



Adapter Sleeves | Withdrawal Sleeves | Lock Nuts | Lock Washers

About Masta

Masta - renowned manufacturers of BearingHousing have added the products of BearingSleeves - Adapter Sleeves, Withdrawal Sleeves, LockNuts, Lock Washers, Locking Clips, etc. Such Sleeves are most precisely and accurately manufactured on CNC turning centres to maintain close tolerance.



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Sleeve Selection Chart

DOUBLE ROW SELF ALIGNING BALL BEARING SERIES	ADAPTER SLEEVE SERIES	REFER CATALOGUE PAGE NO.	DOUBLE ROW SELF ALIGNING BALL BEARING SERIES	WITHDRAWAL SLEEVE SERIES	REFER CATALOGUE PAGE NO.
1205 K to 1222 K	H 205 to H 222	4	1308 K to 1309 K	AH 308 to AH 309	7
1305 K to 1322 K	H 305 to H 322	4	1310 K to 1320 K	AHX 310 to AHX 320	7
2205 K to 2222 K	H 305 to H 322	4	2208 K to 2209 K	AH 308 to AH 309	7
2305 K to 2322 K	H 2305 to H 2322	5	2210 K to 2220 K	AHX 310 to AHX 320	7
			2308 K to 2309 K	AH 2308 to AH 2309	7
			2310 K to 2320 K	AHX 2310 to AHX 2320	7

DOUBLE ROW SPHERICAL ROLLER BEARING SERIES	ADAPTER SLEEVE SERIES	REFER CATALOGUE PAGE NO.	DOUBLE ROW SPHERICAL ROLLER BEARING SERIES	WITHDRAWAL SLEEVE SERIES	REFER CATALOGUE PAGE NO.
21308 K to 21322 K	H 308 to H 322	4	21308 K to 21309 K	AH 308 to AH 309	7
22205 K to 22222 K	H 305 to H 322	4	21310 K to 21322 K	AHX 310 to AHX 322	7
22224 K to 22264 K	H 3124 to H 3164	5 & 6	22222 K to 22230 K	AHX 3122 to AHX 3130	8
22308 K to 22356 K	H 2308 to H 2356	5	22232 K to 22234 K	AH 3132 to AH 3134	8
23024 K to 23096 K	H 3024 to H 3096	6	22336 K	AH 2336	7
23120 K to 23196 K	H 3120 to H 3196	5 & 6	22244 K to 22260 K	AH 2244 to AH 2260	7
23218 K to 23256 K	H 2318 to H 2356	5	22308 K to 22309 K	AH 2308 to AH 2309	7
			22310 K to 22330 K	AHX 2310 to AHX 2330	7
			22332 K to 22356 K	AH 2332 to AH 2356	7
			23024 K to 23030 K	AHX 3024 to AHX 3030	8
			23032 K to 23096 K	AH 3032 to AH 3096	8 & 10
			23120 K to 23130 K	AHX 3120 to AHX 3130	8
			23132 K to 23196 K	AH 3132 to AH 3196	8 & 10
			23218 K to 23230 K	AHX 3218 to AHX 3230	8
			23232 K to 23296 K	AH 3232 to AH 3296	8 & 10

SINGLE ROW BARREL ROLLER BEARING SERIES	ADAPTER SLEEVE SERIES	REFER CATALOGUE PAGE NO.	SINGLE ROW BARREL ROLLER BEARING SERIES	WITHDRAWAL SLEEVE SERIES	REFER CATALOGUE PAGE NO.
20205 K to 20222 K	H 205 to H 222	4	20308 K to 20309 K	AH 308 to AH 309	7
20224 K to 20232 K	H 3024 to H 3032	6	20310 K to 20322 K	AHX 310 to AHX 322	7
20234 K to 20256 K	H 2334 to H 2356	5			
20305 K to 20322 K	H 305 to H 322	4			
20324 K to 20348 K	H 3124 to H 3148	5 & 6			

Designation

	Prefix
 Adapter Sleeve suitable for metric (mm) size shaft -	H
 Adapter Sleeve suitable for inch size shaft in multiple of 1/4" -	HE
 Adapter Sleeve suitable for inch size shaft in multiple of 1/16" -	HA
 Adapter Sleeve suitable for inch size shaft in multiple of 7/8" -	HS
 Adapter Sleeve with oil injection groove with duct -	OH
 Withdrawal sleeve suitable for metric (mm) size shaft -	AH
 Withdrawal sleeve with altered thread dia. And/or bore dia. In - order to give full conformity to ISO standards.	AHX
 Withdrawal Sleeve having oil injection groove and duct -	AOH

Adapter Sleeves

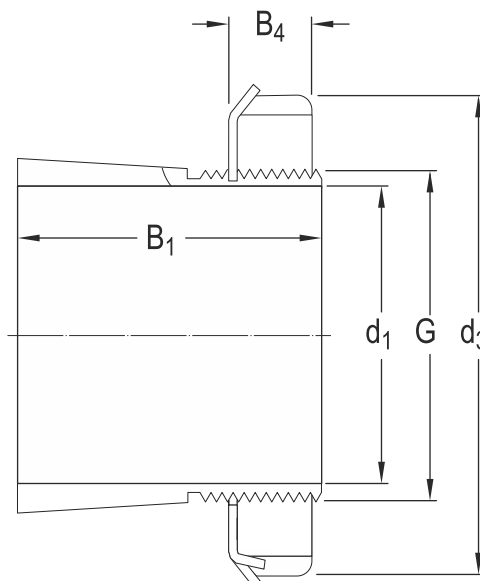
Standard Adapter Sleeves are made from C20 - C30 carbon steel material.

Taper of 1:12 is provided on the outside diameter of the sleeve to match inside bore taper of the bearing. Inside dia of the sleeve is having cylindrical bore.

Adapter Sleeves are supplied complete with Lock Nut and Lock Washer or Locking Clips.

This allows the bearing with tapered bore to locate on the cylindrical shaft without any additional location on any position of the shaft.

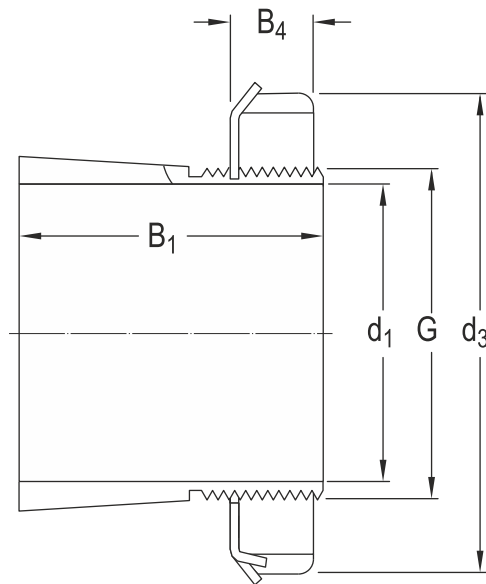
Adapter Sleeves with Lock Nut and Lock Washer



Adapter Sleeve No.	d1				B1 mm	d3 mm	B4 mm	G mm	Approx Weight Kg	Suitable for Bearing Number
	H	HE	HS	HA						
	mm	Inch	Inch	Inch						
H 204	17				24	32	7	M20 x 1	0.041	1204 K
H 205	20	3/4	7/8	13/16	26	38	8	M25 x 1.5	0.070	1205 K 20205 K
H 206	25	1	7/8	15/16	27	45	8	M30 x 1.5	0.099	1206 K 20206 K
H 207	30		1.1/8	1.3/16	29	52	9	M35 x 1.5	0.125	1207 K 20207 K
H 208	35	1.1/4	1.3/8	1.5/16	31	58	10	M40 x 1.5	0.174	1208 K 20208 K
H 209	40	1.1/2	1.5/8	1.7/16	33	65	11	M45 x 1.5	0.227	1209 K 20209 K
H 210	45	1.3/4	1.5/8	1.11/16	35	70	12	M50 x 1.5	0.274	1210 K 20210 K
H 211	50	2	1.7/8	1.15/16	37	75	12	M55 x 2	0.308	1211 K 20211 K
H 212	55		2.1/8		38	80	13	M60 x 2	0.346	1212 K 20212 K
H 213	60	2.1/4	2.3/8	2.3/16	40	85	13.5	M65 x 2	0.401	1213 K 20213 K
H 214	60				41	92	14	M70 x 2	0.590	1214 K 20214 K
H 215	65	2.1/2		2.7/16	43	98	14.5	M75 x 2	0.707	1215 K 20215 K
H 216	70	2.3/4		2.11/16	46	105	17	M80 x 2	0.882	1216 K 20216 K
H 217	75	3		2.15/16	50	110	18	M85 x 2	1.020	1217 K 20217 K
H 218	80			3.3/16	52	120	18	M90 x 2	1.190	1218 K 20218 K
H 219	85	3.1/4			55	125	19	M95 x 2	1.370	1219 K 20219 K
H 220	90	3.1/2		3.7/16	58	130	20	M100 x 2	1.490	1220 K 20220 K
H 221	95	3.3/4		3.11/16	60	140	20	M105 x 2	1.720	1221 K 20221 K
H 222	100	4		3.15/16	63	145	21	M110 x 2	1.930	1222 K 20222 K

H 304	17				28	32	7	M20 x 1	0.045	1304 K 2204 K
H 305	20	3/4	7/8		29	38	8	M25 x 1.5	0.075	1305 K 2205 K 22205 K 20305 K
H 306	25	1	7/8	15/16	31	45	8	M30 x 1.5	0.109	1306 K 2206 K 22206 K 20306 K
H 307	30		1.1/8	1.3/16	35	52	9	M35 x 1.5	0.142	1307 K 2207 K 22207 K 20307 K
H 308	35	1.1/4	1.3/8	1.5/16	36	58	10	M40 x 1.5	0.189	1308 K 2208 K 22208 K 21308 K 20308 K
H 309	40	1.1/2	1.5/8	1.7/16	39	65	11	M45 x 1.5	0.248	1309 K 2209 K 22209 K 21309 K 20309 K
H 310	45	1.3/4	1.5/8	1.11/16	42	70	12	M50 x 1.5	0.303	1310 K 2210 K 22210 K 21310 K 20310 K
H 311	50	2	1.7/8	1.15/16	45	75	12	M55 x 2	0.345	1311 K 2211 K 22211 K 21311 K 20311 K
H 312	55		2.1/8		47	80	13	M60 x 2	0.394	1312 K 2212 K 22212 K 21312 K 20312 K
H 313	60	2.1/4	2.3/8	2.3/16	50	85	13.5	M65 x 2	0.458	1313 K 2213 K 22213 K 21313 K 20313 K
H 314	60				52	92	13.5	M70 x 2	0.680	1314 K 2214 K 22214 K 21314 K 20314 K
H 315	65	2.1/2		2.7/16	55	98	14.5	M75 x 2	0.831	1315 K 2215 K 22215 K 21315 K 20315 K
H 316	70	2.3/4		2.11/16	59	105	17	M80 x 2	1.030	1316 K 2216 K 22216 K 21316 K 20316 K
H 317	75	3		2.15/16	63	110	18	M85 x 2	1.180	1317 K 2217 K 22217 K 21317 K 20317 K
H 318	80	3.1/4		3.3/16	65	120	18	M90 x 2	1.370	1318 K 2218 K 22218 K 21318 K 20318 K
H 319	85	3.1/4			68	125	19	M95 x 2	1.560	1319 K 2219 K 22219 K 21319 K 20319 K
H 320	90	3.1/2		3.7/16	71	130	20	M100 x 2	1.690	1320 K 2220 K 22220 K 21320 K 20320 K
H 321	95				74	140	20	M105 x 2	1.940	1321 K 2221 K
H 322	100	4		3.15/16	77	145	21	M110 x 2	2.180	1322 K 2222 K 22222 K 21322 K 20322 K

Adapter Sleeves with Lock Nut and Lock Washer

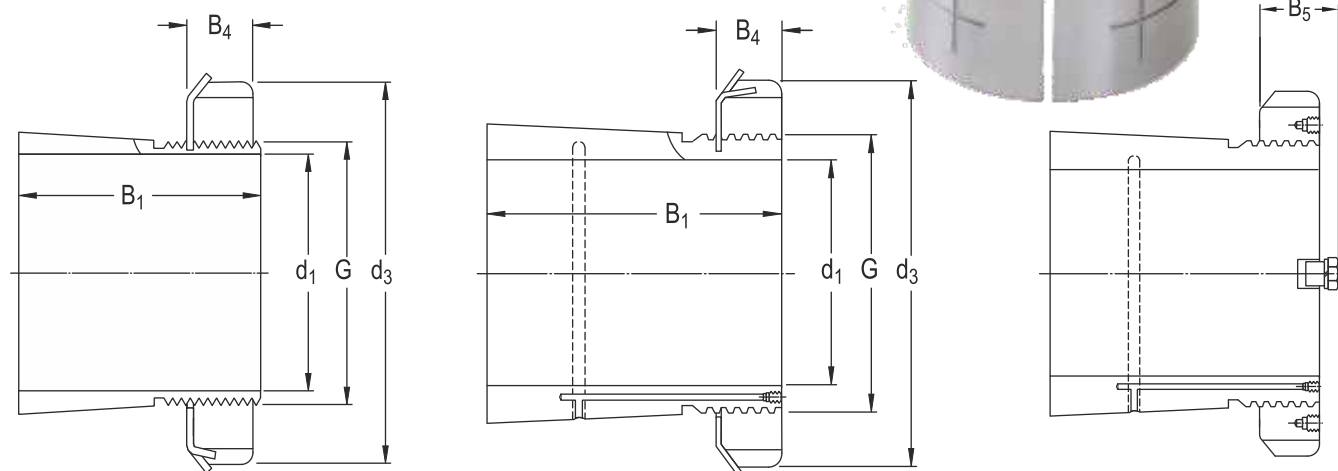


With lock nut (KM) and washer (MB)
Taper 1:12

Adapter Sleeve No.	d1				B1 mm	d3 mm	B4 mm	G mm	Approx Weight Kg	Suitable for Bearing Number
	H	HE	HS	HA						
	mm	Inch	Inch	Inch						
H 2304	17				31	32	7	M20 x 1	0.049	2304 K
H 2305	20	3/4			35	38	8	M25 x 1.5	0.087	2305 K
H 2306	25	1			38	45	8	M30 x 1.5	0.126	2306 K
H 2307	30				43	52	9	M35 x 1.5	0.165	2307 K
H 2308	35	1.1/4	1.3/8		46	58	10	M40 x 1.5	0.240	2308 K 22308 K
H 2309	40	1.1/2		1.7/16	50	65	11	M45 x 1.5	0.280	2309 K 22309 K
H 2310	45	1.3/4	1.5/8	1.11/16	55	70	12	M50 x 1.5	0.362	2310 K 22310 K
H 2311	50	2	1.7/8	1.15/16	59	75	12	M55 x 2	0.420	2311 K 22311 K
H 2312	55		2.1/8		62	80	13	M60 x 2	0.481	2312 K 22312 K
H 2313	60	2.1/4	2.3/8	2.3/16	65	85	13.5	M65 x 2	0.557	2313 K 22313 K
H 2314	60				68	92	13.5	M70 x 2	0.890	2314 K 22314 K
H 2315	65	2.1/2		2.7/16	73	98	14.5	M75 x 2	1.050	2315 K 22315 K
H 2316	70	2.3/4		2.11/16	78	105	17	M80 x 2	1.280	2316 K 22316 K
H 2317	75	3		2.15/16	82	110	18	M85 x 2	1.450	2317 K 22317 K
H 2318	80	3.1/4		3.3/16	86	120	18	M90 x 2	1.690	2318 K 22318 K 23218 K
H 2319	85	3.1/4			90	125	19	M95 x 2	1.920	2319 K 22319 K 23219 K
H 2320	90	3.1/2		3.7/16	97	130	20	M100 x 2	2.150	2320 K 22320 K 23220 K
H 2322	100	4		3.15/16	105	145	21	M110 x 2	2.740	2322 K 22322 K 23222 K
H 2324	110	4.1/4		4.3/16	112	155	22	M120 x 2	3.190	22324 K 23224 K
H 2326	115	4.1/2		4.7/16	121	165	23	M130 x 2	4.600	22326 K 23226 K
H 2328	125	5		4.15/16	131	180	24	M140 x 2	5.550	22328 K 23228 K
H 2330	135	5.1/4		5.3/16	139	195	26	M150 x 2	6.630	22330 K 23230 K
H 2332	140	5.1/2		5.7/16	147	210	28	M160 x 3	9.140	22332 K 23232 K
H 2334	150	6		5.15/16	154	220	29	M170 x 3	10.200	22334 K 23234 K
H 2336	160	6.1/2		6.7/16	161	230	30	M180 x 3	11.300	22336 K 23236 K
H 2338	170	6.3/4		6.15/16	169	240	30.5	M190 x 3	12.600	22338 K 23238 K
H 2340	180	7		7.3/16	176	250	31.5	M200 x 3	13.900	22340 K 23240 K
H 2344	200				186	280	35	M220 x 4	16.700	22344 K 23244 K
H 2348	220				199	300	37	M240 x 4	19.700	22348 K 23248 K
H 2352	240				211	330	39	M260 x 4	24.200	22352 K 23252 K
H 2356	260				224	350	41	M280 x 4	27.800	22356 K 23256 K

H 3120	90	3 1/2		3.7/16	76	130	20	M100 x 2	1.800	23120 K
H 3122	100	4		3.15/16	81	145	21	M110 x 2	2.250	23122 K
H 3124	110	4.1/4		4.3/16	88	155	22	M120 x 2	2.640	23124 K 22224 K 20324 K
H 3126	115	4.1/2		4.7/16	92	165	23	M130 x 2	3.660	23126 K 22226 K 20326 K
H 3128	125	5		4.15/16	97	180	24	M140 x 2	4.340	23128 K 22228 K 20328 K
H 3130	135	5.1/4		5.3/16	111	195	26	M150 x 2	5.520	23130 K 22230 K 20330 K
H 3132	140	5.1/2		5.7/16	119	210	28	M160 x 3	7.670	23132 K 22232 K 20332 K
H 3134	150	6		5.15/16	122	220	29	M170 x 3	8.380	23134 K 22234 K 20334 K
H 3136	160	6.1/2		6.7/16	131	230	29.5	M180 x 3	9.500	23136 K 22236 K 20336 K
H 3138	170	6.3/4		6.15/16	141	240	30.5	M190 x 3	10.800	23138 K 22238 K 20338 K

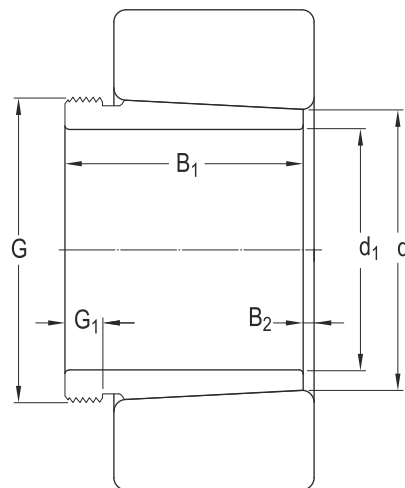
Adapter Sleeves with Lock Nut and Lock Washer



Adapter Sleeve No.	d1				B1	d3	B4	B5	G	Approx weight Kg	Suitable for Bearing Number		
	H mm	HE Inch	HS Inch	HA Inch									
H 3140	180	7		7.3/16	150	250	31.5	-	M200 x 3	12.100	23140 K	22240 K	20340 K
H 3144	200			7.15/16	161	280	35	41	Tr220 x 4	14.700	23144 K	22244 K	20344 K
H 3148	220				172	300	37	46	Tr240 x 4	17.300	23148 K	22248 K	20348 K
H 3152	240				190	330	39	46	Tr260 x 4	22.000	23152 K	22252 K	
H 3156	260				195	350	41	50	Tr280 x 4	24.500	23156 K	22256 K	
H 3160	280				208	380	40	53	Tr300 x 4	30.200	23160 K	22260 K	
H 3164	300				226	400	42	56	Tr320 x 5	34.900	23164 K	22264 K	
H 3168	320				254	440	55	72	Tr340 x 5	49.500	23168 K		
H 3172	340				259	460	58	75	Tr360 x 5	54.200	23172 K		
H 3176	360				264	490	60	77	Tr380 x 5	61.700	23176 K		
H 3180	380				272	520	62	82	Tr400 x 5	70.600	23180 K		
H 3184	400				304	540	70	90	Tr420 x 5	84.200	23184 K		
H 3188	410				307	560	70	90	Tr440 x 5	104.000	23188 K		
H 3192	430				326	580	75	95	Tr460 x 5	116.000	23192 K		
H 3196	450				335	620	75	95	Tr480 x 5	133.000	23196 K		
H 31/500	470				356	630	80	100	Tr500 x 5	143.000	231/500		

H 3024	110	4.1/4		4.3/16	72	145	22	-	M120 x 2	1.930	23024 K	20224 K	
H 3026	115	4.1/2		4.7/16	80	155	23	-	M130 x 2	2.850	23026 K	20226 K	
H 3028	125	5		4.15/16	82	165	24	-	M140 x 2	3.160	23028 K	20228 K	
H 3030	135	5.1/4		5.3/16	87	180	26	-	M150 x 2	3.890	23030 K	20230 K	
H 3032	140	5.1/2		5.7/16	93	190	27.5	-	M160 x 3	5.210	23032 K	20232 K	
H 3034	150	6		5.15/16	101	200	28.5	-	M170 x 3	5.990	23034 K		
H 3036	160	6.1/2		6.7/16	109	210	29.5	-	M180 x 3	6.830	23036 K		
H 3038	170	6.3/4		6.15/16	112	220	30.5	-	M190 x 3	7.450	23038 K		
H 3040	180	7		7.3/16	120	240	31.5	-	M200 x 3	9.190	23040 K		
H 3044	200			7.15/16	126	260	30	41	Tr220 x 4	10.300	23044 K		
H 3048	220			8.15/16	133	290	34	46	Tr240 x 4	13.200	23048 K		
H 3052	240			9.7/16	145	310	34	46	Tr260 x 4	15.300	23052 K		
H 3056	260			10.7/16	152	330	38	50	Tr280 x 4	17.700	23056 K		
H 3060	280			10.15/16	168	360	42	54	Tr300 x 4	22.800	23060 K		
H 3064	300			11.15/16	171	380	42	55	Tr320 x 5	24.600	23064 K		
H 3068	320			12.7/16	187	400	45	58	Tr340 x 5	28.700	23068 K		
H 3072	340			13.7/16	188	420	45	58	Tr360 x 5	30.500	23072 K		
H 3076	360			13.15/16	193	450	48	62	Tr380 x 5	35.800	23076 K		
H 3080	380				210	470	52	66	Tr400 x 5	41.300	23080 K		
H 3084	400				212	490	52	66	Tr420 x 5	43.700	23084 K		
H 3088	410				228	520	60	77	Tr440 x 5	65.200	23088 K		
H 3092	430				234	540	60	77	Tr460 x 5	69.500	23092 K		
H 3096	450				237	560	60	77	Tr480 x 5	73.300	23096 K		
H 30/500	470				247	580	68	85	Tr500 x 5	81.800	230/500		

Withdrawal Sleeves without Lock Nut and Lock Washer

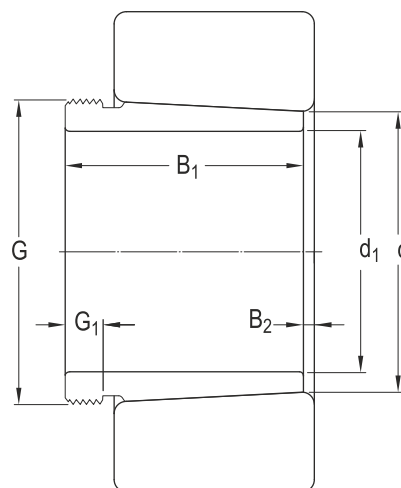


Withdrawal Sleeve No.	Dimensions (mm)							Weight	Suitable for Bearing Number				
	d1	d	B1	B2	G1	G Thread	Extraction Nut						
AH 308	35	40	29	3	6	M45 x 1.5	KM 9	0.090	2208 EK	1308 EK	22208 EK	21308 CCK	20308 K
AH 309	40	45	31	3	6	M50 x 1.5	KM 10	0.110	2209 EK	1309 EK	22209 EK	21309 CCK	20309 K
AHX 310	45	50	35	3	7	M55 x 2	KM 11	0.140	2210 EK	1310 EK	22210 EK	21310 CCK	20310 K
AHX 311	50	55	37	3	7	M60 x 2	KM 12	0.160	2211 EK	1311 EK	22211 EK	21311 CCK	20311 K
AHX 312	55	60	40	3	8	M65 x 2	KM 13	0.190	2212 EK	1312 EK	22212 EK	21312 CCK	20312 K
AH 313	60	65	42	3	8	M70 x 2	KM 14	0.220	2213 EK	1313 EK	22213 EK	21313 CCK	20313 K
AH 314	65	70	43	4	8	M75 x 2	KM 15	0.240	2214 EK	1314 EK	22214 EK	21314 CCK	20314 K
AH 315	70	75	45	4	8	M80 x 2	KM 16	0.290	2215 EK	1315 EK	22215 EK	21315 CCK	20315 K
AH 316	75	80	48	4	8	M90 x 2	KM 18	0.310	2216 EK	1316 EK	22216 EK	21316 CCK	20316 K
AHX 317	80	85	52	4	9	M95 x 2	KM 19	0.370	2217 EK	1317 EK	22217 EK	21317 CCK	20317 K
AHX 318	85	90	53	4	9	M100 x 2	KM 20	0.460	2218 EK	1318 EK	22218 EK	21318 CCK	20318 K
AHX 319	90	95	57	4	10	M105 x 2	KM 21	0.530	2219 EK	1319 EK	22219 EK	21319 CCK	20319 K
AHX 320	95	100	59	4	10	M110 x 2	KM 22	0.580	2220 EK	1320 EK	22220 EK	21320 CCK	20320 K
AHX 322	105	110	63	4	12	M120 x 2	KM 24	0.660	2222 EK	1322 EK		21322 CCK	20322 K

AH 2308	35	40	40	3	7	M45 x 1.5	KM 9	0.130	2308 EK	22308 EK			
AH 2309	40	45	44	3	7	M50 x 1.5	KM 10	0.160	2309 EK	22309 EK			
AHX 2310	45	50	50	3	9	M55 x 2	KM 11	0.210	2310 EK	22310 EK			
AHX 2311	50	55	54	3	10	M60 x 2	KM 12	0.250	2311 EK	22311 EK			
AHX 2312	55	60	58	3	11	M65 x 2	KM 13	0.300	2312 EK	22312 EK			
AH 2313	60	65	61	3	12	M70 x 2	KM 14	0.360	2313 EK	22313 EK			
AHX 2314	65	70	64	4	12	M75 x 2	KM 15	0.420	2314 EK	22314 EK			
AHX 2315	70	75	68	4	12	M80 x 2	KM 16	0.480	2315 EK	22315 EK			
AHX 2316	75	80	71	4	12	M90 x 2	KM 18	0.600	2316 EK	22316 EK			
AHX 2317	80	85	74	4	13	M95 x 2	KM 19	0.670	2317 EK	22317 EK			
AHX 2318	85	90	79	4	14	M100 x 2	KM 20	0.780	2318 EK	22318 EK			
AHX 2319	90	95	85	4	16	M105 x 2	KM 21	0.890	2319 EK	22319 EK			
AHX 2320	95	100	90	4	16	M110 x 2	KM 22	1.000	2320 EK	22320 EK			
AHX 2322	105	110	98	4	16	M120 x 2	KM 24	1.300	2322 EK	22322 EK			
AHX 2324	115	120	105	4	17	M130 x 2	KM 26	1.550	2324 EK	22324 EK			
AHX 2326	125	130	115	4	19	M140 x 2	KM 28	1.850	22326 CCK/W33				
AHX 2328	135	140	125	5	20	M150 x 2	KM 30	2.250	22328 CCK/W33				
AHX 2330	145	150	135	5	24	M160 x 3	KM 32	3.700	22330 CCK/W33				
AH 2332	150	160	140	6	24	M170 x 3	KM 34	4.350	22332 CCK/W33				
AH 2334	160	170	146	6	24	M180 x 3	KM 36	4.850	22334 CCK/W33				
AH 2336	170	180	154	6	26	M190 x 3	KM 38	5.500	22336 CCK/W33				
AH 2338	180	190	160	7	26	M200 x 3	KM 40	6.100	22338 CCK/W33				
AH 2340	190	200	170	7	30	Tr220 x 4	HM 3044	7.500	22340 CCK/W33				
AH 2344	200	220	181	8	30	Tr240 x 4	HM 3048	13.500	22344 CCK/W33	23244 CCK/W33			
AH 2348	220	240	189	8	30	Tr260 x 4	HM 3052	13.900	22348 CCK/W33	23248 CCK/W33			
AH 2352	240	260	205	8	30	Tr280 x 4	HM 3056	19.000	22352 CCK/W33	23252 CCK/W33			

AH 2244	200	220	130	6	20	Tr240 x 4	HM 3048	9.10	22244 CCK/W33				
AH 2248	220	240	144	6	21	Tr260 x 4	HM 3052	11.10	22248 CCK/W33				
AH 2252	240	260	155	6	23	Tr280 x 4	HM 3056	13.60	22252 CACK/W33				
AH 2256	260	280	155	8	24	Tr300 x 4	HM 3160	15.20	22256 CACK/W33				
AH 2260	280	300	170	8	26	Tr320 x 5	HM 3164	17.50	22260 CACK/W33				

Withdrawal Sleeves without Lock Nut and Lock Washer



Withdrawal Sleeve No.	Dimensions (mm)							Weight Kg	Suitable for Bearing Number
	d1	d	B1	B2	G1	G Thread	Extraction Nut		
AHX 3218	85	90	63	4	10	M100 x 2	KM 20	0.580	23218 CCK/W33
AHX 3220	95	100	73	4	11	M110 x 2	KM 22	0.770	23220 CCK/W33
AHX 3222	105	110	82	4	11	M120 x 2	KM 24	1.040	23222 CCK/W33
AHX 3224	115	120	90	4	13	M130 x 2	KM 26	1.300	23224 CCK/W33
AHX 3226	125	130	98	4	15	M140 x 2	KM 28	1.580	23226 CCK/W33
AHX 3228	135	140	104	5	15	M150 x 2	KM 30	1.840	23228 CCK/W33
AHX 3230	145	150	114	5	17	M160 x 3	KM 32	2.220	23230 CCK/W33
AH 3232	150	160	124	6	20	M170 x 3	KM 34	4.080	23232 CCK/W33
AH 3234	160	170	134	6	24	M180 x 3	KM 36	4.800	23234 CCK/W33
AH 3236	170	180	140	6	24	M190 x 3	KM 38	5.320	23236 CCK/W33
AH 3238	180	190	145	7	25	M200 x 3	KM 40	5.900	23238 CCK/W33
AH 3240	190	200	153	7	25	Tr220 x 4	HM 3044	6.680	23240 CCK/W33

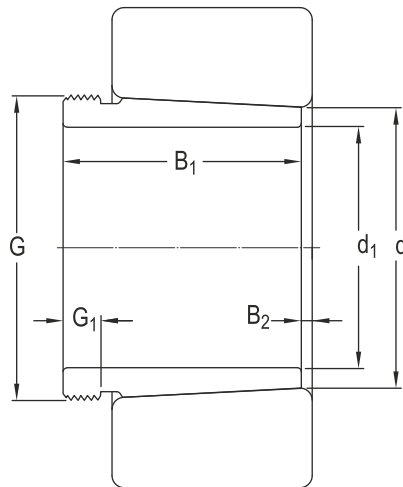
AHX 3120	95	100	64	4	11	M110 x 2	KM 22	0.650	23120 CCK/W33
AHX 3122	105	110	68	4	11	M120 x 2	KM 24	0.760	23122 CCK/W33, 22222 EK, 2222K
AHX 3124	115	120	75	4	12	M130 x 2	KM 26	0.950	23124 CCK/W33 22224 EK
AHX 3126	125	130	78	4	12	M140 x 2	KM 28	1.080	23126 CCK/W33 22226EK
AHX 3128	135	140	83	5	14	M150 x 2	KM 30	1.280	23128 CCK/W33 22228 EK
AHX 3130	145	150	96	5	15	M160 x 3	KM 32	1.790	23130 CCK/W33 22230 CCK/W33
AH 3132	150	160	103	5	16	M170 x 3	KM 34	3.210	23132 CCK/W33 22232 CCK/W33
AH 3134	160	170	104	5	16	M180 x 3	KM 36	3.900	23134 CCK/W33 22234 CCK/W33
AH 3136	170	180	116	6	19	M190 x 3	KM 38	4.220	23136 CCK/W33
AH 3138	180	190	125	6	20	M200 x 3	KM 40	4.890	23138 CCK/W33
AH 3140	190	200	134	6	21	Tr220 x 4	HM 3044	5.600	23140 CCK/W33
AH 3144	200	220	145	6	23	Tr240 x 4	HM 3048	9.350	23144 CCK/W33
AH 3148	220	240	154	7	25	Tr260 x 4	HM 3052	12.000	23148 CCK/W33
AH 3152	240	260	172	7	26	Tr280 x 4	HM 3056	15.600	23152 CCK/W33
AH 3156	260	280	175	8	28	Tr300 x 4	HM 3160	17.000	23156 CCK/W33
AH 3160	280	300	192	8	30	Tr320 x 5	HM 3164	20.500	23160 CCK/W33

AHX 3024	115	120	60	4	13	M130 x 2	KM 26	0.750	23024 CCK/W33
AHX 3026	125	130	67	4	14	M140 x 2	KM 28	0.930	23026 CCK/W33
AHX 3028	135	140	68	5	14	M150 x 2	KM 30	1.010	23028 CCK/W33
AHX 3030	145	150	72	5	15	M160 x 3	KM 32	1.150	23030 CCK/W33
AH 3032	150	160	77	5	16	M170 x 3	KM 34	2.060	23032 CCK/W33
AH 3034	160	170	85	5	17	M180 x 3	KM 36	2.430	23034 CCK/W33
AH 3036	170	180	92	6	17	M190 x 3	KM 38	2.810	23036 CCK/W33
AH 3038	180	190	96	6	18	M200 x 3	KM 40	3.320	23038 CCK/W33
AH 3040	190	200	102	6	19	Tr210 x 4	HM 42T	3.800	23040 CCK/W33
AH 3044	200	220	111	6	20	Tr230 x 4	HM 46T	7.400	23044 CCK/W33
AH 3048	220	240	116	7	21	Tr260 x 4	HM 3052	8.000	23048 CCK/W33
AH 3052	240	260	128	7	23	Tr280 x 4	HM 3056	9.600	23052 CCK/W33
AH 3056	260	280	131	8	24	Tr300 x 4	HM 3060	11.100	23056 CCK/W33
AH 3060	280	300	145	8	26	Tr320 x 5	HM 3064	13.200	23060 CCK/W33

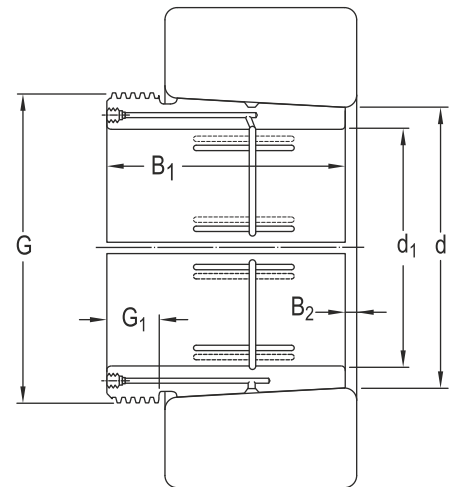
Withdrawal Sleeves without Lock Nut and Lock Washer



Hydraulic Sleeve



Taper 1:30 (AH240, AH241)



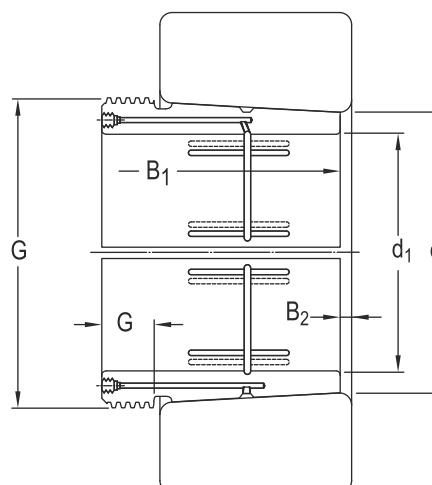
Withdrawal Sleeve No.	Dimensions (mm)							Weight Kg	Suitable for Bearing Number
	d1	d	B1	B2	G1	G Thread	Extraction Nut		
AH 24122	105	110	82	9	13	M115 x 2	KM 23	0.730	24122 CCK30/W33
AH 24124	115	120	93	9	13	M130 x 2	KM 26	1.000	24124 CCK30/W33
AH 24126	125	130	94	10	14	M140 x 2	KM 28	1.110	24126 CCK30/W33
AH 24128	135	140	99	10	14	M150 x 2	KM 30	1.280	24128 CCK30/W33
AH 24130	145	150	115	11	15	M160 x 3	KM 32	1.560	24130 CCK30/W33
AH 24132	150	160	124	11	15	M170 x 3	KM 34	3.000	24132 CCK30/W33
AH 24134	160	170	125	11	16	M180 x 3	KM 36	3.210	24134 CCK30/W33
AH 24136	170	180	134	11	16	M190 x 3	KM 38	3.680	24136 CCK30/W33
AH 24138	180	190	146	13	18	M200 x 3	KM 40	4.280	24138 CCK30/W33
AH 24140	190	200	158	13	18	Tr210 x 4	HM 42T	5.100	24140 CCK30/W33

AH 24024	115	120	73	9	13	M125 x 2	KM 25	0.650	24024 CCK/W33
AH 24026	125	130	83	10	14	M135 x 2	KM 27	0.840	24026 CCK/W33
AH 24028	135	140	83	10	14	M145 x 2	KM 29	0.910	24028 CCK/W33
AH 24030	145	150	90	11	15	M155 x 3	KM 31	1.040	24030 CCK/W33
AH 24032	150	160	95	11	15	M170 x 3	KM 34	2.330	24032 CCK/W33
AH 24034	160	170	106	11	16	M180 x 3	KM 36	2.800	24034 CCK/W33
AH 24036	170	180	116	11	16	M190 x 3	KM 38	3.100	24036 CCK/W33
AH 24038	180	190	118	13	18	M200 x 3	KM 40	3.500	24038 CCK/W33
AH 24040	190	200	127	13	18	Tr210 x 4	HM 42T	3.930	24040 CCK/W33

AOH 24044	200	220	138	14	20	Tr230 x 4	HM 46T	8.25	24044 CCK30/W33
AOH 24048	220	240	138	15	20	Tr250 x 4	HM 50T	9.00	24048 CCK30/W33
AOH 24052	240	260	162	16	22	Tr280 x 4	HM 3056	12.50	24052 CCK30/W33
AOH 24056	260	280	162	17	22	Tr300 x 4	HM 3160	13.60	24056 CCK30/W33
AOH 24060	280	300	184	18	24	Tr320 x 5	HM 3164	17.10	24060 CCK30/W33
AOH 24064	300	320	184	18	24	Tr340 x 5	HM 3168	18.20	24064 CCK30/W33
AOH 24068	320	340	206	19	26	Tr360 x 5	HM 3172	18.40	24068 CCK30/W33

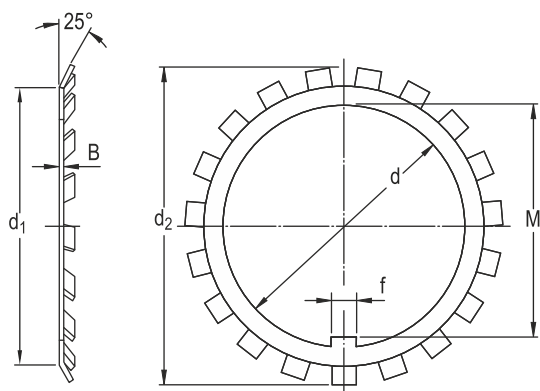
AOH 24144	200	220	170	14	20	Tr230 x 4	HM 46T	10.20	24144 CCK30/W33
AOH 24148	220	240	180	15	20	Tr260 x 4	HM 3052	11.40	24148 CCK30/W33
AOH 24152	240	260	202	16	22	Tr280 x 4	HM 3056	14.00	24152 CCK30/W33
AOH 24156	260	280	202	17	22	Tr300 x 4	HM 3160	15.20	24156 CCK30/W33
AOH 24160	280	300	224	18	24	Tr320 x 5	HM 3164	18.70	24160 CCK30/W33
AOH 24164	300	320	242	18	24	Tr340 x 5	HM 3168	20.60	24164 CCK30/W33
AOH 24168	320	340	269	19	26	Tr360 x 5	HM 3172	25.80	24168 CCK30/W33
AOH 24172	340	360	269	20	26	Tr380 x 5	HM 3176	26.80	24172 CCK30/W33
AOH 24176	360	380	271	20	28	Tr400 x 5	HM 3180	31.20	24176 CCK30/W33

Withdrawal Sleeves without Lock Nut and Lock Washer



Withdrawal Sleeve No.	Dimensions (mm)							Weight Kg	Suitable for Bearing Number
	d1	d	B1	B2	G1	G Thread	Extraction Nut		
AOH 3064	300	320	149	8	27	Tr340 x 5	HM 3068	16.40	23064 CCK/W33
AOH 3068	320	340	162	9	28	Tr360 x 5	HM 3072	19.00	23068 CCK/W33
AOH 3072	340	360	167	9	30	Tr380 x 5	HM 3076	21.00	23072 CCK/W33
AOH 3076	360	380	170	10	31	Tr400 x 5	HM 3080	22.60	23076 CCK/W33
AOH 3080	380	400	183	10	33	Tr420 x 5	HM 3084	26.30	23080 CACK/W33
AOH 3084	400	420	186	10	34	Tr440 x 6	HM 3088	28.30	23084 CAK/W33
AOH 3088	420	440	194	11	35	Tr460 x 5	HM 3092	31.20	23088 CAK/W33
AOH 3092	440	460	202	11	37	Tr480 x 5	HM 3096	34.10	23092 CAK/W33
AOH 3096	460	480	205	12	38	Tr500 x 5	HM 30/500	34.40	23096 CAK/W33
AOH 3164	300	320	209	8	31	Tr340 x 5	HM 3168	24.50	23164 CCK/W33
AOH 3168	320	340	225	9	33	Tr360 x 5	HM 3172	28.60	23168 CCK/W33
AOH 3172	340	360	229	9	35	Tr380 x 5	HM 3176	30.50	23172 CACK/W33
AOH 3176	360	380	232	10	36	Tr400 x 5	HM 3180	33.10	23176 CAK/W33
AOH 3180	380	400	240	10	38	Tr420 x 5	HM 3184	36.20	23180 CAK/W33
AOH 3184	400	420	266	10	40	Tr440 x 6	HM 3188	43.30	23184 CAK/W33
AOH 3188	420	440	270	11	42	Tr460 x 5	HM 3192	46.10	23188 CAK/W33
AOH 3192	440	460	285	11	43	Tr480 x 5	HM 3196	51.80	23192 CAK/W33
AOH 3196	460	480	295	12	45	Tr500 x 5	HM 31/500	56.20	23196 CAK/W33
AOH 3264	300	320	246	8	36	Tr340 x 5	HM 3168	27.50	23264 CACK/W33
AOH 3268	320	340	264	9	38	Tr360 x 5	HM 3172	32.10	23268 CAK/W33
AOH 3272	340	360	274	9	40	Tr380 x 5	HM 3176	35.70	23272 CAK/W33
AOH 3276	360	380	284	10	42	Tr400 x 5	HM 3180	42.10	23276 CAK/W33
AOH 3280	380	400	302	10	44	Tr420 x 5	HM 3184	48.30	23280 CAK/W33
AOH 3284	400	420	321	10	46	Tr440 x 6	HM 3188	54.30	23284 CAK/W33
AOH 3288	420	440	330	11	48	Tr460 x 5	HM 3192	59.10	23288 CAK/W33
AOH 3292	440	460	349	11	50	Tr480 x 5	HM 3196	66.80	23292 CAK/W33
AOH 3296	460	480	364	12	52	Tr500 x 5	HM 31/500	73.50	23296 CAK/W33
AOH 30/500	480	500	209	12	40	Tr530 x 6	HM 30/530	41.20	230/500 CAK/W33
AOH 31/500	480	500	313	12	47	Tr530 x 6	HM 31/530	66.40	231/500 CAK/W33
AOH 32/500	480	500	393	12	54	Tr530 x 6	HM 31/530	89.60	232/500 CAK/C3W33

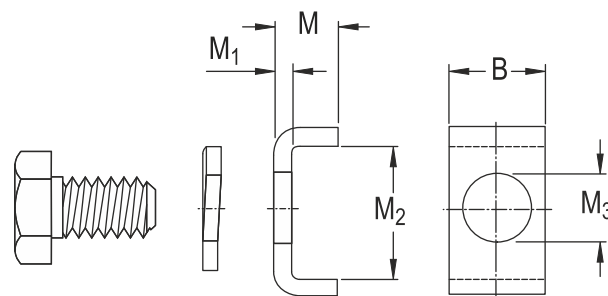
Lock Washer / Locking Clamps



Lock Washer MB, MBL

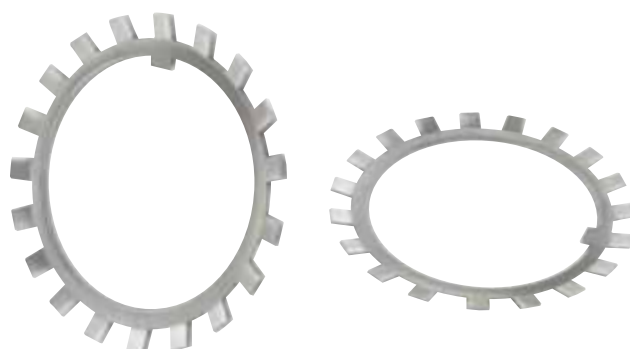
Designation	d	d1	d2	B	f	M
MB 0	10	13.5	21	1	3	8.5
MB 1	12	17	25	1	3	10.5
MB 2	15	21	28	1	4	13.5
MB 3	17	24	32	1	4	15.5
MB 4	20	26	36	1	4	18.5
MB 5	25	32	42	1.25	5	23
MB 6	30	38	49	1.25	5	27.5
MB 7	35	44	57	1.25	6	32.5
MB 8	40	50	62	1.25	6	37.5
MB 9	45	56	69	1.25	6	42.5
MB 10	50	61	74	1.25	6	47.5
MB 11	55	67	81	1.25	8	52.5
MB 12	60	73	86	1.5	8	57.5
MB 13	65	79	92	1.5	8	62.5
MB 14	70	85	98	1.5	8	66.5
MB 15	75	90	104	1.5	8	71.5
MB 16	80	95	112	1.75	10	76.5
MB 17	85	102	119	1.75	10	81.5
MB 18	90	108	126	1.75	10	86.5
MB 19	95	113	133	1.75	10	91.5
MB 20	100	120	142	1.75	12	96.5
MB 21	105	126	145	1.75	12	100.5
MB 22	110	133	154	1.75	12	105.5
MB 23	115	137	159	2	12	110.5
MB 24	120	138	164	2	14	115
MB 25	125	148	170	2	14	120
MB 26	130	149	175	2	14	125
MB 27	135	160	185	2	14	130
MB 28	140	160	192	2	16	135
MB 29	145	172	202	2	16	140
MB 30	150	171	205	2	16	145
MB 31	155	182	212	2.5	16	147.5
MB 32	160	182	217	2.5	18	154
MB 33	165	193	222	2.5	18	157.5
MB 34	170	193	232	2.5	18	164
MB 36	180	203	242	2.5	20	174
MB 38	190	214	252	2.5	20	184
MB 40	200	226	262	2.5	20	194
MB 44	220	250	292	3	24	213
MB 48	240	270	312	3	24	233
MB 52	260	300	342	3	28	253
MB 56	280	320	362	3	28	273

MBL 24	120	135	148	2	14	115
MBL 26	130	145	158	2	14	125
MBL 28	140	155	170	2	16	132.5
MBL 30	150	170	186	2	16	142.5
MBL 32	160	180	197	2.5	18	152.5
MBL 34	170	190	209	2.5	18	162.5
MBL 36	180	200	215	2.5	20	172.5
MBL 38	190	210	228	2.5	20	182.5
MBL 40	200	222	248	2.5	20	192.5

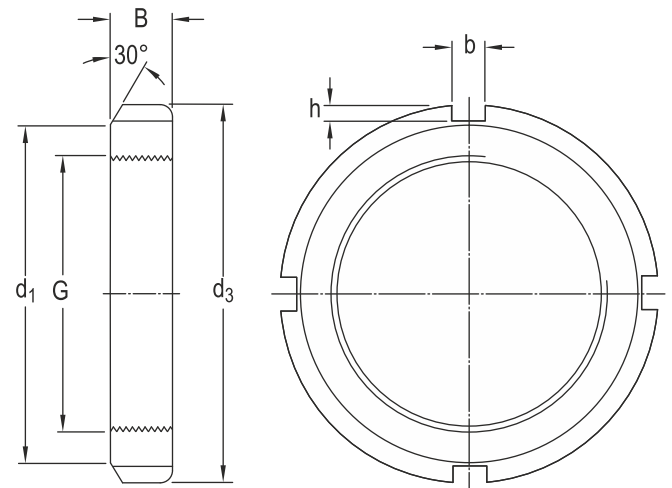


Locking Clamps MS 30, 31

Designation Locking Clip	Dimensions (mm)					Hexagon Headed Bolt	Spring Washer
	B	M	M1	M2	M3		
MS 3044	20	12	4	13.5	7	M 6 x 12	A 6
MS 3052-48	20	12	4	17.5	9	M 8 x 16	A 8
MS 3056	24	12	4	17.5	9	M 8 x 16	A 8
MS 3060	24	12	4	20.5	9	M 8 x 16	A 8
MS 3160	24	12	4	30.5	12	M 10 x 20	A 10
MS 3164	24	15	5	31	12	M 10 x 20	A 10
MS 3068-64	24	15	5	21	9	M 8 x 16	A 8
MS 3072	28	15	5	20	9	M 8 x 16	A 8
MS 3172-68	28	15	5	38	14	M 12 x 25	A 12
MS 3176	32	15	5	40	14	M 12 x 25	A 12
MS 3080-76	28	15	5	24	12	M 10 x 20	A 10
MS 3084	32	15	5	24	12	M 10 x 20	A 10
MS 3184-80	32	15	5	45	18	M 16 x 30	A 16
MS 3092-88	32	15	5	28	14	M 12 x 25	A 12
MS 3192-88	36	15	5	43	18	M 16 x 30	A 16
MS 3196	36	15	5	53	18	M 16 x 30	A 16
MS 30/500-96	36	15	5	28	14	M 12 x 25	A 12
MS 31/500	40	15	5	45	18	M 16 x 30	A 16
MS 31/530	40	21	7	51	22	M 20 x 40	A 20
MS 30/560	40	21	7	29	18	M 16 x 30	A 16
MS 30/600-530	40	21	7	34	18	M 16 x 30	A 16
MS 31/600-560	45	21	7	54	22	M 20 x 40	A 20
MS 30/630	45	21	7	34	18	M 16 x 30	A 16
MS 31/630	50	21	7	61	22	M 20 x 40	A 20
MS 30/670	45	21	7	39	18	M 16 x 30	A 16
MS 31/670	50	21	7	66	22	M 20 x 40	A 20
MS 30/710	50	21	7	39	18	M 16 x 30	A 16
MS 31/710	55	21	7	69	26	M 24 x 50	A 24
MS 30/800-750	55	21	7	39	18	M 16 x 30	A 16
MS 31/800-750	60	21	7	70	26	M 24 x 50	A 24
MS 31/850	70	21	7	71	26	M 24 x 50	A 24
MS 30/900-850	60	21	7	44	22	M 20 x 40	A 20
MS 31/900	70	21	7	76	26	M 24 x 50	A 24
MS 30/950	60	21	7	46	22	M 20 x 40	A 20
MS 31/950	70	21	7	78	26	M 24 x 50	A 24
MS 30/1000	60	21	7	51	22	M 20 x 40	A 20
MS 31/1000	70	21	7	88	26	M 24 x 50	A 24



Lock Nut / Extraction Nut



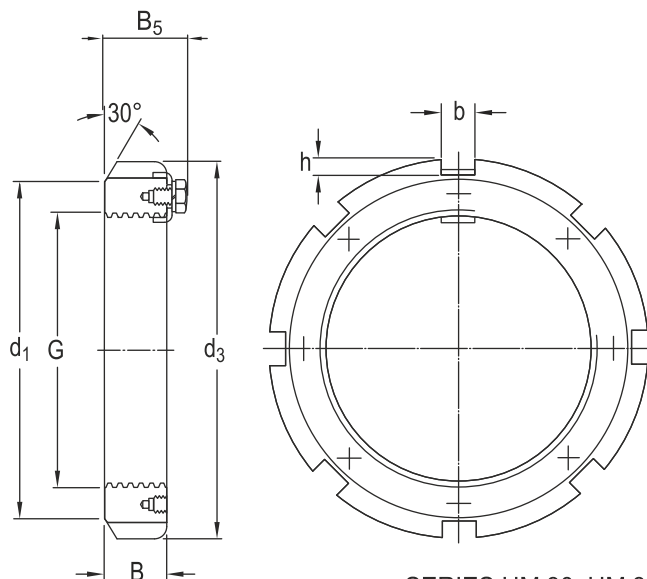
LOCK NUT SERIES KM, KML, HM, HML

Designation	Dimensions (mm)					Thread G
	d3	B	d1	b	h	
KM 0	18	4	13.5	3	2	M10 x 0.75
KM 1	22	4	17	3	2	M12 x 1
KM 2	25	5	21	4	2	M15 x 1
KM 3	28	5	24	4	2	M17 x 1
KM 4	32	6	26	4	2	M20 x 1
KM 5	38	7	32	5	2	M25 x 1.5
KM 6	45	7	38	5	2	M30 x 1.5
KM 7	52	8	44	5	2	M35 x 1.5
KM 8	58	9	50	6	2.5	M40 x 1.5
KM 9	65	10	56	6	2.5	M45 x 1.5
KM 10	70	11	61	6	2.5	M50 x 1.5
KM 11	75	11	67	7	3	M55 x 2
KM 12	80	11	73	7	3	M60 x 2
KM 13	85	12	79	7	3	M65 x 2
KM 14	92	12	85	8	3.5	M70 x 2
KM 15	98	13	90	8	3.5	M75 x 2
KM 16	105	15	95	8	3.5	M80 x 2
KM 17	110	16	102	8	3.5	M85 x 2
KM 18	120	16	108	10	4	M90 x 2
KM 19	125	17	113	10	4	M95 x 2
KM 20	130	18	120	10	4	M100 x 2
KM 21	140	18	126	12	5	M105 x 2
KM 22	145	19	133	12	5	M110 x 2
KM 23	150	19	137	12	5	M115 x 2
KM 24	155	20	138	12	5	M120 x 2
KM 25	160	21	148	12	5	M125 x 2
KM 26	165	21	149	12	5	M130 x 2
KM 27	175	22	160	14	6	M135 x 2
KM 28	180	22	160	14	6	M140 x 2
KM 29	190	24	171	14	6	M145 x 2
KM 30	195	24	171	14	6	M150 x 2
KM 31	200	25	182	16	7	M155 x 3
KM 32	210	25	182	16	7	M160 x 3
KM 33	210	26	193	16	7	M165 x 3
KM 34	220	26	193	16	7	M170 x 3
KM 36	230	27	203	18	8	M180 x 3
KM 38	240	28	214	18	8	M190 x 3
KM 40	250	29	226	18	8	M200 x 3

Designation	Dimensions (mm)					Thread G
	d3	B	d1	b	h	
KML 28	165	22	155	12	5	M140 x 2
KML 30	180	24	170	14	5	M150 x 2
KML 32	190	25	180	14	5	M160 x 3
KML 34	200	26	190	16	5	M170 x 3
KML 36	210	27	200	16	5	M180 x 3
KML 38	220	28	210	16	5	M190 x 3
KML 40	240	29	222	18	8	M200 x 3

HM 42T	270	30	238	20	10	Tr210 x 4
HM 44T	280	32	250	20	10	Tr220 x 4
HM 46T	290	34	260	20	10	Tr230 x 4
HM 48T	300	34	270	20	10	Tr240 x 4
HM 50T	320	36	290	20	10	Tr250 x 4
HM 52T	330	36	300	24	12	Tr260 x 4
HM 54T	340	36	310	24	12	Tr270 x 4
HM 56T	350	36	320	24	12	Tr280 x 4
HM 58T	365	36	335	24	12	Tr290 x 4
HM 60T	370	36	340	24	12	Tr300 x 4
HM 62T	380	36	350	24	12	Tr310 x 5
HM 64T	400	40	370	24	12	Tr320 x 5
HM 66T	410	40	380	28	15	Tr330 x 5
HM 68T	420	42	390	28	15	Tr340 x 5
HM 70T	430	42	400	28	15	Tr350 x 5
HM 72T	440	45	410	28	15	Tr360 x 5
HM 74T	450	45	420	28	15	Tr370 x 5
HM 80T	500	46	460	32	18	Tr400 x 5

HML 41T	250	30	232	18	8	Tr205 x 4
HML 43T	260	30	242	20	9	Tr215 x 4
HML 47T	280	30	262	20	9	Tr235 x 4
HML 52T	310	30	290	20	10	Tr260 x 4
HML 56T	330	30	310	24	10	Tr280 x 4
HML 60T	360	31	336	24	12	Tr300 x 4
HML 64T	380	32	356	24	12	Tr320 x 5
HML 69T	410	33	384	28	13	Tr345 x 5
HML 72T	420	35	394	28	13	Tr360 x 5
HML 73T	430	35	404	28	13	Tr365 x 5
HML 77T	450	37	422	28	14	Tr385 x 5



SERIES HM 30, HM 31
Lock Nuts, Shaft Nuts with Trapezoidal Threads

Designation	Dimensions (mm)						Thread G	Suitable Locking Clip
	d3	B	d1	B5	b	h		
HM 3044	260	30	242	41	20	9	Tr220 x 4	MS 3044
HM 3048	290	34	270	46	20	10	Tr240 x 4	MS 3052-48
HM 3052	310	34	290	46	20	10	Tr260 x 4	MS 3052-48
HM 3056	330	38	310	50	24	10	Tr280 x 4	MS 3056
HM 3060	360	42	336	54	24	12	Tr300 x 4	MS 3060
HM 3064	380	42	356	55	24	12	Tr320 x 5	MS 3068-64
HM 3068	400	45	376	58	24	12	Tr340 x 5	MS 3068-64
HM 3072	420	45	394	58	28	13	Tr360 x 5	MS 3072
HM 3076	450	48	422	62	28	14	Tr380 x 5	MS 3080-76
HM 3080	470	52	442	66	28	14	Tr400 x 5	MS 3080-76
HM 3084	490	52	462	66	32	14	Tr420 x 5	MS 3084
HM 3088	520	60	490	77	32	15	Tr440 x 5	MS 3092-88
HM 3092	540	60	510	77	32	15	Tr460 x 5	MS 3092-88
HM 3096	560	60	530	77	36	15	Tr480 x 5	MS 30/500-96
HM 30/500	580	68	550	85	36	15	Tr500 x 5	MS 30/500-96
HM 30/530	630	68	590	90	40	20	Tr530 x 6	MS 30/600-530
HM 30/560	650	75	610	97	40	20	Tr560 x 6	MS 30/560
HM 30/600	700	75	660	97	40	20	Tr600 x 6	MS 30/600-530
HM 30/630	730	75	690	97	45	20	Tr630 x 6	MS 30/630
HM 30/670	780	80	740	102	45	20	Tr670 x 6	MS 30/670
HM 3144	280	32	250	-	20	10	Tr220 x 4	-
HM 3148	300	34	270	-	20	10	Tr240 x 4	-
HM 3152	330	36	300	-	24	12	Tr260 x 4	-
HM 3156	350	38	320	-	24	12	Tr280 x 4	-
HM 3160	380	40	340	53	24	12	Tr300 x 4	MS 3160
HM 3164	400	42	360	56	24	12	Tr320 x 5	MS 3164
HM 3168	440	55	400	72	28	15	Tr340 x 5	MS 3172-68
HM 3172	460	58	420	75	28	15	Tr360 x 5	MS 3172-68
HM 3176	490	60	440	77	32	18	Tr380 x 5	MS 3176
HM 3180	520	62	460	82	32	18	Tr400 x 5	MS 3184-80
HM 3184	540	70	490	90	32	18	Tr420 x 5	MS 3184-80
HM 3188	560	70	510	90	36	20	Tr440 x 5	MS 3192-88
HM 3192	580	75	540	95	36	20	Tr460 x 5	MS 3192-88
HM 3196	620	75	560	95	36	20	Tr480 x 5	MS 3196
HM 31/500	630	80	580	100	40	23	Tr500 x 5	MS 31/500
HM 31/530	670	80	610	105	40	23	Tr530 x 6	MS 31/530
HM 31/560	710	85	650	110	45	25	Tr560 x 6	MS 31/600-560
HM 31/600	750	85	690	110	45	25	Tr600 x 6	MS 31/600-560
HM 31/630	800	95	730	120	50	28	Tr630 x 6	MS 31/630

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