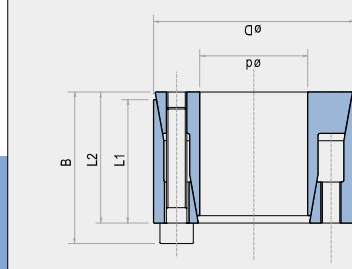


Locking assembly self-centering

TLK 350



TLK 350

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 **Ms** as indicated in the table. The values **Mt** and **F ass** indicated in the table are valid only in case of oil installation. Do not use any oil with **molybdenum 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.

dD mm	L1 mm	L2 mm	B mm	Torque		Axial Thrust F ass. kN	Surface pressures on		Tightening screws		Weight kg
				Mt Nm			Shaft Pw ² N/mm ²	hub Pm ² N/mm ²	DIN 912	Ns x29	
6 x 16	10,5	11	13,5	9	3	184	69	3 x M2,5	1,2	0,012	
6,35 x 16	10,5	11	13,5	10	3	173	69	3 x M2,5	1,2	0,012	
7 x 17	10,5	11	13,5	11	3	157	65	3 x M2,5	1,2	0,013	
8 x 18	10,5	11	13,5	12	3	138	61	3 x M2,5	1,2	0,015	
9 x 20	12,5	13	15,5	18	4	138	62	4 x M2,5	1,2	0,02	
9,53 x 20	12,5	13	15,5	19	4	130	62	4 x M2,5	1,2	0,02	
10 x 20	12,5	13	15,5	20	4	124	62	4 x M2,5	1,2	0,019	
11 x 22	12,5	13	15,5	22	4	113	56	4 x M2,5	1,2	0,024	
12 x 22	12,5	13	15,5	24	4	104	56	4 x M2,5	1,2	0,022	
14 x 26	16,5	17	20	42	6	99	53	4 x M3	2,1	0,039	
15 x 28	16,5	17	20	44	6	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	0,09	
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	161	85	4 x M5	10	0,11	
22 x 40	20,5	21	26	187	17	146	80	4 x M5	10	0,11	
24 x 47	25	26	32	287	24	153	78	4 x M6	17	0,2	
25 x 47	25	26	32	299	24	147	78	4 x M6	17	0,19	
25,4 x 47	25	26	32	304	24	144	78	4 x M6	17	0,18	
28 x 50	25	26	32	503	36	196	110	6 x M6	17	0,22	
30 x 55	25	26	32	539	36	183	100	6 x M6	17	0,27	
32 x 55	25	26	32	575	36	172	100	6 x M6	17	0,25	
35 x 60	30	31	37	838	48	176	102	8 x M6	17	0,36	
38 x 65	30	31	37	910	48	162	95	8 x M6	17	0,43	
40 x 65	30	31	37	958	48	154	95	8 x M6	17	0,4	
42 x 75	35	36	44	1384	66,3	175	98	6 x M8	41	0,67	
45 x 75	35	36	44	1493	66,3	163	98	6 x M8	41	0,63	
48 x 80	35	36	44	2124	88,5	204	122	8 x M8	41	0,74	
50 x 80	35	36	44	2212	88,5	196	122	8 x M8	41	0,7	

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.

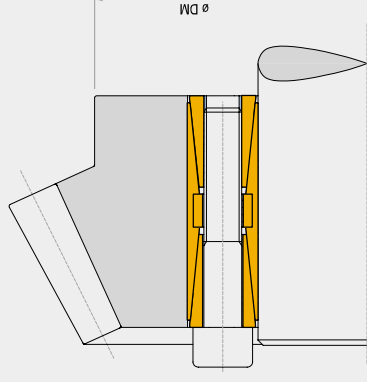
DM hub calculation

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

For DM calculation see page 38.

Locking assemblies self-centering patented

TLK 400 • TLK 401



TLK 400 • TLK 401

Characteristics

Very high torques
Capacity to withstand bending moments
Even pressures distribution
No shaft-hub axial movement

Dismantling

Loosen the clamping screws. Insert the screws into the dismantling threads of the front cone and tighten them gradually in crossed sequence up to 50% of the **Ms** value indicated in the table. Repeat the same operation by tightening the screws at the tightening torque **Ms** indicated in the table. When the front cone is loose, to release the rear cone, insert the screws in the middle ring, and repeat the same operation of the upper ring.

Tolerances, surface finish

A good surface finish by 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

During screws tightening the hub has no axial movement with respect to the shaft.

DM hub calculation

For DM hub calculation see page 38.

ATTENTION: In case of reuse of the TLK400 or TLK401 check that the position of the dismantling threads of the front cone and middle ring are like in new pieces.