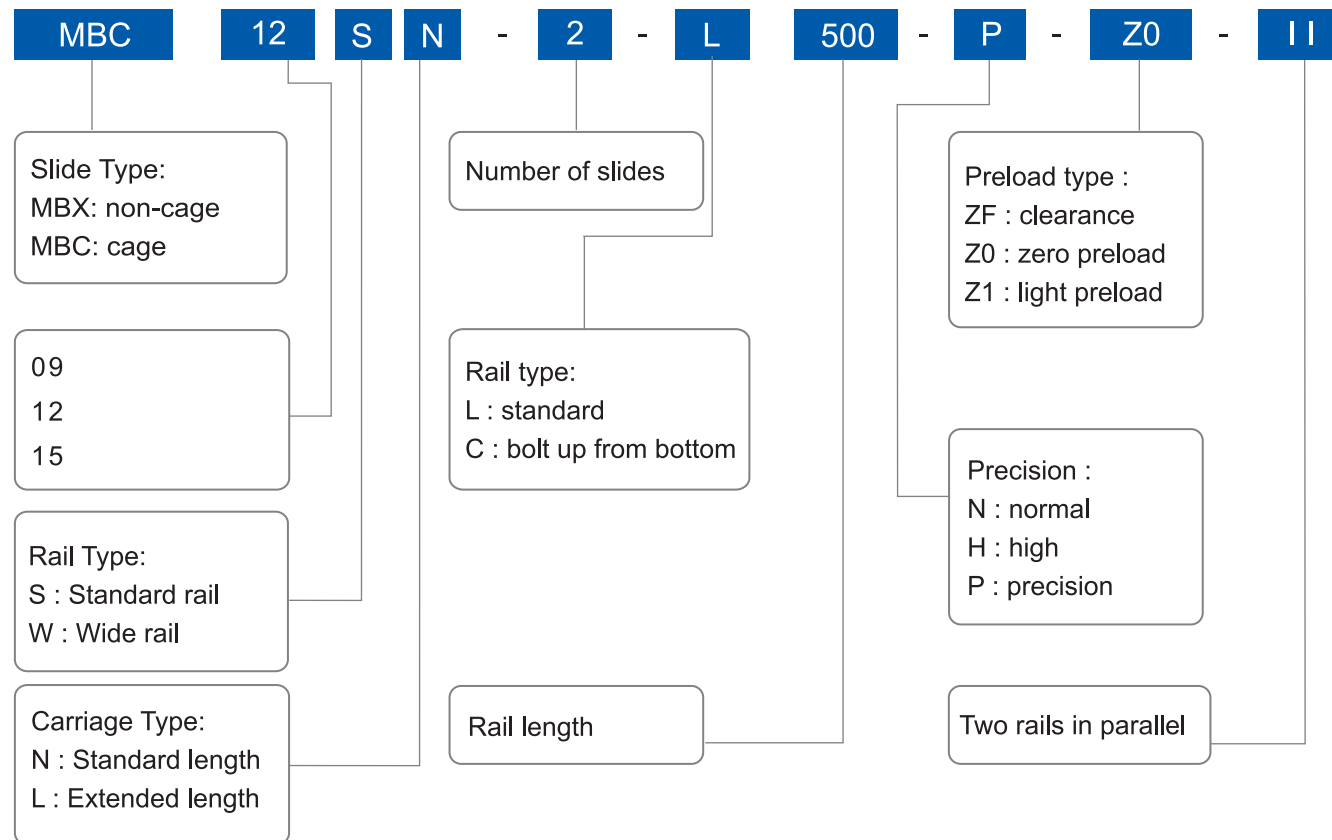
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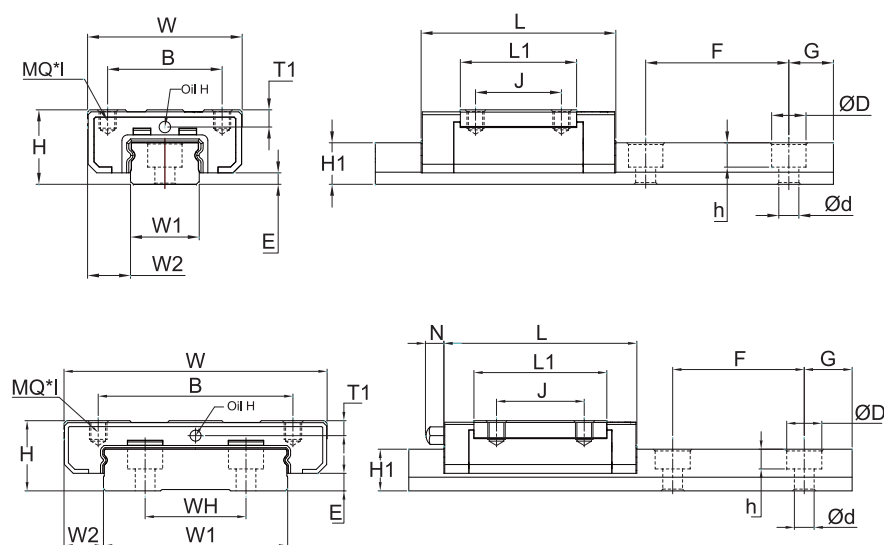
## STAF MB Series / MBX & MBC

### Model Number Coding



- ▶ Interchangeable to other brands
- ▶ Cage optimizes lubrication
- ▶ Ensuring high-accuracy design
- ▶ Built-in dust sealing



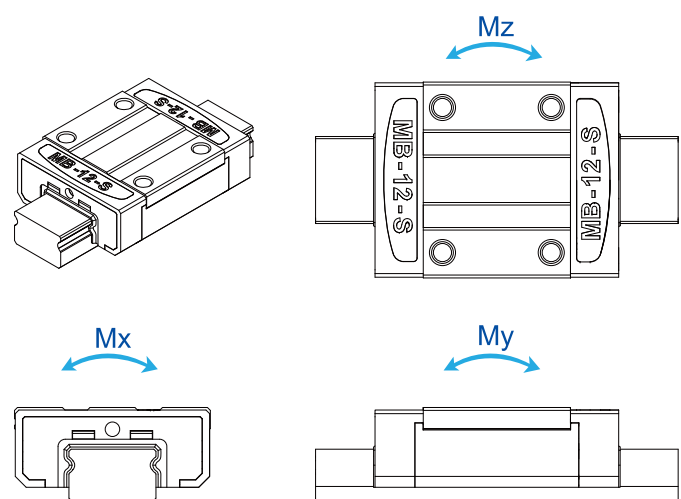


## MB SERIES >>> MBX Non Cage type

Model	Assembly - mm				Block - mm								Rail - mm								Rating load - kN		Static moment - kN-m			Weight			
	H	W	W2	E	L	B	J	MQ	I	L1	Oil-H	T1	N	W1	H1	F	d	D	h	WH	G	L max	C	C0	M <sub>x</sub>	M <sub>y</sub>	M <sub>z</sub>	Block - kg	Rail - kg/m
MBX09SN	10	20	5.5	2.2	30.8	15	10	M3	2.8	19.5	Ø1.5	2.4	-	9	6.05	20	3.5	6	3.3	-	7.5	900	2.01	2.26	10.35	8.34	8.34	0.014	0.39
MBX09SL	10	20	5.5	2.2	40.5	15	16	M3	2.8	29.2	Ø1.5	2.4	-	9	6.05	20	3.5	6	3.3	-	7.5	900	2.75	3.24	14.71	16.67	16.67	0.020	0.39
MBX12SN	13	27	7.5	2	34	20	15	M3	3.2	20.3	Ø2	3	-	12	7.25	25	3.5	6	4.25	-	10	900	3.29	3.43	22.48	11.67	11.67	0.029	0.63
MBX12SL	13	27	7.5	2	47	20	20	M3	3.2	33.3	Ø2	3	-	12	7.25	25	3.5	6	4.3	-	10	900	4.41	5.15	33.34	27.46	27.46	0.047	0.63
MBX15SN	16	32	8.5	4	42	25	20	M3	3.5	25.3	M3	3.5	5	15	9.5	40	3.5	6	4.5	-	15	900	5.44	5.59	39.23	25.50	25.50	0.047	1.05
MBX15SL	16	32	8.5	4	59.8	25	25	M3	3.5	43.1	M3	3.5	5	15	9.5	40	3.5	6	4.5	-	15	900	7.16	7.85	54.92	53.94	53.94	0.078	1.05
MBX09WN	12	30	6	3.4	39	21	12	M3	2.8	26.7	Ø1.5	2.3	-	18	7.5	30	3.5	6	4.5	-	10	900	2.60	3.24	30.60	14.71	14.71	0.030	0.98
MBX09WL	12	30	6	3.4	51	23	24	M3	2.8	38.7	Ø1.5	2.3	-	18	7.5	30	3.5	6	4.5	-	10	900	3.33	4.22	40.21	26.97	26.97	0.042	0.98
MBX12WN	14	40	8	3.8	44.5	28	15	M3	3.5	30.5	Ø2	3	-	24	8.7	40	4.5	8	4.5	-	15	900	4.32	5.20	64.73	25.69	25.69	0.052	1.53
MBX12WL	14	40	8	3.8	59.1	28	28	M3	3.5	45.1	Ø2	3	-	24	8.7	40	4.5	8	4.5	-	15	900	5.59	6.91	86.30	47.56	47.56	0.076	1.53
MBX15WN	16	60	9	4	55.5	45	20	M4	4.5	38.1	M3	3.5	5	42	9.5	40	4.5	8	4.5	23	15	900	7.26	8.38	171.62	50.02	50.02	0.111	2.97
MBX15WL	16	60	9	4	74.7	45	35	M4	4.5	57.3	M3	3.5	5	42	9.5	40	4.5	8	4.5	23	15	900	8.92	10.79	220.66	95.62	95.62	0.165	2.97

## MB SERIES >>> MBC Cage type

Model	Assembly - mm				Block - mm								Rail - mm								Rating load - kN		Static moment - kN-m			Weight			
	H	W	W2	E	L	B	J	MQ	I	L1	Oil-H	T1	N	W1	H1	F	d	D	h	WH	G	L max	C	C0	M <sub>x</sub>	M <sub>y</sub>	M <sub>z</sub>	Block - kg	Rail - kg/m
MBC09SN	10	20	5.5	2.2	30.8	15	10	M3	2.8	19.5	Ø1.5	2.4	-	9	6.05	20	3.5	6	3.3	-	7.5	900	2.65	2.26	10.35	8.34	8.34	0.014	0.39
MBC09SL	10	20	5.5	2.2	40.5	15	16	M3	2.8	29.2	Ø1.5	2.4	-	9	6.05	20	3.5	6	3.3	-	7.5	900	3.43	3.24	14.71	16.67	16.67	0.020	0.39
MBC12SN	13	27	7.5	2	34	20	15	M3	3.2	20.3	Ø2	3	-	12	7.25	25	3.5	6	4.25	-	10	900	3.92	3.43	22.48	11.67	11.67	0.029	0.63
MBC12SL	13	27	7.5	2	47	20	20	M3	3.2	33.3	Ø2	3	-	12	7.25	25	3.5	6	4.3	-	10	900	5.59	5.15	33.34	27.46	27.46	0.047	0.63
MBC15SN	16	32	8.5	4	42	25	20	M3	3.5	25.3	M3	3.5	5	15	9.5	40	3.5	6	4.5	-	15	900	6.52	5.59	39.23	25.50	25.50	0.047	1.05
MBC15SL	16	32	8.5	4	59.8	25	25	M3	3.5	43.1	M3	3.5	5	15	9.5	40	3.5	6	4.5	-	15	900	8.83	7.85	54.92	53.94	53.94	0.078	1.05
MBC09WN	12	30	6	3.4	39	21	12	M3	2.8	26.7	Ø1.5	2.3	-	18	7.5	30	3.5	6	4.5	-	10	900	3.19	3.24	30.60	14.71	14.71	0.030	0.98
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MBC15WN	16	60	9	4	55.5	45	20	M4	4.5	38.1	M3	3.5	5	42	9.5	40	4.5	8	4.5	23	15	900	8.92	8.38	171.62	50.02	50.02	0.111	2.97
MBC15WL	16	60	9	4	74.7	45	35	M4	4.5	57.3	M3	3.5	5	42	9.5	40	4.5	8	4.5	23	15	900	11.18	10.79	220.66	95.62	95.62	0.165	2.97



## MB SERIES >>> Accuracy Standards

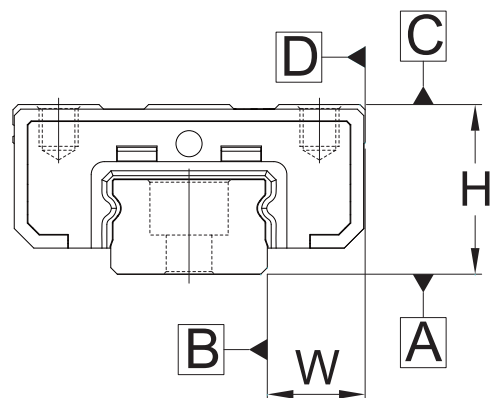


Fig. 1-1

	Unit: mm		
	N Normal	H High	P Precision
Dimensional tolerance of height (H)	±0.04	±0.02	±0.01
Dimensional tolerance of width (W)	±0.04	±0.025	±0.015
Variation of heights (ΔH)	0.03	0.015	0.007
Variation of widths (ΔW)	0.03	0.02	0.01
Running Parallelism of Block surface [C] with respect to surface [A]	ΔC Refer to Fig. 1-1, 1-2		
Running Parallelism of Block surface [D] with respect to surface [B]	ΔD Refer to Fig. 1-1, 1-2		

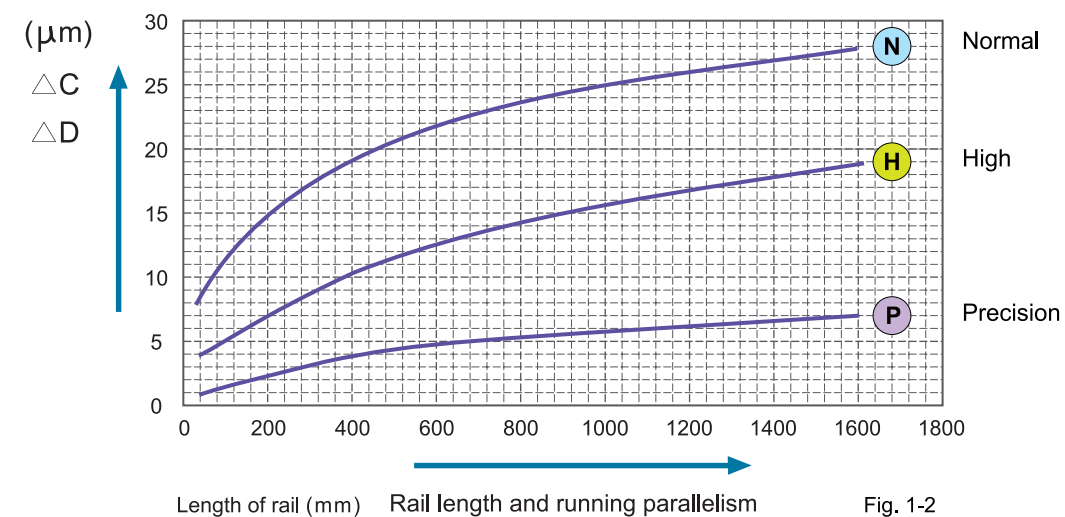


Fig. 1-2