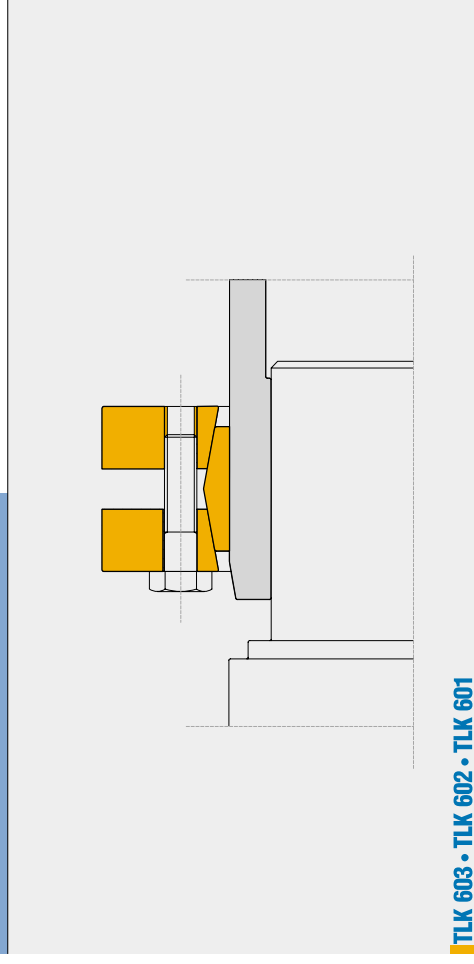


Shrink discs

TLK 603 • TLK 602 • TLK 601



TLK 603 • TLK 602 • TLK 601

Characteristics

Medium-high torque
No shaft-hub axial movement
Limited installation time
Quick dismantling

Installation

Carefully clean the hub and shaft contact surfaces. Slide the shrink disc outside the hollow shaft. Tighten gradually and regularly in continuous sequence all screws to reach the tightening torque **Ms** indicated in the table.
To reach the required tightening torque **Ms** it is necessary to repeat the procedure more than once.
Do not use **molybdenum bisulphide** in the hub and shaft contact surfaces.

Dismantling

Loosen the clamping screws in a continuous and gradual sequence. Do not remove screws from threads. Normally with this operation the shrink disc is released.
In case of reuse, apply a solid lubricant (that can guarantee a friction coefficient equal to 0,04) in the screws and in the tapered surfaces.

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:
d = h8 for shaft

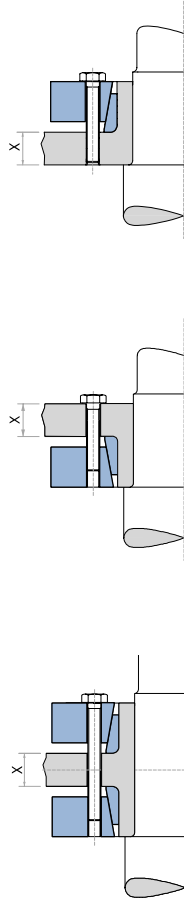
dw diameter tolerances

From 18 mm to 30 mm dw	H6/g6
From 30 mm to 50 mm dw	H6/h6
From 50 mm to 80 mm dw	H6/g6
From 80 mm to 500 mm dw	H7/g6

Axial movement

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

Shrink discs Special applications

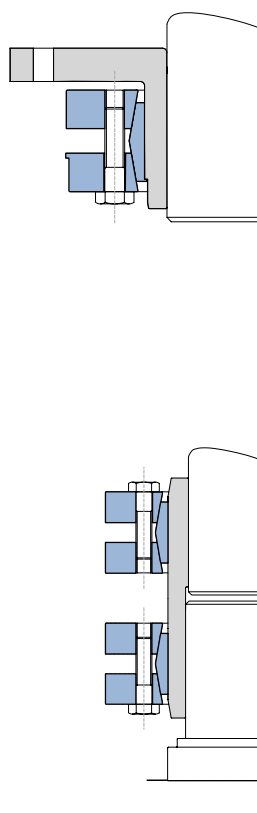


Split version

Half I version

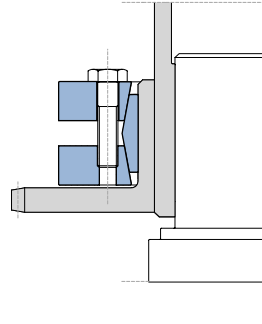
Half S version

When ordering please specify X dimension



Use of model TLK 603 as coupling
between different size shafts

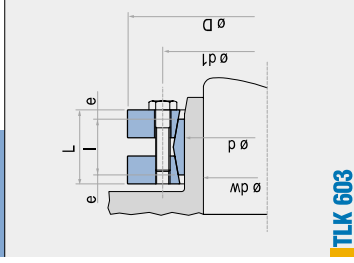
Special version equipped
with housing for brake



Contemporaneous locking of a sprocket and a hollow shaft.

Shrink disc standard version

TLK 603

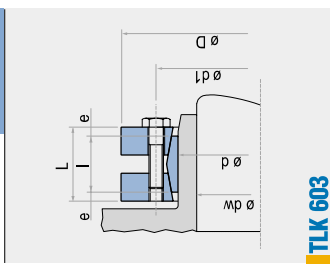


Type	Shaft diameter		Axial Thrust	Dimensions					Tightening screws DIN 931-10.9	Tightening torque Ms Nm	Weight kg
	d mm	dw mm		D mm	I mm	L mm	df mm	e mm			
14	11	12	6	38	7	11.0	23	2.00	4 x M5*	4	0.1
16	13	14	9	41	11	15.0	26	2.00	5 x M5*	4	0.1
24	19	20	27	50	14	19.5	36	2.75	6 x M5*	4	0.2
30	24	25	30	60	16	21.5	44	2.75	7 x M5*	4	0.3
36	28	30	33	72	18	23.5	52	2.75	5 x M6	12	0.4
44	32	35	64	80	20	25.5	61	2.75	7 x M6	12	0.6
50	38	40	79	90	22	27.5	70	2.75	8 x M6	12	0.8
55	42	44	88	100	23	30.5	75	3.75	8 x M6	12	1.1
62	48	50	100	110	23	30.5	86	3.75	10 x M6	12	1.3
68	55	58	106	115	23	30.5	86	3.75	10 x M6	12	1.4
75	60	63	119	138	25	32.5	100	3.75	7 x M8	30	1.7
80	65	68	124	145	25	32.5	100	3.75	7 x M8	30	1.9
85	65	68	124	155	30	39.0	114	4.50	10 x M8	30	3.5
90	75	78	150	155	30	39.0	114	4.50	10 x M8	30	3.3
100	75	78	150	170	34	44.0	124	5.00	12 x M8	30	4.7
110	85	88	185	185	39	50.0	136	5.50	9 x M10	59	5.9
115	85	88	185	188	39	50.0	141	5.50	9 x M10	59	5.5
120	85	88	185	215	42	54.0	160	6.00	12 x M10	59	9
125	85	88	185	215	42	54.0	160	6.00	12 x M10	59	8.3
130	95	98	210	215	42	54.0	160	6.00	12 x M10	59	8
140	95	98	210	230	46	60.5	175	7.25	10 x M12	100	10
155	105	108	247	265	50	64.5	192	7.25	12 x M12	100	15
160	110	113	260	265	50	64.5	192	7.25	12 x M12	100	14.5
165	115	118	275	290	56	71.0	210	7.50	8 x M16	250	22

To be continued...

Shrink disc standard version

TLK 603

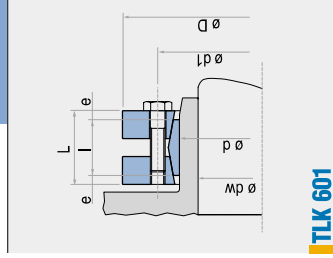


Type	Shaft diameter		Torque Mt Nm	Axial Thrust F ass. kN	Dimensions					Tightening screws DIN 931-10.9	Tightening torque Ms Nm	Weight kg
	d mm	dw mm			D mm	I mm	L mm	df mm	e mm			
170	120	125	31900	610	290	56	71	210	7.5	8 x M16	250	21
175	125	130	36000	605	300	56	71	220	7.5	8 x M16	250	22
180	130	135	37000	800	300	56	71	220	7.5	8 x M16	250	21
185	135	140	42200	840	300	56	71	220	7.5	8 x M16	250	21
190	140	145	46300	885	330	71	86	236	7.5	10 x M16	250	37
195	145	150	53500	800	330	71	86	236	7.5	10 x M16	250	36
200	150	155	58700	840	350	71	86	246	7.5	12 x M16	250	41
200	155	160	63800	885	350	71	86	246	7.5	12 x M16	250	41
220	160	165	74000	990	370	88	104	270	8.0	15 x M16	250	54
240	170	175	80000	1035	405	92	109	295	8.5	12 x M20	490	67
260	180	185	86000	1080	430	103	120	321	8.5	14 x M20	490	82
280	190	195	95000	1190	460	114	134	346	10.0	16 x M20	490	102
300	200	205	102000	1239	485	122	142	364	10.0	18 x M20	490	118
320	210	215	109200	1290	520	122	142	366	10.0	20 x M20	490	131
340	220	225	116400	1341	570	134	156	408	11.0	24 x M20	490	186
360	230	235	123600	1392	580	140	162	432	11.0	24 x M20	490	195
380	240	245	130800	1443	590	140	162	432	11.0	24 x M20	490	204
390	250	255	138000	1494	645	144	168	458	12.0	20 x M24	840	239
400	260	265	145200	1545	660	144	168	468	12.0	21 x M24	840	260
420	270	275	152400	1596	680	144	168	480	12.0	21 x M24	840	280
440	280	285	159600	1647	690	164	188	504	12.0	24 x M24	840	316
460	290	295	166800	1698	750	177	202	527	12.5	24 x M24	840	408
480	300	305	174000	1749	770	177	202	547	12.5	28 x M24	840	420
	380	385	240000	2300	800	188	213	570	12.5	30 x M24	840	505

For larger diameter please contact us

Shrink disc light version

TLK 601



Type	Shaft diameter d mm	Torque		Axial Thrust F _{ax.} kN	Dimensions							Tightening screws DN 351-0.9	Tightening torque M _s Nm	Weight kg
		Mt Nm	F _{ax.} kN		D mm	J mm	L mm	d1 mm	e mm					
125	95	10550	220	185	39	51	158	6	8 x M10	59	6			
	100	12100	240	105	13800	260								
	105	13800	260											
140	110	14800	265	220	39	51	175	6	9 x M10	59	8			
	120	18640	310	125	20500	325								
	125	20500	325											
155	130	24000	365	245	39	51	192	6	11 x M10	59	10			
	135	26400	390	140	29000	410								
	140	29000	410											
165	135	32000	475	280	46	62	210	8	10 x M12	100	14			
	140	35200	500	145	38500	530								
	145	38500	530											
175	145	39000	535	275	46	62	220	8	11 x M12	100	16			
	150	42400	560	155	46000	590								
	155	46000	590											
185	155	46000	600	295	46	62	225	8	12 x M12	100	20			
	160	50300	625	165	54000	650								
	165	54000	650											
195	165	63000	760	315	56	72	237	8	15 x M12	100	27			
	170	67700	795	175	72500	825								
	175	72500	825											
200	175	72500	850	330	56	72	242	8	16 x M12	100	30			
	180	79500	890	185	84500	915								
	185	84500	915											
220	180	82800	920	345	66	84	265	9	10 x M16	250	35			
	190	93500	980	200	105000	1055								
	200	105000	1055											
240	200	113000	1135	370	66	84	290	9	12 x M16	250	44			
	210	127500	1210	215	134500	1250								
	215	134500	1250											
260	220	149000	1350	395	72	92	310	10	14 x M16	250	48			
	230	165000	1435	230	173000	1475								
	235	173000	1475											
280	230	171000	1485	425	84	104	333	10	16 x M16	250	60			
	240	189000	1570	250	216000	1660								
	250	216000	1660											
300	250	216000	1720	460	84	104	358	10	18 x M16	250	75			
	260	234000	1800	270	235000	1890								
	270	235000	1890											
320	270	260000	1940	485	84	106	378	11	20 x M16	250	84			
	280	284000	2030	290	306000	2125								
	280	306000	2125											
340	290	300000	2070	535	84	106	402	11	21 x M16	250	100			
	300	324400	2160	305	337000	2210								
	305	337000	2210											
350	300	372000	2495	545	100	122	413	11	16 x M20	490	120			
	310	385000	2540	310	400000	2690								
	310	400000	2690											
360	300	360000	2400	555	100	122	423	11	16 x M20	490	125			
	310	388000	2500	320	415000	2690								
	320	415000	2690											
380	320	435000	2720	585	112	136	442	12	18 x M20	490	150			
	330	451000	2780	330	467000	2835								
	330	467000	2835											
390	330	505000	3060	595	112	136	452	12	20 x M20	490	156			
	340	540000	3175	340	577000	3295								
	350	577000	3295											
400	340	550000	3235	615	112	136	462	12	21 x M20	490	170			
	350	587000	3360	350	626000	3480								
	360	626000	3480											
420	350	578000	3300	630	120	144	485	12	22 x M20	490	185			
	360	617000	3425	370	655000	3545								
	370	655000	3545											
440	370	677000	3660	660	120	144	505	12	24 x M20	490	205			
	380	719000	3785	390	762000	3910								
	390	762000	3910											
460	390	840000	4320	665	132	156	527	13	28 x M20	490	235			
	400	890000	4460	410	935000	4580								
	410	935000	4580											

For larger diameter please contact us.