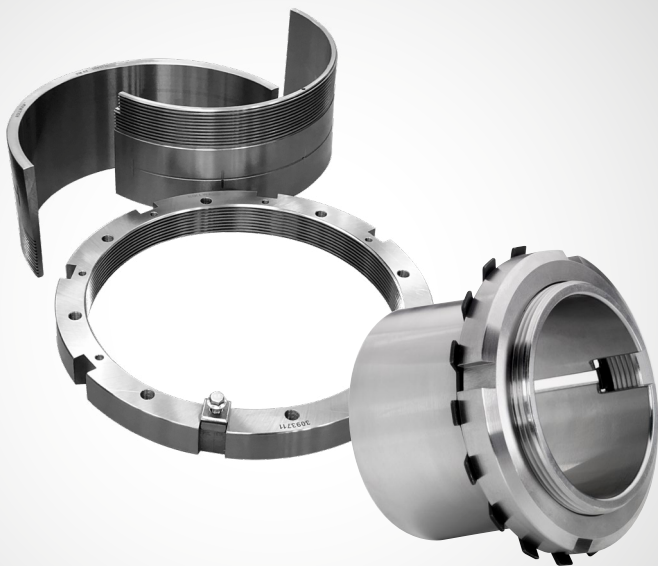




PRODUCT CATALOG

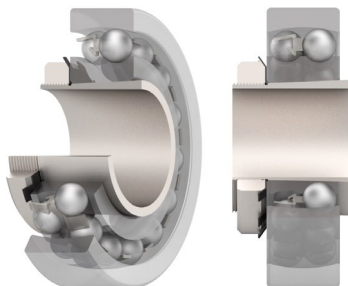
ACCESSORIES
SLEEVES | NUTS | LOCKING DEVICES

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DESIGN | CHARACTERISTICS | APPLICATIONS

Adapter sleeves are used to locate tapered bore bearings on cylindrical shafts. This allows less accurate machining of the shafts and ease of location.

Adapter sleeves are available in metric or inch bore sizes - the external taper is 1 : 12.



Adapter sleeve



Withdrawal sleeve



Locking device



Locking nut

ISO SPECIFICATIONS

- Sleeve dimensions in accordance with ISO 2982-1
- Nuts and washers dimensions in accordance with ISO 2982-2

NOMENCLATURE

Prefixes:

- H : Adapter sleeve for Metric shaft
- HA - HE : Adapter sleeve for inch size shaft
- AH : Withdrawal sleeve
- AHX : Withdrawal sleeve with modified thread diameter
- KM : Nut, included in H ($d \leq 220$ mm)
- MB : Locking device
- HM : Nut designed for locking clip
- MS : Locking clip ($d > 220$ mm)
- HMV...E : Hydraulic dismounting nut

Suffixes:

- OH : Hydraulic sleeve
- G : Modified thread
- 2P : Split sleeve

TOLERANCES

PERMISSIBLE GEOMETRICAL INACCURACY FOR SLEEVES

	Permissible geometrical inaccuracy (out-of-roundness taper)	Maximum inclination in degrees
Adapter sleeves and withdrawal sleeves	IT 5/2	h7
	IT 5/2	h8
	IT 6/2	h9

SHAFT TOLERANCES FOR ADAPTER SLEEVES AND WITHDRAWAL SLEEVES

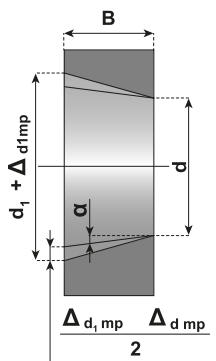
d		h7		IT 5/2	h8		IT 5/2	h9		IT 6/2
mm										
over	up to	min.	max.	max.	min.	max.	max.	min.	max.	max.
0	0	0	0	0	0	0	0	0	0	0
6	10	0	-15	3	0	-22	3	0	-36	4.5
10	18	0	-18	4	0	-27	4	0	-43	5.5
18	30	0	-21	4.5	0	-39	4.5	0	-52	6.5
30	50	0	-25	5.5	0	-39	5.5	0	-62	8
50	80	0	-30	6.5	0	-46	6.5	0	-74	9.5
80	120	0	-35	7.5	0	-54	7.5	0	-87	11
120	180	0	-40	9	0	-63	9	0	-100	12.5
180	250	0	-46	10	0	-72	10	0	-115	14.5
250	315	0	-52	11.5	0	-81	11.5	0	-130	16
315	400	0	-57	12.5	0	-89	12.5	0	-140	18
400	500	0	-63	13.5	0	-97	13.5	0	-155	20

Note: IT basic tolerances indicate accepted from circularity and cylindricity.

TOLERANCES FOR TAPERED BORES – TAPER 1:12

NOMINAL DIMENSIONS

d		h7		IT 5/2	h8		IT 5/2	h9		IT 6/2
mm										
over	up to	min.	max.	max.	min.	max.	max.	min.	max.	max.
0	0	0	0	0	0	0	0	0	0	0
6	10	0	-15	3	0	-22	3	0	-36	4.5
10	18	0	-18	4	0	-27	4	0	-43	5.5
18	30	0	-21	4.5	0	-39	4.5	0	-52	6.5
30	50	0	-25	5.5	0	-39	5.5	0	-62	8
50	80	0	-30	6.5	0	-46	6.5	0	-74	9.5
80	120	0	-35	7.5	0	-54	7.5	0	-87	11
120	180	0	-40	9	0	-63	9	0	-100	12.5
180	250	0	-46	10	0	-72	10	0	-115	14.5
250	315	0	-52	11.5	0	-81	11.5	0	-130	16
315	400	0	-57	12.5	0	-89	12.5	0	-140	18
400	500	0	-63	13.5	0	-97	13.5	0	-155	20



$\alpha = 2^{\circ}23'9,4'' = 2.38594^{\circ}$
 $= 0.041643 \text{ rad half the}$
 angle of taper

PRECISION CLASS P0

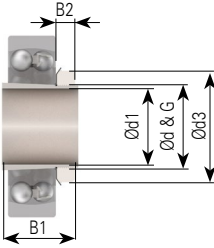
Tolerances in μm

d mm		$\Delta d_{mp}^{1)}$		$\Delta d_{1mp} - \Delta d_{mp}^{2)}$		$\sqrt{dp}^{3)}$
over	to	upper	lower	upper	lower	max.
-	10	+15	0	+15	0	10
10	18	+18	0	+18	0	10
18	30	+21	0	+21	0	13
30	50	+25	0	+25	0	15
50	80	+30	0	+30	0	19
80	120	+35	0	+35	0	25
120	180	+40	0	+40	0	31
180	250	+46	0	+46	0	38
250	315	+52	0	+52	0	44
315	400	+57	0	+57	0	50
400	500	+63	0	+63	0	56

1) Single plane mean bore diameter deviation at smallest theoretical opening

2) Mean diameter deviation of large diameter less mean diameter deviation from small diameter

3) Bore diameter variation in a single radial plane

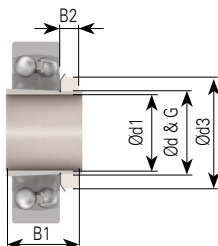


Taper 1:12

Part number	Principal dimensions						Weight	Accessories included	
	d1	d	d3	B1	B2	G		Locking Nut	Locking Device
	mm						Kg	Part number	Part number
H 204	17	20	32	24	7	M 20x1	0,04	KM 4	MB 4
H 2304	17	20	32	31	7	M 20x1	0,05	KM 4	MB 4
H 304	17	20	32	28	7	M 20x1	0,04	KM 4	MB 4
H 205	20	25	38	26	8	M 25x1,5	0,07	KM 5	MB 5
H 2305	20	25	38	35	8	M 25x1,5	0,09	KM 5	MB 5
H 305	20	25	38	29	8	M 25x1,5	0,07	KM 5	MB 5
H 206	25	30	45	27	8	M 30x1,5	0,01	KM 6	MB 6
H 2306	25	30	45	38	8	M 30x1,5	0,13	KM 6	MB 6
H 306	25	30	45	31	8	M 30x1,5	0,11	KM 6	MB 6
H 207	30	35	52	29	9	M 35x1,5	0,12	KM 7	MB 7
H 2307	30	35	52	43	9	M 35x1,5	0,16	KM 7	MB 7
H 307	30	35	52	35	9	M 35x1,5	0,14	KM 7	MB 7
HE 308	31,75	40	58	36	10	M 40x1,5	0,22	KM 8	MB 8
H 208	35	40	58	31	10	M 40x1,5	0,17	KM 8	MB 8
H 2308	35	40	58	46	10	M 40x1,5	0,22	KM 8	MB 8
H 308	35	40	58	36	10	M 40x1,5	0,19	KM 8	MB 8
H 209	40	45	65	33	11	M 45x1,5	0,23	KM 9	MB 9
H 2309	40	45	65	50	11	M 45x1,5	0,28	KM 9	MB 9
H 309	40	45	65	39	11	M 45x1,5	0,25	KM 9	MB 9
H 210	45	50	70	35	12	M 50x1,5	0,27	KM 10	MB 10
H 2310	45	50	70	55	12	M 50x1,5	0,36	KM 10	MB 10
H 310	45	50	70	42	12	M 50x1,5	0,30	KM 10	MB 10
H 211	50	55	75	37	12,5	M 55x2	0,31	KM 11	MB 11
H 2311	50	55	75	59	12,5	M 55x2	0,42	KM 11	MB 11
H 311	50	55	75	45	12,5	M 55x2	0,34	KM 11	MB 11
H 212	55	60	80	38	13	M 60x2	0,35	KM 12	MB 12
H 2312	55	60	80	62	13	M 60x2	0,48	KM 12	MB 12
H 312	55	60	80	47	13	M 60x2	0,39	KM 12	MB 12
H 213	60	65	85	40	14	M 65x2	0,40	KM 13	MB 13
H 2313	60	65	85	65	14	M 65x2	0,56	KM 13	MB 13
H 313	60	65	85	50	14	M 65x2	0,46	KM 13	MB 13
H 214	60	70	92	41	14	M 70x2	0,59	KM 14	MB 14
H 2314	60	70	92	68	14	M 70x2	0,90	KM 14	MB 14
H 314	60	70	92	52	14	M 70x2	0,72	KM 14	MB 14
H 215	65	75	98	43	15	M 75x2	0,71	KM 15	MB 15

Accessories

DATA TABLE - ADAPTER SLEEVE



Part number	Principal dimensions						Weight	Accessories included	
	d1	d	d3	B1	B2	G		Locking Nut	Locking Device
	mm						Kg	Part number	Part number
H 2315	65	75	98	73	15	M 75x2	1,05	KM 15	MB 15
H 315	65	75	98	55	15	M 75x2	0,83	KM 15	MB 15
H 216	70	80	105	46	17	M 80x2	0,88	KM 16	MB 16
H 2316	70	80	105	78	17	M 80x2	1,28	KM 16	MB 16
H 316	70	80	105	59	17	M 80x2	1,03	KM 16	MB 16
H 217	75	85	110	50	18	M 85x2	1,02	KM 17	MB 17
H 2317	75	85	110	82	18	M 85x2	1,45	KM 17	MB 17
H 317	75	85	110	63	18	M 85x2	1,18	KM 17	MB 17
H 218	80	90	120	52	18	M 90x2	1,19	KM 18	MB 18
H 2318	80	90	120	86	18	M 90x2	1,69	KM 18	MB 18
H 318	80	90	120	65	18	M 90x2	1,37	KM 18	MB 18
H 219	85	95	125	55	19	M 95x2	1,37	KM 19	MB 19
H 2319	85	95	125	90	19	M 95x2	1,92	KM 19	MB 19
H 319	85	95	125	68	19	M 95x2	1,56	KM 19	MB 19
H 220	90	100	130	58	20	M 100x2	1,49	KM 20	MB 20
H 2320	90	100	130	97	20	M 100x2	2,15	KM 20	MB 20
H 3120	90	100	130	76	20	M 100x2	1,80	KM 20	MB 20
H 320	90	100	130	71	20	M 100x2	1,69	KM 20	MB 20
H 221	95	105	140	60	20	M 105x2	1,72	KM 21	MB 21
H 321	95	105	140	74	20	M 105x2	1,95	KM 21	MB 21
H 222	100	110	145	63	21	M 110x2	1,93	KM 22	MB 22
H 2322	100	110	145	105	21	M 110x2	2,74	KM 22	MB 22
H 3122	100	110	145	81	21	M 110x2	2,25	KM 22	MB 22
H 322	100	110	145	77	21	M 110x2	2,18	KM 22	MB 22
H 3024	110	120	145	72	22	M 120x2	1,93	KML 24	MBL 24
H 2324	110	120	155	112	22	M 120x2	3,19	KM 24	MB 24
H 3124	110	120	155	88	22	M 120x2	2,64	KM 24	MB 24
H 3026	115	130	155	80	23	M 130x2	2,85	KML 26	MBL 26
H 2326	115	130	165	121	23	M 130x2	4,60	KM 26	MB 26
H 3126	115	130	165	92	23	M 130x2	3,66	KM 26	MB 26
H 3028	125	140	165	82	24	M 140x2	3,16	KML 28	MBL 28
H 2328	125	140	180	131	24	M 140x2	5,55	KM 28	MB 28
H 3128	125	140	180	97	24	M 140x2	4,34	KM 28	MB 28
H 3030	135	150	180	87	26	M 150x2	3,89	KML 30	MBL 30
H 2330	135	150	195	139	26	M 150x2	6,63	KM 30	MB 30

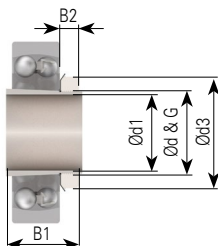


Taper 1:12

Part number	Principal dimensions						Weight	Accessories included	
	d1	d	d3	B1	B2	G		Locking Nut	Locking Device
	mm						Kg	Part number	Part number
H 3130	135	150	195	111	26	M 150x2	5,52	KM 30	MB 30
H 3032	140	160	190	93	27,5	M 160x3	5,21	KML 32	MBL 32
H 2332	140	160	210	147	28	M 160x3	9,14	KM 32	MB 32
H 3132	140	160	210	119	28	M 160x3	7,67	KM 32	MB 32
H 3034	150	170	200	101	28,5	M 170x3	5,99	KML 34	MBL 34
H 2334	150	170	220	154	29	M 170x3	10,20	KM 34	MB 34
H 3134	150	170	220	122	29	M 170x3	8,38	KM 34	MB 34
H 3036	160	180	210	109	29,5	M 180x3	6,83	KML 36	MBL 36
H 3036 OH	160	180	210	109	29,5	M 180x3	6,70	KML 36	MBL 36
H 3936	160	180	210	87	29,5	M 180x3	5,70	KML 36	MBL 36
H 2336	160	180	230	161	30	M 180x3	11,30	KM 36	MB 36
H 2336 OH	160	180	230	161	30	M 180x3	11	KM 36	MB 36
H 3136	160	180	230	131	30	M 180x3	9,50	KM 36	MB 36
H 3136 OH	160	180	230	131	30	M 180X3	9,15	KM 36	MB 36
H 3038	170	190	220	112	30,5	M 190x3	7,45	KML 38	MBL 38
H 3038 OH	170	190	220	112	30,5	M 190x3	7,25	KM 38	MBL 38
H 3938	170	190	220	89	30,5	M 190x3	6,19	KML 38	MBL 38
H 2338	170	190	240	169	31	M 190x3	12,60	KM 38	MB 38
H 2338 OH	170	190	240	169	31	M 190x3	12	KM 38	MB 38
H 3138	170	190	240	141	31	M 190x3	10,80	KM 38	MB 38
H 3138 OH	170	190	240	141	31	M 190X3	10,50	KM 38	MB 38
H 3040	180	200	240	120	31,5	M 200x3	9,19	KML 40	MBL 40
H 3040 OH	180	200	240	120	31,5	M 200x3	8,90	KML 40	MBL 40
H 3940	180	200	240	98	31,5	M 200x3	7,89	KML 40	MBL 40
H 2340	180	200	250	176	32	M 200x3	13,90	KM 40	MB 40
H 2340 OH	180	200	250	176	32	M 200x3	13,50	KM 40	MB 40
H 3140	180	200	250	150	32	M 200x3	12,10	KM 40	MB 40
H 3140 OH	180	200	250	150	32	M 200X3	12	KM 40	MB 40
H 3044	200	220	260	126	30	Tr 220x4	10,30	HM 3044	MS 3044
H 3044 OH	200	220	260	126	30	Tr 220x4	9,90	HM 3044	MS 3044
H 3944	200	220	260	96	30	Tr 220x4	8,16	HM 3044	MS 3044
H 2344	200	220	280	186	35	Tr 220x4	17	HM 44T	MB 44
H 2344 OH	200	220	280	186	35	Tr 220x4	17	HM 44T	MB 44
H 3144	200	220	280	161	35	Tr 220x4	15	HM 44T	MB 44
H 3144 OH	200	220	280	161	35	Tr 200x3	15	HM 44T	MB 44

Accessories

DATA TABLE - ADAPTER SLEEVE



Part number	Principal dimensions						Weight	Accessories included	
	d1	d	d3	B1	B2	G		Locking Nut	Locking Device
	mm						Kg	Part number	Part number
H 3048	220	240	290	133	34	Tr 240x4	13,2	HM 3048	MS 3048
H 3048 OH	220	240	290	133	34	Tr 240x4	12	HM 3048	MS 3052-48
H 3948	220	240	290	101	34	Tr 240x4	11	HM 3048	MS 3048
H 2348	220	240	300	199	37	Tr 240x4	20	HM 48T	MB 48
H 2348 OH	220	240	300	199	37	Tr 240x4	19	HM 48T	MB 48
H 3148	220	240	300	172	37	Tr 240x4	17,6	HM 48T	MB 48
H 3148 OH	220	240	300	172	37	Tr 240x4	16,5	HM 48T	MB 48
H 3052	240	260	310	145	34	Tr 260x4	15,3	HM 3052	MS 3052
H 3052 OH	240	260	310	145	34	Tr 260x4	13,5	HM 3052	MS 3052-48
H 3952	240	260	310	116	34	Tr 260x4	12,8	HM 3052	MS 3052
H 2352	240	260	330	211	39	Tr 260x4	24,5	HM 52T	MB 52
H 2352 OH	240	260	330	211	39	Tr 260x4	23	HM 52T	MB 52
H 3152	240	260	330	190	39	Tr 260x4	22,3	HM 52T	MB 52
H 3152 OH	240	260	330	190	39	Tr 260x4	21	HM 52T	MB 52
H 3056	260	280	330	152	38	Tr 280x4	17,7	HM 3056	MS 3056
H 3056 OH	260	280	330	152	38	Tr 280x4	16	HM 3056	MS 3056
H 3156 OH	260	280	330	195	41	Tr 280x4	19,3	HM 3056	MS 3056
H 3956	260	280	330	121	38	Tr 280x4	15,3	HM 3056	MS 3056
H 2356	260	280	350	224	41	Tr 280x4	28,4	HM 56T	MB 56
H 2356 OH	260	280	350	224	41	Tr 280x4	27	HM 56T	MB 56
H 3156	260	280	350	195	41	Tr 280x4	25,1	HM 56T	MB 56
H 3060	280	300	360	168	42	Tr 300x4	22,8	HM 3060	MS 3060
H 3060 OH	280	300	360	168	42	Tr 300x4	20,5	HM 3060	MS 3060
H 3960	280	300	360	140	42	Tr 300x4	20	HM 3060	MS 3060
H 3160	280	300	380	208	40	Tr 300x4	30,2	HM 3160	MS 3160
H 3160 OH	280	300	380	208	40	Tr 300x4	29	HM 3160	MS 3160
H 3260	280	300	380	240	40	Tr 300x4	34,1	HM 3160	MS 3160
H 3260 OH	280	300	380	240	40	Tr 300x4	32	HM 3160	MS 3160
H 3064	300	320	380	171	42	Tr 320x5	24,6	HM 3064	MS 3064
H 3064 OH	300	320	380	171	42	Tr 320x5	22	HM 3064	MS 3068-64
H 3964	300	320	380	140	42	Tr 320x5	21,5	HM 3064	MS 3064
H 3164	300	320	400	226	42	Tr 320x5	34,9	HM 3164	MS 3164
H 3164 OH	300	320	400	226	42	Tr 320x5	32	HM 3164	MS 3164
H 3264	300	320	400	258	42	Tr 320x5	39,3	HM 3164	MS 3164
H 3264 OH	300	320	400	258	42	Tr 320x5	35	HM 3164	MS 3164

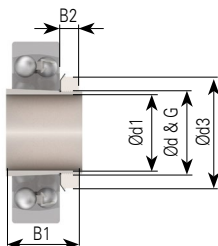


Taper 1:12

Part number	Principal dimensions						Weight	Accessories included	
	d1	d	d3	B1	B2	G		Locking Nut	Locking Device
	mm						Kg	Part number	Part number
H 3068	320	340	400	187	45	Tr 340x5	28,7	HM 3068	MS 3068
H 3068 OH	320	340	400	187	45	Tr 340x5	27	HM 3068	MS 3068-64
H 3968	320	340	400	144	45	Tr 340x5	24,5	HM 3068	MS 3068
H 3168	320	340	440	254	55	Tr 340x5	50	HM 3168	MS 3168
H 3168 OH	320	340	440	254	55	Tr 340x5	50	HM 3168	MS 3172-68
H 3268	320	340	440	288	55	Tr 340x5	54,6	HM 3168	MS 3168
H 3268 OH	320	340	440	288	55	Tr 340x5	51,5	HM 3168	MS 3172-68
H 3072	340	360	420	188	45	Tr 360x5	30,5	HM 3072	MS 3072
H 3072 OH	340	360	420	188	45	Tr 360x5	29	HM 3072	MS 3072
H 3972	340	360	420	144	45	Tr 360x5	25,2	HM 3072	MS 3072
H 3172	340	360	460	259	58	Tr 360x5	56	HM 3172	MS 3172
H 3172 OH	340	360	460	259	58	Tr 360x5	56	HM 3172	MS 3172-68
H 3272	340	360	460	299	58	Tr 360x5	60,6	HM 3172	MS 3172
H 3272 OH	340	360	460	299	58	Tr 360x5	60,5	HM 3172	MS 3172-68
H 3076	360	380	450	193	48	Tr 380x5	35,8	HM 3076	MS 3076
H 3076 OH	360	380	450	193	48	Tr 380x5	35,5	HM 3076	MS 3080-76
H 3976	360	380	450	164	48	Tr 380x5	31,5	HM 3076	MS 3076
H 3176	360	380	490	264	60	Tr 380x5	61,7	HM 3176	MS 3176
H 3176 OH	360	380	490	264	60	Tr 380x5	61,5	HM 3176	MS 3176
H 3276	360	380	490	310	60	Tr 380x5	69,6	HM 3176	MS 3176
H 3276 OH	360	380	490	310	60	Tr 380x5	69,5	HM 3176	MS 3176
H 3080	380	400	470	210	52	Tr 400x5	41,3	HM 3080	MS 3080
H 3080 OH	380	400	470	210	52	Tr 400x5	40	HM 3080	MS 3080-76
H 3980	380	400	470	168	52	Tr 400x5	35	HM 3080	MS 3080
H 3180	380	400	520	272	62	Tr 400x5	73	HM 3180	MS 3180
H 3180 OH	380	400	520	272	62	Tr 400x5	73	HM 3180	MS 3184-80
H 3280	380	400	520	328	62	Tr 400x5	81	HM 3180	MS 3180
H 3280 OH	380	400	520	328	62	Tr 400x5	87	HM 3180	MS 3184-80
H 3084	400	420	490	212	52	Tr 420x5	43,7	HM 3084	MS 3084
H 3084 OH	400	420	490	212	52	Tr 420x5	47	HM 3084	MS 3084
H 3984	400	420	490	168	52	Tr 420x5	36,6	HM 3084	MS 3084
H 3184	400	420	540	304	70	Tr 420x5	84,2	HM 3184	MS 3184
H 3184 OH	400	420	540	304	70	Tr 420x5	80	HM 3184	MS 3184-80
H 3284	400	420	540	352	70	Tr 420x5	96	HM 3184	MS 3184
H 3284 OH	400	420	540	352	70	Tr 420x5	96	HM 3184	MS 3184-80
H 3088	410	440	520	228	60	Tr 440x5	65,2	HM 3088	MS 3088

Accessories

DATA TABLE - ADAPTER SLEEVE



Taper 1:12

Part number	Principal dimensions						Weight	Accessories included	
	d1	d	d3	B1	B2	G		Locking Nut	Locking Device
	mm						Kg	Part number	Part number
H 3088 OH	410	440	520	228	60	Tr 440X5	65	HM 3088	MS 3092-88
H 3988	410	440	520	189	60	Tr 440x5	58	HM 3088	MS 3088
H 3188	410	440	560	307	70	Tr 440X5	104	HM 3188	MS 3188
H 3188 OH	410	440	560	307	70	Tr 440X5	95	HM 3188	MS 3192-88
H 3288	410	440	560	361	70	Tr 440X5	118	HM 3188	MS 3188
H 3288 OH	410	440	560	361	70	Tr 440X5	117	HM 3188	MS 3192-88
H 3092	430	460	540	234	60	Tr 460X5	71	HM 3092	MS 3092
H 3092 OH	430	460	540	234	60	Tr 460x5	71	HM 3092	MS 3092-88
H 3992	430	460	540	189	60	Tr 460x5	60	HM 3092	MS 3092
H 3192	430	460	580	326	75	Tr 460X5	116	HM 3192	MS 3192
H 3192 OH	430	460	580	326	75	Tr 460X5	119	HM 3192	MS 3192-88
H 3292	430	460	580	382	75	Tr 460X5	134	HM 3192	MS 3192
H 3292 OH	430	460	580	382	75	Tr 460X5	134	HM 3192	MS 3192-88
H 3096	450	480	560	237	60	Tr 480X5	75	HM 3096	MS 30/96
H 3096 OH	450	480	560	237	60	Tr 480X5	75	HM 3096	MS 30/500-96
H 3996	450	480	560	200	60	Tr 480x5	66	HM 3096	MS 30/96
H 3196	450	480	620	335	75	Tr 480X5	135	HM 3196	MS 3196
H 3196 OH	450	480	620	335	75	Tr 480X5	135	HM 3196	MS 3196
H 3296	450	480	620	397	75	Tr 480X5	153	HM 3196	MS 3196
H 3296 OH	450	480	620	397	75	Tr 480X5	153	HM 3196	MS 3196
H 30/500	470	500	580	247	68	Tr 500x5	82	HM 30/500	MS 30/500
H 30/500 OH	470	500	580	247	68	Tr 500x5	82	HM 30/500	MS 30/500-96
H 39/500	470	500	580	208	68	Tr 500x5	74,3	HM 30/500	MS 30/500
H 31/500	470	500	630	356	80	Tr 500x5	145	HM 31/500	MS 31/500
H 31/500 OH	470	500	630	356	80	Tr 500x5	145	HM 31/500	MS 31/500
H 32/500	470	500	630	428	80	Tr 500x5	166	HM 31/500	MS 31/500
H 32/500 OH	470	500	630	428	80	Tr 500x5	170	HM 31/500	MS 31/500
H 30/530	500	530	630	265	68	Tr 530x6	105	HM 30/530	MS 30/530
H 30/530 OH	500	530	630	265	68	Tr 530x6	105	HM 30/530	MS 30/600-530
H 39/530	500	530	630	216	68	Tr 530x6	87,9	HM 30/530	MS 30/530
H 39/530 OH	500	530	630	216	68	Tr 530x6	87,9	HM 30/530	MS 30/600-530
H 31/530	500	530	670	364	80	Tr 530x6	161	HM 31/530	MS 31/530
H 32/530	500	530	670	447	80	Tr 530x6	192	HM 31/530	MS 31/530
H 30/560	530	560	650	282	75	Tr 560x6	112	HM 30/560	MS 30/560
H 30/560 OH	530	560	650	282	75	Tr 560x6	112	HM 30/560	MS 30/560
H 39/560	530	560	650	227	75	Tr 560x6	95	HM 30/560	MS 30/560

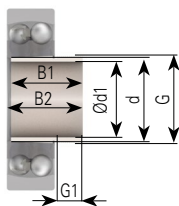


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Part number	Principal dimensions						Weight	Accessories included	
	d1	d	d3	B1	B2	G		Locking Nut	Locking Device
	mm						Kg	Part number	Part number
H 39/560 OH	530	560	650	227	75	Tr 560x6	95	HM 30/560	MS 30/560
H 31/560	530	560	710	377	85	Tr 560x6	185	HM 31/560	MS 31/560
H 32/560	530	560	710	462	85	Tr 560x6	219	HM 31/560	MS 31/560
H 30/600	560	600	700	289	75	Tr 600x6	147	HM 30/600	MS 30/600
H 30/600 OH	560	600	700	289	75	Tr 600x6	147	HM 30/600	MS 30/600-530
H 39/600	560	600	700	239	75	Tr 600x6	127	HM 30/600	MS 30/600
H 39/600 OH	560	600	700	239	75	Tr 600x6	127	HM 30/600	MS 30/600-530
H 31/600	560	600	750	399	85	Tr 600x6	234	HM 31/600	MS 31/600
H 32/600	560	600	750	487	85	Tr 600x6	278	HM 31/600	MS 31/600
H 30/630	600	630	730	301	75	Tr 630x6	138	HM 30/630	MS 30/630
H 30/630 OH	600	630	730	301	75	Tr 630x6	138	HM 30/630	MS 30/630
H 39/630	600	630	730	254	75	Tr 630x6	120	HM 30/630	MS 30/630
H 39/630 OH	600	630	730	254	75	Tr 630x6	124	HM 30/630	MS 30/630
H 31/630	600	630	800	424	95	Tr 630x6	254	HM 31/630	MS 31/630
H 32/630	600	630	800	521	95	Tr 630x6	300	HM 31/630	MS 31/630
H 30/670	630	670	780	324	80	Tr 670x6	191	HM 30/670	MS 30/670
H 30/670 OH	630	670	780	324	80	Tr 670x6	190	HM 30/670	MS 30/670
H 39/670	630	670	780	264	80	Tr 670x6	163	HM 30/670	MS 30/670
H 39/670 OH	630	670	780	264	80	Tr 670x6	162	HM 30/670	MS 30/670
H 31/670	630	670	850	456	106	Tr 670x6	340	HM 31/670	MS 31/670
H 32/670	630	670	850	558	106	Tr 670x6	401	HM 31/670	MS 31/670
H 30/710	670	710	830	342	90	Tr 710x7	223	HM 30/710	MS 30/710
H 30/710 OH	670	710	830	342	90	Tr 710x7	228	HM 30/710	MS 30/710
H 39/710	670	710	830	286	90	Tr 710x7	196	HM 30/710	MS 30/710
H 39/710 OH	670	710	830	286	90	Tr 710x7	183	HM 30/710	MS 30/710
H 31/710	670	710	900	467	106	Tr 710x7	378	HM 31/710	MS 31/710
H 32/710	670	710	900	572	106	Tr 710x7	444	HM 31/710	MS 31/710
H 30/750	710	750	870	356	90	Tr 750x7	246	HM 30/750	MS 30/750
H 39/750	710	750	870	291	90	Tr 750x7	211	HM 30/750	MS 30/750
H 31/750	710	750	950	493	112	Tr 750x7	451	HM 31/750	MS 31/750
H 32/750	710	750	950	603	112	Tr 750x7	507	HM 31/750	MS 31/750
H 30/800	750	800	920	366	90	Tr 800x7	300	HM 30/800	MS 30/800
H 39/800	750	800	920	303	90	Tr 800x7	259	HM 30/800	MS 30/800
H 31/800	750	800	1000	505	112	Tr 800x7	515	HM 31/800	MS 31/800
H 32/800	750	800	1000	618	112	Tr 800x7	610	HM 31/800	MS 31/800
H 30/900 OH	850	900	1030	400	100	Tr 900x7	387	HM 30/900	MS 30/900-850

Accessories

DATA TABLE - WITHDRAWAL SLEEVE



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Part number	Principal dimensions						Weight	Accessories included	
	d1	d	B1	B2	G	G1		Dismounting Nut	Hydraulic Nut
	mm						Kg	Part number	Part number
AH 308	35	40	29	32	M 45x1,5	6	0,09	KM 9	HMV 9E
AH 2308	35	40	40	43	M 45x1,5	7	0,13	KM 9	HMV 9E
AH 309	40	45	31	34	M 50x1,5	6	0,11	KM 10	HMV 10E
AH 2309	40	45	44	47	M 50x1,5	7	0,16	KM 10	HMV 10E
AH 310	45	50	35	38	M 60x20	7	0,16	KM 12	HMV 12E
AH 2310	45	50	50	53	M 60x2	8	0,24	KM 12	HMV 12E
AH 311	50	55	37	40	M 65x2	7	0,19	KM 13	HMV 13E
AH 2311	50	55	54	57	M 65x2	9	0,29	KM 13	HMV 13E
AH 312	55	60	40	43	M 70x2	8	0,22	KM 14	HMV 14E
AH 2312	55	60	57	60	M 70x2	10	0,34	KM 14	HMV 14E
AH 313	60	65	42	45	M 75x2	8	0,25	KM 15	HMV 15E
AH 2313	60	65	61	64	M 75x2	12	0,40	KM 15	HMV 15E
AH 314	65	70	43	47	M 80x2	8	0,28	KM 16	HMV 16E
AH 2314	65	70	65	69	M 85x2	10	0,53	KM 17	HMV 17E
AH 315	70	75	45	49	M 85x2	8	0,31	KM 17	HMV 17E
AH 2315	70	75	69	53	M 90x2	12	0,61	KM 18	HMV 18E
AH 316	75	80	48	52	M 90x2	8	0,37	KM 18	HMV 18E
AH 2316	75	80	72	76	M 95x2	12	0,67	KM 19	HMV 19E
AH 317	80	85	52	56	M 100x2	9	0,48	KM 20	HMV 20E
AH 2317	80	85	75	79	M 100x2	13	0,75	KM 20	HMV 20E
AH 318	85	90	53	57	M 105x2	9	0,52	KM 21	HMV 21E
AH 2318	85	90	80	84	M 105x2	14	0,85	KM 21	HMV 21E
AH 319	90	95	57	61	M 110x2	10	0,59	KM 22	HMV 22E
AH 2319	90	95	85	89	M 110x2	15	0,98	KM 22	HMV 22E
AH 320	95	100	59	63	M 115x2	10	0,66	KM 23	HMV 23E
AH 2320	95	100	90	94	M 120x2	15	1,23	KM 24	HMV 24E
AH 322	100	110	63	67	M 130x2	12	1,26	KM 26	HMV 26E
AH 3122	100	110	68	72	M 125x2	11	1,28	KM 25	HMV 25E
AH 2322	100	110	98	102	M 130x2	16	2,11	KM 26	HMV 26E
AH 24122	105	110	82	91	M 115x2	13	0,71	KM 23	HMV 23E
AH 3024	110	120	60	64	M 130x2	13	1,15	KM 26	HMV 26E
AH 3124	110	120	75	79	M 140x2	12	1,67	KM 28	HMV 28E
AH 2324	110	120	105	109	M 140x2	17	2,47	KM 28	HMV 28E
AH 24024	115	120	73	82	M 125x2	13	0,70	KM 25	HMV 25E
AH 24124	115	120	93	102	M 130x2	13	1	KM 26	HMV 26E

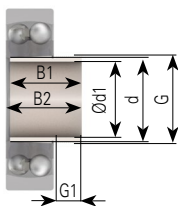


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Part number	Principal dimensions						Weight	Accessories included	
	d1	d	B1	B2	G	G1		Dismounting Nut	Hydraulic Nut
	mm						Kg	Part number	Part number
AH 3026	120	130	67	71	M 140x2	14	1,41	KM 28	HMV 28E
AH 3126	120	130	78	82	M 150x2	12	1,87	KM 30	HMV 30E
AH 2326	120	130	115	119	M 150x2	19	3,02	KM 30	HMV 30E
AH 24026	125	130	83	93	M 135x2	14	0,88	KM 27	HMV 27E
AH 24126	125	130	94	104	M 140x2	14	1,15	KM 28	HMV 28E
AH 3028	130	140	68	73	M 150x2	14	1,55	KM 30	HMV 30E
AH 3128	130	140	83	88	M 160x3	14	2,21	KM 32	HMV 32E
AH 2328	130	140	125	130	M 160x3	20	3,60	KM 32	HMV 32E
AH 24028	135	140	83	93	M 145x2	14	0,95	KM 29	HMV 29E
AH 24128	135	140	99	109	M 150x2	14	1,30	KM 30	HMV 30E
AH 3030	140	150	72	5	M 160x3	15	1,76	KM 32	HMV 32E
AH 3130	140	150	96	101	M 170x3	15	2,70	KM 34	HMV 34E
AH 2330	140	150	135	140	M 170x3	24	4,22	KM 34	HMV 34E
AH 24030	145	150	90	101	M 155x3	15	1,05	KM 31	HMV 31E
AH 24130	145	150	115	126	M 160x3	15	1,55	KM 32	HMV 32E
AH 3032	150	160	77	82	M 170x3	16	2,06	KM 34	HMV 34E
AH 24032	150	160	95	106	M 170x3	15	2,30	KM 34	HMV 34E
AH 3132	150	160	103	108	M 180x3	16	3,21	KM 36	HMV 36E
AH 24132	150	160	124	135	M 170x3	15	3	KM 34	HMV 34E
AH 3232	150	160	124	130	M 180x3	20	4,08	KM 36	HMV 36E
AH 2332	150	160	140	146	M 180x3	24	4,72	KM 36	HMV 36E
AH 3034	160	170	85	90	M 180x3	17	2,43	KM 36	HMV 36E
AH 3134	160	170	104	109	M 190x3	16	3,40	KM 38	HMV 38E
AH 24034	160	170	106	117	M 180x3	16	2,70	KM 36	HMV 36E
AH 24134	160	170	125	136	M 180x3	16	3,25	KM 36	HMV 36E
AH 3234	160	170	134	140	M 190x3	24	4,80	KM 38	HMV 38E
AH 2334	160	170	146	152	M 190x3	24	5,25	KM 38	HMV 38E
AH 3136	160	180	116	122	M 200x3	19	4,22	KM 40	HMV 40E
AH 3036	170	180	92	98	M 190x3	17	2,81	KM 38	HMV 38E
AH 3036 OH	170	180	92	98	M 190x3	17	2,80	KM 38	HMV 38E
AH 2236	170	180	105	110	M 200x3	17	3,73	KM 40	HMV 40E
AH 24036	170	180	116	127	M 190x3	16	3,20	KM 38	HMV 38E
AH 3136 OH	170	180	116	122	M 200x3	19	3,90	KM 38	HMV 38E
AH 24136	170	180	134	145	M 190x3	16	3,75	KM 38	HMV 38E
AH 3236	170	180	140	146	M 200x3	24	5,32	KM 40	HMV 40E

Accessories

DATA TABLE - WITHDRAWAL SLEEVE



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Part number	Principal dimensions						Weight	Accessories included	
	d1	d	B1	B2	G	G1		Dismounting Nut	Hydraulic Nut
	mm						Kg	Part number	Part number
AH 3236 OH	170	180	140	146	M 200x3	24	4,85	KM 38	HMV 38E
AH 2336	170	180	154	160	M 200x3	26	5,83	KM 40	HMV 40E
AH 2336 OH	170	180	154	160	M 200x3	26	6,05	KM 40	HMV 40E
AH 3038	180	190	96	102	Tr 205x4	18	3,32	HML 41T	HMV 41E
AH 3038 OH	180	190	96	102	Tr 205x4	18	3,30	HML 41T	HMV 40E
AH 2238	180	190	112	117	Tr 210x4	18	4,25	HM 42T	HMV 42E
AH 24038	180	190	118	131	M 200x3	18	3,55	KM 40	HMV 40E
AH 3138	180	190	125	131	Tr 210x4	20	4,89	HM 42T	HMV 42E
AH 3138 OH	180	190	125	131	Tr 210x4	20	4,50	HM 42T	HMV 40E
AH 3238	180	190	145	152	Tr 210x4	25	5,90	HM 42T	HMV 42E
AH 3238 OH	180	190	145	152	Tr 210x4	25	5,90	HM 42T	HMV 40E
AH 24138	180	190	146	159	M 200x3	18	4,45	KM 40	HMV 40E
AH 2338	180	190	160	167	Tr 210x4	26	6,63	HM 42T	HMV 42E
AH 2338 OH	180	190	160	167	Tr 210x4	26	6,70	HM 42T	HMV 42E
AH 3940	190	200	77	83	Tr 210x4	16	2,62	HM 42T	HMV 40E
AH 3040	190	200	102	108	Tr 215x4	19	3,80	HM L43T	HMV 43E
AH 3040 OH	190	200	102	108	Tr 215x4	19	3,70	HM 42T	HMV 42E
AH 2240	190	200	118	123	Tr 220x4	19	4,68	HM 44T	HMV 44E
AH 24040	190	200	127	140	Tr 210x4	18	4	HM 42T	HMV 42E
AH 3140	190	200	134	140	Tr 220x4	21	5,49	HM 44T	HMV 44E
AH 3140 OH	190	200	134	140	Tr 220x4	21	5,65	HM 3044	HMV 44E
AH 3240	190	200	153	160	Tr 220x4	25	6,68	HM 44T	HMV 44E
AH 3240 OH	190	200	153	160	Tr 220x4	25	6,60	HM 3044	HMV 44E
AH 24140 OH	190	200	158	171	Tr 210x4	18	5,05	HM 42T	HMV 42E
AH 2340	190	200	170	177	Tr 220x4	30	7,54	HM 44T	HMV 44E
AH 2340 OH	190	200	170	177	Tr 220x4	30	7,60	HM 44T	HMV 44E
AH 3044	200	220	111	117	Tr 235x4	20	7,40	HM L47T	HMV 47E
AH 3044 OH	200	220	111	117	Tr 235x4	20	7,30	HM 46T	HMV 46E
AH 2244	200	220	130	136	Tr 240x4	20	9,10	HM 48T	HMV 48E
AH 3144	200	220	145	151	Tr 240x4	23	10,40	HM 48T	HMV 48E
AH 3144 OH	200	220	145	151	Tr 240x4	23	9,30	HM 3048	HMV 48E
AH 24144 OH	200	220	170	184	Tr 230x4	20	10,50	HM 46T	HMV 46E
AH 2344	200	220	181	189	Tr 240x4	30	13,50	HM 48T	HMV 48E
AH 2344 OH	200	220	181	189	Tr 240x4	30	13,50	HM 48T	HMV 48E
AH 3048	220	240	116	123	Tr 260x4	21	8,75	HM 52T	HMV 52E

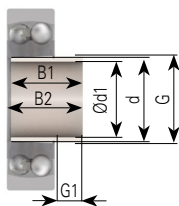


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Part number	Principal dimensions						Weight	Accessories included	
	d1	d	B1	B2	G	G1		Dismounting Nut	Hydraulic Nut
	mm						Kg	Part number	Part number
AH 3048 OH	220	240	116	123	Tr 260x4	21	7,95	HM 3052	HMV 52E
AH 2248	220	240	144	150	Tr 260x4	21	11,1	HM 52T	HMV 52E
AH 2248 OH	220	240	144	150	Tr 260x4	21	11,5	HM 3052	HMV 52E
AH 3148	220	240	154	161	Tr 260x4	25	12	HM 52T	HMV 52E
AH 3148 OH	220	240	154	161	Tr 260x4	25	12	HM 3052	HMV 52E
AH 2348	220	240	189	197	Tr 260x4	30	15,5	HM 52T	HMV 52E
AH 2348 OH	220	240	189	197	Tr 260x4	30	14	HM 52T	HMV 52E
AH 3052	240	260	128	135	Tr 280x4	23	10,7	HM 56T	HMV 56E
AH 3052 H	240	260	128	135	Tr 280x4	23	9,6	HM 3056	HMV 56E
AH 3052 OH	240	260	128	135	Tr 280x4	23	9,6	HM 3056	HMV 56E
AH 3952 G	240	260	155	100	Tr 280x4	18	7,7	HM 58T	HMV 58E
AH 2252	240	260	155	161	Tr 290x4	23	14,0	HM 58T	HMV 58E
AH 2252 OH	240	260	155	161	Tr 290x4	23	12,5	HM 58T	HMV 58E
AH 3152	240	260	172	179	Tr 290x4	26	16,2	HM 58T	HMV 58E
AH 3152 OH	240	260	172	179	Tr 290x4	26	15,5	HM 3056	HMV 56E
AH 2352	240	260	205	213	Tr 290x4	30	19,6	HM 58T	HMV 58E
AH 2352 OH	240	260	205	219	Tr 290x4	30	17,5	HM 58T	HMV 58E
AH 3056	260	280	131	139	Tr 300x4	24	12	HM 3060	HMV 60E
AH 3056 OH	260	280	131	139	Tr 300x4	24	11	HM 3060	HMV 60E
AH 2256	260	280	155	163	Tr 310x5	24	15,2	HM 62T	HMV 62E
AH 2256 OH	260	280	155	163	Tr 300x4	24	15	HM 3160	HMV 60E
AH 3156	260	280	175	183	Tr 310x5	28	17,5	HM 62T	HMV 62E
AH 3156 OH	260	280	175	183	Tr 310x5	28	17	HM 3160	HMV 60E
AH 24156 OH	260	280	202	219	Tr 300x4	22	16,3	HM 60T	HMV 60
AH 2356	260	280	212	220	Tr 310x5	30	17,1	HM 3160	HMV 60E
AH 2356 OH	260	280	212	220	Tr 310x5	30	19,5	HM 62T	HMV 62E
AH 3060	280	300	145	153	Tr 320x5	26	14,4	HM 3064	HMV 64E
AH 3060 OH	280	300	145	153	Tr 320x5	26	13	HM 3064	HMV 64E
AH 2260	280	300	170	178	Tr 330x5	26	18,1	HM 66T	HMV 66E
AH 2260 OH	280	300	170	178	Tr 330x5	26	18	HM 3164	HMV 64E
AH 3160	280	300	192	200	Tr 330x5	30	20,8	HM 66T	HMV 66E
AH 3160 OH	280	300	192	200	Tr 330x5	30	20,5	HM 3164	HMV 64E
AH 3260	280	300	228	236	Tr 330x5	34	26	HM 66T	HMV 66E
AH 3260 OH	280	300	228	236	Tr 330x5	34	23,5	HM 3164	HMV 64E
AH 3064	300	320	149	157	Tr 345x5	27	17	HM 3068	HMV 68E
AH 3064 OH	300	320	149	157	Tr 345x5	27	17	HM 3068	HMV 68E

Accessories

DATA TABLE - WITHDRAWAL SLEEVE



Taper 1:12

Part number	Principal dimensions						Weight	Accessories included	
	d1	d	B1	B2	G	G1		Dismounting Nut	Hydraulic Nut
	mm						Kg	Part number	Part number
AH 2264	300	320	180	190	Tr 350X5	27	20,2	HM 70T	HMV 70E
AH 2264 OH	300	320	180	190	Tr 350X5	27	20	HM 3168	HMV 68E
AH 3164	300	320	209	217	Tr 350X5	31	24,5	HM 70T	HMV 70E
AH 3164 OH	300	320	209	217	Tr 350X5	31	24,5	HM 3168	HMV 68E
AH 3264	300	320	246	254	Tr 350X5	36	30,6	HM 70T	HMV 70E
AH 3264 OH	300	320	246	254	Tr 350X5	36	27	HM 3168	HMV 68E
AH 3068	320	340	162	171	Tr 365X5	28	19	HM 3072	HMV 72E
AH 3068 OH	320	340	162	171	Tr 365X5	28	19	HM 3072	HMV 72E
AH 3168	320	340	225	234	Tr 370X5	33	29	HM 74T	HMV 74E
AH 3168 OH	320	340	225	234	Tr 370X5	33	28,5	HM 3172	HMV 72E
AH 3268	320	340	264	273	Tr 370X5	38	35,4	HM 74T	HMV 74E
AH 3268 OH	320	340	264	273	Tr 370X5	38	32	HM 3172	HMV 72E
AH 24168 OH	320	340	269	288	Tr 360x5	26	27,1	HM 72T	HMV 72
AH 3072	340	360	167	176	Tr 385X5	30	21	HM 3076	HMV 76E
AH 3072 OH	340	360	167	176	Tr 385X5	30	21	HM 3076	HMV 76E
AH 3172	340	360	229	238	Tr 400X5	33	30,5	HM 3180	HMV 80E
AH 3172 OH	340	360	229	238	Tr 400X5	35	30,5	HM 3176	HMV 76E
AH 24172 OH	340	360	269	289	Tr 380X5	26	30,8	HM 3176	HMV 76E
AH 3272	340	360	274	283	Tr 400X5	40	41,5	HM 3180	HMV 80E
AH 3272 OH	340	360	274	283	Tr 380X5	40	35,5	HM 3176	HMV 76E
AH 3076	360	380	170	180	Tr 410X5	31	22,5	HM 3080	HMV 80E
AH 3076 OH	360	380	170	180	Tr 410X5	31	22,5	HM 3080	HMV 80E
AH 3176	360	380	232	242	Tr 420X5	36	35,7	HM 3184	HMV 84E
AH 3176 OH	360	380	232	242	Tr 420X5	36	33	HM 3180	HMV 80E
AH 3276	360	380	284	294	Tr 420X5	42	45,6	HM 3184	HMV 84E
AH 3276 OH	360	380	284	294	Tr 420X5	42	42	HM 3180	HMV 80E
AH 3080	380	400	183	193	Tr 430X5	33	26	HM 3080	HMV 84E
AH 3080 OH	380	400	183	193	Tr 430X5	33	26	HM 3080	HMV 84E
AH 3180	380	400	240	250	Tr 440X5	38	39,5	HM 3188	HMV 88E
AH 3180 OH	380	400	240	250	Tr 440X5	38	36	HM 3184	HMV 84E
AH 3280	380	400	302	312	Tr 440X5	44	51,7	HM 3188	HMV 88E
AH 3280 OH	380	400	302	312	Tr 440X5	44	48	HM 3184	HMV 84E
AH 3084	400	420	186	196	Tr 450X5	34	28	HM 3088	HMV 88E
AH 3084 OH	400	420	186	196	Tr 450X5	34	28	HM 3088	HMV 88E
AH 3184	400	420	266	276	Tr 460X5	40	27,9	HM 3088	HMV 88E
AH 3184 OH	400	420	266	276	Tr 460X5	40	43	HM 3188	HMV 88E

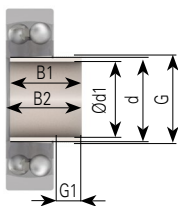


Taper 1:12

Part number	Principal dimensions						Weight	Accessories included	
	d1	d	B1	B2	G	G1		Dismounting Nut	Hydraulic Nut
	mm						Kg	Part number	Part number
AH 3284	400	420	321	331	Tr 460X5	46	46,5	HM 3192	HMV 92E
AH 3284 OH	400	420	321	331	Tr 440X5	46	54,5	HM 3188	HMV 88E
AH 3088	420	440	194	205	Tr 470X5	35	31	HM 3092	HMV 92E
AH 3088 OH	420	440	194	205	Tr 470X5	35	31	HM 3092	HMV 92E
AH 3188	420	440	270	281	Tr 480X5	42	49,8	HM 3196	HMV 96E
AH 3188 OH	420	440	270	281	Tr 480X5	42	46	HM 3192	HMV 92E
AH 3288	420	440	330	341	Tr 460X5	48	64,5	HM 3192	HMV 92E
AH 3288 OH	420	440	330	341	Tr 460X5	48	64,5	HM 3192	HMV 92E
AH 3092	440	460	202	213	Tr 490X5	37	34	HM 3096	HMV 96E
AH 3092 OH	440	460	202	213	Tr 490X5	37	34	HM 3096	HMV 96E
AH 3192	440	460	285	296	Tr 510X6	43	51,5	HM 3196	HMV 96E
AH 3192 OH	440	460	285	296	Tr 510X6	43	51,5	HM 3196	HMV 96E
AH 3292	440	460	349	360	Tr 480X5	50	80	HM 3196	HMV 96E
AH 3292 OH	440	460	349	360	Tr 480X5	50	80	HM 3196	HMV 96E
AH 3996 OH	460	480	158	157	Tr 500X5	28	25,8	HM 31/500	HMV 100E
AH 3096	460	480	205	217	Tr 520X6	38	34	HM 30/500	HMV 100E
AH 3096 OH	460	480	205	217	Tr 520X6	38	34	HM 30/500	HMV 100E
AH 3196	460	480	295	307	Tr 530X6	45	63	HM 31/500	HMV 100E
AH 3196 OH	460	480	295	307	Tr 530X6	45	63	HM 31/500	HMV 100E
AH 3296	460	480	364	376	Tr 500X5	52	81	HM 31/500	HMV 100E
AH 3296 OH	460	480	364	376	Tr 500X5	52	81	HM 31/500	HMV 100E
AH 30/500	480	500	209	221	Tr 530X6	40	41	HM 30/530	HMV 106E
AH 30/500 OH	480	500	209	221	Tr 530X6	40	41	HM 30/530	HMV 106E
AH 31/500	480	500	313	325	Tr 530X6	47	66,5	HM 31/530	HMV 106E
AH 31/500 OH	480	500	313	325	Tr 530X6	47	66,5	HM 31/530	HMV 106E
AH 30/530	500	530	230	242	Tr 560X6	45	61,9	HM 30/560	HMV 112E
AH 30/530 OH	500	530	230	242	Tr 560X6	45	63,5	HM 30/560	HMV 112E
AH 31/530	500	530	325	337	Tr 560x6	53	93,4	HM 31/560	HMV 112E
AH 32/530	500	530	412	424	Tr 580x6	57	133	HM 116T	HMV 16E
AH 30/560	530	560	240	252	Tr 600X6	45	73,5	HM 30/600	HMV 120E
AH 30/560 OH	530	560	240	252	Tr 600X6	45	73,5	HM 30/600	HMV 120E
AH 31/560	530	560	335	347	Tr 600x6	55	108	HM 31/600	HMV 120E
AH 30/600	560	600	245	259	Tr 630X6	45	77	HM 30/630	HMV 126E
AH 30/600 OH	560	600	245	259	Tr 630X6	45	77	HM 30/630	HMV 126E
AH 30/630	600	630	258	272	Tr 670X6	46	89,7	HM 30/670	HMV 134E

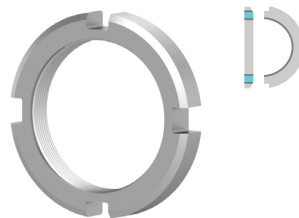
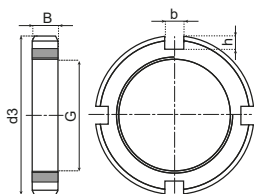
Accessories

DATA TABLE - WITHDRAWAL SLEEVE



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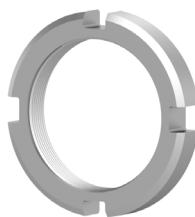
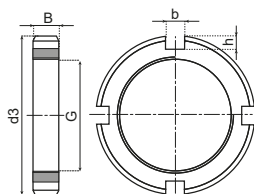
Part number	Principal dimensions						Weight	Accessories included	
	d1	d	B1	B2	G	G1		Dismounting Nut	Hydraulic Nut
	mm						Kg	Part number	Part number
AH 30/630 OH	600	630	258	272	Tr 670X6	46	88,5	HM 30/670	HMV 134E
AH 31/630	600	630	375	389	Tr 670x6	60	140	HM 31/670	HMV 134E
AH 32/630	600	630	475	489	Tr 680x6	63	191	HM 136T	HMV 36E
AH 30/670 OH	630	370	280	294	Tr 710X7	50	125	HM 30/710	HMV 142E
AH 30/670	630	670	280	294	Tr 710X7	50	127	HM 30/710	HMV 142E
AH 32/670	630	670	500	514	Tr 720x7	62	256	HM 144T	HMV 44E
AH 30/710	670	710	286	302	Tr 750X7	50	138	HM 30/750	HMV 150E
AH 30/710 OH	670	710	286	302	Tr 750X7	50	138	HM 30/750	HMV 150E
AH 32/710	670	710	500	516	Tr 760x7	65	282	HM 31/750	HMV 152E
AH 30/750	710	750	300	316	Tr 800x7	50	159	HM 30/800	HMV 160E
AH 31/750	710	750	425	441	Tr 800x7	60	238	HM 31/800	HMV 160E
AH 32/750	710	750	540	556	Tr 800x7	65	320	HM 31/800	HMV 160E
AH 30/800	750	800	308	326	Tr 850x7	50	204	HM 30/850	HMV 170E
AH 31/800	750	800	438	456	Tr 850x7	63	305	HM 31/850	HMV 170E
AH 32/800	750	800	550	568	Tr 850x7	67	401	HM 31/850	HMV 170E
AH 30/850	800	850	325	343	Tr 900x7	53	230	HM 30/900	HMV 180E
AH 31/850	800	850	462	480	Tr 900x7	62	345	HM 31/900	HMV 180E
AH 32/850	800	850	585	603	Tr 900x7	70	461	HM 31/900	HMV 180E
AH 30/900	850	900	335	355	Tr 950x8	55	253	HM 30/950	HMV 190E
AH 31/900	850	900	475	495	Tr 950x8	63	379	HM 31/950	HMV 190E
AH 32/900	850	900	585	605	Tr 950x8	70	489	HM 31/950	HMV 190E
AH 30/950	900	950	355	375	Tr 1000x8	55	285	HM 30/1000	HMV 200E
AH 31/950	900	950	500	520	Tr 1000x8	62	426	HM 31/1000	HMV 200E
AH 32/950	900	950	600	620	Tr 1000x8	70	533	HM 31/1000	HMV 200E



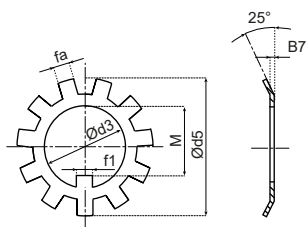
NUT	Principal dimensions				lock		Weight	Suitable for use with locking device type (not included)
	bore	outer	width	thread	width	depth		
	mm						Kg	
Part number	d	d3	B	G	b	h	-	
KM 0	10	18	4	M 10x0.75	4	3	0,004	MB 0
KM 1	12	22	4	M 12x1	4	3	0,006	MB 1
KM 2	15	25	5	M 15x1	5	4	0,009	MB 2
KM 3	17	28	5	M 17x1	5	4	0,015	MB 3
KM 4	20	32	6	M 20x1	6	4	0,025	MB 4
KM 5	25	38	7	M 25x1.5	7	5	0,028	MB 5
KM 6	30	45	7	M 30x1.5	7	5	0,039	MB 6
KM 7	35	52	8	M 35x1.5	8	5	0,059	MB 7
KM 8	40	58	9	M 40x1.5	9	6	0,078	MB 8
KM 9	45	65	10	M 45x1.5	10	6	0,11	MB 9
KM 10	50	70	11	M 50x1.5	11	6	0,14	MB 10
KM 11	55	75	11	M 55x2	11	7	0,15	MB 11
KM 12	60	80	11	M 60x2	11	7	0,16	MB 12
KM 13	65	85	12	M 65x2	12	7	0,19	MB 13
KM 14	70	92	12	M 70x2	12	8	0,23	MB 14
KM 15	75	98	13	M 75x2	13	8	0,27	MB 15
KM 16	80	105	15	M 80x2	15	8	0,36	MB 16
KM 17	85	110	16	M 85x2	16	8	0,41	MB 17
KM 18	90	120	16	M 90x2	16	10	0,51	MB 18
KM 19	95	125	17	M 95x2	17	10	0,55	MB 19
KM 20	100	130	18	M 100x2	18	10	0,64	MB 20
KM 21	105	140	18	M 105x2	18	12	0,79	MB 21
KM 22	110	145	19	M 110x2	19	12	0,87	MB 22
KM 23	115	150	19	M 115x2	19	12	0,91	MB 23
KML 24	120	145	20	M 120x2	20	12	0,69	MBL 24
KM 24	120	155	20	M 120x2	20	12	0,97	MB 24
KM 25	125	160	21	M 125x2	21	12	1,09	MB 25
KML 26	130	155	21	M 130x2	21	12	0,8	MBL 26
KM 26	130	165	21	M 130x2	21	12	1,09	MB 26
KM 27	135	175	22	M 135x2	22	14	1,39	MB 27
KML 28	140	165	22	M 140x2	22	12	0,92	MBL 28
KM 28	140	180	22	M 140x2	22	14	1,4	MB 28
KM 29	145	190	24	M 145x2	24	14	1,8	MB 29
KML 30	150	180	24	M 150x2	24	14	1,25	MBL 30
KM 30	150	195	24	M 150x2	24	14	1,88	MB 30

Accessories

DATA TABLE - LOCKING NUT



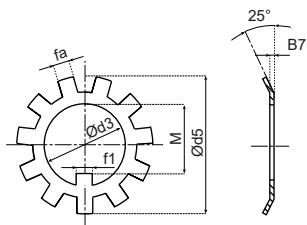
NUT	Principal dimensions				lock		Weight	Suitable for use with locking device type (not included)
	bore	outer	width	thread	width	depth		
	mm						Kg	
Part number	d	d3	B	G	b	h	-	
KM 31	155	200	25	M 155x3	25	16	2,09	MB 31
KML 32	160	190	25	M 160x3	25	14	1,39	MBL 32
KM 32	160	210	25	M 160x3	25	16	2,29	MB 32
KM 33	165	210	26	M 165x3	26	16	2,31	MB 33
KML 34	170	200	26	M 170x3	26	16	1,56	MBL 34
KM 34	170	220	26	M 170x3	26	16	2,54	MB 34
KML 36	180	210	27	M 180x3	27	16	1,78	MBL 36
KM 36	180	230	27	M 180x3	27	18	2,78	MB 36
KML 38	190	220	28	M 190x3	28	16	1,84	MBL 38
KM 38	190	240	28	M 190x3	28	18	3,05	MB 38
KML 40	200	240	29	M 200x3	29	18	2,61	MBL 40
KM 40	200	250	29	M 200x3	29	18	3,37	MB 40
HM 42 T	210	270	30	Tr 210x4	20	10	4,87	MB 42
HM 44 T	220	280	32	Tr 220x4	20	10	3,35	MB 44
HM 46 T	230	290	34	Tr 230x4	20	10	5,8	MB 46
HM 48 T	240	300	34	Tr 240x4	20	10	6,2	MB 48
HM 50 T	250	320	36	Tr 250x4	20	10	7,1	MB 50
HM 52 T	260	330	36	Tr 260x4	24	12	8,4	MB 52
HM 54 T	270	340	36	Tr 270x4	24	12	9,4	MB 54
HM 56 T	280	350	38	Tr 280x4	24	12	9,6	MB 56



LOCKING DEVICE	Principal dimensions			Inner lip		outer lip		Weight	Suitable for use with locking device type (not included)
	bore	outer	width	width	depth	width	number of lips	Kg	
	mm							m	
Part number	d3	d5	B7	f1	M	fa			
MB 0	10	21	1	3	8,5	3	9	0,001	KM 0
MB 1	12	25	1	3	10,5	3	11	0,002	KM 1
MB 2	15	28	1	4	13,5	4	11	0,003	KM 2
MB 3	17	32	1	4	15,5	4	11	0,003	KM 3
MB 4	20	36	1	4	18,5	4	11	0,004	KM 4
MB 5	25	42	1,25	5	23	5	13	0,006	KM 5
MB 6	30	49	1,25	5	27,5	5	13	0,008	KM 6
MB 7	35	57	1,25	6	32,5	5	13	0,011	KM 7
MB 8	40	62	1,25	6	37,5	6	13	0,013	KM 8
MB 9	45	69	1,25	6	42,5	6	13	0,015	KM 9
MB 10	50	74	1,25	6	47,5	6	13	0,016	KM 10
MB 11	55	81	1,5	8	52,5	7	17	0,022	KM 11
MB 12	60	86	1,5	8	57,5	7	17	0,024	KM 12
MB 13	65	92	1,5	8	62,5	7	17	0,03	KM 13
MB 14	70	98	1,5	8	66,5	8	17	0,032	KM 14
MB 15	75	104	1,5	8	71,5	8	17	0,035	KM 15
MB 16	80	112	1,8	10	76,5	8	17	0,046	KM 16
MB 17	85	119	1,8	10	81,5	8	17	0,053	KM 17
MB 18	90	126	1,8	10	86,5	10	17	0,061	KM 18
MB 19	95	133	1,8	10	91,5	10	17	0,066	KM 19
MB 20	100	142	1,8	12	96,5	10	17	0,077	KM 20
MB 21	105	145	1,8	12	100,5	12	17	0,083	KM 21
MB 22	110	154	1,8	12	105,5	12	17	0,091	KM 22
MB 23	115	159	2	12	110,5	12	17	0,11	KM 23
MBL 24	120	151	2	14	115	12	17	0,07	KML 24
MB 24	120	164	2	14	115	12	17	0,11	KM 24
MB 25	125	170	2	14	120	12	17	0,12	KM 25
MBL 26	130	161	2	14	125	12	17	0,08	KML 26
MB 26	130	175	2	14	125	12	17	0,12	KM 26
MB 27	135	185	2	14	130	14	17	0,14	KM 27
MBL 28	140	171	2	16	135	12	17	0,09	KML 28
MB 28	140	192	2	16	135	14	17	0,14	KM 28
MB 29	145	202	2	16	140	14	17	0,17	KM 29
MBL 30	150	188	2	16	145	14	17	0,1	KML 30
MB 30	150	205	2	16	145	14	17	0,18	KM 30

Accessories

DATA TABLE - LOCKING DEVICE



LOCKING DEVICE	Principal dimensions			Inner lip		outer lip		Weight	Suitable for use with locking device type (not included)
	bore	outer	width	width	depth	width	number of lips	Kg	
	mm							m	
Part number	d3	d5	B7	f1	M	fa			
MB 31	155	212	2,5	16	147,5	16	19	0,2	KM 31
MBL 32	160	199	2,5	18	154	14	19	0,14	KML 32
MB 32	160	217	2,5	18	154	16	19	0,22	KM 32
MB 33	165	222	2,5	18	157,5	16	19	0,24	KM 33
MBL 34	170	211	2,5	18	164	16	19	0,15	KML 34
MB 34	170	232	2,5	18	164	16	19	0,24	KM 34
MBL 36	180	221	2,5	20	174	16	19	0,16	KML 36
MB 36	180	242	2,5	20	174	18	19	0,26	KM 36
MBL 38	190	231	2,5	20	184	16	19	0,17	KML 38
MB 38	190	252	2,5	20	184	18	19	0,26	KM 38
MBL 40	200	248	2,5	20	194	18	19	0,22	KML 40
MB 40	200	262	2,5	20	194	18	19	0,28	KM 40
MB 44	220	292	3	24	213	20	19	0,35	HM 44
MB 48	240	312	3	24	233	20	19	0,45	HM 48
MB 52	260	342	3	28	253	24	19	0,65	HM 52
MB 56	280	362	3	28	273	24	19	0,74	HM 56