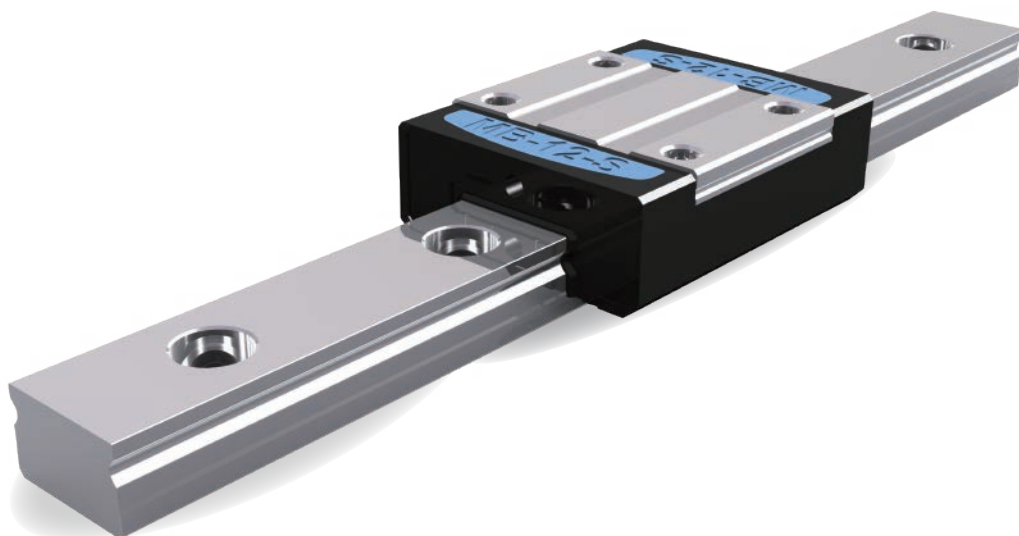
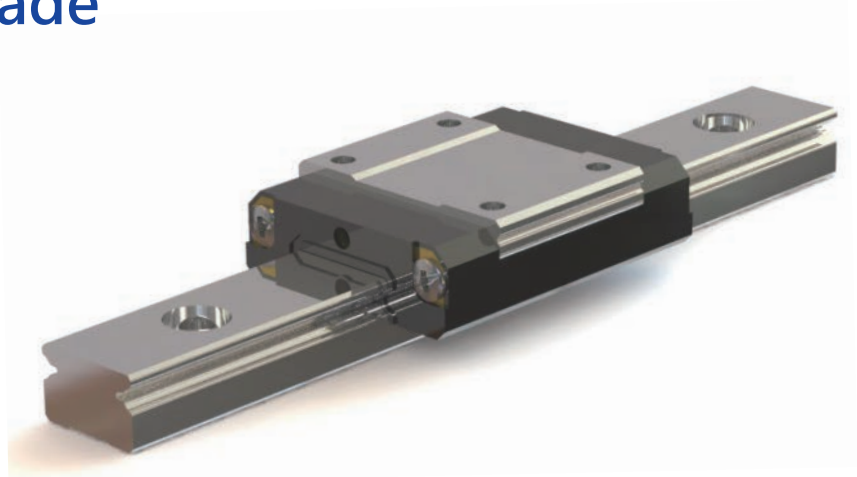




Miniature Linear Guide

STAF MB Series & MPH Series

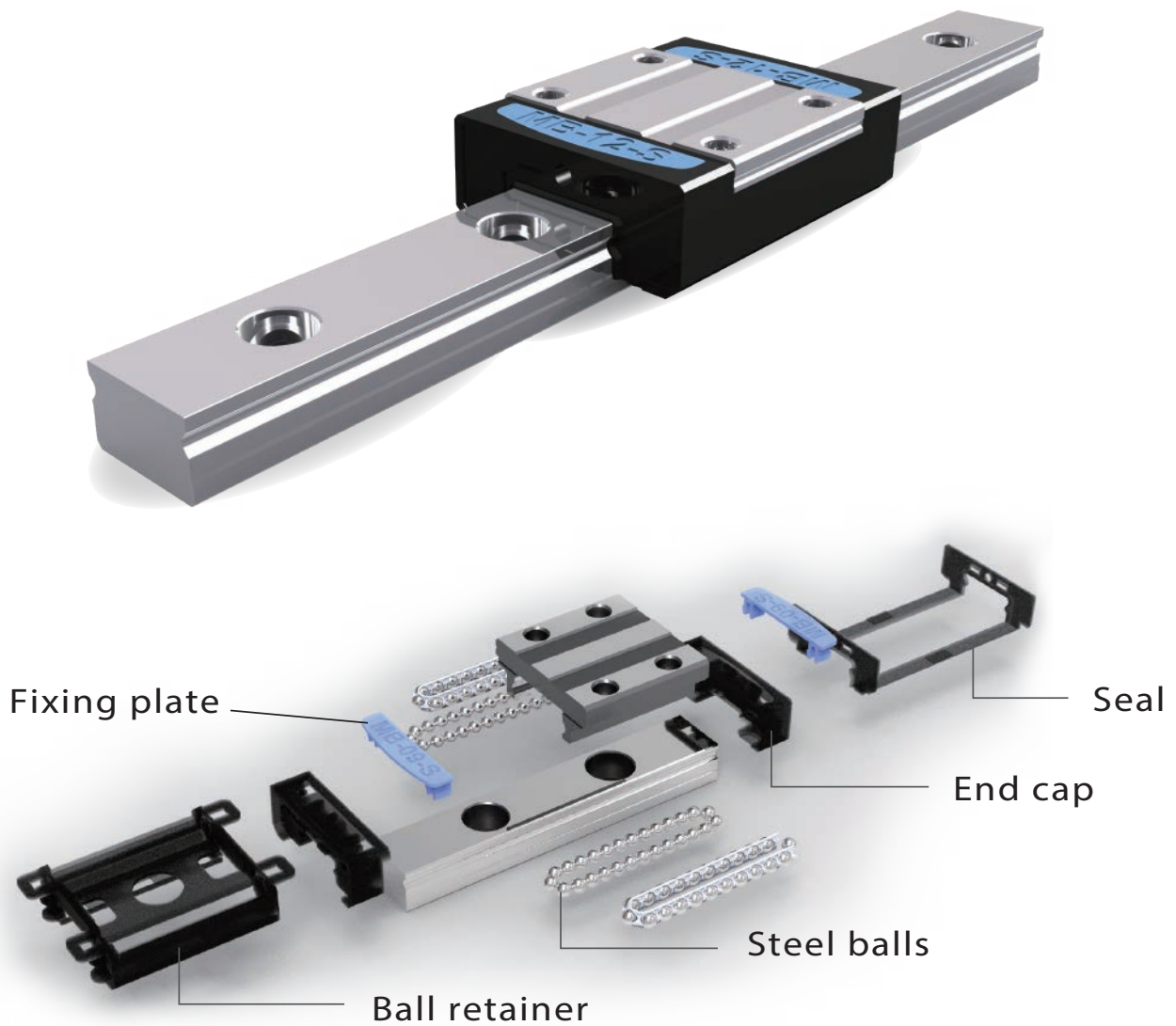
- ▶ Stainless Steel Made
- ▶ Compact Design
- ▶ Lightweight

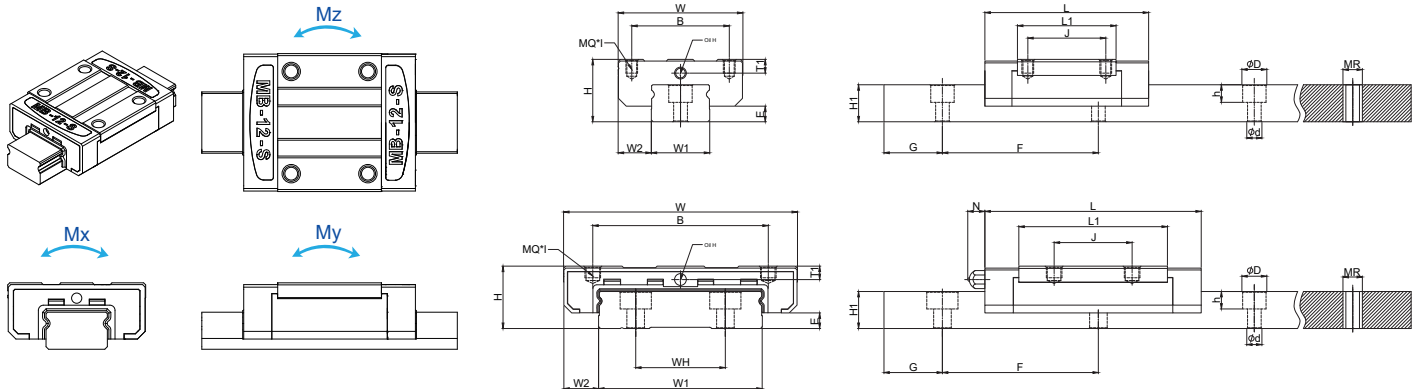




MB Series

- ▶ Screwless design
- ▶ Caged type reduces noise and improves motion smoothness
- ▶ Caged and Non-caged types share the same profile rail





MB SERIES >>> MBX Non-caged Type

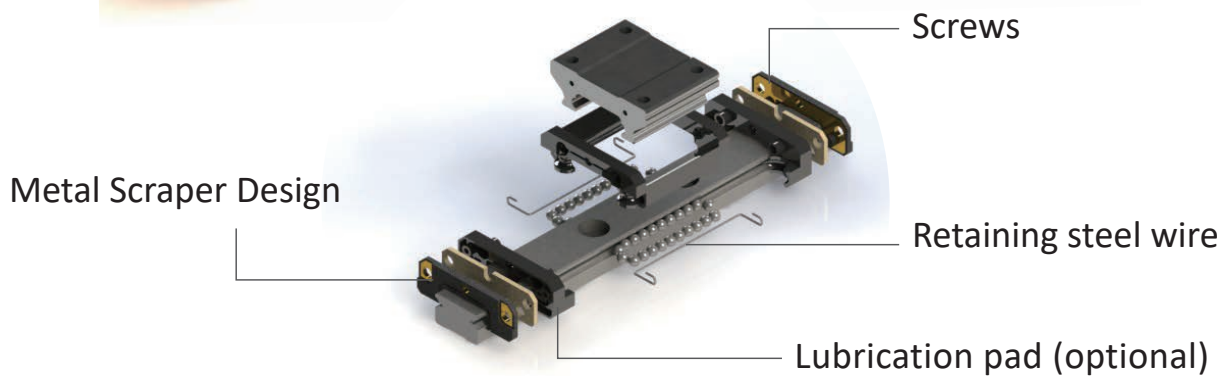
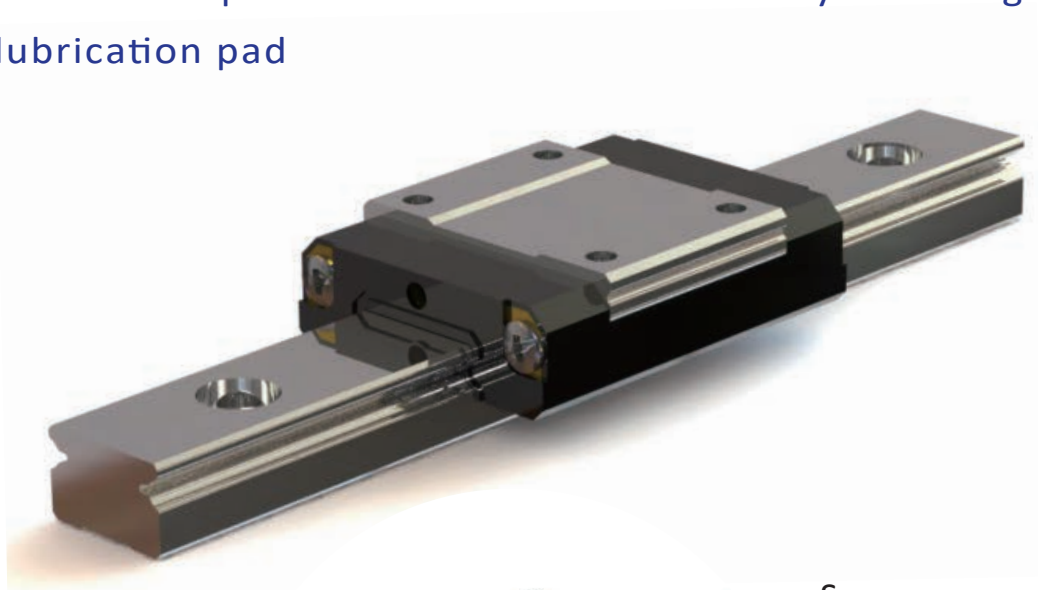
Model	Assembly - mm					Block - mm									Rail - mm												Rating load - kN		Static moment - N·m			Weight	
	H	W	W2	E	L	B	J	MQ	I	L1	Oil-H	T1	N	W1	H1	F	d	D	h	WH	G	MR	L max	C	C0	M _x	M _y	M _z	Block kg	Rail kg/m			
MBXX09SN	10	20	5.5	2.2	30.8	15	10	M3	2.5	19.5	Ø1.5	2.4	-	9	6.05	20	3.5	6	3.3	-	7.5	M4	1000	2.01	2.26	10.35	8.34	8.34	0.014	0.39			
MBXX09SL	10	20	5.5	2.2	40.5	15	16	M3	2.5	29.2	Ø1.5	2.4	-	9	6.05	20	3.5	6	3.3	-	7.5	M4	1000	2.75	3.24	14.71	16.67	16.67	0.020	0.39			
MBXX12SN	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	M4	1000	3.29	3.43	22.48	11.67	11.67	0.029	0.63			
MBXX12SL	13	27	7.5	2	47	20	20	M3	3.2	33.3	Ø2	3	-	12	7.25	25	3.5	6	4.25	-	10	M4	1000	4.41	5.15	33.34	27.46	27.46	0.047	0.63			
MBXX15SN	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	M4	1000	5.44	5.59	39.23	25.50	25.50	0.047	1.05			
MBXX15SL	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	M4	1000	7.16	7.85	54.92	53.94	53.94	0.078	1.05			
MBXX09WN	12	30	6	3.4	39	21	12	M3	2.5	26.7	Ø1.5	2.3	-	18	7.5	30	3.5	6	4.5	-	10	M4	1000	2.60	3.24	30.60	14.71	14.71	0.030	0.98			
MBXX09WL	12	30	6	3.4	51	23	24	M3	2.5	38.7	Ø1.5	2.3	-	18	7.5	30	3.5	6	4.5	-	10	M4	1000	3.33	4.22	40.21	26.97	26.97	0.042	0.98			
MBXX12WN	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	M5	1000	4.32	5.20	64.73	25.69	25.69	0.052	1.53			
MBXX12WL	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	M5	1000	5.59	6.91	86.30	47.56	47.56	0.076	1.53			
MBXX15WN	16	60	9	4	55.5	45	20	M4	4.3	38.1	M3	3.5	5	42	9.5	40	4.5	8	4.5	23	15	M5	1000	7.26	8.38	171.62	50.02	50.02	0.111	2.97			
MBXX15WL	16	60	9	4	74.7	45	35	M4	4.3	57.3	M3	3.5	5	42	9.5	40	4.5	8	4.5	23	15	M5	1000	8.92	10.79	220.66	95.62	95.62	0.165	2.97			

MB SERIES >>> MBC Caged Type

Model	Assembly - mm				Block - mm										Rail - mm										Rating load - kN		Static moment - N · m			Weight	
	H	W	W2	E	L	B	J	MQ	I	L1	Oil-H	T1	N	W1	H1	F	d	D	h	WH	G	MR	L max	C	C0	M _x	M _y	M _z	Block kg	Rail kg/m	
MBCX09SN	10	20	5.5	2.2	30.8	15	10	M3	2.5	19.5	Ø1.5	2.4	-	9	6.05	20	3.5	6	3.3	-	7.5	M4	1000	1.90	2.18	8.19	5.00	5.00	0.014	0.39	
MBCX09SL	10	20	5.5	2.2	40.5	15	16	M3	2.5	29.2	Ø1.5	2.4	-	9	6.05	20	3.5	6	3.3	-	7.5	M4	1000	2.60	2.99	11.01	10.00	10.00	0.020	0.39	
MBCX12SN	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	M4	1000	2.70	3.10	16.07	7.00	7.00	0.029	0.63	
MBCX12SL	13	27	7.5	2	47	20	20	M3	3.2	33.3	Ø2	3	-	12	7.25	25	3.5	6	4.25	-	10	M4	1000	3.90	4.48	25.36	14.68	14.68	0.047	0.63	
MBCX15SN	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	M4	1000	3.60	4.14	28.21	15.30	15.30	0.047	1.05	
MBCX15SL	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	M4	1000	5.40	6.21	40.64	32.36	32.36	0.078	1.05	
MBCX09WN	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	M4	1000	2.40	2.76	22.52	8.83	8.83	0.030	0.98	
MBCX09WL	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	M4	1000	3.10	3.56	30.94	16.18	16.18	0.042	0.98	
MBCX12WN	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	M5	1000	3.70	4.25	48.00	15.41	15.41	0.052	1.53	
MBCX12WL	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	M5	1000	3.90	4.48	64.93	28.54	28.54	0.076	1.53	
MBCX15WN	16	60	9	4	55.5	45	20	M4	4.3	38.1	M3	3.5	5	42	9.5	40	4.5	8	4.5	23	15	M5	1000	4.90	5.63	126.52	30.01	30.01	0.111	2.97	
MBCX15WL	16	60	9	4	74.7	45	35	M4	4.3	57.3	M3	3.5	5	42	9.5	40	4.5	8	4.5	23	15	M5	1000	6.60	7.59	165.94	57.37	57.37	0.165	2.97	

MPH Series

- ▶ Steel wire retainer
- ▶ Maintenance period can be well extended by the integration of lubrication pad



MPH SERIES

#	Model	Assembly – mm				Block – mm								
		H	W	W2	E	L	B	J	MQ	I	L1	Oil-H	T1	
	MPHX07SN	8	17	5	1.5	24	12	8	M2	2.3	13	Ø1.1	1.7	
	MPHX09SN	10	20	5.5	2.3	33.9	15	10	M3	3	20.4	Ø1.3	2.2	
	MPHX09SL	10	20	5.5	2.3	43.9	15	16	M3	3	30.4	Ø1.3	2.2	
	MPHX12SN	13	27	7.5	3.05	36.4	20	15	M3	3.5	20.4	Ø2.0	2.9	
	MPHX12SL	13	27	7.5	3.05	48.8	20	20	M3	3.5	32.9	Ø2.0	2.9	
	MPHX15SN	16	32	8.5	3.9	42.9	25	20	M3	4.5	25.7	Ø2.5	3.35	
	MPHX15SL	16	32	8.5	3.9	59.2	25	25	M3	4.5	42	Ø2.5	3.35	

Lubrication pad unavailable

Accuracy Standards

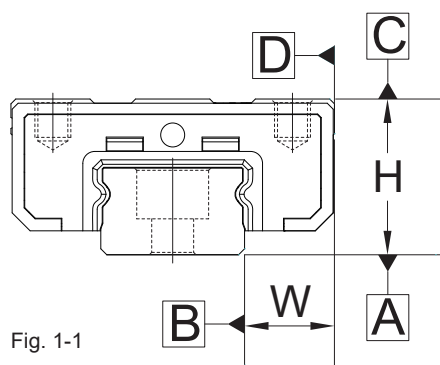
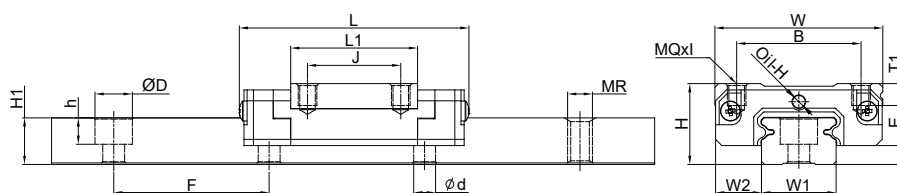
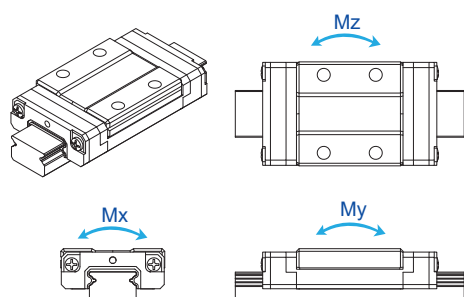
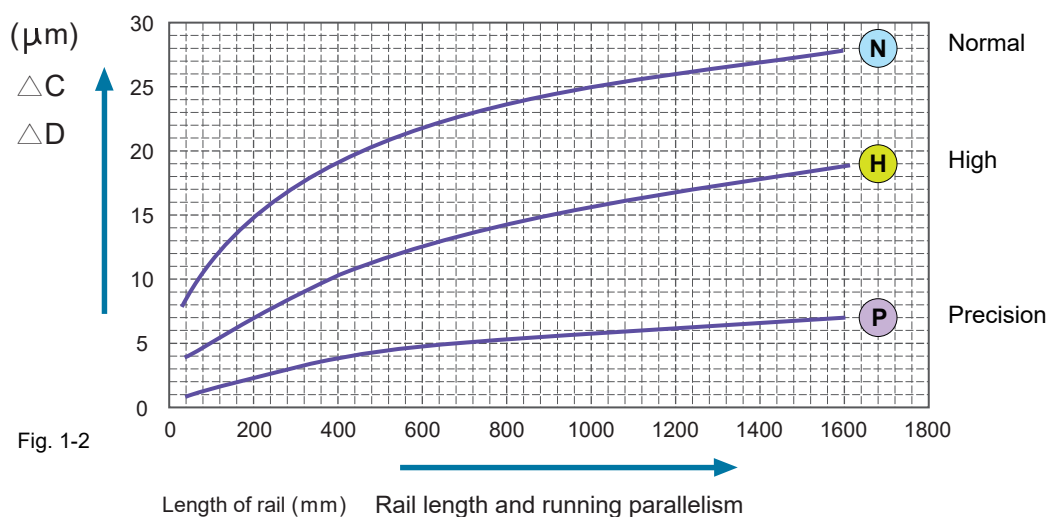


Fig. 1-1

Unit:mm

Item \ Class	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		

* P level non-interchangeable. If you have any questions, please kindly contact us.



Rail - mm										Rating load - kN		Static moment - N·m			Weight	
W1	H1	F	d	D	h	WH	MR	L max		C	C0	M _X	M _Y	M _Z	Block - kg	Rail - kg/m
7	4.7	15	2.4	4.5	2.4	-	M3	500		1.02	1.26	4.97	3.05	3.65	0.009	0.25
9	5.5	20	3.5	6	3.3	-	M4	1000		1.93	3.42	12.87	7.04	7.04	0.019	0.3
9	5.5	20	3.5	6	3.3	-	M4	1000		2.67	5.47	20.02	13.64	13.64	0.027	0.3
12	7.5	25	3.5	6	4.3	-	M4	1000		2.87	4.80	22.58	13.55	13.55	0.033	0.60
12	7.5	25	3.5	6	4.3	-	M4	1000		3.92	7.40	38.39	33.20	33.20	0.05	0.60
15	9.5	40	3.5	6	4.5	-	M4	1000		4.74	6.11	47.01	20.37	20.37	0.055	0.99
15	9.5	40	3.5	6	4.5	-	M4	1000		6.47	9.5	73.13	57.06	57.06	0.087	0.99



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MEMO

A series of horizontal dashed lines for writing.



Miniature Linear Guide

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Product Codes

MBC	X	12	S	N	2	UA	L	500	H	Z0	II	R	1
Carriage type : MBC : Caged MBX : Non-caged MPH													
Material : X : Stainless steel													
Size : MB : 09, 12, 15 MPH : 07, 09, 12, 15													
Rail width : S : Standard W : Wide													
Carriage length : N : Standard L : Long													
Number of carriages													
UA : Lubrication pad (MPH series only)													
Rail mounting type : L : Counterbored holes (standard) C : Bottom tapped holes J : Jointed rails (counterbored holes) D : Jointed rails (bottom tapped holes) X : Customized													
Rail length (mm)													
Precision grades : N : Normal H : High P : Precision (P level non-interchangeable. If you have any questions, please kindly contact us.)													
Preload grade : Z0 : No preload Z1 : Light preload													
Number of parallel rails													
Surface treatment (precision grade N only) : - : Without coating D : Trivalent chromium K : Black chromium N : Nickel R : Fluoride chromium													
Treated parts : - : Without coating (1) Rail only (2) Carriage only (3) Rail and carriage (X) By order													

