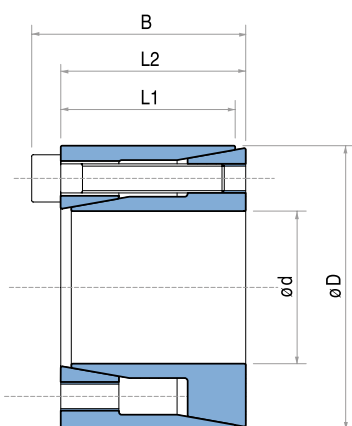


TLK 350

TLK 350 DIMENSIONS



Dimensions				Torque	Axial force	Surface pressures on		Tightening screws		Weight
						Shaft	Hub	DIN912 12.9	Tightening torque	
d x D mm	L1 mm	L2 mm	B mm	M _t Nm	F _{ax} KN	P _w N/mm ²	P _n N/mm ²	N° x Type	M _t Nm	Kg
6 x 16	10,5	11	13,5	9	3,0	184	69	3 x M2,5	1,2	0,012
6,35 x 16	10,5	11	13,5	10	3,0	173	69	3 x M2,5	1,2	0,012
7 x 17	10,5	11	13,5	11	3,0	157	65	3 x M2,5	1,2	0,013
8 x 18	10,5	11	13,5	12	3,0	138	61	3 x M2,5	1,2	0,015
9 x 20	12,5	13	15,5	18	4,0	138	62	4 x M2,5	1,2	0,020
9,53 x 20	12,5	13	15,5	19	4,0	130	62	4 x M2,5	1,2	0,020
10 x 20	12,5	13	15,5	20	4,0	124	62	4 x M2,5	1,2	0,019
11 x 22	12,5	13	15,5	22	4,0	113	56	4 x M2,5	1,2	0,024
12 x 22	12,5	13	15,5	24	4,0	104	56	4 x M2,5	1,2	0,022
14 x 26	16,5	17	20	42	6,0	99	53	4 x M3	2,1	0,039
15 x 28	16,5	17	20	44	6,0	93	50	4 x M3	2,1	0,044
16 x 32	16,5	17	21	83	10,4	152	76	4 x M4	4,9	0,067
17 x 35	20,5	21	25	88	10,4	116	56	4 x M4	4,9	0,090
18 x 35	20,5	21	25	93	10,4	109	56	4 x M4	4,9	0,087
19 x 35	20,5	21	25	99	10,4	104	56	4 x M4	4,9	0,083
20 x 38	20,5	21	26	170	17,0	161	85	4 x M5	10	0,100
22 x 40	20,5	21	26	187	17,0	146	80	4 x M5	10	0,110
24 x 47	25	26	32	287	24,0	153	78	4 x M6	17	0,200
25 x 47	25	26	32	299	24,0	147	78	4 x M6	17	0,190
25,4 x 47	25	26	32	304	24,0	144	78	4 x M6	17	0,180
28 x 50	25	26	32	503	36,0	196	110	6 x M6	17	0,220
30 x 55	25	26	32	539	36,0	183	100	6 x M6	17	0,270
32 x 55	25	26	32	575	36,0	172	100	6 x M6	17	0,250
35 x 60	30	31	37	838	48,0	176	102	8 x M6	17	0,360
38 x 65	30	31	37	910	48,0	162	95	8 x M6	17	0,430
40 x 65	30	31	37	958	48,0	154	95	8 x M6	17	0,400
42 x 75	35	36	44	1394	66,3	175	98	6 x M8	41	0,670
45 x 75	35	36	44	1493	66,3	163	98	6 x M8	41	0,630
48 x 80	35	36	44	2124	88,5	204	122	8 x M8	41	0,740
50 x 80	35	36	44	2212	88,5	196	122	8 x M8	41	0,700

Characteristics

- Medium-high torque
- Easy mounting
- Limited installation time
- Few clamping screws

Installation

Carefully clean the hub and shaft contact surfaces and apply a light oil film. Slide the locking assembly into the hub bore, insert the shaft and tighten gradually and regularly in crossed sequence all screws to reach the tightening torque M_t as indicated in the table. The values M_t and F_{ax} indicated in the table are valid only in case of oil installation.

Do not use any oil with **molibdenum bisulphide** or high pressure additives and not grease. Above substances notably reduce the friction coefficient.

Dismantling

Loosen the clamping screws. Insert the screws into the dismantling threading and tighten gradually and regularly in crossed sequence until the back cone is released. If the element is to be reused, relubricate both screws and threads.

Tolerances, surface finish

A good surface finish by the machine tool is sufficient.

Maximum allowable surface finish:
Rt max 16 μm (Ra 3 μm - Rz 13 μm)

Maximum permissible tolerances:

h8 for shaft

H8 for hub

Axial movement

TLK 350: during screws tightening the hub has a slight axial movement with respect to the shaft.

DM hub calculation

The pressure P_n in the hub can be compared to the inside pressure on a thick hollow cylinder.

For DM calculation see page 46.