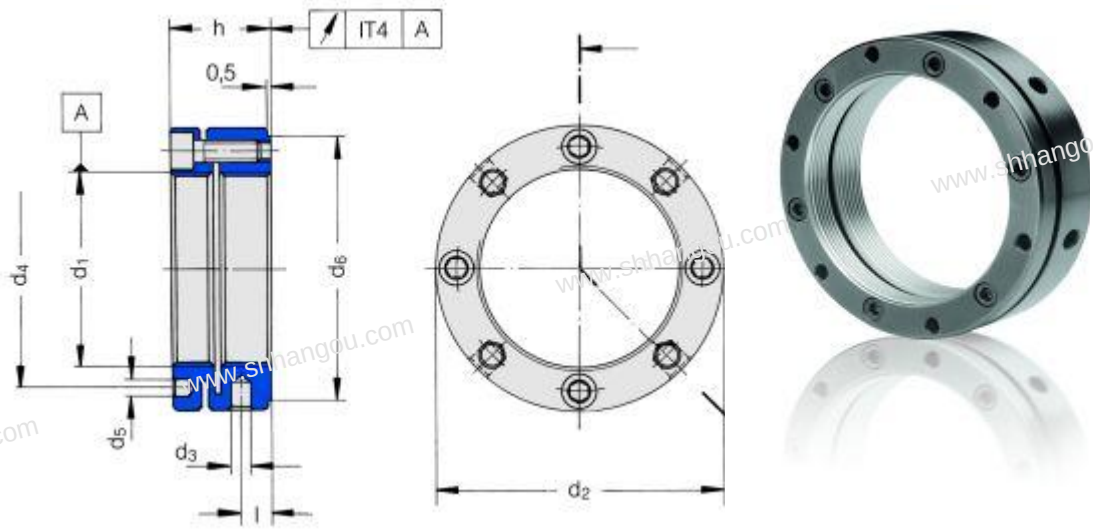
Locknut Series MSA



Designation of a locknut MSA with d1 = M80x2:
Locknut MSA 80.2

The admissable operating loads specified in the table are guidline values calculated with a safety margin of 1,6.

- under static stress relative to the minimum yield point
- under dynamic stress relative to the minimum alternate strength

The locknuts of series MSA with reduced contact surface and in some cases smaller outside diameters relative to the MSA series are **particulary suited** for mounting angular ball bearings and cylinder roller bearings of ISO diameter series 9.

Subject to changes.

Special versions:
On request, by sending of an explanatory sketch.

CAD	Code	Dimensions [mm]								clamping screws			factor	factor	adm. axial stress		Moment of inertia
	MSA	d1	d2	d3 *)	d4	d5 *)	d6	h	l	ISO 4762	MA [Nm]	No.	A [mm]	B [N]	dyn. [kN]	stat. [kN]	J [kgcm^2]
	20·1	M20x1	35	4	27,5	3,2	31	17	5,0	M3	2,0	5	1,281	3938	23	31	0,142
	25·1,5	M25x1,5	40	4	32,5	3,2	36	19	6,5	M3	2,0	5	1,633	3859	35	49	0,265
	30·1,5	M30x1,5	45	5	37,5	3,2	41	19	6,5	M3	2,0	5	1,921	3780	39	56	0,400
	35·1,5	M35x1,5	53	5	45,5	4,3	48	22	7,0	M4	2,9	4	2,210	3666	47	66	0,904
	40·1,5	M40x1,5	58	5	50,5	4,3	54	22	7,0	M4	2,9	4	2,500	3588	50	68	1,242
	45·1,5	M45x1,5	64	6	54,0	4,3	59	23	7,0	M4	2,9	5	2,789	4388	58	78	1,888
	50·1,5	M50x1,5	69	6	59,0	4,3	64	24	8,0	M4	2,9	6	3,079	5148	63	85	2,563

	55·1,5	M55x1,5	73	6	64,0	4,3	69	24	8,0	M4	2,9	6	3,369	5031	59	79	3,001
	60·1,5	M60x1,5	78	6	69,0	4,3	74	24	8,0	M4	2,9	6	3,655	4914	61	81	3,758
	65·1,5	M65x1,5	83	6	74,0	4,3	79	24	8,0	M4	2,9	7	3,948	5597	94	124	4,611
	70·1,5	M70x1,5	93	8	83,0	5,3	88	27	9,0	M5	6,0	6	4,238	7620	136	178	9,094
	75·1,5	M75x1,5	98	8	88,0	5,3	93	27	9,0	M5	6,0	6	4,525	7430	138	183	10,866
	80·2	M80x2	103	8	93,0	5,3	98	28	10,0	M5	6,0	6	4,873	7239	148	196	13,397
	85·2	M85x2	112	8	100,0	6,4	106	30	10,0	M6	10,0	6	5,168	9990	172	228	21,260
	90·2	M90x2	117	8	105,0	6,4	111	30	10,0	M6	10,0	6	5,453	9720	174	230	24,650
	95·2	M95x2	122	8	110,0	6,4	116	30	10,0	M6	10,0	6	5,744	9450	176	232	28,384

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	MSA	d1	d2	d3 *)	d4	d5 *)	d6	h	l	ISO 4762	MA [Nm]	No.	A [mm]	B [N]	dyn. [kN]	stat. [kN]	J [kgcm^2]
	100·2	M100x2	130	8	118,0	6,4	123	32	11,0	M6	10,0	6	6,033	9180	205	271	38,620
	105·2	M105x2	135	8	123,0	6,4	128	32	11,0	M6	10,0	6	6,321	8910	207	274	43,852
	110·2	M110x2	140	8	128,0	6,4	133	32	11,0	M6	10,0	6	6,616	8640	212	280	49,539
	120·2	M120x2	155	8	140,0	6,4	145	36	13,0	M6	10,0	6	7,193	8100	308	408	89,148
	130·3	M130x3	165	8	153,0	6,4	155	36	13,0	M6	10,0	6	7,895	7560	306	405	109,890
	140·3	M140x3	180	10	165,0	6,4	170	36	12,0	M6	10,0	8	8,475	9360	359	476	160,150
	150·3	M150x3	190	10	175,0	6,4	180	36	12,0	M6	10,0	8	9,050	8640	369	489	191,977
	160·3	M160x3	205	10	185,0	8,4	195	40	14,0	M8	25,0	8	9,633	14520	417	552	300,080
	170·3	M170x3	215	10	195,0	8,4	205	40	14,0	M8	25,0	8	10,213	13200	423	560	351,919
	180·3	M180x3	230	10	210,0	8,4	220	40	14,0	M8	25,0	8	10,789	11880	489	648	475,748
	190·3	M190x3	240	10	224,0	8,4	230	40	14,0	M8	25,0	8	11,362	10560	495	656	548,328
	200·3	M200x3	245	10	229,0	8,4	235	40	14,0	M8	25,0	8	11,948	9240	436	578	542,596