

LOCK NUTS

KM, KML, HM, HML, HMT, HME

Besides being a sleeve accessory, lock nuts have their own applications, such as to locate bearings, gears and pulleys on the shafts ends. BGL nuts have strictly controlled measurements according to international standards to ensure an assembly with the required precision. When manufactured in nodular, they have the advantage of being tightened with less effort, due to the graphite included in their alloy, besides reducing the risk of jamming over time and use. Locking with MB washer or MS locking clip is required.

Material: BGL Nodular (Ductile) with characteristics exceeding the DIN 1563 rule class GJS 500-7 (formerly GGG50).

Optional: Carbon steel and stainless steel.

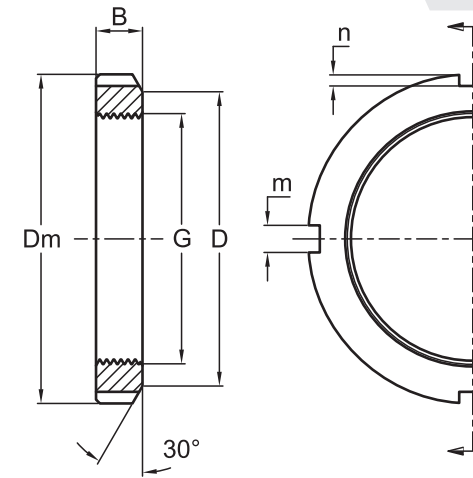




LOCK NUTS

KM, KML

Metric Thread - mm



NUTS KM, KML

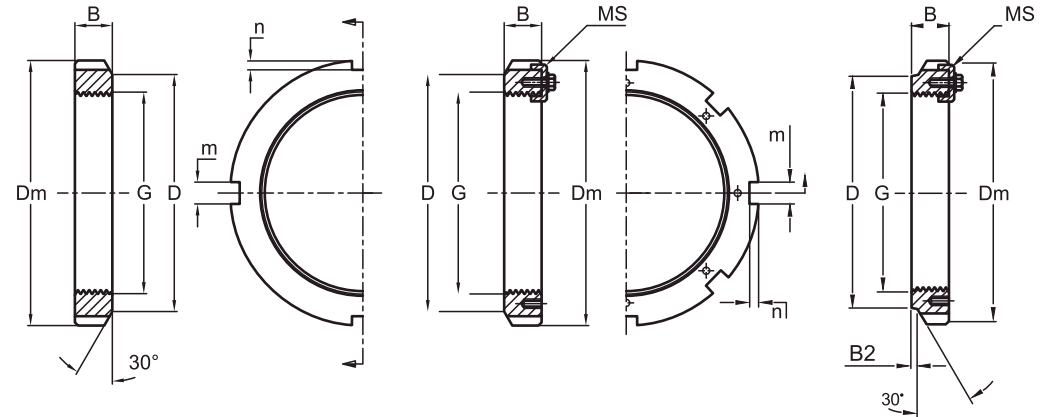
Part Number	G*	D (mm)	Dm (mm)	B (mm)	B3 (mm)	m (mm)	n (mm)	Weight (Kg)	Lockwasher	Hook Spanner
KM 0	M10x0.75	13.5	18	4		3	2	0.04	MB 0	HN 1
KM 1	M12x1	17	22	4		3	2	0.01	MB 1	HN 1
KM 2	M15x1	21	25	5		4	2	0.01	MB 2	HN 2
KM 3	M17x1	24	28	5		4	2	0.01	MB 3	HN 3
KM 4	M20x1	26	32	6		4	2	0.02	MB 4	HN 4
KM 5	M25x1,5	32	38	7		5	2	0.03	MB 5	HN 5
KM 6	M30x1,5	38	45	7		5	2	0.04	MB 6	HN 6
KM 7	M35x1,5	44	52	8		5	2	0.06	MB 7	HN 7
KM 8	M40x1,5	50	58	9		6	2.5	0.08	MB 8	HN 8
KM 9	M45x1,5	56	65	10		6	2.5	0.11	MB 9	HN 9
KM 10	M50x1,5	61	70	11		6	2.5	0.13	MB 10	HN 10
KM 11X1.5	M55x1,5	67	75	11		7	3	0.14	MB 11	HN 11
KM 11	M55x2	67	75	11		7	3	0.15	MB 11	HN 11
KM 12X1.5	M60x1,5	73	80	11		7	3	0.16	MB 12	HN 12
KM 12	M60x2	73	80	11		7	3	0.16	MB 12	HN 12
KM 13X1.5	M65x1,5	79	85	12		7	3	0.19	MB 13	HN 13
KM 13	M65x2	79	85	12		7	3	0.19	MB 13	HN 13
KM 14	M70x2	85	92	12		8	3.5	0.22	MB 14	HN 14
KM 15	M75x2	90	98	13		8	3.5	0.26	MB 15	HN 15
KM 16	M80x2	95	105	15		8	3.5	0.36	MB 16	HN 16
KM 17	M85x2	102	110	16		8	3.5	0.41	MB 17	HN 17
KM 18	M90x2	108	120	16		10	4	0.52	MB 18	HN 18
KM 19	M95x2	113	125	17		10	4	0.58	MB 19	HN 19
KM 20	M100x2	120	130	18		10	4	0.65	MB 20	HN 20
KM 21	M105x2	126	140	18		12	5	0.79	MB 21	HN 21
KM 22	M110x2	133	145	19		12	5	0.88	MB 22	HN 22
KM 23	M115x2	137	150	19		12	5	0.92	MB 23	HN 23
KM 24	M120x2	138	155	20		12	5	0.97	MB 24	HN 24
KML 24	M120x2	135	145	20		12	5	0.69	MBL 24	HN 22
KM 25	M125x2	148	160	21		12	5	1.08	MB 23	HN 25
KM 26	M130x2	149	165	21		12	5	1.1	MB 26	HN 26
KML 26	M130x2	145	155	21		12	5	0.78	MBL 26	HN 24
KM 27	M135x2	160	175	22		14	6	1.40	MB 27	HN 27
KM 28	M140x2	160	180	22		14	6	1.41	MB 28	HN 28
KML 28	M140x2	155	165	22		12	5	0.88	MBL 28	HN 26
KM 29	M145x2	171	190	24		14	6	1.84	MB 29	HN 29
KM 30	M150x2	171	195	24		14	6	1.88	MB 30	HN 30
KML 30	M150x2	170	180	24		14	5	1.25	MBL 30	HN 28
KM 31	M155x3	182	200	25		16	7	2.07	MB 31	HN 31
KML 32	M160x3	180	190	25		14	5	1.41	MBL 32	HN 29



LOCK NUTS

KM, KML, HM, HME, HML, HMT

Metric Thread - mm



NUTS KM, KML, HM ...T, HML ...T

NUTS HM WITH MS

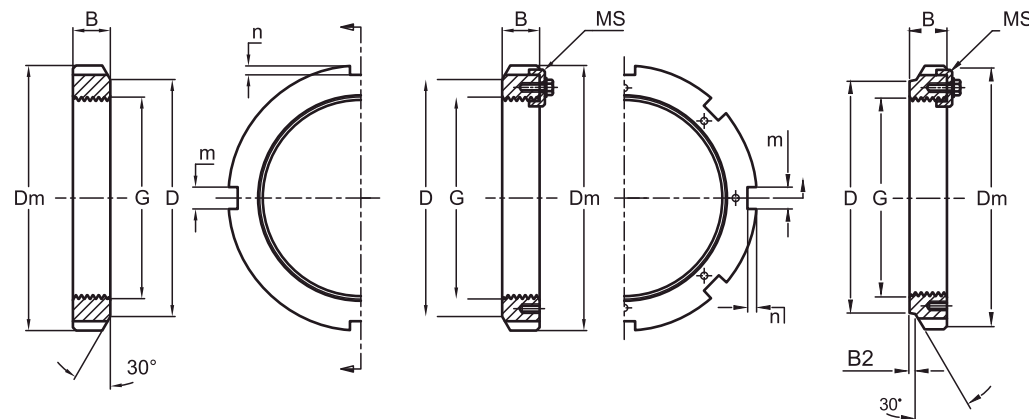
NUTS HME WITH MS

Part Number	G*	D (mm)	Dm (mm)	B (mm)	B3 (mm)	m (mm)	n (mm)	Weight (Kg)	Lockwasher	Hook Spanner
KML 32	M160x3	180	190	25		14	5	1,41	MBL 32	HN 29
KM 32	M160x3	182	210	25		16	7	2,28	MB 32	HN 32-HN 33
KM 33	M165x3	193	210	26		16	7	2,29	MB 33	HN 32-HN 33
KML 34	M170x3	190	200	26		16	5	1,55	MBL 34	HN 31
KM 34	M170x3	193	220	26		16	7	2,54	MB 34	HN 34
KML 36	M180x3	200	210	27		16	5	1,68	MBL 36	HN 32-HN 33
KM 36	M180x3	203	230	27		18	8	2,77	MB 36	HN 36
KML 38	M190x3	210	220	28		16	5	1,85	MBL 38	HN 34
KM 38	M190x3	214	240	28		18	8	3,03	MB 38	HN 38
KML 40	M200x3	220	240	29		18	8	2,65	MBL 40	HN 38
KM 40	M200x3	226	250	29		18	8	3,35	MB 40	HN 40
HML 41T	Tr 205x4	232	250	30		18	8	3,2		HN 40
HMLL 42T	Tr 210x4	234	250	26		18	8	4,22		HN 40
HM 42T	Tr 210x4	238	270	30		20	10	4,22		HN 40
HML 43T	Tr 215x4	242	260	30		20	9	3,72		HN 40
HM 3044	Tr 220x4	242	260	30		20	9	2,8	MS 3044	HN 44
HME 3044	Tr 220x4	237	260	30	5	20	9	2,5	MS 3044	
HM 3144	Tr 220x4	250	280	32		20	10	4,58	MS 3144-MS 3148	HN 44
HM 44T	Tr 220x4	250	280	32		20	10	4,8	MB 44	HN 44
HMLL 46T	Tr 230x4	254	270	26		18	8	4		
HM 46T	Tr 230x4	260	290	34		20	10	3,1		
HML 47T	Tr 235x4	262	280	34		20	9	5,4		
HM 3048	Tr 240x4	270	290	34		20	10	4,1	MS 3048-MS3052	
HME 3048	Tr 240x4	264	290	34	8	20	10	4,41	MS 3048-MS3052	
HM 3148	Tr 240x4	270	300	34		20	10	5,36	MS 3144-MS3148	
HM 48T	Tr 240x4	270	300	34		20	10	5,6	MB 48	
HMLL 50T	Tr 250x4	274	290	26		18	8	3,4		
HM 50T	Tr 250x4	290	320	36		20	10	7,2		
HM 3052	Tr 260x4	290	310	34		20	10	4,73	MS 3048-MS3052	
HME 3052	Tr 260x4	288	310	34	8	20	10	4,3	MS 3048-MS3052	
HML 52T	Tr 260x4	290	310	34		20	10	5,15		
HM 3152	Tr 260x4	300	330	36		24	12	7,2	MS 3152-MS 3156	
HM 52T	Tr 260x4	300	330	36		24	12	7,34	MB 52	
HM 54T	Tr 270x4	310	340	38		24	12	4,4		
HMLL 55T	Tr 275x4	304	320	27		18	8	5,49		
HML 56T	Tr 280x4	310	330	30		24	10	5,8		
HM 3056	Tr 280x4	310	330	38		24	10	8,24	MS 3056	
HM 3156	Tr 280x4	320	350	38		24	12	8,61	MS 3152-MS 3156	
HM 56T	Tr 280x4	320	350	38		24	12	0,54	MB 56	
HM 58T	Tr 290x4	330	370	40		24	12			

LOCK NUTS

HME, HML, HMT

Metric Thread - mm



NUTS HM ...T, HML ...T

NUTS HM WITH MS

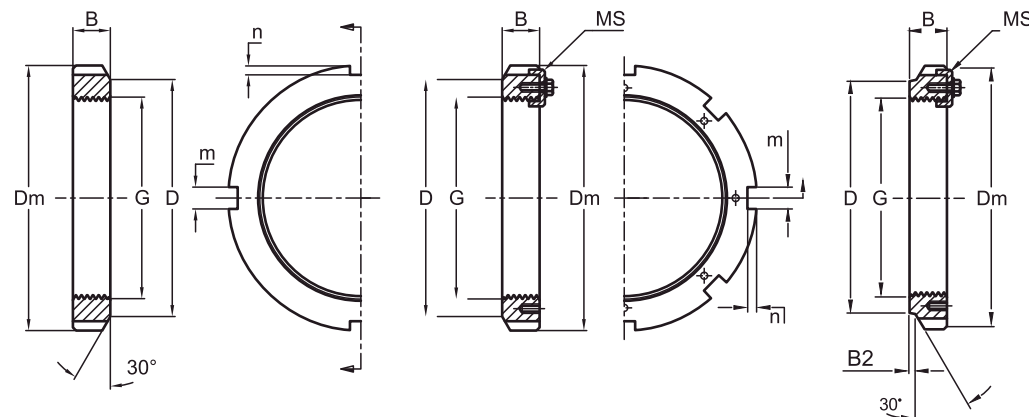
NUTS HME WITH MS

Part Number	G*	D (mm)	Dm (mm)	B (mm)	B3 (mm)	m (mm)	n (mm)	Weight (Kg)	Lockwasher	Hook Spanner
HMLL 59T	Tr 295x4	320	340	27		20	10	4,6		
HML 60T	Tr 300x4	336	360	31		24	12	6,2		
HM 3160	Tr 300x4	340	380	40		24	12	10,6	MS 3160	
HME 3160	Tr 300x4	335	380	40	5	24	12	11	MS 3160	
HM 60T	Tr 300x4	340	380	40		24	12	10,8	MB 60	
HM 3060	Tr 300x4	336	360	42		24	12	8,4	MS 3060	
HM 62T	Tr 310x5	350	390	42		24	12	13		
HMLL 63T	Tr 315x5	350	370	28		20	10	5,4		
HM 64T	Tr 320x5	370	400	40		24	12	12,2		
HM 3064	Tr 320x5	356	380	42		24	12	8,8	MS 3064-MS 3068	
HM 3164	Tr 320x5	360	400	42		24	12	11,8	MS 3164	
HML 64T	Tr 320x5	356	380	42		24	12	9,2		
HM 66T	Tr 330x5	380	420	52		28	15	18		
HMLL 67T	Tr 335x5	370	390	28		20	10	6,7		
HM 68T	Tr 340x5	390	420	42		28	15	13,2		
HM 3068	Tr 340x5	376	400	45		24	12	10,1	MS 3064-MS 3068	
HM 3168	Tr 340x5	400	440	55		28	15	21,4	MS 3168-MS 3172	
HME 3168	Tr 340x5	382	440	55	8	28	15	22	MS 3168-MS 3172	
HML 69T	Tr 345x5	384	410	45		28	13	13		
HM 70T	Tr 350x5	410	450	55		28	15	22,8		
HMLL 71T	Tr 355x5	386	410	28		24	12	6,9		
HML 72T	Tr 360x5	394	420	35		28	13	10,2		
HM 3072	Tr 360x5	394	420	45		28	13	10,6	MS 3072	
HME 3072	Tr 360x5	394	420	45	8	28	13	11	MS 3072	
HM 3172	Tr 360x5	420	460	58		28	15	24	MS 3168-MS 3172	
HME 3172	Tr 360x5	406	460	58	10	28	15	24	MS 3168-MS 3172	
HM 72T	Tr 360x5	420	460	58		28	15	27,5		
HML 73T	Tr 365x5	404	430	48		28	13	13		
HM 74T	Tr 370x5	430	470	58		28	15	28		
HMLL 75T	Tr 375x5	406	430	28		24	12	7,3		
HML 76T	Tr 380x5	417	445	37		28	14	11,3		
HM 76T	Tr 380x5	430	470	45		32	18	20,2		
HM 3076	Tr 380x5	422	450	48		28	14	14,6	MS 3076-MS 3080	
HME 3076	Tr 380x5	422	450	48	10	28	14	14	MS 3076-MS 3080	
HM 3176	Tr 380x5	440	490	60		32	18	28,2	MS 3176	
HME 3176	Tr 380x5	438	490	60	15	32	18	28,5	MS 3176	
HML 77T	Tr 385x5	422	450	48		28	14	15		
HMLL 79T	Tr 395x5	436	460	30		24	12	9,9		
HM 3080	Tr 400x5	442	470	52		28	14	16	MS 3076-MS 3080	
HME 3080	Tr 400x5	442	470	52	10	28	14	16	MS 3076-MS 3080	

LOCK NUTS

HME, HML, HMT

Metric Thread - mm



NUTS HM ...T, HML ...T

NUTS HM WITH MS

NUTS HME WITH MS

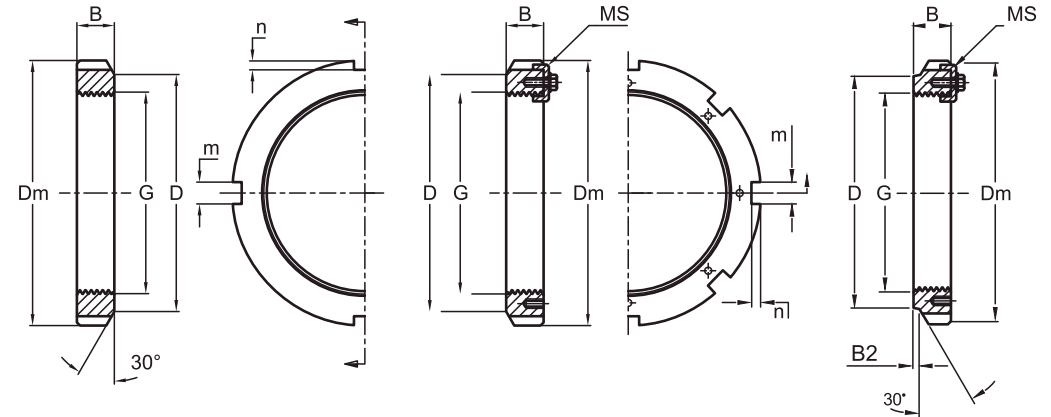
Part Number	G*	D (mm)	Dm (mm)	B (mm)	B3 (mm)	m (mm)	n (mm)	Weight (Kg)	Lockwasher	Hook Spanner
HME 3180	Tr 400x5	456	520	62	15	32	18	33	MS 3180-MS 3184	
HM 80T	Tr 400x5	470	520	62		32	18	35,4		
HML 82T	Tr 410x5	452	480	52		32	14	19		
HMLL 83T	Tr 415x5	456	480	30		24	12	10,3		
HM 3084	Tr 420x5	462	490	52		32	14	16,8	MS 3084	
HME 3084	Tr 420x5	462	490	52	10	32	14	17	MS 3084	
HM 3184	Tr 420x5	490	540	70		32	18	40,4	MS 3180-MS 3184	
HM 84T	Tr 420x5	490	540	70		32	18	47		
HML 86T	Tr 430x5	472	500	52		32	14	20		
HMLL 87T	Tr 435x5	474	500	30		28	13	10,7		
HM 3088	Tr 440x5	490	520	60		32	15	23,4	MS 3088-MS 3092	
HME 3088	Tr 440x5	488	520	60	12	32	15	24	MS 3088-MS 3092	
HM 3188	Tr 440x5	510	560	70		36	20	41,6	MS 3188-MS 3192	
HME 3188	Tr 440x5	508	560	70	15	36	20	42,5	MS 3188-MS 3192	
HM 88T	Tr 440x5	510	560	70		36	20	48,5		
HML 90T	Tr 450x5	490	520	60		32	15	24		
HMLL 92T	Tr 460x5	504	530	33		28	13	13,5		
HM 92T	Tr 460x5	510	550	53		36	20	28,8		
HM 3092	Tr 460x5	510	540	60		32	15	24,8	MS 3088-MS 3092	
HM 3192	Tr 460x5	540	580	75		36	20	47,6	MS 3188-MS 3192	
HME 3192	Tr 460x5	535	580	75	20	36	20	45,5	MS 3188-MS 3192	
HML 94T	Tr 470x5	510	540	43		32	15	15,6		
HMLL 96T	Tr 480x5	522	550	33		32	14	13,9		
HM 96T	Tr 480x5	540	590	56		36	20	33,8		
HM 3096	Tr 480x5	530	560	60		36	15	28,3	MS 3096-30/500	
HME 3096	Tr 480x5	530	560	60	12	36	15	26	MS 3096-30/500	
HM 3196	Tr 480x5	560	620	75		36	20	62	MS 3196	
HME 3196	Tr 480x5	560	620	75	20	36	20	55	MS 3196	
HML 98T	Tr 490x5	550	580	60		36	15	34		
HMLL 100T	Tr 500x5	547	575	37		32	15	17,6		
HM 30/500	Tr 500x5	550	580	68		36	15	29,6	MS 3096-30/500	
HME 30/500	Tr 500x5	550	580	68	12	36	15	31,5	MS 3096-30/500	
HM 31/500	Tr 500x5	580	630	80		40	23	59,4	MS 31/500	
HME 31/500	Tr 500x5	580	630	80	12	40	23	60	MS 31/500	
HM 102T	Tr 510x6	570	620	58		40	23	41,2		
HMLL 104T	Tr 520x6	565	595	42		32	15	20,8		
HML 104T	Tr 520x6	570	600	68		36	15	37		
HM 106T	Tr 530x6	590	640	60		40	23	44,2		
HM 30/530	Tr 530x6	590	630	68		40	20	39,8	MS 30/530-600	
HME 30/530	Tr 530x6	571	630	68	15	40	20	37	MS 30/530-600	



LOCK NUTS

HME, HML, HMT

Metric Thread - mm



NUTS HM ...T, HML ...T

NUTS HM WITH MS

NUTS HME WITH MS

Part Number	G*	D (mm)	Dm (mm)	B (mm)	B3 (mm)	m (mm)	n (mm)	Weight (Kg)	Lockwasher	Hook Spanner
HM 31/530	Tr 530x6	610	670	80		40	23	67,4	MS 31/530	
HML 108T	Tr 540x6	590	620	49		40	20	23,8		
HMLL 110T	Tr 550x6	595	625	47		32	15	24,7		
HM 110T	Tr 550x6	640	700	85		40	23	79,5		
HML 112T	Tr 560x6	610	650	60		40	20	33,8		
HM 30/560	Tr 560x6	610	650	75		40	20	40,4	MS 30/560	
HME 30/560	Tr 560x6	610	650	75	15	40	20	41	MS 30/560	
HM 31/560	Tr 560x6	650	710	85		45	25	88,9	MS 31/560-600	
HME 31/560	Tr 560x6	650	710	85	15	45	25	80,5	MS 31/560-600	
HM 30/570	Tr 570x6	630	670	75		40	20	41,2	MS 30/750-800	
HM 31/570	Tr 570x6	660	720	85		45	25	87	MS 31/750-800	
HMLL 116T	Tr 580x6	630	660	47		32	15	30		
HM 116T	Tr 580x6	645	700	65		40	23	57,3		
HML 118T	Tr 590x6	650	690	63		40	20	47,7		
HM 30/600	Tr 600x6	660	700	75		40	20	49,6	MS 30/530-600	
HME 30/600	Tr 600x6	657	700	75	18	40	20	47	MS 30/530-600	
HM 31/600	Tr 600x6	690	750	85		45	25	94,9	MS 31/560-600	
HME 31/600	Tr 600x6	690	750	85	15	45	25	85	MS 31/560-600	
HM 122T	Tr 610x6	675	730	65		45	25	59,7		
HMLL 125T	Tr 625x6	675	710	48		36	15	32,3		
HML 126T	Tr 630x6	690	730	65		45	20	52,2		
HM 30/630	Tr 630x6	690	730	75		45	20	51,4	MS 30/630	
HME 30/630	Tr 630x6	690	730	75	18	45	20	50	MS 30/630	
HM 31/630	Tr 630x6	730	800	95		50	28	116,4	MS 31/630	
HME 31/630	Tr 630x6	730	800	95	18	50	28	115	MS 31/630	
HM 130T	Tr 650x6	720	780	67		45	25	70,9		
HMLL 131T	Tr 655x6	715	745	52		36	15	39,5		
HML 134T	Tr 670x6	730	770	70		45	20	59,8		
HM 30/670	Tr 670x6	740	780	80		45	20	66,2	MS 30/670	
HM 31/670	Tr 670x6	775	850	106		50	28	162	MS 31/670	
HME 31/670	Tr 670x6	775	850	106	18	50	28	144	MS 31/670	
HM 136T	Tr 680x6	750	820	72		50	28	84,8		
HMLL 139T	Tr 695x6	755	795	53		40	20	46,4		
HML 142T	Tr 710x7	780	830	70		50	25	75,7		
HM 30/710	Tr 710x7	780	830	90		50	25	90,7	MS 30/710	
HME 30/710	Tr 710x7	766	830	90	20	50	25	81	MS 30/710	
HM 31/710	Tr 710x7	825	900	106		55	30	180	MS 31/710	
HME 31/710	Tr 710x7	825	900	106	20	55	30	149	MS 31/710	
HM 144T	Tr 720x7	800	870	72		50	28	97,8		
HMLL 148T	Tr 740x7	800	840	55		40	20	51,5		

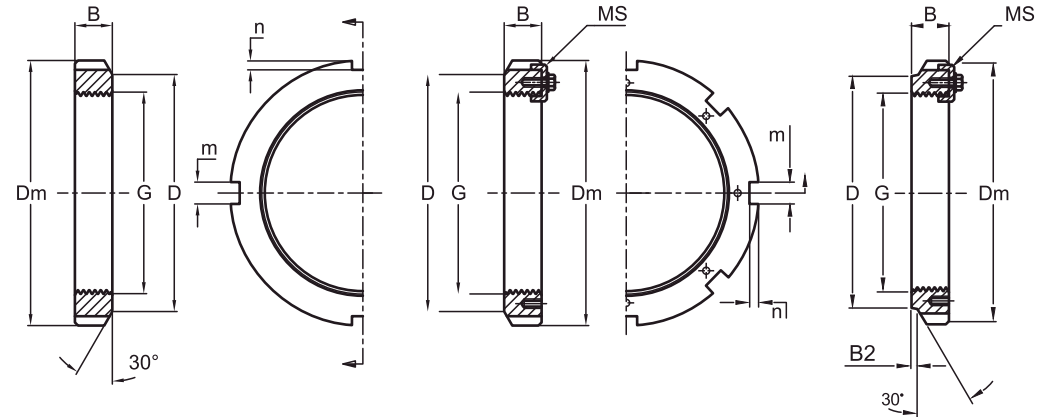
* Example of thread part number: TR 300 x 4, TR: Trapezoidal metric thread,
300: Thread diameter, 4: Thread pitch.



LOCK NUTS

HME, HML, HMT

Metric Thread - mm



NUTS HM ...T, HML ...T

NUTS HM WITH MS

NUTS HME WITH MS

Part Number	G*	D (mm)	Dm (mm)	B (mm)	B3 (mm)	m (mm)	n (mm)	Weight (Kg)	Lockwasher	Hook Spanner
HML 150T	Tr 750x7	820	870	70		55	25	79,6		
HM 30/750	Tr 750x7	820	870	90		55	25	88,4	MS 30/750-800	
HME 30/750	Tr 750x7	820	870	90	20	55	25	85,5	MS 30/750-800	
HM 31/750	Tr 750x7	875	950	112		60	34	208	MS 31/750-800	
HME 31/750	Tr 750x7	875	950	112	20	60	34	177	MS 31/750-800	
HM 152T	Tr 760x7	830	910	75		55	30	104		
HMLL 156T	Tr 780x7	840	880	56		40	20	49,6		
HML 160T	Tr 800x7	865	920	70		55	25	84		
HM 160T	Tr 800x7	870	950	75		60	34	109		
HM 30/800	Tr 800x7	870	920	90		55	25	94,4	MS 30/750-800	
HME 30/800	Tr 800x7	870	920	90	20	55	25	90,5	MS 30/750-800	
HM 31/800	Tr 800x7	925	1000	112		60	34	221	MS 31/750-800	
HME 31/800	Tr 800x7	925	1000	112	20	60	34	187	MS 31/750-800	
HMLL 166T	Tr 830x7	890	930	57		40	20	59,7		
HML 170T	Tr 850x7	915	970	74		60	25	94		
HM 170T	Tr 850x7	930	1010	79		60	34	131		
HM 30/850	Tr 850x7	925	980	90		60	25	118	MS 30/850-900	
HME 30/850	Tr 850x7	925	980	90	20	60	25	104	MS 30/850-900	
HM 31/850	Tr 850x7	975	1060	118		70	38	254	MS 31/850	
HME 31/850	Tr 850x7	975	1060	118	25	70	38	212	MS 31/850	
HMLL 176T	Tr 880x7	950	990	62		45	20	76,3		
HML 180T	Tr 900x7	965	1020	74		60	25	99,3		
HM 180T	Tr 900x7	980	1060	82		70	38	142		
HM 30/900	Tr 900x7	975	1030	100		60	25	126	MS 30/850-900	
HME 30/900	Tr 900x7	975	1030	100	25	60	25	117	MS 30/850-900	
HM 31/900	Tr 900x7	1030	1120	125		70	38	303	MS 31/900	
HMLL 186T	Tr 930x8	1000	1040	63		45	20	82,2		
HML 190T	Tr 950x8	1015	1070	76		60	25	108		
HM 190T	Tr 950x8	1030	1110	83		70	38	153		
HM 30/950	Tr 950x8	1024	1080	100		60	25	148	MS 30/950	
HME 30/950	Tr 950x8	1025	1080	100	25	60	25	124	MS 30/950	
HM 31/950	Tr 950x8	1080	1170	125		70	38	321	MS 31/950	
HMLL 196T	Tr 980x8	1050	1090	65		45	20	89,3		
HM 200T	Tr 1000x8	1080	1160	83		70	38	161		
HM 30/1000	Tr 1000x8	1085	1140	100		60	25	155,6	MS 30/1000	
HME 30/1000	Tr 1000x8	1085	1140	100	25	60	25	141	MS 30/1000	
HM 31/1000	Tr 1000x8	1140	1240	125		70	38	374	MS 31/1000	
HME 31/1000	Tr 1000x8	1140	1240	125	25	70	38	305	MS 31/1000	
HMLL 207T	Tr 1035x8	1105	1155	67		50	25	104		
HML 212T	Tr 1060x8	1125	1180	78		60	25	124		

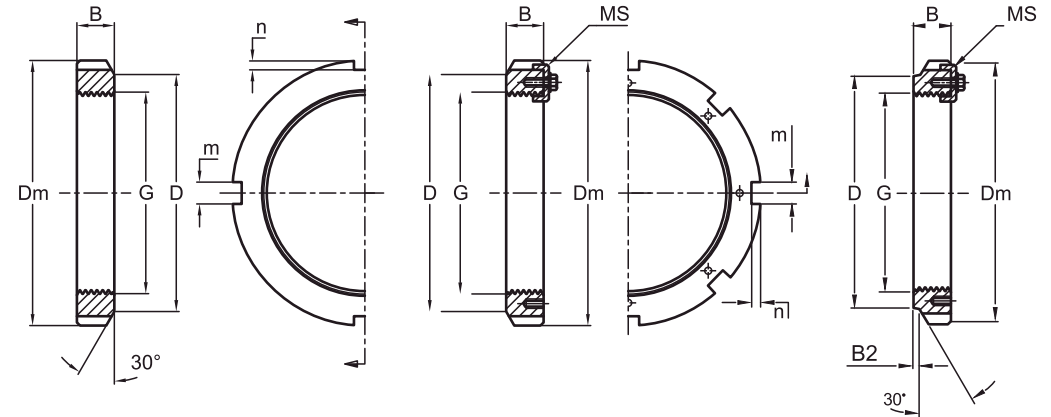
* Example of thread part number: TR 300 x 4, TR: Trapezoidal metric thread,
300: Thread diameter, 4: Thread pitch.



LOCK NUTS

HME, HML, HMT

Metric Thread - mm



NUTS HM ...T, HML ...T

NUTS HM WITH MS

NUTS HME WITH MS

Part Number	G*	D (mm)	Dm (mm)	B (mm)	B3 (mm)	m (mm)	n (mm)	Weight (Kg)	Lockwasher	Hook Spanner
HM 212T	Tr 1060x8	1130	1220	85		70	38	171		
HM 30/1060	Tr 1060x8	1145	1200	100		60	25	180	MS 30/1000	
HME 30/1060	Tr 1060x8	1145	1200	100	25	60	25	149	MS 30/1000	
HM 31/1060	Tr 1060x8	1210	1300	125		70	38	396	MS 31/1000	
HMLL 219T	Tr 1095x8	1165	1215	67		50	25	110		
HML 224T	Tr 1120x8	1185	1240	79		60	25	132		
HM 30/1120	Tr 1120x8	1205	1260	100		60	25	190	MS 30/1000	