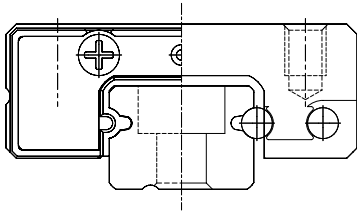
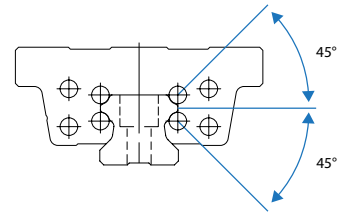




WON Linear Bearings and Rails

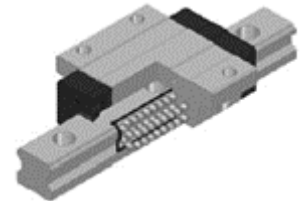
Product Overview

H-Series has 4 rows of ball bearings continuously circulating and making 45° contact with an arc-groove feature in the rail. This unique configuration provides 4-direction equal load sharing in any direction. This translates into lower friction resistance, smooth motion, and long life.



M & MB-Series have 2 rows of ball bearings continuously circulating and making 4 point 45° contact with an gothic-arc-groove feature in the Rail. This unique configuration provides 4-direction equal load sharing in any direction, in a very compact assembly. This translates into lower friction resistance, smooth motion, and long life.

End Seals are included with all products offered to protect against dust and foreign materials which induce premature wear and shorter life. Optional Inside Seals are offered, on the H-Series for additional protection.





WON Linear Bearings and Rails

H-Series Bearings and Rail Features

- Bearing Preload: Moderate
- Precision Classification: Moderate (no symbol)
- Radial Clearance Classification: Common Clearance
- Material: Carbon Steel
- Rail Hardness: HRC58-64
- End Seals included with all bearings
- Grease fitting included

H-Series Linear Bearing Ratings

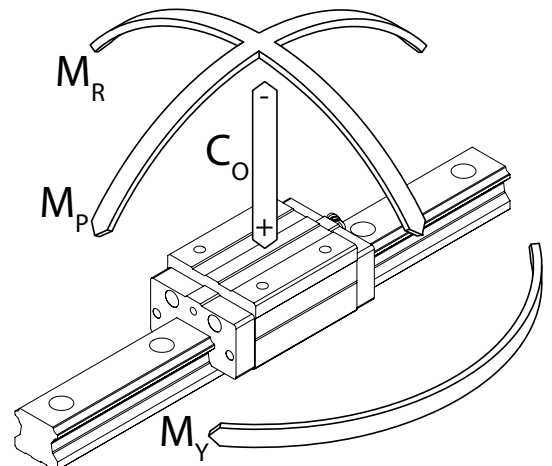
Part Number	Price	Bearing Form Factor	Inside Seal	Series Size	Load Ratings							Drawing Links
					Static (Co)	Dynamic (C)	Pitch Moment (M _P)		Yaw Moment (M _Y)		Roll Moment (M _R)	
							1 Linear Bearing	2 Linear Bearing	1 Linear Bearing	2 Linear Bearing		
H15FSSG0	\$;4!qk:	flanged	yes	H15	16200 N	9900 N	115 N·m	552 N·m	115 N·m	552 N·m	129 N·m	PDF
H15FUUG0	\$;-4!qj:		no									PDF
H15RSSG0	\$;-4!qi:	rectangular	yes									PDF
H15RUUG0	\$;4!qh:		no									PDF
H20FSSG0	\$;4!qp:	flanged	yes	H20	23900 N	14900 N	221 N·m	1049 N·m	221 N·m	1049 N·m	251 N·m	PDF
H20FUUG0	\$;4!qo:		no									PDF
H20RSSG0	\$;4!qn:	rectangular	yes									PDF
H20RUUG0	\$;-4!ql:		no									PDF
H25FSSG0	\$;4!qu:	flanged	yes	H25	33100 N	22100 N	337 N·m	1636 N·m	337 N·m	1636 N·m	398 N·m	PDF
H25FUUG0	\$;-4!qt:		no									PDF
H25RSSG0	\$;4!qs:	rectangular	yes									PDF
H25RUUG0	\$;4!qq:		no									PDF
H30FSSG0	\$;04!qz:	flanged	yes	H30	57100 N	38400 N	711 N·m	3384 N·m	711 N·m	3384 N·m	828 N·m	PDF
H30FUUG0	\$;04!qy:		no									PDF
H30RSSG0	\$;04!qx:	rectangular	yes									PDF
H30RUUG0	\$;04!qv:		no									PDF
H35FSSG0	\$;04!q#:	flanged	yes	H35	74600 N	51100 N	1062 N·m	5012 N·m	1062 N·m	5012 N·m	1298 N·m	PDF
H35FUUG0	\$;04!q_:		no									PDF
H35RSSG0	\$;04!q[:	rectangular	yes									PDF
H35RUUG0	\$;04!q]:		no									PDF



With Inside Seal



Without Inside Seal





WON Linear Bearings and Rails

H-Series Linear Rails

Part Number	Price	Series Size	Length	Parallelism	Mass/Length	Drawing Links
H15-400L	\$;4!s9:	H15	400 mm	8 μ m	1300 g/m	PDF
H15-580L	\$;04!sa:		580 mm	11 μ m		PDF
H15-760L	\$;04!sb:		760 mm	12 μ m		PDF
H15-1000L	\$;04!sc:		1000 mm	13 μ m		PDF
H20-400L	\$;4!sd:	H20	400 mm	8 μ m	2200 g/m	PDF
H20-580L	\$;04!se:		580 mm	11 μ m		PDF
H20-760L	\$;04!sf:		760 mm	12 μ m		PDF
H20-1000L	\$;04!sg:		1000 mm	13 μ m		PDF
H25-400L	\$;4!sh:	H25	400 mm	8 μ m	3000 g/m	PDF
H25-580L	\$;-04!si:		580 mm	11 μ m		PDF
H25-760L	\$;-04!sj:		760 mm	12 μ m		PDF
H25-1000L	\$;04!sk:		1000 mm	13 μ m		PDF
H30-360L	\$;-4!sl:	H30	360 mm	8 μ m	4850 g/m	PDF
H30-520L	\$;04!sn:		520 mm	11 μ m		PDF
H30-760L	\$;04!so:		760 mm	12 μ m		PDF
H30-1000L	\$;04!sp:		1000 mm	13 μ m		PDF
H35-360L	\$;04!sq:	H35	360 mm	8 μ m	6580 g/m	PDF
H35-520L	\$;04!ss:		520 mm	11 μ m		PDF
H35-760L	\$;04!st:		760 mm	12 μ m		PDF
H35-1000L	\$;04!su:		1000 mm	13 μ m		PDF

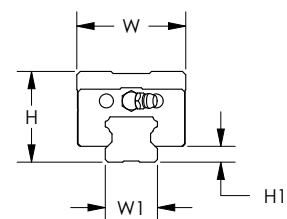


Rails cannot be butted together end-to-end to create longer runs. The lengths offered here have a chamfer feature on both ends.

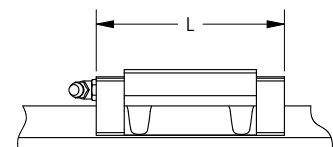
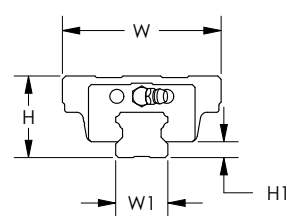
H-Series Dimensions

Bearing with Rail	Bearing Form Factor	Height, H (mm)	Width, W (mm)	Length, L (mm)	Clearance, H1 (mm)	Rail Width, W1 (mm)
H15Rxxxx	rectangular	28	34	57	4.7	15
H15Fxxxx	flanged	24	47			
H20Rxxxx	rectangular	30	44	72.7	6	20
H20Fxxxx	flanged	30	63			
H25Rxxxx	rectangular	40	48	83	7	23
H25Fxxxx	flanged	36	70			
H30Rxxxx	rectangular	45	60	97.8	7.5	28
H30Fxxxx	flanged	42	90			
H35Rxxxx	rectangular	55	70	110	9	34
H35Fxxxx	flanged	48	100			

Rectangular



Flanged





WON Linear Bearings and Rails

M-Series Bearings and Rail Features

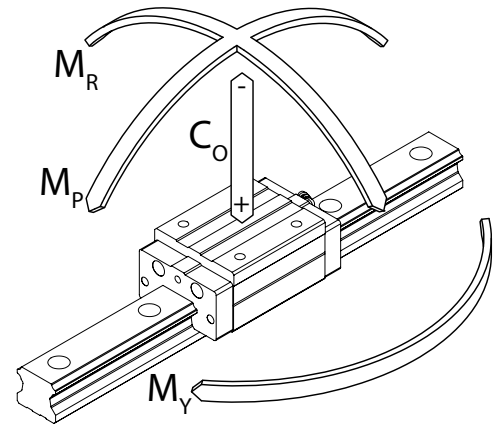
- Low Profile
- Bearing Preload: Moderate
- Precision Classification: Moderate (no symbol)
- Radial Clearance Classification: Common Clearance
- Bearing Block Housing Material: Stainless Steel
- Rail Material: Stainless Steel
- Bearing Material: SUJ2 Bearing Steel
- Rail Hardness: HRC58-64
- End Seals included with all bearings

M-Series Linear Bearing Ratings

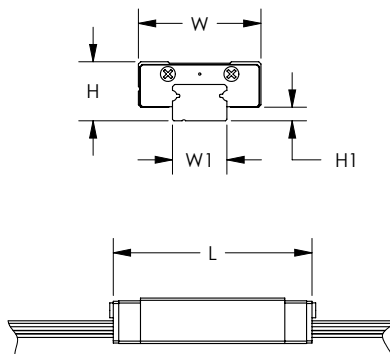
Part Number	Price	Bearing Form Factor	Series Size	Load Ratings							Drawing Links
				Static (Co)	Dynamic (C)	Pitch Moment (MP)		Yaw Moment (My)		Roll Moment (MR)	
						1 Linear Bearing	2 Linear Bearing	1 Linear Bearing	2 Linear Bearing		
M7LUUG0	\$;4!q?:	rectangular long	M7	2650 N	1631 N	10.1 N·m	50 N·m	10.1 N·m	50 N·m	9.67 N·m	PDF
M7NUUG0	\$;:4!q!:	rectangular		1703 N	1197 N	4.2 N·m	23.1 N·m	4.2 N·m	23.1 N·m	6.22 N·m	PDF
M9LUUG0	\$;4!s0:	rectangular long	M9	4030 N	2375 N	21.9 N·m	102.8 N·m	21.9 N·m	102.8 N·m	18.74 N·m	PDF
M9NUUG0	\$;:4!q.:	rectangular		2545 N	1721 N	9.3 N·m	46.6 N·m	9.3 N·m	46.6 N·m	11.84 N·m	PDF
M12LUUG0	\$;4!s2:	rectangular long	M12	6200 N	4246 N	34.8 N·m	169.1 N·m	34.8 N·m	169.1 N·m	38.44 N·m	PDF
M12NUUG0	\$;4!s1:	rectangular		3816 N	3023 N	14.4 N·m	75.8 N·m	14.4 N·m	75.8 N·m	23.66 N·m	PDF

M-Series Linear Rails

Part Number	Price	Series Size	Length	Parallelism	Mass/Length	Drawing Links
M7-85L	\$,4!sv:	M7	85 mm	11 µm	253 g/m	PDF
M7-190L	\$,4!sx:		190 mm	14 µm		PDF
M7-370L	\$,4!sy:		370 mm	18 µm		PDF
M7-610L	\$,04!sz:		610 mm	22 µm		PDF
M9-95L	\$,;4!s]:	M9	95 mm	11 µm	391 g/m	PDF
M9-175L	\$,;4!s[:		175 mm	14 µm		PDF
M9-495L	\$,4!s_:		495 mm	21 µm		PDF
M9-695L	\$,04!s#:		695 mm	23 µm		PDF
M12-195L	\$,;4!s!:	M12	195 mm	15 µm	679 g/m	PDF
M12-320L	\$,4!s?:		320 mm	18 µm		PDF
M12-470L	\$,;4!s.:		470 mm	21 µm		PDF
M12-695L	\$,;04!t0:		695 mm	23 µm		PDF



Rails cannot be butted together end-to-end to create longer runs. The lengths offered here have a chamfer feature on both ends.



M-Series Dimensions

Bearing with Rail	Height, H (mm)	Width, W (mm)	Length, L (mm)	Clearance, H1 (mm)	Rail Width, W1 (mm)
M7LUUG0	8	17	31.8	1.5	7
M7NUUG0			24.3		
M9LUUG0	10	20	41.4	2	9
M9NUUG0			31.3		
M12LUUG0	13	27	45.4	3	12
M12NUUG0			34.9		



WON Linear Bearings and Rails

MB-Series Bearings and Rail Features

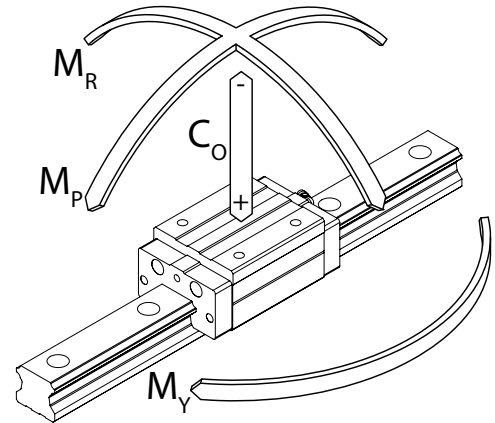
- Wide, Low Profile
- Bearing Preload: Moderate
- Precision Classification: Moderate (no symbol)
- Radial Clearance Classification: Common Clearance
- Bearing Block Housing Material: Stainless Steel
- Rail Material: Stainless Steel
- Bearing Material: SUJ2 Bearing Steel
- Rail Hardness: HRC58-64
- End Seals included with all bearings

MB-Series Linear Bearing Ratings

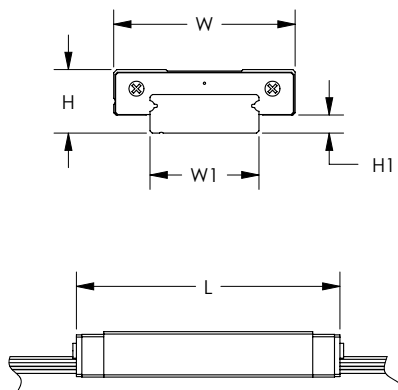
Part Number	Price	Bearing Form Factor	Series Size	Load Ratings							Drawing Links
				Static (Co)	Dynamic (C)	Pitch Moment (MP)		Yaw Moment (My)		Roll Moment (MR)	
						1 Linear Bearing	2 Linear Bearing	1 Linear Bearing	2 Linear Bearing		
MB7LUUG0	\$,4!s4:	rectangular long	MB7	3975 N	2166 N	22.5 N-m	106.1 N-m	22.5 N-m	106.1 N-m	28.42 N-m	PDF
MB7NUUG0	\$,4!s3:	rectangular		2650 N	1631 N	10.1 N-m	51.1 N-m	10.1 N-m	51.1 N-m	18.95 N-m	PDF
MB9LUUG0	\$,50b,:	rectangular long	MB9	5303 N	2878 N	37.8 N-m	172.9 N-m	37.8 N-m	172.9 N-m	48.52 N-m	PDF
MB9NUUG0	\$,4!s5:	rectangular		3606 N	2197 N	18.2 N-m	87.6 N-m	18.2 N-m	87.6 N-m	33 N-m	PDF
MB12LUUG0	\$,4!s8:	rectangular long	MB12	9062 N	5539 N	73.8 N-m	338.7 N-m	73.8 N-m	338.7 N-m	110.56 N-m	PDF
MB12NUUG0	\$,4!s7:	rectangular		5723 N	4015 N	31.2 N-m	152.2 N-m	31.2 N-m	152.2 N-m	69.83 N-m	PDF

MB-Series Linear Rails

Part Number	Price	Series Size	Length	Parallelism	Mass/Length	Drawing Links
MB7-80L	\$,;4!t1:	MB7	80 mm	11 µm	560 g/m	PDF
MB7-200L	\$,;4!t2:		200 mm	15 µm		PDF
MB7-410L	\$,;04!t3:		410 mm	20 µm		PDF
MB7-690L	\$,;04!t4:		690 mm	23 µm		PDF
MB9-80L	\$,;4!t5:	MB9	80 mm	11 µm	912 g/m	PDF
MB9-200L	\$,;4!t6:		200 mm	15 µm		PDF
MB9-410L	\$,;04!t7:		410 mm	20 µm		PDF
MB9-690L	\$,;04!t8:		690 mm	23 µm		PDF
MB12-110L	\$,;4!t9:	MB12	110 mm	12 µm	1369 g/m	PDF
MB12-270L	\$,;04!ta:		270 mm	17 µm		PDF
MB12-430L	\$,;04!tb:		430 mm	20 µm		PDF
MB12-750L	\$,;04!tc:		750 mm	23 µm		PDF



Rails cannot be butted together end-to-end to create longer runs. The lengths offered here have a chamfer feature on both ends.



MB-Series Dimensions

Bearing with Rail	Height, H (mm)	Width, W (mm)	Length, L (mm)	Clearance, H1 (mm)	Rail Width, W1 (mm)
MB7LUUG0	9	25	43.5	2	14
MB7NUUG0			33		
MB9LUUG0	12	30	52	3	18
MB9NUUG0			40.2		
MB12LUUG0	14	40	59.7	4	24
MB12NUUG0			44.5		