



EMD KM SERIES GUIDEWAY CATALOG

Linear Recirculating Ball
Bearing & Guideway





EMD LINEAR MOTION SYSTEMS integrates product development, production, sales, and application services. It specializes in the production of ball screws, linear guides, sliders, linear modules, linear shaft, and a series of high-precision, high Technology linear motion products. Many of the products have won national patents and have reached a number of international testing and certification standards.

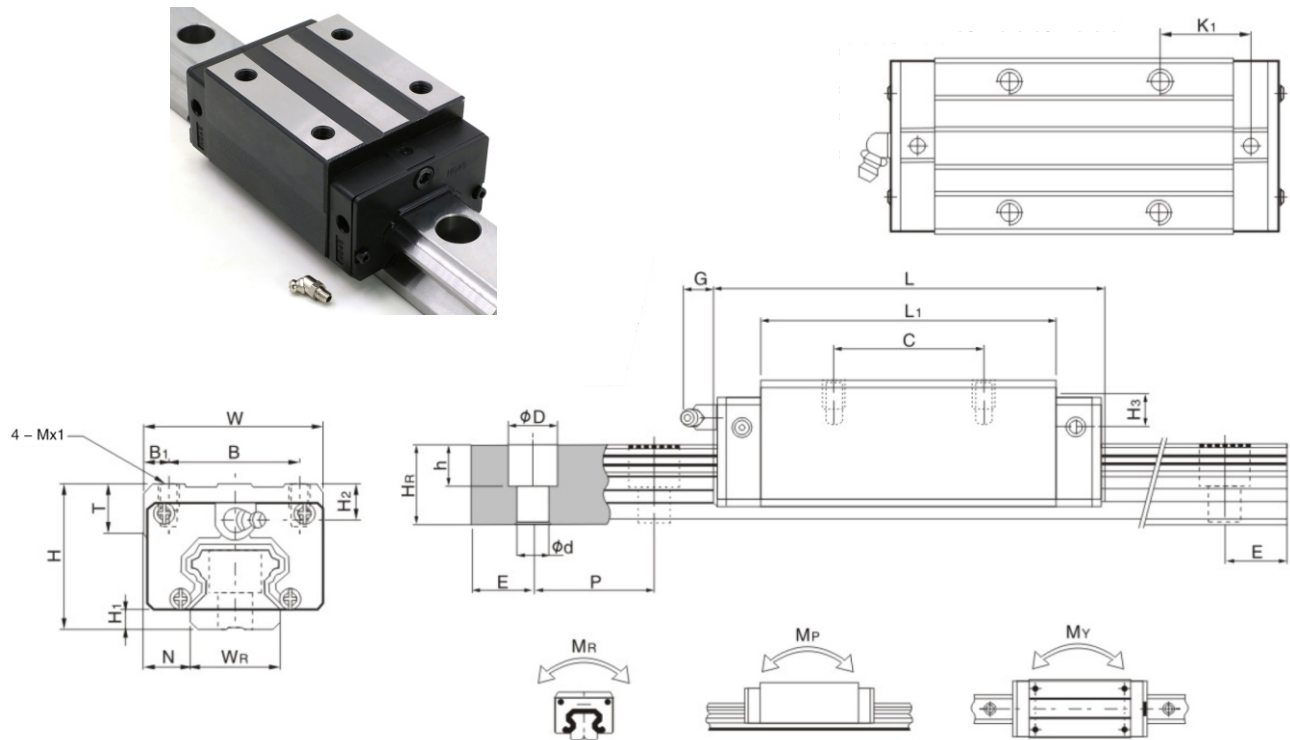
The company covers an area of more than 26,000 square meters and has more than 200 employees, including more than 50 senior technicians. We adopt superb technology, set strict corporate standards, and provide meticulous service! A complete product quality control system has been established, equipped with high-end inspection and testing equipment such as metallographic microscopes and contour measuring instruments. From raw materials to production, processing, and inspection packaging, every step is strictly controlled to ensure product quality!

Our products are widely used in medical machinery, printing machinery, chemical machinery, woodworking machinery, machine tools, robots and other automated machinery and equipment. The company's production technology level, product quality and service level have always been in the leading position in the same industry! Customers all over the world, and have won unanimous recognition and praise from customers!

Our company adheres to the concept of "high-quality products and efficient service", and takes the creation of customer value as its own responsibility. We look forward to cooperating with you to create a brilliant future!

EMD KM Series Linear Guideway

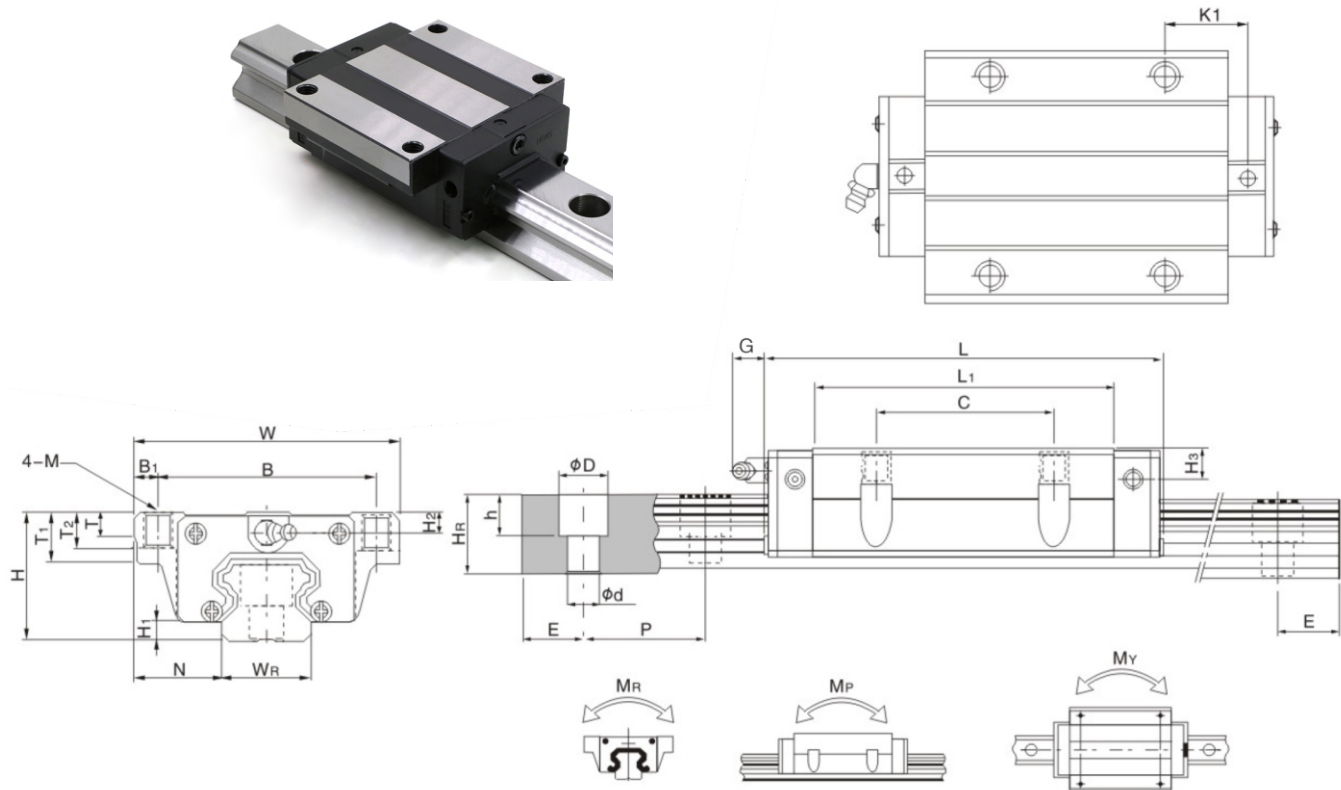
Dimensions of KM B-H / KM B-HL Series Linear Guideway (High Load Square Type)



Model No.	Dimensions Of Assembly (mm)			Dimensions of Block(mm)														Dimensions of Rail (mm)										Mounting Bolt for rail	Basic Dynamic Load Rating	Basic Staic Load Rating	Static Rated Moment			Weight	
	H	H ₁	N	W	B	B ₁	C	L ₁	L	K ₁	G	Mx ₁	T	H ₂	H ₃	W _R	H _R	D	h	d	P	E	(mm)	C (kN)	Co (kN)	MR	MP				MY	Block	Rail		
																											kN-m	kN-m	kN-m	kg	kg/m				
KM15B-H	28	4.3	9.5	34	26	4	26	39.4	61.4	10	5.3	M4x5	6	8	7.7	15	15	7.5	5.3	4.5	60	20	M4x16	11.38	25.31	0.17	0.15	0.15	0.18	1.45					
KM20B-H	30	4.6	12	44	32	6	36	50.5	77.5	12	12	M5x6	8	6	7	20	18	9.5	8.5	6	60	20	M5x16	17.75	37.84	0.38	0.27	0.27	0.3	2.21					
KM20B-HL							50	65.2	92.2	13														21.18	48.84	0.48	0.47	0.47	0.39						
KM25B-H	40	5.5	13	48	35	6.5	35	58	84	17	12	M6x8	8	10	13	23	22	11	9	7	60	20	M6x20	26.48	56.19	0.64	0.51	0.51	0.51	3.21					
KM25B-HL							50	78.6	104.6	20														32.75	76	0.87	0.88	0.88	0.69						
KM30B-H	45	6	16	60	40	10	40	70	97.4	20	12	M8x10	8.5	9.5	14	28	26	14	12	9	80	20	M8x25	38.74	83.06	1.06	0.85	0.85	0.88	4.47					
KM30B-HL							60	93	120.4	22														47.27	110.13	1.4	1.47	1.47	1.16						
KM35B-H	55	7.5	18	70	50	10	50	80	112.4	21	12	M8x12	10	16	20	34	29	14	12	9	80	20	M8x25	49.52	102.87	1.73	1.2	1.2	1.45	6.3					
KM35B-HL							72	106	138.2	23														60.21	136.31	2.29	2.08	2.08	1.92		10.41				
KM45B-H	70	9.5	21	86	60	13	60	97	139.4	23	13	M10x17	16	19	31	45	38	20	17	14	105	23	M12x35	77.57	155.93	3.01	2.35	2.35	2.73	10.41					
KM45B-HL							80	128	171.2	29														94.54	207.12	4	4.07	4.07	3.61						
KM55B-H	80	13	24	100	75	13	75	118	166.7	27	13	M12x18	18	22	29	53	44	23	20	16	120	30	M14x45	114.44	227.81	5.66	4.06	4.06	4.17	15.08					
KM55B-HL							95	156	204.8	36														139.35	301.26	7.49	7.01	7.01	5.49						
KM65B-H	90	15	32	126	76	25	70	144	200.2	43	13	M16x20	25	15	15	63	53	26	22	18	150	35	M16x50	163.63	324.71	10.02	6.44	6.44	7	21.18					
KM65B-HL							120	204	259.6	48														208.36	457.15	14.15	11.1	11.1	9.82						

EMD KM Series Linear Guideway

Dimensions of KM B / KM B-L Series Linear Guideway (High Load Flange Type)

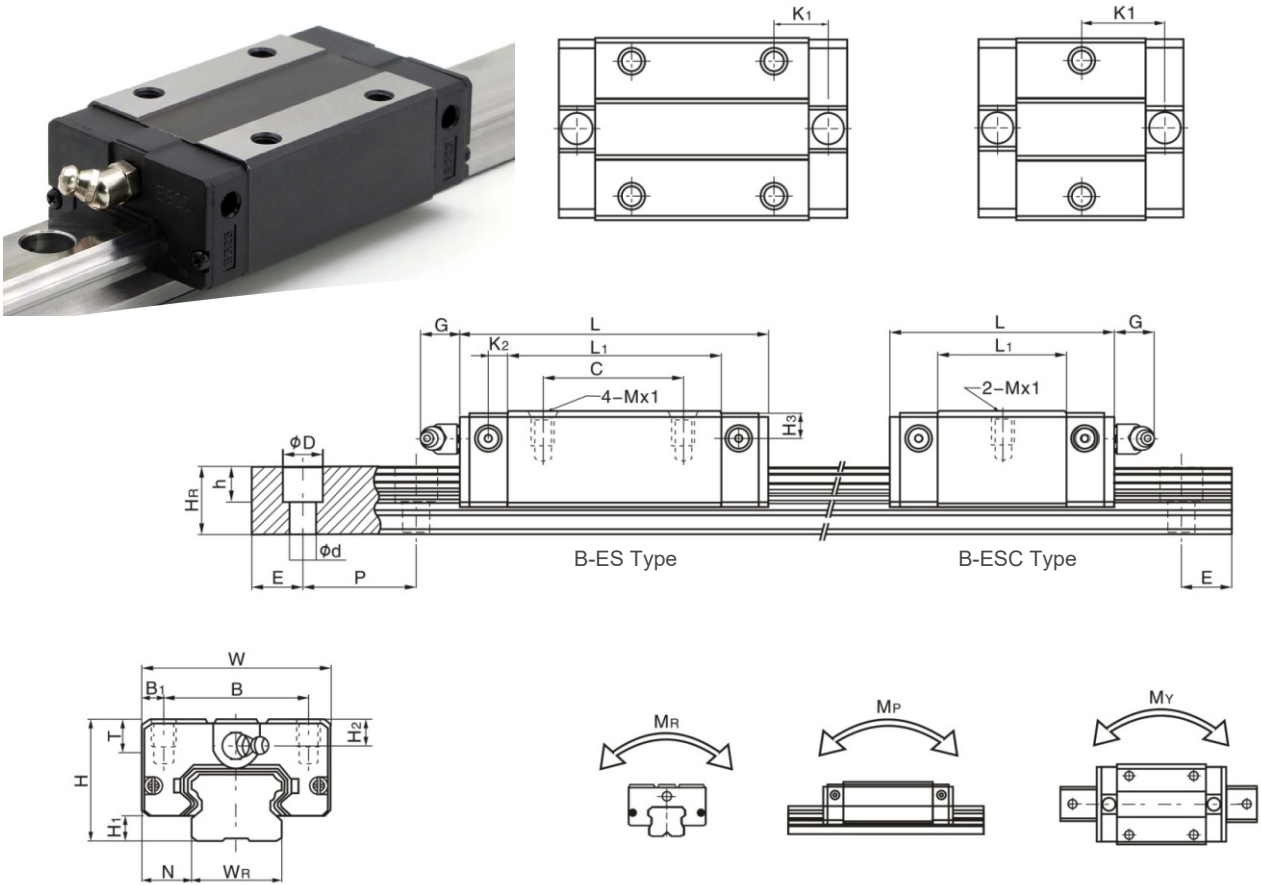


Model No.	Dimensions Of Assembly (mm)			Dimensions of Block (mm)																	Dimensions of Rail (mm)								Mounting Bolt For rail	Basic Dynamic Load Rating	Basic Staic Load Rating	Static Rated Moment			Weight	
	H	Hi	N	W	B	B1	C	L1	L	K1	G	M	T	T1	T2	H2	H3	Wt	Hr	D	h	d	P	E	(mm)	C (KN)	Co (KN)	Mr				Mp	My	Block	Rail	
KM15B	24	4.3	16	47	38	4.5	30	39.4	61.4	8	5.3	M5	6	8.9	6.95	3.95	3.7	15	15	7.5	5.3	4.5	60	20	M4x16	11.38	25.31	0.17	0.15	0.15	0.17	1.45				
KM20B	30	4.6	21.5	63	53	5	40	50.5	77.5	10.25	12	M6	8	10	9.5	6	7	20	17.5	9.5	8.5	6	60	20	M5x16	17.75	37.84	0.38	0.27	0.27	0.4	2.21				
KM20B-L								65.2	92.2	17.6																21.18	48.84	0.48	0.47	0.47	0.52					
KM25B	36	5.5	23.5	70	57	6.5	45	58	84	11.8	12	M8	8	14	10	6	9	23	22	11	9	7	60	20	M6x20	26.78	56.19	0.64	0.51	0.51	0.59	3.21				
KM25B-L								70.6	104.6	22.1																32.75	76	0.87	0.88	0.88	0.8					
KM30B	42	6	31	90	72	9	52	70	97.4	14.25	12	M10	8.5	16	10	6.5	10.8	28	26	14	12	9	80	20	M8x25	38.74	83.06	1.06	0.85	0.85	1.09	4.47				
KM30B-L								93	120.4	25.75																47.27	110.13	1.4	1.47	1.47	1.44					
KM35B	48	7.5	33	100	82	9	62	80	112.4	14.6	12	M10	10.1	18	13	9	12.6	34	29	14	12	9	80	20	M8x25	49.52	102.87	1.73	1.2	1.2	1.56	6.3				
KM35B-L								105.8	138.2	27.5																60.21	136.31	2.29	2.08	2.08	2.06					
KM45B	60	9.5	37.5	120	100	10	80	97	139.4	13	12.9	M12	15.1	22	15	8.5	20.5	45	38	20	17	14	105	22.5	M12X35	77.57	155.93	3.01	2.35	2.35	2.79	10.41				
KM45B-L								128.8	171.2	28.9																94.547	207.12	4	4.07	4.07	3.69					
KM55B	70	13	43.5	140	116	12	95	117.7	166.7	17.35	12.9	M14	17.5	26.5	17	12	19	53	44	23	20	16	120	30	M14x45	114.44	227.81	5.66	4.06	4.06	4.52	15.08				
KM55B-L								158.8	204.8	36.4																139.35	271.2	7.49	7.01	7.01	5.96					
KM65B	90	15	53.5	170	142	14	110	144.2	200.2	23.1	12.9	M16	25	37.5	23	15	15	63	53	26	22	18	150	35	M16x50	163.63	324.71	10.02	6.44	6.44	9.17	21.18				
KM65B-L								203.6	259.6	52.8																208.36	457.15	14.15	11.12	11.12	12.89					

Note: 1kgf=9.81 N

EMD KM Series Linear Guideway

Dimensions of KM B-ES / KM B-ESC Series Linear Guideway (Low Profile Square Type)

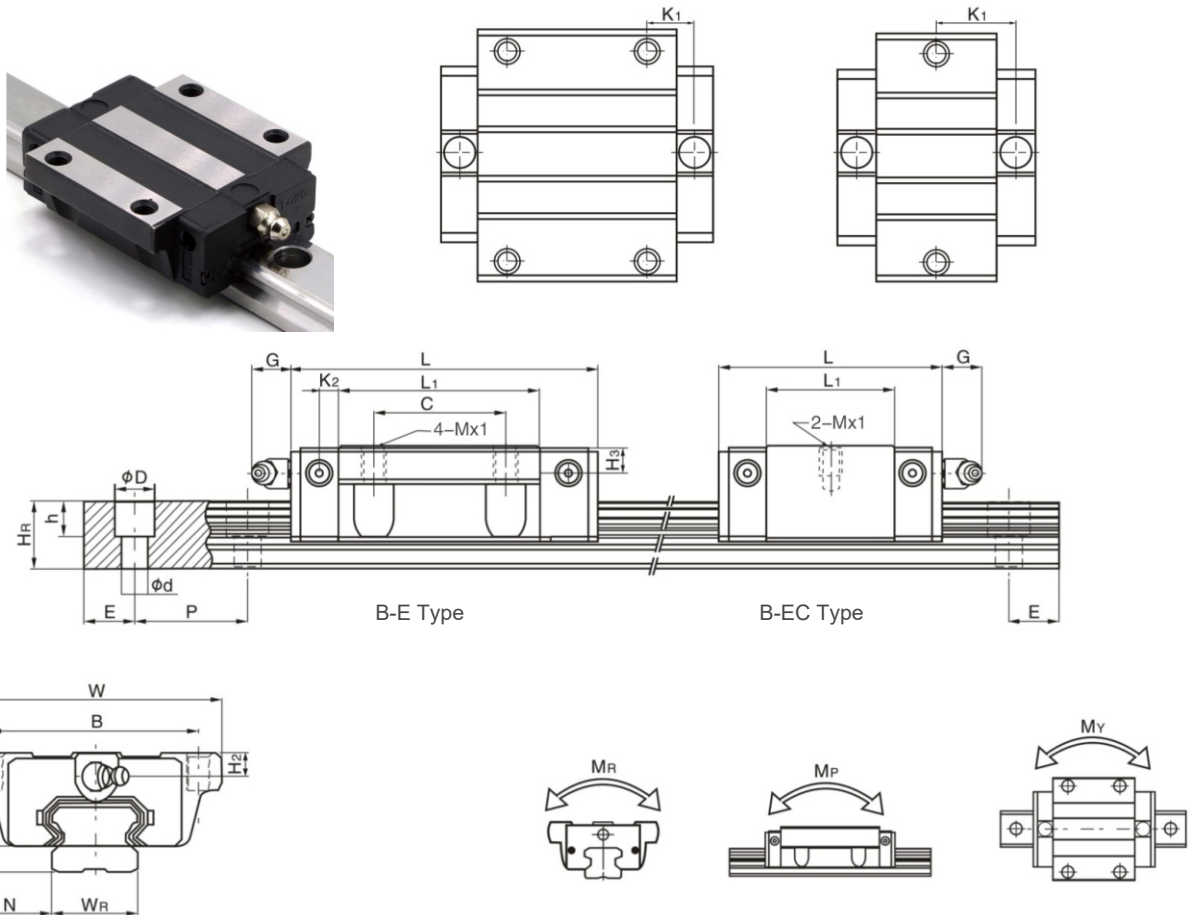


Model No.	Dimensions Of Assembly (mm)			Dimensions of Block (mm)															Dimensions of Rail (mm)										Mounting Bolt For rail	Basic Dynamic Load Rating	Basic Static Load Rating	Static Rated Moment			Weight	
	H	H ₁	N	W	B	B ₁	C	L ₁	L	K ₁	K ₂	G	Mx ₁	T	H ₂	H ₃	W _R	H _R	D	h	d	P	E	(mm)	C (kN)	Co (kN)	M _R kN·m	M _P kN·m	M _Y kN·m	Block kg	Rail kg/m					
KM15B-ESC	24	4.5	9.5	34	26	4	—	23.1	40.1	14.8	3.5	5.7	M4x6	6	5.5	6	15	12.5	6	4.5	4.5	60	20	M3x16	5.35	9.4	0.08	0.04	0.04	0.09	1.25					
KM15B-ES							26	39.8	56.8	10.15															7.83	16.19	0.13	0.1	0.1	0.15						
KM20B-ESC	28	6	11	42	32	5	—	29	50	18.75	4.15	12	M5x7	7.5	6	6	20	15.5	9.5	8.5	6	60	20	M5x16	7.23	12.74	0.13	1.06	1.06	0.15	2.08					
KM20B-ES							32	48.1	69.1	12.3															10.31	21.13	0.22	0.16	0.16	0.24						
KM25B-ESC	33	7	12.5	48	35	6.5	—	35.5	59.1	21.9	4.55	12	M6x9	8	8	8	23	18	11	9	7	60	20	M6x20	11.4	19.5	0.23	0.12	0.12	0.25	2.67					
KM25B-ES							35	59	82.6	16.15															16.27	32.4	0.38	0.32	0.32	0.41						
KM30B-ESC	42	10	16	60	40	10	—	41.5	69.5	26.75	6	12	M8x12	9	8	9	28	23	11	9	7	80	20	M6x25	16.42	28.1	0.4	0.21	0.21	0.45	4.35					
KM30B-ES							40	70.1	98.1	21.05															23.7	47.46	0.68	0.55	0.55	0.76						

Note: 1kgf=9.81 N

EMD KM Series Linear Guideway

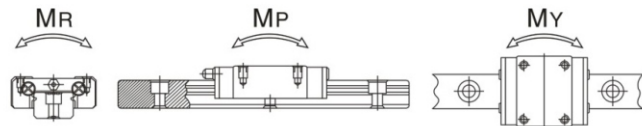
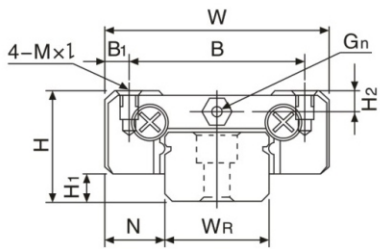
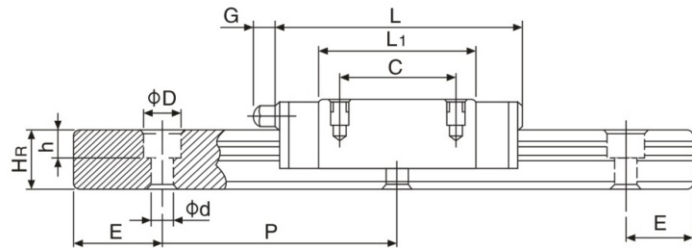
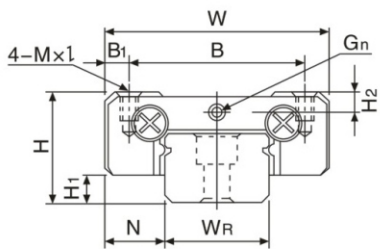
Dimensions of KM B-E / KM B-EC Series Linear Guideway (Low Profile Flange Type)



Model No.	Dimensions of Assembly (mm)			Dimensions of Block (mm)															Dimensions of Rail (mm)							Mounting Bolt For rail	Basic Dynamic Load Rating	Basic Static Load Rating	Static Rated Moment			Weight	
	H	H ₁	N	W	B	B ₁	C	L ₁	L	K ₁	K ₂	G	Mx ₁	T	H ₂	H ₃	W _R	H _R	D	h	d	P	E	(mm)	C (kN)				Co (kN)	M _R kN-m	M _P kN-m	M _Y kN-m	Block kg
KM15B-EC	24	4.5	18.5	52	41	5.5	-	23.1	40.1	14.8	3.5	5.7	M5	5	5.5	6	15	12.5	6	4.5	4.5	60	20	M3x16	5.35	9.4	0.08	0.04	0.04	0.12	1.25		
KM15B-E							26	39.8	56.8	10.15															7.83	16.19	0.13	0.1	0.1	0.21			
KM20B-EC	28	6	19.5	59	49	5	-	29	50	18.75	4.15	12	M6	7	6	6	20	15.5	9.5	8.5	6	60	20	M5x16	7.23	12.74	0.13	1.06	1.06	0.19	2.08		
KM20B-E							32	48.1	69.1	12.3															10.31	21.13	0.22	0.16	0.16	0.32			
KM25B-EC	33	7	25	73	60	6.5	-	35.5	59.1	21.9	4.55	12	M8	7.5	8	8	23	18	11	9	7	60	20	M6x20	11.4	19.5	0.23	0.12	0.12	0.35	2.67		
KM25B-E							35	59	82.6	16.15															16.27	32.4	0.38	0.32	0.32	0.59			
KM30B-EC	42	10	31	90	72	9	-	41.5	69.5	26.75	6	12	M10	7	8	9	28	23	11	9	7	80	20	M6x25	16.42	28.1	0.4	0.21	0.21	0.62	4.35		
KM30B-E							40	70.1	98.1	21.05															23.7	47.46	0.68	0.55	0.55	1.04			

EMD KM Series Linear Guideway

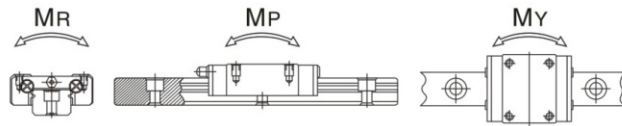
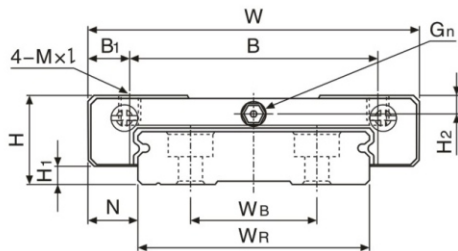
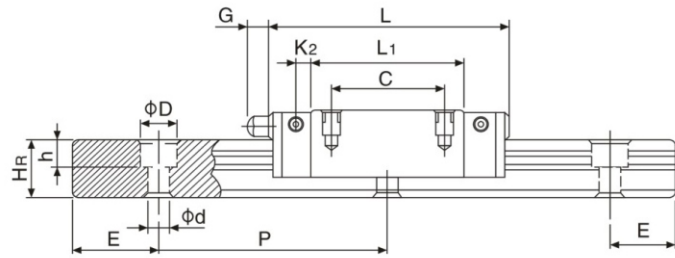
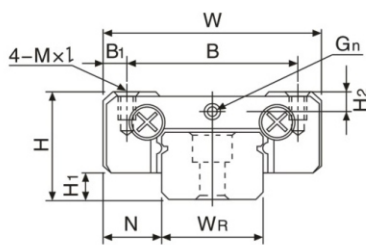
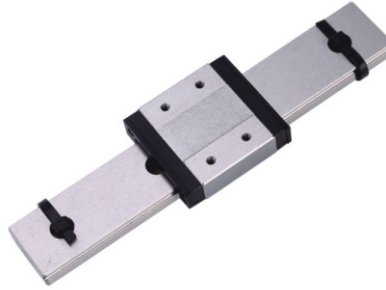
Dimensions of Miniature KM M / KM M-L Series Linear Guideway



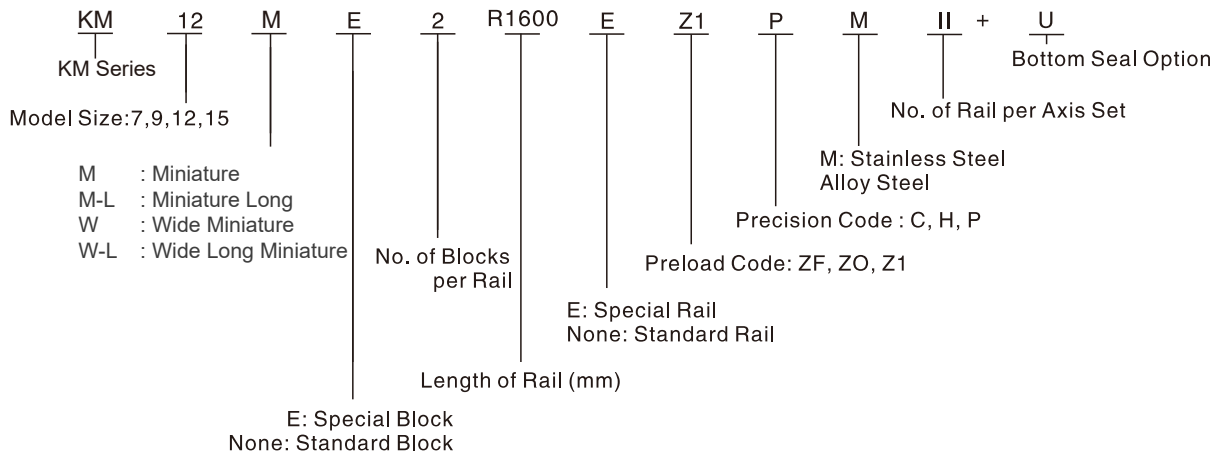
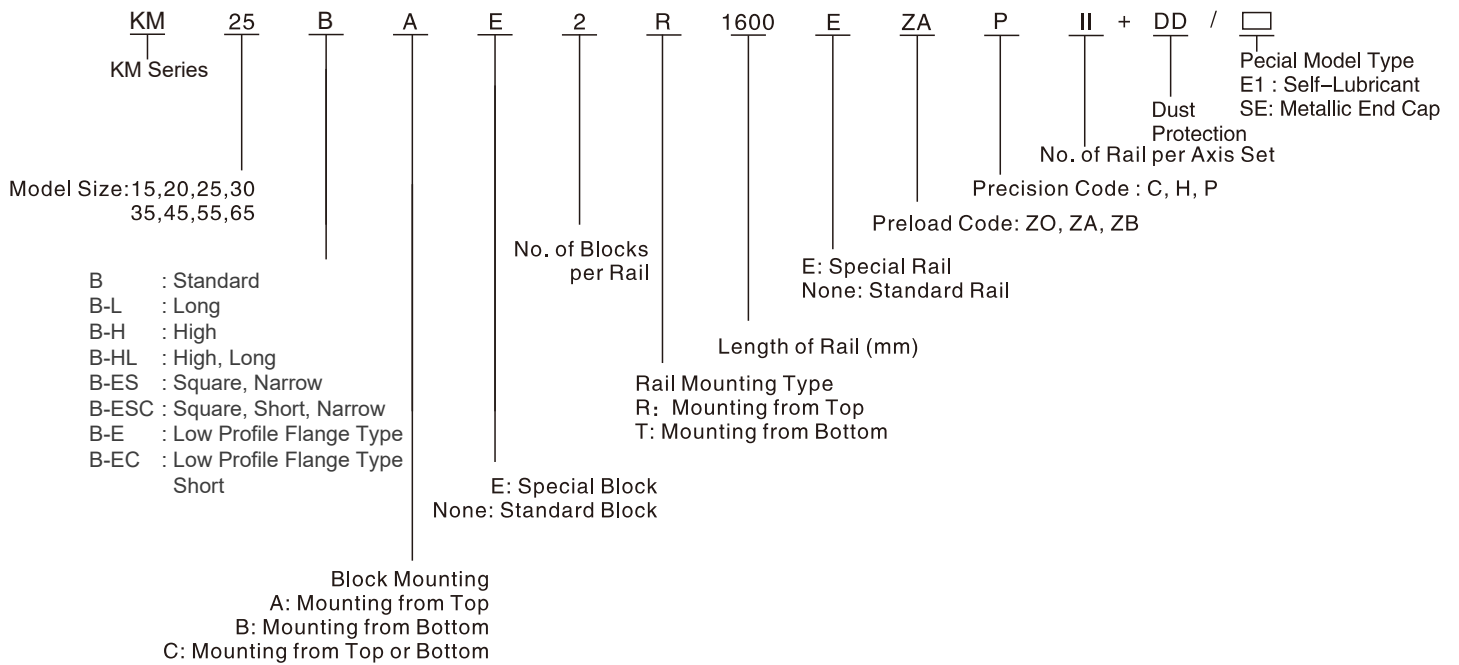
Model No.	Dimensions of Assembly (mm)			Dimensions Of Block (mm)										Dimensions of Rail (mm)										Mounting Bolt for rail	Basic Dynamic Load Rating	Basic Staic Load Rating	Static Rated Moment			Weight	
	H	H1	N	W	B	B1	C	L1	L	G	Gn	MX1	H2	Wr	Hr	D	h	d	P	E	(mm)	C (kN)	Co (kN)				Mr	Mp	My	Block	Rail
KM5M	6	1.5	3.5	12	8	2	—	9.6	16	—	Φ 0.8	M2X1.5	1	5	3.6	3.6	0.8	2.4	15	5	M2X6	0.54	0.84	2	1.3	1.3	0.008	0.15			
KM7M	8	1.5	5	17	11	25	8	13.5	22.5	—	Φ 12	M2X2.5	1.5	7	4.8	4.8	2.3	2.4	15	5	M2X6	0.98	1.24	4.7	2.84	2.84	0.01	0.22			
KM7M-L							13	21.8	30.8													1.37	1.96	7.64	4.8	4.8	0.015				
KM9M	10	2	5.5	20	15	2.5	10	18.9	28.9	—	Φ 1.4	M3X3	1.8	9	6.5	6	3.5	3.5	20	7.5	M3X8	1.86	2.55	11.76	7.35	7.35	0.016	0.38			
KM9M-L							16	29.9	39.9													2.55	4.02	19.6	18.62	18.62	0.026				
KM12M	13	3	7.5	27	20	3.5	15	21.7	34.7	—	Φ 2	M3X3.5	2.5	12	8	6	4.5	3.5	25	10	M3X8	2.84	3.92	25.48	13.72	13.72	0.034	0.65			
KM12M-L							20	32.4	45.4													3.72	5.88	38.22	36.26	36.26	0.054				
KM15M	16	4	8.5	32	25	3.5	20	26.7	42.1	4.5	M3	M3X4	3	15	10	6	4.5	3.5	40	15	M3X10	4.61	5.59	45.08	21.56	21.56	0.059	1.06			
KM15M-L							25	43.4	58.8													6.37	9.11	73.5	57.82	57.82	0.092				

EMD KM Series Linear Guideway

Dimensions of Wide Miniature KM W / KM W-L Series Linear Guideway



Model No.	Dimensions Of Assembly (mm)			Dimensions of Block (mm)										Dimensions of Rail (mm)										Mounting Bolt For rail	Basic Dynamic Load Rating	Basic Staic Load Rating	Static Rated Moment			Weight	
	H	H _i	N	W	B	B _i	C	L ₁	L	G	G _n	MX ₁	H ₂	W _R	W _B	H _R	D	h	d	P	E	(mm)	C (kN)	Co (kN)	M _R N-m	M _P N-m	M _V N-m	Block kg	Rail kg/m		
KM5W	6.5	1.5	3.5	17	13	2	—	14.1	20.5	—	Φ 0.8	M25X15	1	10	—	—	5.5	1.6	3	20	5	M2.5X7	0.68	1.18	5.5	21	2.7	0.016	0.34		
KM5W-L					M3-THRU																										
KM7W	9	1.9	5.5	25	19	3	10	21	31.2	—	Φ 1.2	M3X3	1.85	14	—	5.2	6	3.2	3.5	30	10	M3X6	1.37	2.06	15.7	7.14	7.14	0.02	0.51		
KM7W-L							19	30.8	41														1.77	3.14	23.45	15.53	15.53	0.029			
KM9W	12	2.9	6	30	21	4.5	12	27.5	39.3	—	Φ 1.4	M3X3	2.4	18	—	7	6	4.5	3.5	30	10	M3X8	2.75	4.12	40.12	18.96	18.96	0.04	0.91		
KM9W-L					23	3.5	24	38.5	50.7														3.43	5.89	54.54	34	34	0.057			
KM12W	14	3.4	8	40	28	6	15	31.3	46.1	—	Φ 2	M3X3.6	2.8	24	—	8.5	8	4.5	4.5	40	15	M4X8	3.92	5.59	70.34	27.8	27.8	0.071	1.49		
KM12W-L							28	45.6	60.4														5.1	8.24	103.7	57.37	57.37	0.103			
KM15W	16	3.4	9	60	45	7.5	30	38	54.8	5.2	M3	M4X4.2	3.2	42	23	9.5	8	4.5	4.5	40	15	M4X10	6.77	9.22	199.34	56.66	56.66	0.143	2.86		
KM15W-L							35	57	73.8														8.93	13.38	299.01	122.6	122.6	0.215			



- Note: 1. The roman numerals are used to express the number of matched rails used in one axis. When a single rail is used in an axis, no symbol is indicated.
2. No symbol indicates standard protection (end seals and bottom seal).
- ZZ: End seals, bottom seal and scraper
 KK: Double seals, bottoms seal and scraper
 DD: Double seals and bottoms seal
 U: The bottom seal is available for KM-M&KM-W 12, 15.