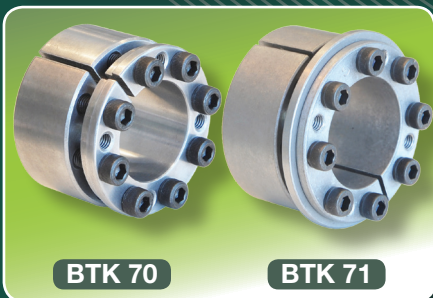
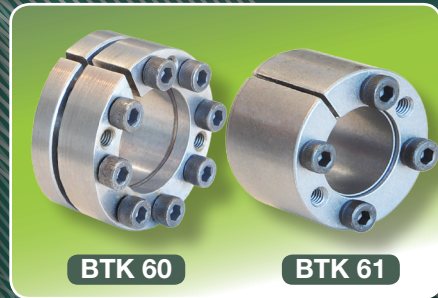
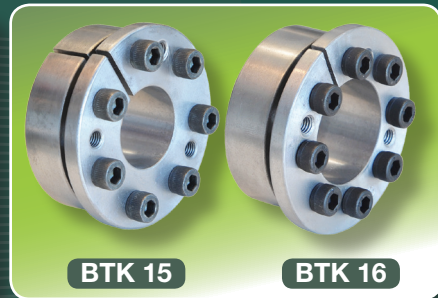




L - Locking devices

Moyeux de serrage



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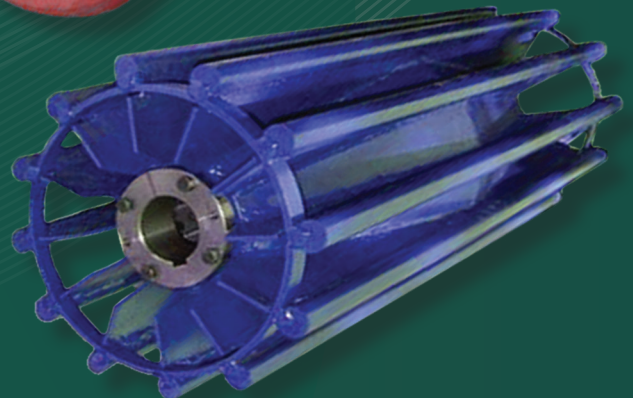
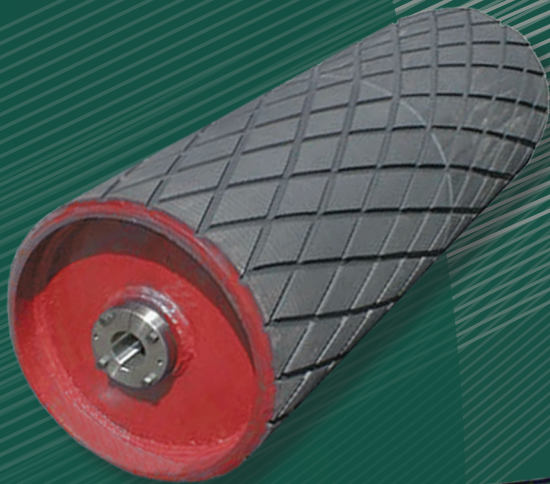
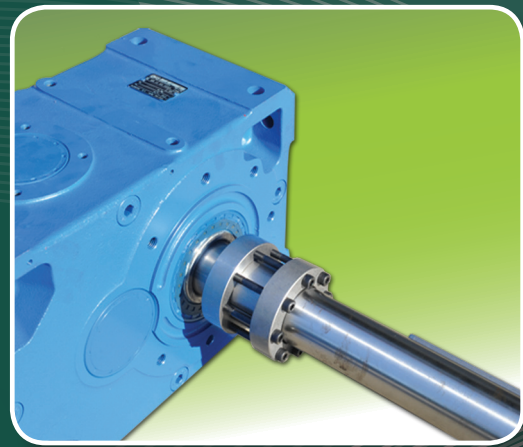
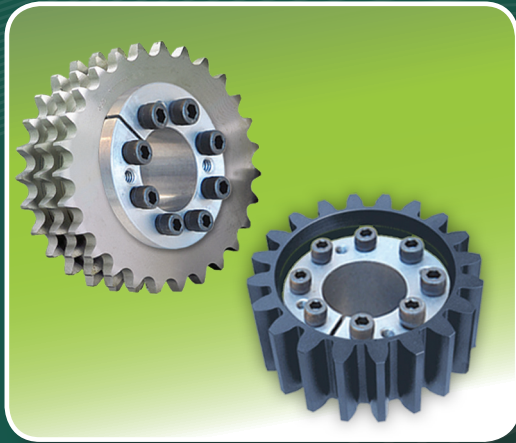




Locking devices
Moyeux de serrage

LOCKING DEVICES

APPLICATIONS





BTK general info: Locking Devices

DESIGN FEATURES

BTK Locking Devices are well suited to transmit torque, bending; thrust, and radial loads. Proper selection results in a zero backlash connection free of wear even under severe reversing loads.

Use the following criteria to aid in selecting the right unit for your application.

TORQUE

T = peak drive torque = nominal torque multiplied by a variable safety factor to account for stall or start-up conditions, mass accelerations, impact loads, etc. Nominal drive torque can be calculated as follows:

$$M_{tnom} = 9550 \times P / n \quad M_t \text{ (Nm)} \quad P \text{ (kW)} \\ n \text{ (rpm)}$$

M_t = rated torque capacity of BTK Locking devices with all screws tightened to specified torque. M_A as listed in specifications. Tabular values are calculated without using a safety factor and should be considered as the point where a connection could slip if a higher torque is applied. Therefore, you should always select a unit where $M_t \geq T$.

Torque capacity and contact pressures are a linear function of locking screw tightening torque and may be varied if this is advantageous for certain applications by changing M_A within the following limits:

- Series BTK 40 : up to 20% higher or up to 20% lower
- Series BTK 13 : up to 20% lower
- Series BTK 16 : up to 20% lower
- Series BTK 19 : up to 20% lower
- Series BTK 70 / BTK 71 : up to 20% lower
- Series BTK 11 : up to 40% lower

In installations where two or more BTK Locking Devices are arranged in series with access to locking screws from one side only, total torque capacity is not a linear function of the number of units applied. In these situations, the factor f should be used to compute total torque capacity, as follows :

$$M_{t \text{ total}} = n \times M_t \times f_{mu}$$

Factors "f _{mu} " for determining total torque capacity in multiple unit Locking Device installations			
Locking Device Type	n = number of units in serie		
	2	3	4
BTK 13	.80	.75	.70
BTK 40	.78	.73	.68
BTK 11	.85	N/A	N/A

THRUST

F_{ax} = transmissible thrust, determined by using the following equation:

$$F_{ax} = \frac{2 \times M_t}{d} \quad \begin{matrix} M_t \text{ (Nm)} \\ d \text{ (mm)} \\ F_{ax} \text{ (kN)} \end{matrix}$$

TORQUE AND THRUST COMBINED

Simultaneous transmission of torque and thrust requires calculating a resultant torque:

$$M_{tres} = \sqrt{T^2 + (F \times D/2)^2}, \text{ where:}$$

- T = peak drive torque (Nm)
- F = peak thrust load (N)
- D = shaft diameter (m)
- Select a unit where $M_t \geq M_{tre}$

BENDING MOMENTS

Bending moments are a crucial sizing factor in applications where a radial load from chain pull, the weight of components, etc., acts significantly outside the locking assembly centerline. Typical applications include rolls or conveyor pulleys where shaft deflection due to radial loads results in a bending moment between shaft and end disc. Generally, bending moments change from a positive to a negative value during each rotation and are designated as rotating or reversing bending moments.

BTK Locking Devices are well suited to transmit rotating/reversing bending moments. As a result of numerous successful heavy-duty applications in conveyor pulleys and pertinent investigations by independent institutions, the following bending moment capacities apply :

Series	Bending Moment Capacity
BTK 40	= 0.22 x M_t
BTK 13	= 0.28 x M_t
BTK 16	= 0.28 x M_t
BTK 19	= 0.28 x M_t
BTK 70 / BTK71	= 0.28 x M_t
BTK 80	= 0.28 x M_t
BTK 11	= 0.32 x M_t

TORQUE AND BENDING COMBINED

Simultaneous transmission of torque and bending requires calculating a resultant torque :

$$M_{tb} = \sqrt{T^2 + (2M_b)^2}, \text{ where:}$$

- T = peak drive torque (Nm)
- M_b = bending moment (Nm)
- M_{tb} (Nm)

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.



Locking devices *Moyeux de serrage*



BTK 11

Self-centering
Very high torque
Available from Ø 25 mm to 600 mm
Even pressures distribution

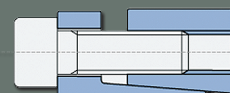
Autocentrant
Couple très élevé
Pour arbre de diamètre 25 à 600 mm
Pression sur arbre et moyeu uniformément répartie



BTK 13

Self-centering
Medium-high torque
Available from Ø 18 mm to 400 mm

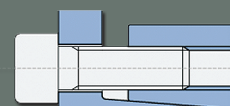
Autocentrant
Couple moyen/élevé
Pour arbre de diamètre 18 à 400 mm



BTK 15

Self-centering
Medium torque
Available from Ø 14 mm to 50 mm

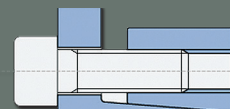
Autocentrant
Couple moyen
Pour arbre de diamètre 14 à 50 mm



BTK 16

Self-centering
Medium torque
Available from Ø 18 mm to 400 mm

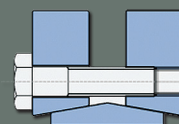
Autocentrant
Couple moyen
Pour arbre de diamètre 18 à 400 mm



BTK 19

Self-centering
High / very high torque
Available from Ø 24 mm to 165 mm
Quick installation time

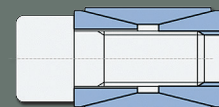
Autocentrant
Couple élevé/très élevé
Pour arbre de diamètre 24 à 165 mm
Temps de montage limités



BTK 40

Not self-centering
Medium torque
Available from Ø 19 mm to 1000 mm
Self dismantling

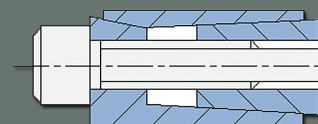
Pas autocentrant
Couple moyen
Pour arbre de diamètre 20 à 900 mm
Démontage rapide



BTK 45

Not self-centering
Medium torque
Available from Ø 18 mm to 85 mm

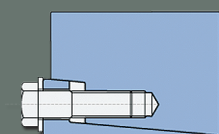
Pas autocentrant
Couple moyen
Pour arbre de diamètre 18 à 85 mm



BTK 47

Self-centering
High / very high torque
Available from Ø 24 mm to 800 mm
Quick installation time

Autocentrant
Couple élevé/très élevé
Pour arbre de diamètre 24 à 800 mm
Temps de montage limités



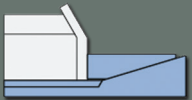


BTK 50

Not self-centering
Low torque
Available from Ø 6 mm to 400 mm
Restricted radial encumbranc

Pas autocentrant
Couple faible
Pour arbre de diamètre 6 à 400 mm
Faible encombrement radia

L18 - L19

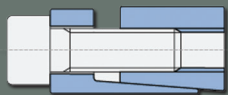


BTK 55

Low torque
Available from Ø 14 mm to 60 mm
Self-centering

Couple faible
Pour arbre de diamètre 14 à 60 mm
Autocentrant

L20



BTK 60

Self-centering
Medium-high torque
Available from Ø 20 mm to 70 mm

Autocentrant
Couple moyen/élevé
Pour arbre de diamètre 20 à 70 mm

L21

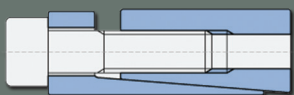


BTK 61

Self-centering
Medium-high torque
Available from Ø 10 mm to 50 mm
Restricted radial encumbrance

Autocentrant
Couple moyen/élevé
Pour arbre de diamètre 10 à 50 mm
Faible encombrement radial

L22

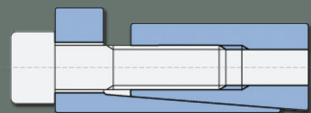


BTK 70

Self-centering
High torque
Available from Ø 19 mm to 400 mm
Quick installation time

Autocentrant
Couple élevé
Pour arbre de diamètre 19 à 400 mm
Temps de montage réduit

L23 - L24

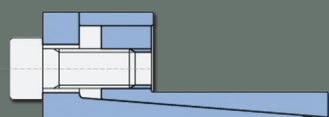


BTK 71

Self-centering
Medium torque
Available from Ø 19 mm to 400 mm
Low surface pressures

Autocentrant
Couple moyen/élevé
Pour arbre de diamètre 19 à 400 mm
Pression de surface réduite

L25 - L26



BTK 80

Self-centering
Medium-high torque
Available from Ø 6 mm to 150 mm
Restricted radial encumbrance

Autocentrant
Couple moyen/élevé
Pour arbre de diamètre 6 à 150 mm
Faible encombrement radia

L27 - L28



BTK 90

Rigid coupling
Medium torque
Available from Ø 17 mm to 70 mm
Quick installation and dismantling

Accouplement rigide
Couple moyen
Pour arbre de diamètre 17 à 70 mm
Montage et démontage rapides

L29

BTK 11 Locking devices

Moyeux de serrage

Installation and removal instructions

Installation

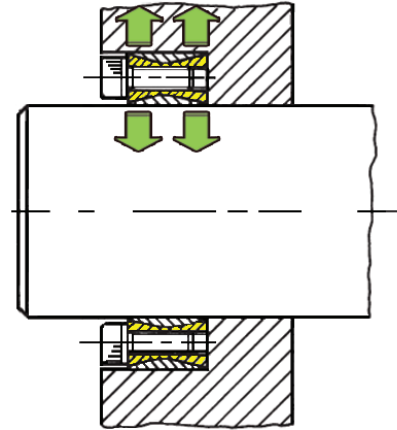
1. It is of great importance that the condition of the contact surfaces (rings, shaft and hub) are clean and lightly oiled by installation.
2. Tighten the locking screws lightly together with hub aligning.
3. Tighten the screws evenly (see table "locking torque") in diametrically opposite sequence in 2 or 3 steps.
4. Repeat this operation until the tightening torque is reached, by using the dynamometric screw-driver.

Removal

1. BTK locking devices are not self-locking. The taper of the individual rings is such that the inner and outer rings spring individual apart by untightening the last screw.
2. Loosen gradually the locking screws. Transfer the locking screws into the releasing tapped holes and tighten them until the front cone is released, than loosen the locking screws again. Mount the locking screws into the releasing holes of the intermediate ring and tighten them again till the inside cone (yellow color) is released.

Maximum allowable roughness

16 μm .



Locking devices consists of 4 pieces with 2 inside double-cone rings joined through a set of tightening screws.

As you can see on the above picture the locking device is tightening at the same time as well on the shaft, as on the hub.(pulley, sprocket, roller etc.)

Advantages

Easy assembling or disassembling with a large variety of interchangeability.

Locking devices can be used to substitute key.

The shaft and bore needs no high precise tolerances for mounting the BTK locking device.

Adjustment or positioning on the shaft saves a lot of time.

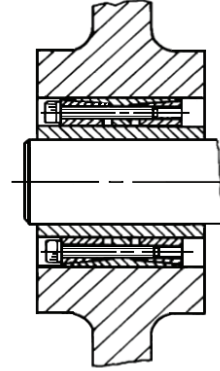
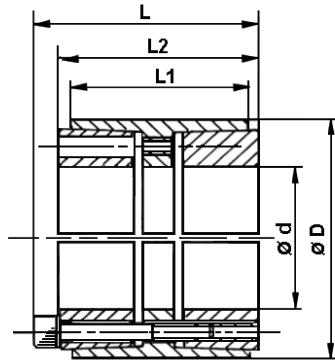
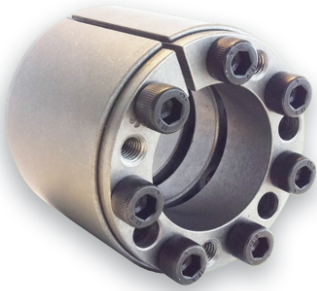
By working in condition of overload, the locking device will lose connection to protect all equipment of damages.

Material saving by reduced shaft and/or hub dimensions.

Long service life and high intensity.

Suitable for rotating applications clockwise and counterclockwise.

BTK 11 Locking devices Moyeux de serrage

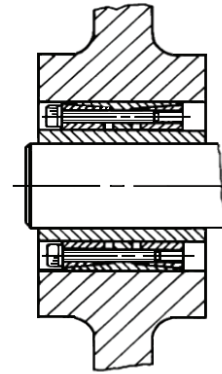
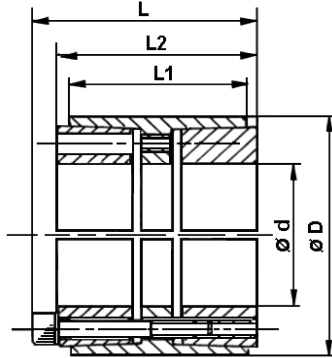
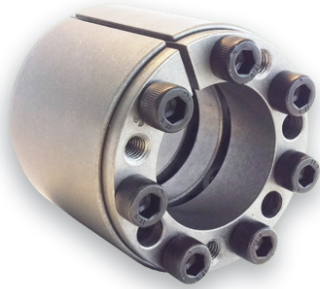


BTK 11	Dimensions of locking devices			Transmitted Axial Force kN	Transmitted Torque Nm	Contact pressure		Locking screws DIN 912 - Mat. 12.9		Locking Torque Nm
	ø d x ø D	L1	L2			L	Shaft h8 N/mm ²	Hub H8 N/mm ²	N°	
25 x 55	32	40	46	64	799	291	99	6	M6 x 35	17
28 x 55	32	40	46	64	895	259	99	6	M6 x 35	17
30 x 55	32	40	46	64	959	243	99	6	M6 x 35	17
35 x 60	44	54	60	75	1306	161	85	7	M6 x 45	17
38 x 75	44	54	62	135	2696	289	113	7	M8 x 50	41
40 x 75	44	54	62	135	2843	276	113	7	M8 x 50	41
42 x 75	44	54	62	135	2981	262	113	7	M8 x 50	41
45 x 75	44	54	62	135	3196	246	113	7	M8 x 50	41
48 x 80	44	54	62	154	3873	203	96	8	M8 x 50	41
50 x 80	56	64	72	154	4069	196	96	8	M8 x 50	41
55 x 85	56	64	72	174	5050	201	101	9	M8 x 50	41
60 x 90	56	64	72	193	6080	198	103	10	M8 x 50	41
65 x 95	56	64	72	193	6619	183	98	10	M8 x 50	41
70 x 110	70	78	88	313	11277	218	111	10	M10 x 60	83
75 x 115	70	78	88	313	12062	218	111	10	M10 x 60	83
80 x 120	70	78	88	344	14219	210	112	11	M10 x 60	83
85 x 125	70	78	88	376	15102	210	112	12	M10 x 60	83
90 x 130	70	78	88	376	17455	203	112	12	M10 x 60	83
95 x 135	70	78	88	376	18388	203	112	12	M10 x 60	83
100 x 145	90	100	112	501	25791	196	104	11	M12 x 80	145
110 x 155	90	100	112	546	31184	194	107	12	M12 x 80	145
120 x 165	90	100	112	637	39618	207	117	14	M12 x 80	145
130 x 180	104	116	130	743	50503	188	109	12	M14 x 90	230
140 x 190	104	116	130	866	63470	204	121	14	M16 x 110	230
150 x 200	104	116	130	928	72790	204	124	15	M16 x 110	230

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 11 Locking devices

Moyeux de serrage

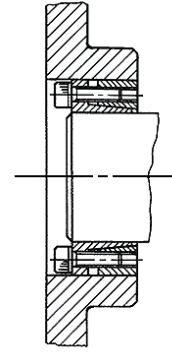
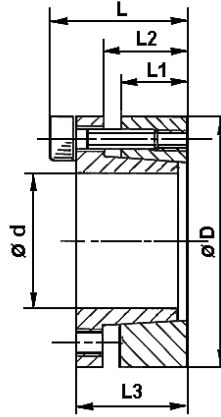


BTK 11	Dimensions of locking devices			Transmitted Axial Force kN	Transmitted Torque Nm	Contact pressure		Locking screws DIN 912 - Mat. 12.9		Locking Torque Nm
	ø d x ø D	L1	L2			L	Shaft h8 N/mm ²	Hub H8 N/mm ²	N°	
160 x 210	104	116	130	990	82890	204	125	16	M16 x 110	230
170 x 225	134	148	164	1186	106000	178	110	14	M16 x 110	360
180 x 235	134	148	164	1271	120900	180	112	15	M16 x 110	360
190 x 250	134	148	164	1356	131250	182	113	16	M16 x 110	360
200 x 260	134	148	164	1356	143220	173	110	16	M16 x 110	360
220 x 285	134	148	164	1526	177560	184	112	18	M16 x 110	360
240 x 305	134	148	164	1626	213850	180	116	20	M16 x 110	360
260 x 325	134	148	164	1707	245250	174	114	21	M16 x 110	360
280 x 355	165	177	197	2244	353160	181	115	18	M20 x 130	690
300 x 375	165	177	197	2494	374042	188	120	20	M20 x 130	690
320 x 405	165	177	197	2618	418936	183	134	21	M20 x 130	690
340 x 425	165	177	197	3208	466307	180	134	22	M20 x 130	690
360 x 455	190	203	225	3361	577426	173	130	21	M22 x 150	930
380 x 475	190	203	225	3666	638541	172	130	22	M22 x 150	930
400 x 495	190	203	225	3666	733255	178	137	24	M22 x 150	930
420 x 515	190	203	225	3666	769918	169	131	24	M22 x 150	930
440 x 535	190	203	225	3666	807670	162	130	24	M22 x 150	930
460 x 555	190	203	225	3666	644390	155	128	24	M22 x 150	930
480 x 575	190	203	225	4275	1027650	173	145	28	M22 x 150	930
500 x 595	190	203	225	4275	1071000	166	140	28	M22 x 150	930
520 x 595	190	203	225	4600	1193400	171	144	30	M22 x 150	930
540 x 635	190	203	225	4600	1239300	164	139	30	M22 x 150	930
560 x 655	190	203	225	4896	1371050	169	144	32	M22 x 150	930
580 x 675	190	203	225	4896	1419500	163	141	32	M22 x 150	930
600 x 695	190	203	225	5040	1514700	163	141	33	M22 x 150	930

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 13

LOCKING DEVICES MOYEURS DE SERRAGE

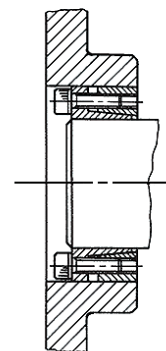
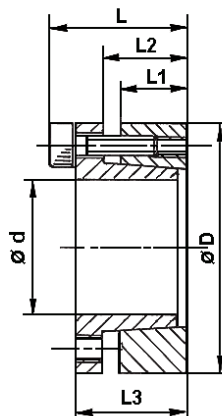


BTK 13	Dimensions of locking devices				Transmitted Axial Force kN	Transmitted Torque Nm	Contact pressure		Locking screws DIN 912 - Mat. 12.9		Locking Torque Nm
	ø d x ø D	L1	L2	L3			L	Shaft h8 N/mm ²	Hub H8 N/mm ²	N°	
18 x 47	17	22	28	34	29	350	280	120	5	M6 x 20	13
19 x 47	17	22	28	34	29	355	280	120	5	M6 x 20	13
20 x 47	17	22	28	34	29	360	280	120	5	M6 x 20	13
22 x 47	17	22	28	34	29	400	268	123	5	M6 x 20	13
24 x 50	17	22	28	34	34	440	243	120	6	M6 x 20	13
25 x 50	17	22	28	34	34	560	280	138	6	M6 x 20	13
28 x 55	17	22	28	34	34	625	250	128	6	M6 x 20	13
30 x 55	17	22	28	34	34	650	235	128	6	M6 x 20	13
32 x 60	17	22	28	34	46	950	290	150	8	M6 x 20	13
35 x 60	17	22	28	34	46	1050	268	150	8	M6 x 20	13
38 x 60	17	22	28	34	46	1140	252	146	8	M6 x 20	13
40 x 65	17	22	28	34	46	1200	232	146	8	M8 x 25	13
45 x 75	20	25	33	41	74	2180	285	168	7	M8 x 25	32
50 x 80	20	25	33	41	74	2430	258	158	7	M8 x 25	32
55 x 85	20	25	33	41	85	3050	268	173	8	M8 x 25	32
60 x 90	20	25	33	41	85	3350	243	163	8	M8 x 25	32
65 x 95	20	25	33	41	96	4080	253	173	9	M8 x 25	32
70 x 110	24	30	40	50	138	6280	278	178	8	M10 x 30	65
75 x 115	24	30	40	50	138	6680	258	168	8	M10 x 30	65
80 x 120	24	30	40	50	138	7130	248	168	8	M10 x 30	65
85 x 125	24	30	40	50	156	8450	258	178	9	M10 x 30	65
90 x 130	24	30	40	50	156	9080	248	168	9	M10 x 30	65
95 x 135	24	30	40	50	173	10580	258	178	10	M10 x 30	65
100 x 145	26	32	44	56	195	13380	268	188	8	M12 x 35	110
110 x 155	26	32	44	56	195	14580	238	178	8	M12 x 35	110

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 13 Locking devices

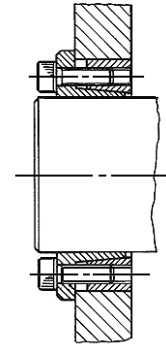
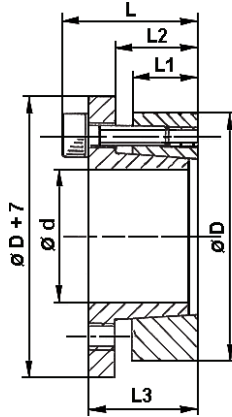
Moyeux de serrage



BTK 13	Dimensions of locking devices				Transmitted Axial Force kN	Transmitted Torque Nm	Contact pressure		Locking screws DIN 912 - Mat. 12.9		Locking Torque Nm
	ø d x ø D	L1	L2	L3			L	Shaft h8 N/mm ²	Hub H8 N/mm ²	N°	
120 x 165	26	32	44	56	219	17880	248	178	9	M12 x 35	110
130 x 180	34	40	52	64	292	25950	238	168	12	M12 x 35	110
140 x 180	34	40	54	68	291	26950	208	148	9	M14 x 40	170
150 x 200	34	40	54	68	323	32950	228	168	10	M14 x 40	170
160 x 210	34	40	54	68	355	37900	228	168	11	M14 x 40	170
170 x 225	44	50	64	78	387	44900	188	128	12	M14 x 40	170
180 x 235	44	50	64	78	387	46900	168	128	12	M14 x 40	170
190 x 250	44	50	64	78	484	47996	171	130	15	M14 x 40	170
200 x 260	44	50	64	78	484	48416	162	125	15	M14 x 40	170
220 x 285	50	56	75	91	548	60291	147	113	12	M16 x 50	275
240 x 305	50	56	75	91	685	82218	168	132	15	M16 x 50	275
260 x 325	50	56	75	91	731	95009	166	133	16	M16 x 50	275
280 x 355	60	66	87	105	910	127341	160	126	16	M18 x 50	385
300 x 375	60	66	87	105	1023	153479	168	134	18	M18 x 50	385
320 x 405	74	81	101	121	1388	222065	140	110	18	M20 x 50	580
340 x 425	74	81	101	121	1619	275271	153	123	21	M20 x 50	580
360 x 455	86	94	116	138	1697	305480	131	104	18	M22 x 60	780
380 x 475	86	94	116	138	1980	376193	145	116	21	M22 x 60	780
400 x 495	86	94	116	138	1980	395993	111	111	21	M22 x 60	780

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 15 Locking devices Moyeux de serrage

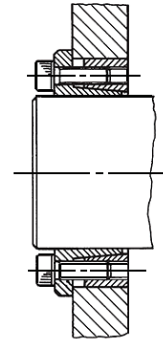
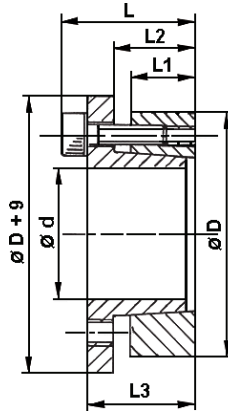


BTK 15	Dimensions of locking devices				Transmitted Axial Force kN	Transmitted Torque Nm	Contact pressure		Locking screws DIN 912 - Mat. 12.9		Locking Torque Nm
	ø d x ø D	L1	L2	L3			L	Shaft h8 N/mm ²	Hub H8 N/mm ²	N°	
14 x 55	17	22	31	39	33	282	458	118	4	M8 x 25	37
16 x 55	17	22	31	39	33	313	400	118	4	M8 x 25	37
18 x 55	17	22	31	39	37	353	356	118	4	M8 x 25	41
19 x 55	17	22	31	39	37	372	337	118	4	M8 x 25	41
20 x 55	17	22	31	39	37	392	320	118	4	M8 x 25	41
22 x 55	17	22	31	39	37	431	290	118	4	M8 x 25	41
24 x 55	17	22	31	39	37	470	265	118	4	M8 x 25	41
25 x 55	17	22	31	39	37	490	255	118	4	M8 x 25	41
28 x 55	17	22	31	39	37	549	228	118	4	M8 x 25	41
30 x 55	17	22	31	39	37	588	213	118	4	M8 x 25	41
24 x 65	17	22	31	39	46	617	332	122	5	M8 x 25	41
25 x 65	17	22	31	39	46	637	320	122	5	M8 x 25	41
28 x 65	17	22	31	39	46	725	285	122	5	M8 x 25	41
30 x 65	17	22	31	39	46	764	267	122	5	M8 x 25	41
32 x 65	17	22	31	39	46	823	250	122	5	M8 x 25	41
35 x 65	17	22	31	39	46	902	228	122	5	M8 x 25	41
38 x 65	17	22	31	39	46	970	210	122	5	M8 x 25	41
40 x 65	17	22	31	39	46	1029	200	122	5	M8 x 25	41
30 x 80	20	22	33	41	65	1082	315	120	7	M8 x 25	41
32 x 80	20	25	33	41	65	1155	298	120	7	M8 x 25	41
35 x 80	20	25	33	41	65	1260	272	120	7	M8 x 25	41
38 x 80	20	25	33	41	65	1370	250	120	7	M8 x 25	41
40 x 80	20	25	33	41	65	1440	238	120	7	M8 x 25	41
42 x 80	20	25	33	41	65	1510	226	120	7	M8 x 25	41
45 x 80	20	25	33	41	65	1620	212	120	7	M8 x 25	41
48 x 80	20	25	33	41	65	1735	198	120	7	M8 x 25	41
50 x 80	20	25	33	41	65	1806	120	120	7	M8 x 25	41

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 16

Locking devices Moyeux de serrage

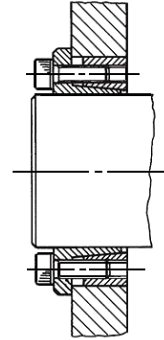
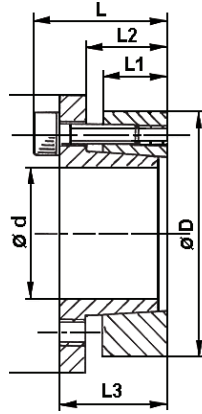


BTK 16	Dimensions of locking devices				Transmitted Axial Force kN	Transmitted Torque Nm	Contact pressure		Locking screws DIN 912 - Mat. 12.9		Locking Torque Nm
	$\varnothing d \times \varnothing D$	L1	L2	L3			L	Shaft h8 N/mm ²	Hub H8 N/mm ²	N°	
18 x 47	17	22	28	34	26	264	215	93	5	M6 x 20	17
19 x 47	17	22	28	34	26	274	215	93	5	M6 x 20	17
20 x 47	17	22	28	34	26	284	215	93	5	M6 x 20	17
22 x 47	17	22	28	34	26	314	196	93	5	M6 x 20	17
24 x 50	17	22	28	34	31	401	215	107	6	M6 x 20	17
25 x 50	17	22	28	34	31	441	210	107	6	M6 x 20	17
28 x 55	17	22	28	34	31	490	196	98	6	M6 x 20	17
30 x 55	17	22	28	34	31	529	186	98	6	M6 x 20	17
32 x 60	17	22	28	34	41	755	210	112	8	M6 x 20	17
35 x 60	17	22	28	34	41	824	186	107	8	M6 x 20	17
38 x 60	17	22	28	34	41	892	210	112	8	M6 x 20	17
40 x 65	17	22	28	34	41	941	186	102	8	M8 x 25	17
45 x 75	20	25	33	41	65	1716	191	132	7	M8 x 25	41
50 x 80	20	25	33	41	65	1893	186	127	7	M8 x 25	41
55 x 85	20	25	33	41	74	2403	225	132	8	M8 x 25	41
60 x 90	20	25	33	41	74	2648	205	122	8	M8 x 25	41
65 x 95	20	25	33	41	83	3188	210	132	9	M8 x 25	41
70 x 110	24	30	40	50	120	4905	186	137	8	M10 x 30	83
75 x 115	24	30	40	50	120	5150	196	127	8	M10 x 30	83
80 x 120	24	30	40	50	120	5300	215	122	8	M10 x 30	83
85 x 125	24	30	40	50	135	6620	195	132	9	M10 x 30	83
90 x 130	24	30	40	50	135	6960	185	127	9	M10 x 30	83
95 x 135	24	30	40	50	150	8190	195	137	10	M10 x 30	83
100 x 145	26	32	44	56	175	10100	185	145	8	M12 x 35	145
110 x 155	26	32	44	56	175	11030	195	135	8	M12 x 35	145

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 16

Locking devices Moyeux de serrage

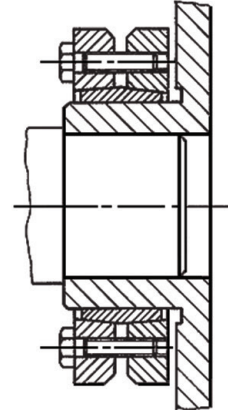
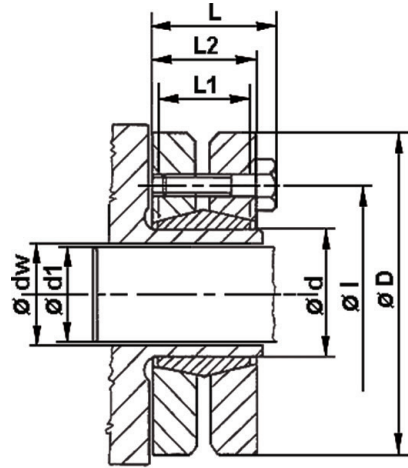
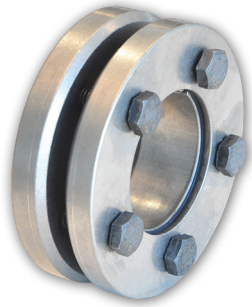


BTK 16	Dimensions of locking devices				Transmitted Axial Force kN	Transmitted Torque Nm	Contact pressure		Locking screws DIN 912 - Mat. 12.9		Locking Torque Nm
	ø d x ø D	L1	L2	L3			L	Shaft h8 N/mm ²	Hub H8 N/mm ²	N°	
120 x 165	26	32	44	56	196	13600	205	142	9	M12 x 35	145
130 x 180	34	40	52	64	262	19000	186	137	12	M12 x 35	145
140 x 180	34	40	54	68	267	21800	177	127	9	M14 x 40	230
150 x 200	34	40	54	68	297	25600	185	137	10	M14 x 40	230
160 x 210	34	40	54	68	326	30200	185	140	11	M14 x 40	230
170 x 225	44	50	64	78	356	35000	147	110	12	M14 x 40	230
180 x 235	44	50	64	78	356	37000	142	108	12	M14 x 40	230
190 x 250	44	50	64	78	445	42303	157	119	15	M14 x 40	230
200 x 260	44	50	64	78	445	44528	149	115	15	M14 x 40	230
220 x 285	50	56	75	91	481	52902	129	100	12	M16 x 50	355
240 x 305	50	56	75	91	601	72135	148	116	15	M16 x 50	355
260 x 325	50	56	75	91	641	83370	145	116	16	M18 x 50	355
280 x 355	60	66	87	105	803	112463	141	111	16	M18 x 50	500
300 x 375	60	66	87	105	904	135562	148	118	18	M18 x 50	500
320 x 405	74	81	101	121	1234	197493	140	110	18	M20 x 50	690
340 x 425	74	81	101	121	1440	244816	153	123	21	M20 x 50	690
360 x 455	86	94	116	138	1512	272218	131	104	18	M22 x 60	930
380 x 475	86	94	116	138	1764	335239	145	116	21	M22 x 60	930
400 x 495	86	94	116	138	1764	352884	137	111	21	M22 x 60	930

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 19

Locking devices Moyeux de serrage

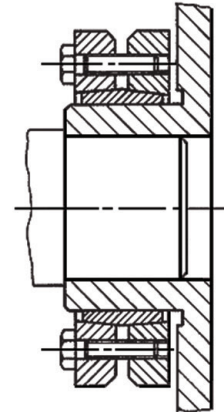
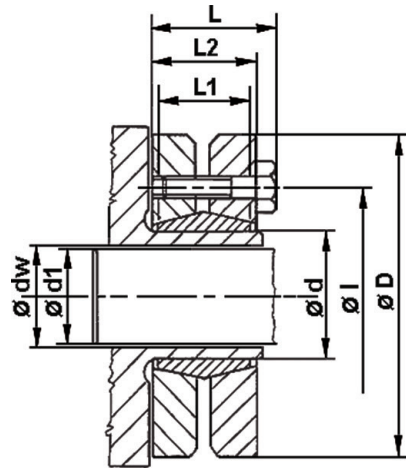
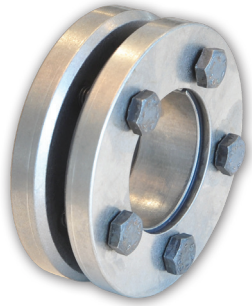


BTK 19	Dimensions of locking devices					Max. Clearance dw (dw-d1)	Transmitted Axial Force kN	Transmitted Torque Nm	Pressure Shaft h8 N/mm ²	Locking screws DIN 912 - Mat. 12.9		Locking Torque Nm
	ø d x ø D	ø dw	L1	L2	L					ø l	N°	
		19					23	170				
24 x 50	20	14	19,5	23	36	0,017	27	210	286	6	M5 x 18	4
	21						30	250				
	24						31	300				
30 x 60	25	16	21,5	25	44	0,017	34	340	233	7	M5 x 18	4
	26						36	380				
	28						36,3	440				
36 x 72	30	18	23,5	27,5	52	0,032	39,3	570	307	5	M6 x 20	12
	31						47,5	630				
	32						57,8	620				
44 x 80	35	20	25,5	29,5	61	0,032	67,1	780	317	7	M6 x 25	12
	36						70,8	860				
	38						69,1	940				
50 x 90	40	22	27,5	31,5	70	0,032	81,9	1160	289	8	M6 x 25	12
	42						91,7	1380				
	42						69,0	1160				
55 x 100	45	23	30,5	34,5	75	0,032	84,4	1520	252	8	M6 x 25	12
	48						97,9	1880				
	48						116	1850				
62 x 110	50	23	30,5	34,5	86	0,048	131	2200	279	10	M6 x 25	12
	52						139	2400				
	50						100	2000				
68 x 115	55	23	30,5	34,5	86	0,048	114	2500	255	10	M6 x 25	12
	60						131	3150				

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 19

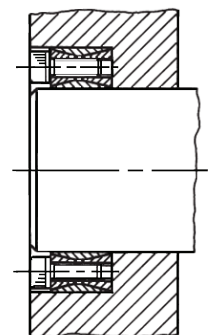
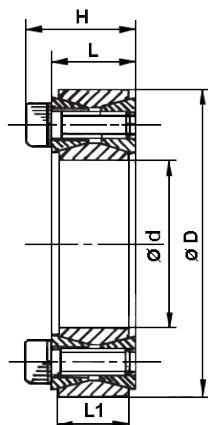
Locking devices Moyeux de serrage



BTK 19	Dimensions of locking devices					Max. Clearance dw (dw-d1)	Transmitted Axial Force kN	Transmitted Torque Nm	Pressure Shaft h8 N/mm ²	Locking screws DIN 912 - Mat. 12.9		Locking Torque Nm	
	$\varnothing d \times \varnothing D$	$\varnothing dw$	L1	L2	L					$\varnothing l$	N°		Size
		55					114	2500					
75 x 138		60	25	32,5	37,8	100	0,048	133	3200	273	7	M8 x 30	30
		65						152	3950				
		60						133	3200				
80 x 145		65	25	32,5	37,8	100	0,048	150	3900	256	7	M8 x 30	30
		70						164	4600				
		65						183	4750				
90 x 155		70	30	39	44,3	114	0,048	214	6000	271	10	M8 x 35	30
		75						242	7250				
		70						246	6900				
100 x 170		75	34	44	49,3	124	0,048	250	7500	258	12	M8 x 35	30
		80						281	9000				
		75						240	7200				
110 x 170		80	39	50	56,4	136	0,048	281	9000	244	9	M10 x 40	59
		85						318	7200				
		85						324	11000				
125 x 215		90	42	54	60,4	160	0,069	361	13000	266	12	M10 x 40	59
		95						395	15000				
		95						397	15100				
140 x 230		100	46	60,5	68	175	0,069	440	17600	264	10	M12 x 45	100
		105						479	20100				
		105						524	22000				
155 x 265		110	50	64,5	72	192	0,069	568	25000	263	12	M12 x 50	100
		115						609	28000				
		115						674	31000				
165 x 290		120	56	71	81	210	0,069	729	35000	277	8	M16 x 55	250
		125						780	39000				

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 40 Locking devices Moyeux de serrage

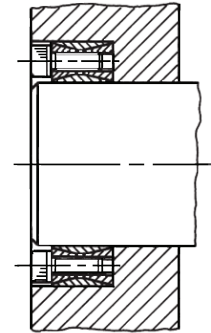
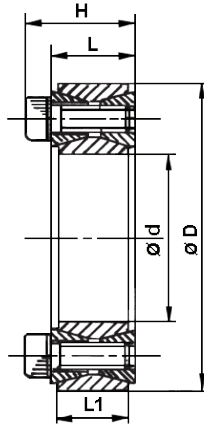


BTK 40	Dimensions of locking devices			Transmitted Axial Force kN	Transmitted Torque Nm	Contact pressure		Locking screws DIN 912 - Mat. 12.9		Locking Torque Nm
	ø d x ø D	L1	L			H	Shaft h8 N/mm ²	Hub H8 N/mm ²	N°	
19 x 47	17	20	28	31	290	235	90	8	M6 x 18	14,9
20 x 47	17	20	28	31	295	208	90	8	M6 x 18	14,9
22 x 47	17	20	28	31	320	192	89	8	M6 x 18	14,9
24 x 50	17	20	28	35	370	192	94	9	M6 x 18	14,9
25 x 50	17	20	28	35	390	187	94	9	M6 x 18	14,9
28 x 55	17	20	28	39	490	153	94	10	M6 x 18	14,9
30 x 55	17	20	28	39	520	173	94	10	M6 x 18	14,9
32 x 55	17	20	28	47	680	205	94	12	M6 x 18	14,9
35 x 60	17	20	28	47	710	180	105	12	M6 x 18	14,9
38 x 65	17	20	28	55	880	176	108	14	M6 x 18	14,9
40 x 65	17	20	28	55	930	176	108	14	M6 x 18	14,9
42 x 75	20	24	34	83	1580	235	123	12	M8 x 22	35
45 x 75	20	24	34	83	1620	206	123	12	M8 x 22	35
48 x 80	20	24	34	83	1690	186	108	12	M8 x 22	35
50 x 80	20	24	34	83	1770	187	113	12	M8 x 22	35
55 x 85	20	24	34	97	2260	196	127	14	M8 x 22	35
60 x 90	20	24	34	97	2450	177	120	14	M8 x 22	35
65 x 95	20	24	34	110	3040	188	128	16	M8 x 22	35
70 x 110	24	28	40	153	4560	206	127	14	M10 x 25	69
75 x 115	24	28	40	153	4820	191	124	14	M10 x 25	69
80 x 120	24	28	40	153	5130	177	120	14	M10 x 25	69
85 x 125	24	28	40	175	6230	191	127	16	M10 x 25	69
90 x 130	24	28	40	175	6520	176	122	16	M10 x 25	69
95 x 135	24	28	40	196	7770	191	133	18	M10 x 25	69
100 x 145	26	33	47	227	9460	193	133	14	M12 x 30	123

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 40

Locking devices Moyeux de serrage

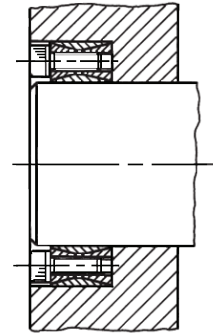
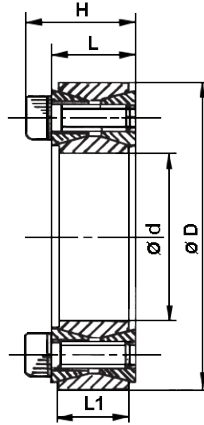


BTK 40	Dimensions of locking devices			Transmitted Axial Force kN	Transmitted Torque Nm	Contact pressure		Locking screws DIN 912 - Mat. 12.9		Locking Torque Nm
	ø d x ø D	L1	L			H	Shaft h8 N/mm ²	Hub H8 N/mm ²	N°	
110 x 155	26	33	47	227	10490	176	122	14	M12 x 30	123
120 x 165	26	33	47	260	12945	182	133	16	M12 x 30	123
130 x 180	34	38	52	325	17360	163	113	20	M12 x 35	123
140 x 190	34	38	52	357	20650	163	123	22	M12 x 35	123
150 x 200	34	38	52	390	23815	166	122	24	M12 x 35	123
160 x 210	34	38	52	422	27615	166	127	26	M12 x 35	123
170 x 225	38	44	60	465	32370	157	118	22	M14 x 40	187
180 x 235	38	44	60	507	37270	163	123	24	M14 x 40	187
190 x 250	46	52	68	591	45810	148	113	28	M14 x 45	187
200 x 260	46	52	68	633	51600	148	113	30	M14 x 45	187
220 x 285	50	56	72	745	66800	148	113	26	M16 x 50	290
240 x 305	50	56	72	860	103162	211	166	30	M16 x 50	290
260 x 325	50	56	72	860	126669	221	177	34	M16 x 50	290
280 x 355	60	66	84	1124	157339	197	156	32	M18 x 60	400
300 x 375	60	66	84	1124	189653	207	166	36	M18 x 60	400
320 x 405	72	78	98	1651	264108	211	167	36	M20 x 70	580
340 x 425	72	78	98	1651	280614	199	159	36	M20 x 70	580
360 x 455	84	90	112	2017	363061	197	156	36	M22 x 80	780
380 x 475	84	90	112	2017	383232	186	149	36	M22 x 80	780
400 x 495	84	90	112	2017	403402	177	143	36	M22 x 80	780
420 x 515	84	90	112	2017	470633	187	153	40	M22 x 80	1000
440 x 545	96	102	126	2634	579506	184	148	40	M24 x 90	1000
460 x 565	96	102	126	2634	605848	176	143	40	M24 x 90	1000
480 x 585	96	102	126	2766	663811	177	145	42	M24 x 90	1000
500 x 605	96	102	126	5898	724383	178	147	44	M24 x 90	1000

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 40

Locking devices Moyeux de serrage

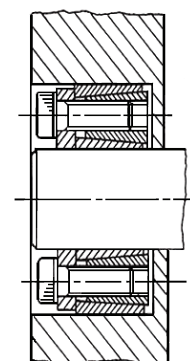
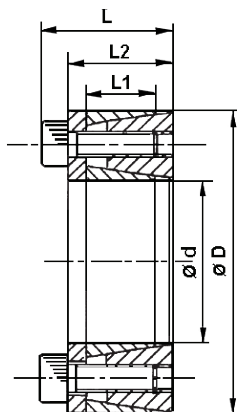


BTK 40	Dimensions of locking devices			Transmitted Axial Force kN	Transmitted Torque Nm	Contact pressure		Locking screws DIN 912 - Mat. 12.9		Locking Torque Nm
	ø d x ø D	L1	L			H	Shaft h8 N/mm ²	Hub H8 N/mm ²	N°	
520 x 630	96	102	126	2963	770487	175	144	45	M24 x 90	1000
540 x 650	96	102	126	2963	800121	169	140	45	M24 x 90	1000
560 x 670	96	102	126	3161	885064	173	145	48	M24 x 90	1000
580 x 690	96	102	126	3293	954884	174	147	50	M24 x 90	1000
600 x 710	96	102	126	3293	987811	169	142	50	M24 x 90	1000
620 x 730	96	102	126	3424	1061550	170	144	52	M24 x 90	1000
640 x 750	96	102	126	3556	1137957	171	146	54	M24 x 90	1000
660 x 770	96	102	126	3688	1216963	172	147	56	M24 x 90	1000
680 x 790	96	102	126	3688	1253841	167	143	56	M24 x 90	1000
700 x 810	96	102	126	3951	1382913	173	150	60	M24 x 90	1000
720 x 830	96	102	126	3951	1422425	169	146	60	M24 x 90	1000
740 x 850	96	102	126	4083	1510688	169	148	62	M24 x 90	1000
760 x 870	96	102	126	4215	1601545	170	149	64	M24 x 90	1000
780 x 890	96	102	126	4280	1669384	169	148	65	M24 x 90	1000
800 x 910	96	102	126	4346	1738541	167	147	66	M24 x 90	1000
820 x 930	96	102	126	4478	1835982	168	148	68	M24 x 90	1000
840 x 950	96	102	126	4610	1936101	169	149	70	M24 x 90	1000
860 x 970	96	102	126	4741	2038809	169	150	72	M24 x 90	1000
860 x 990	96	102	126	4873	2144197	170	151	74	M24 x 90	1000
900 x 1010	96	102	126	4939	2222575	169	150	75	M24 x 90	1000
920 x 1030	96	102	126	5005	2302221	167	149	76	M24 x 90	1000
940 x 1050	96	102	126	5137	2414196	168	150	78	M24 x 90	1000
960 x 1070	96	102	126	5268	2528755	169	151	80	M24 x 90	1000
980 x 1090	96	102	126	5334	2613719	167	150	81	M24 x 90	1000
1000 x 1110	96	102	126	5400	2700000	166	149	82	M24 x 90	1000

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 45 Locking devices

Moyeux de serrage



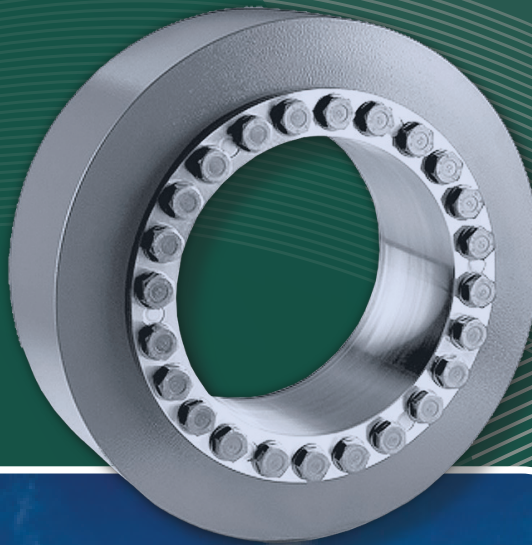
BTK 45	Dimensions of locking devices			Transmitted Axial Force	Transmitted Torque	Contact pressure		Locking screws		Locking Torque
	ø d x ø D	L1	L2			L	Shaft h8	Hub H8	DIN 912 - Mat. 12.9	
				kN	Nm	N/mm ²	N/mm ²	N°		Nm
18 x 40	12	18,5	24,5	18	165	185	83	4	M6 x 16	17
19 x 41	12	18,5	24,5	18	174	176	81	4	M6 x 16	17
20 x 42	12	18,5	24,5	18	183	167	79	4	M6 x 16	17
22 x 44	12	18,5	24,5	18	201	152	76	4	M6 x 16	17
24 x 46	12	18,5	24,5	27	329	209	109	6	M6 x 16	17
25 x 47	12	18,5	24,5	27	343	200	106	6	M6 x 16	17
28 x 50	12	18,5	24,5	27	384	179	100	6	M6 x 16	17
30 x 52	12	18,5	24,5	27	412	167	96	6	M6 x 16	17
32 x 54	12	18,5	24,5	27	439	156	93	6	M6 x 16	17
35 x 57	15	22	28	27	480	117	72	6	M6 x 18	17
38 x 60	15	22	28	36,5	695	143	91	8	M6 x 18	17
40 x 62	15	22	28	36,5	732	170	88	8	M6 x 18	17
42 x 70	18	28	36	68	1427	190	111	8	M8 x 25	42
45 x 73	18	28	36	68	1529	210	106	8	M8 x 25	42
48 x 76	18	28	36	68	1631	210	102	8	M8 x 25	42
50 x 78	18	28	36	68	1699	190	99	8	M8 x 25	42
55 x 83	18	28	36	68	1869	180	93	8	M8 x 25	42
60 x 88	18	28	36	68	2039	190	88	8	M8 x 25	42
65 x 93	22	35	45	68	2208	180	65	8	M8 x 25	42
70 x 105	22	35	45	107	3759	180	91	8	M10 x 30	83
75 x 110	22	35	45	107	4027	180	87	8	M10 x 30	83
80 x 115	22	35	45	107	4296	170	83	8	M10 x 30	83
85 x 120	22	35	45	134	5705	180	100	10	M10 x 30	83

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

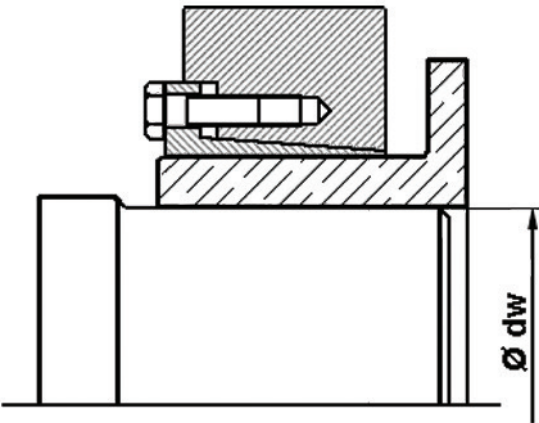


BTK 47

Locking devices
Moyeux de serrage



BTK 47 Locking devices *Moyeux de serrage*



Features of two-part shrink discs

- * Appropriate for heavy duty.
- * Convenient assembly and disassembly.
- * Higher co-axial degree for higher rotation speed supported by compact structure.
- * Widely used in hollow shafts, sliding gears, couplings, etc. and replace key connection in important occasions.
- * For special sizes, please contact us.

Technical specifications of locking devices (two-part shrink discs)

Torque

The transmitted torque depends of the friction factor between the shaft and hub, clearance and shaft diameter.

Friction Factor

All the torques in the table are calculated when the friction factor between the shaft and hub is 0.15 (the friction factor between the dry steel components without oil is 0.15-0.33). Otherwise, the transmitted torque will be changed. If the friction factor is 0.12 between the shaft and hub with lubricant, the torque will be reduced accordingly.

Clearance

For the torque in the table, the clearance from $\varnothing d$ upto $\varnothing 160$ mm is used, while the shaft matches with the hub according to H7/h6. In case of clearance $\varnothing d \geq \varnothing 160$ mm the shaft matches according to H7/g6.

The transmitted torque will be increased if the clearance is smaller and vice versa (which means the larger clearance will reduce the transmitted torque).

Shaft diameter dw

The diameter dw of the shaft of the same size shrink discs might be different. For more details, please consult the side-drawing. For the actual shaft diameter included by the two-shrink discs sizes in the table, the transmitted torque will be between the rated torque corresponding to the dw of the shafts.

Materials of hub

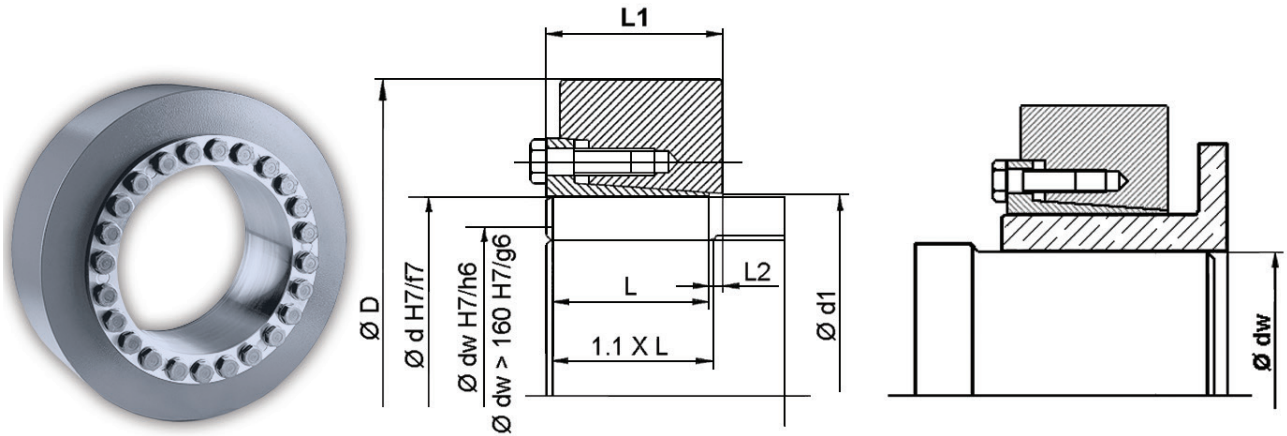
The hub can be made of steel or ductile iron. The tensile strength of the materials shall satisfy the safety application requirements. If it is necessary to transmit bending moment (rotation bending), the torque and hub shall be made of alloyed steel 42CrMo4, superior quality cast steel or ductile iron. The gray cast iron can be used if the bending moment can be neglected.

Surface quality

The surface roughness (R_a) of the shaft and hub must be lower than $3.2 \mu\text{m}$.

BTK 47

Locking devices Moyeux de serrage

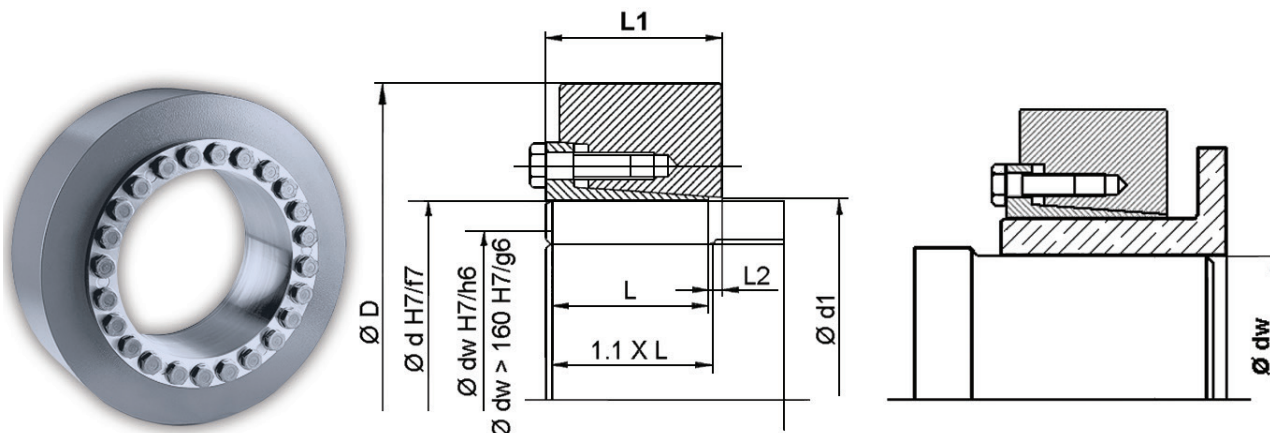


BTK 47	Dimensions of locking devices					Transmitted Axial Force kN	Transmitted Torque kNm	Locking Bolts ISO 4014 Size	Locking Torque Nm
	ø d x ø D	ø dw	L1	L2	L				
		19				17	0,16		
24 x 50		20	18	2	14	20	0,20	M5	5
		22				25	0,28		
		24				23	0,28		
30 x 60		25	20	2	16	25	0,32	M5	5
		26				27	0,36		
		27				32	0,44		
36 x 72		30	22	2	18	41	0,60	M8	29
		33				50	0,81		
		34				41	0,68		
44 x 80		35	24	2	20	44	0,76	M8	29
		37				50	0,91		
		38				57	1,10		
50 x 90		40	26	2,5	22	64	1,28	M8	29
		42				70	1,49		
		42				58	1,22		
55 x 100		45	29	3	23	67	1,51	M8	29
		48				77	1,84		
		48				69	1,65		
62 x 110		50	29	3	23	75	1,87	M8	29
		52				80	2,10		
		50				74	1,85		
68 x 115		55	29	3	23	88	2,43	M8	29
		60				103	3,09		
		55				84	2,31		
75 x 138		60	31	4	25	100	2,99	M10	58
		65				116	3,77		
		60				105	3,16		
80 x 141		65	31	4	25	122	4,02	M10	58
		70				139	4,86		
		65				164	5,35		
90 x 155		70	38	4	30	185	6,44	M10	58
		75				206	7,72		

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 47 Locking devices

Moyeux de serrage



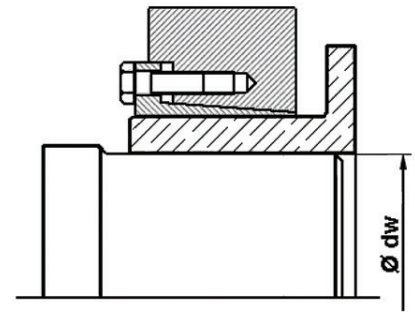
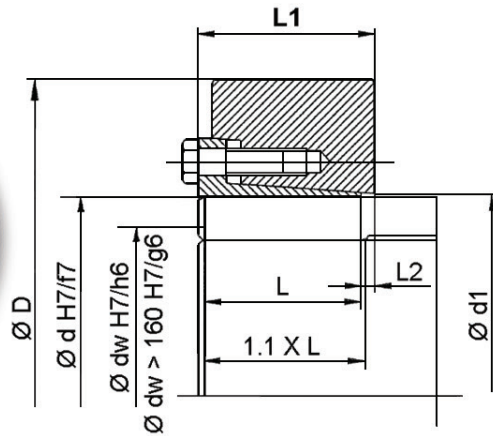
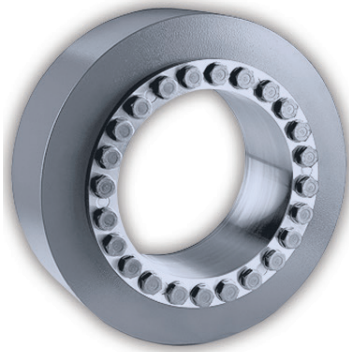
LOCKING DEVICES

BTK 47	Dimensions of locking devices					Transmitted Axial Force kN	Transmitted Torque kNm	Locking Bolts ISO 4014 Size	Locking Torque Nm
	ø d x ø D	ø dw	L1	L2	L				
		70				169	5,94		
100 x 170		75	43	4	34	190	7,13	M10	58
		80				211	8,42		
		80				247	9,90		
110 x 185		85	49	5,5	39	272	11,60	M12	100
		90				299	13,50		
		85				277	11,80		
120 x 197		90	53	6,5	42	304	13,70	M12	100
		95				331	15,70		
		90				316	14,30		
125 x 215		95	53	6,5	42	344	16,30	M12	100
		100				371	18,50		
		95				378	17,90		
135 x 230		100	58	8,5	46	408	20,40	M14	160
		110				468	25,70		
		100				388	19,40		
140 x 230		105	58	8,5	46	417	21,90	M14	160
		115				476	27,30		
		110				477	26,20		
155 x 263		115	62	8,5	50	509	29,20	M14	160
		125				572	35,70		
		120				616	36,90		
165 x 290		125	68	9,5	56	652	40,80	M16	240
		135				727	49,10		
		130				685	44,60		
175 x 300		135	68	10	56	723	48,50	M16	240
		145				797	57,40		
		140				907	63,40		
185 x 320		145	85	10	71	951	69,30	M16	240
		155				1042	81,20		
		150				1062	80,20		
200 x 340		155	85	11	71	1109	86,10	M16	240
		165				1204	96,00		

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 47

Locking devices Moyeux de serrage

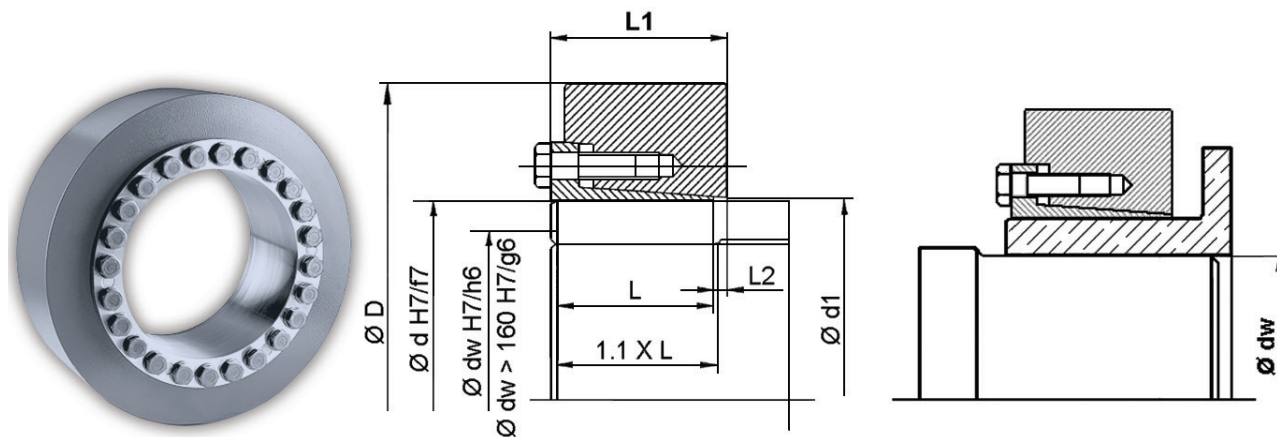


BTK 47	Dimensions of locking devices					Transmitted Axial Force kN	Transmitted Torque kNm	Locking Bolts ISO 4014 Size	Locking Torque Nm
	ø d x ø D	ø dw	L1	L2	L				
		160				1270	102		
220 x 370		170	103	12	88	1381	118	M20	470
		180				1494	135		
		170				1425	121		
240 x 405		180	107	13	92	1539	139	M20	470
		200				1172	177		
		190				1698	161		
260 x 280		200	119	14	103	1824	182	M20	470
		220				2078	229		
		210				2030	213		
280 x 460		220	132	16	114	2164	238	M20	470
		240				2433	292		
		220				2431	267		
300 x 485		230	140	16	122	2579	297	M24	820
		250				2877	359		
		240				2486	298		
320 x 520		250	140	16	122	2628	329	M24	820
		270				2916	394		
		250				3087	386		
340 x 570		260	155	18	134	3250	423	M24	820
		280				3581	501		
		270				3613	488		
350 x 580		280	162	20	140	3787	530	M24	820
		290				3961	574		
		270				3639	491		
360 x 590		280	162	20	140	3813	534	M24	820
		300				4164	625		
		290				3994	579		
380 x 640		300	166	20	144	4173	626	M27	1210
		310				4353	674		
		290				4367	634		
390 x 650		300	166	20	144	4559	684	M27	1210
		320				4946	791		
		320				4594	735		
420 x 670		330	186	22	163	4781	789	M27	1210
		350				5157	903		

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 47 Locking devices

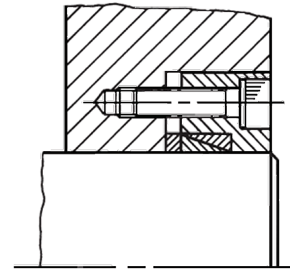
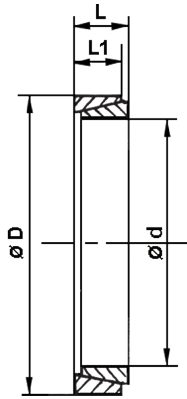
Moyeux de serrage



LOCKING DEVICES

BTK 47	Dimensions of locking devices					Transmitted Axial Force kN	Transmitted Torque kNm	Locking Bolts ISO 4014 Size	Locking Torque Nm
	$\varnothing d \times \varnothing D$	$\varnothing dw$	L1	L2	L				
		340				5501	936		
440 x 740	350	194	22	172	448	5706	999	M27	1210
	370					6119	1132		
	360					6072	1093		
460 x 770	370	194	22	172	468	6282	1162	M27	1210
	390					6703	1307		
	380					6775	1287		
480 x 800	390	213	22	188	488	6995	1364	M30	1640
	410					7441	1526		
	400					7403	1481		
500 x 850	410	213	22	188	508	7634	1565	M30	1640
	430					8098	1741		
	430					8886	1911		
530 x 910	440	238	22	213	538	9142	2011	M30	1640
	460					9654	2221		
	450					9225	2076		
560 x 940	460	238	22	213	568	9476	2179	M30	1640
	480					9980	2396		
	470					10922	2567		
590 x 960	480	260	25	228	598	11201	2688	M30	1640
	500					11762	2940		
	500					11500	2875		
620 x 1020	520	286	25	254	630	12068	3137	M30	1640
	540					12639	3413		
	530					12436	3296		
660 x 1070	550	292	25	260	670	13009	3578	M33	2210
	570					13585	3872		
	560					13449	3766		
700 x 1140	580	292	25	260	710	14027	4068	M33	2210
	600					14608	4383		
	600					15844	4753		
750 x 1150	620	320	38	278	760	16470	5105	M33	2210
	650					17413	5659		
	640					17966	5749		
800 x 1230	660	350	40	296	810	18635	6149	M33	2210
	700					19979	6992		

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

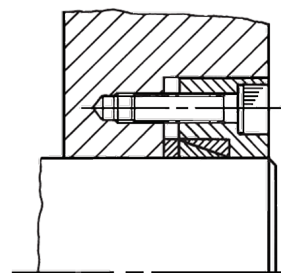
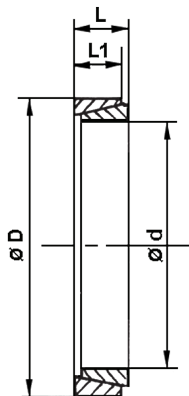
BTK 50**Locking devices**
Moyeux de serrage

BTK 50	Dimensions of locking devices		Transmitted Axial Force kN	Transmitted Torque Nm	Contact pressure Shaft h8 Hub H8		Loaded Axial Pressure kN
	L1	L			N/mm ²	N/mm ²	
ø d x ø D							
6 x 9	3,7	4,5	0,78	2,4	115	75	3,8
7 x 10	3,7	4,5	0,80	3,0	105	70	3,9
8 x 11	3,7	4,5	1,06	4,7	120	90	5,0
9 x 12	3,7	4,5	1,29	7,9	140	105	13,3
10 x 13	3,7	4,5	1,53	9,5	135	105	14,4
12 x 15	3,7	4,5	1,65	11,4	115	90	14,5
13 x 16	3,7	4,5	1,76	13,1	110	90	14,6
14 x 18	5,3	6,3	2,70	22,3	115	90	23,8
15 x 19	5,3	6,3	2,94	24,3	110	85	24,3
16 x 20	5,3	6,3	3,18	27,3	105	85	24,5
17 x 21	5,3	6,3	3,29	29,8	105	85	24,9
18 x 22	5,3	6,3	3,53	32,4	100	80	25,3
19 x 24	5,3	6,3	3,76	35,8	140	110	29,7
20 x 25	5,3	6,3	3,88	38,8	135	105	30,1
22 x 26	5,3	6,3	4,35	47,9	135	115	28,9
24 x 28	5,3	6,3	4,70	56,4	130	110	30,0
25 x 30	5,3	6,3	4,94	61,7	115	95	32,4
28 x 32	5,3	6,3	5,53	77,4	115	100	32,6
30 x 35	5,3	6,3	5,88	88,2	100	85	35,5
32 x 36	5,3	6,3	6,23	100	130	115	36,7
35 x 40	6	7	7,76	136	125	110	45,7
36 x 42	6	7	8,00	144	115	100	48,2
38 x 44	6	7	8,47	161	110	95	49,7
40 x 45	6,6	8	9,80	195	115	105	58,8
42 x 48	6,6	8	10,20	215	110	95	62,6
45 x 52	8,6	10	14,30	323	105	95	92,2
48 x 55	8,6	10	15,30	367	155	135	94,6
50 x 57	8,6	10	15,90	397	150	130	96,5
55 x 62	8,6	10	17,40	479	140	125	101,8
56 x 64	10,4	12	21,50	603	130	115	128,4
60 x 68	10,4	12	23,00	691	125	110	133,4
63 x 71	10,4	12	24,20	763	100	89	137,3
65 x 73	10,4	12	25,00	814	100	89	140,4

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 50 Locking devices

Moyeux de serrage

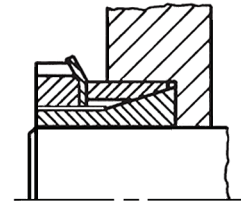
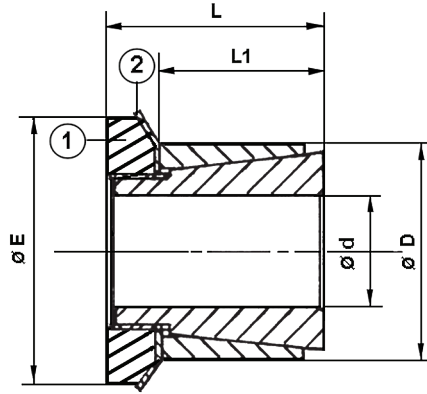


BTK 50	Dimensions of locking devices		Transmitted Axial Force kN	Transmitted Torque Nm	Contact pressure Shaft h8 Hub H8		Loaded Axial Pressure kN
	ø d x ø D	L1			L	N/mm ²	
70 x 79	12,2	14	32	1107	100	89	176
71 x 80	12,2	14	32	1136	100	89	178
75 x 84	12,2	14	34	1266	100	89	190
80 x 91	15,0	17	44	1769	100	89	251
90 x 101	15,0	17	50	2244	100	89	272
100 x 114	18,7	21	69	3452	100	89	378
110 x 124	18,7	21	76	4178	100	89	415
120 x 134	18,7	21	83	4967	100	89	440
130 x 148	25,3	28	121	7896	100	89	654
140 x 158	25,3	28	131	9146	100	89	689
150 x 168	25,3	28	140	10505	100	89	728
160 x 178	25,3	28	149	11948	100	90	765
170 x 191	30,3	33	188	16014	100	89	983
180 x 201	30,3	33	199	17950	100	90	1027
190 x 211	30,3	33	210	19987	100	90	1071
200 x 224	34,8	38	257	25696	100	89	1314
210 x 234	34,8	38	270	28326	100	90	1366
220 x 244	34,8	38	283	31098	100	90	1420
230 x 257	39,5	43	335	38570	100	89	1705
240 x 267	39,5	43	351	42068	100	90	1768
250 x 280	44,0	48	407	50906	100	90	2060
260 x 290	44,0	48	425	55202	100	90	2132
270 x 300	44,0	48	442	59678	100	91	2207
280 x 313	49,0	53	507	71042	100	90	2536
290 x 323	49,0	53	525	76103	100	90	2632
300 x 333	49,0	53	542	81338	100	90	2704
320 x 360	59,0	65	697	111504	100	90	3492
340 x 380	59,0	65	740	125870	100	89	3672
360 x 400	59,0	65	784	141106	100	89	3858
380 x 420	59,0	65	828	157235	100	90	4069
400 x 440	59,0	65	871	174213	100	90	4256

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 55

Locking devices *Moyeux de serrage*

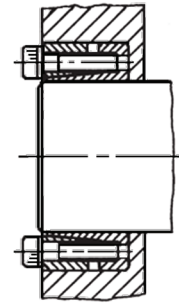
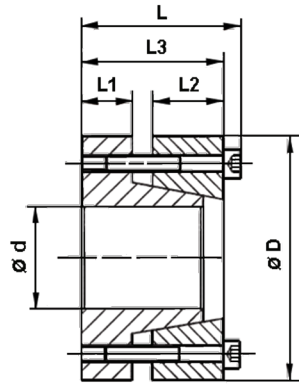
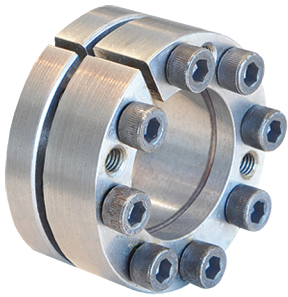


BTK 55	Dimensions of locking devices			Transmitted Axial Force kN	Transmitted Torque Nm	Contact pressure Shaft h8 / Hub H8 N/mm ²		Locking Nut N° 1	Locking Washer N° 2	Locking Torquer Size	Locking Torquer Nm
	Ø d x Ø D	L1	L			Ø E	N/mm ²				
14 x 25	23	31	32	8	65	80	45	KM4	MB4	M20x1	95
15 x 25	23	31	32	9	77	91	55	KM4	MB4	M20x1	95
18 x 30	24	33	38	13	125	98	59	KM5	MB5	M25x1,5	160
19 x 30	24	33	38	13	132	93	59	KM5	MB5	M25x1,5	160
20 x 30	24	33	38	13	139	88	59	KM5	MB5	M25x1,5	160
24 x 35	29	38	45	15	202	74	51	KM6	MB6	M30x1,5	220
25 x 35	29	38	45	15	210	71	51	KM6	MB6	M30x1,5	220
28 x 40	34	44	52	20	312	76	53	KM7	MB7	M35x1,5	340
30 x 40	34	44	52	20	335	71	53	KM7	MB7	M35x1,5	340
35 x 45	34	45	58	25	483	75	58	KM8	MB8	M40x1,5	480
40 x 50	35	46	65	31	696	82	66	KM9	MB9	M45x1,5	680
45 x 55	35	47	70	36	902	84	69	KM10	MB10	M50x1,5	870
50 x 60	36	48	75	37	1014	77	64	KM11	MB11	M55x2	970
55 x 65	36	48	80	38	1158	73	61	KM12	MB12	M60x2	1100
60 x 70	36	50	85	41	1379	73	62	KM13	MB13	M65x2	1300

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 60 Locking devices

Moyeux de serrage

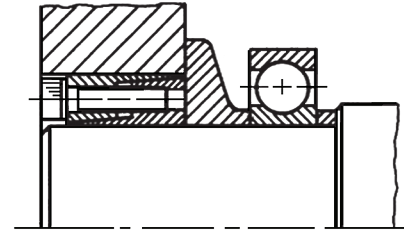
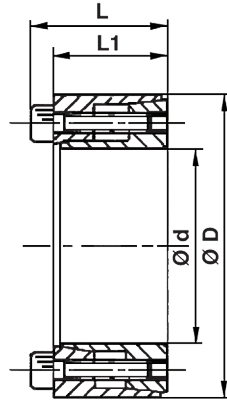


BTK 60	Dimensions of locking devices				Transmitted Axial Force kN	Transmitted Torque Nm	Contact pressure		Locking screws		Locking Torquer Nm
	$\varnothing d \times \varnothing D$	L1	L	L3			L	Shaft h8 N/mm ²	Hub H8 N/mm ²	DIN 912 - Mat. 12.9 N°	
20 x 47	10	14	28	34	29	245	210	93	5	M6 x 25	13
22 x 47	10	14	28	34	29	265	196	93	5	M6 x 25	13
24 x 50	10	14	28	34	38	370	215	108	6	M6 x 25	14
25 x 50	10	14	28	34	38	390	210	108	6	M6 x 25	14
30 x 55	10	14	28	34	38	480	186	98	6	M6 x 25	14
35 x 60	10	14	28	34	51	735	186	108	8	M6 x 25	14
38 x 65	10	14	28	34	51	790	206	103	8	M6 x 25	14
40 x 65	10	14	28	34	51	830	186	103	8	M6 x 25	14
42 x 75	12	18	35	43	76	1450	225	132	7	M8 x 30	32
45 x 75	12	18	35	43	76	1560	220	132	7	M8 x 30	32
50 x 80	12	18	35	43	76	1650	206	127	7	M8 x 30	32
55 x 85	12	18	35	43	87	2250	210	132	8	M8 x 30	32
60 x 90	12	18	35	43	87	2450	186	122	8	M8 x 30	32
65 x 95	12	18	35	43	98	2890	200	132	9	M8 x 30	32
70 x 110	16	24	46	56	141	4700	220	140	8	M10 x 40	65

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 61

Locking devices Moyeux de serrage

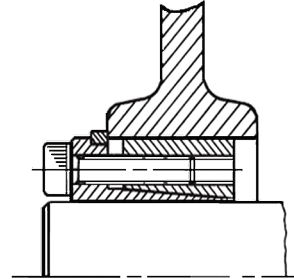
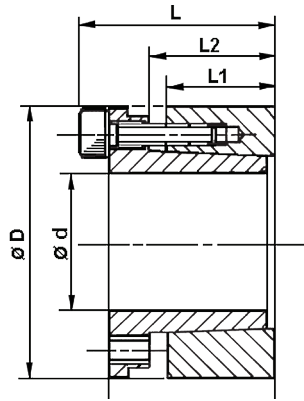


BTK 61	Dimensions of locking devices		Transmitted Axial Force kN	Transmitted Torque Nm	Contact pressure		Locking screws DIN 912 - Mat. 12.9		Locking Torque Nm
	Ø d x Ø D	L1			L	Shaft h8 N/mm ²	Hub H8 N/mm ²	N°	
10 x 20	13	15,5	3,8	19	89	45	4	M2,5 x 12	1,2
12 x 22	13	15,5	3,8	23	75	41	4	M2,5 x 12	1,2
14 x 26	17	20	5,5	39	71	38	4	M3 x 16	2,1
15 x 28	17	20	5,5	42	66	35	4	M3 x 16	2,1
16 x 32	17	21	9,6	77	107	54	4	M4 x 16	4,9
18 x 35	21	25	9,6	87	77	40	4	M4 x 16	4,9
19 x 35	21	25	9,6	91	73	40	4	M4 x 16	4,9
20 x 38	21	26	15,7	157	113	60	4	M5 x 20	10
22 x 40	21	26	15,7	173	103	57	4	M5 x 20	10
24 x 47	26	32	22,3	268	110	56	4	M6 x 24	17
25 x 47	26	32	22,3	279	105	56	4	M6 x 24	17
28 x 50	26	32	33,5	468	141	79	6	M6 x 24	17
30 x 55	26	32	33,5	502	132	72	6	M6 x 24	17
32 x 55	26	32	33,5	535	123	72	6	M6 x 24	17
35 x 60	31	37	44,6	781	125	73	8	M6 x 28	17
38 x 65	31	37	44,6	848	115	67	8	M6 x 28	17
40 x 65	31	37	44,6	892	110	67	8	M6 x 28	17
42 x 75	36	44	60,6	1272	122	68	6	M8 x 34	41
45 x 75	36	44	60,6	1363	113	68	6	M8 x 34	41
48 x 80	36	44	80,8	1938	142	85	8	M8 x 34	41
50 x 80	36	44	80,8	2019	136	85	8	M8 x 34	41

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

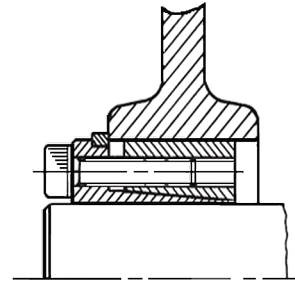
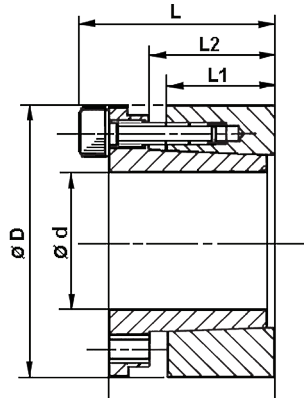
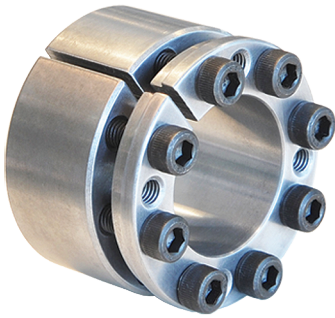
BTK 70 Locking devices

Moyeux de serrage



BTK 70	Dimensions of locking devices				Transmitted Axial Force kN	Transmitted Torque Nm	Contact pressure		Locking screws DIN 912 - Mat. 12.9		Locking Torque Nm
	ø d x ø D	L1	L2	L3			L	Shaft h8 N/mm ²	Hub H8 N/mm ²	N°	
19 x 47	26	31	39	45	32	353	228	98	4	M6 x 25	17
20 x 47	26	31	39	45	32	382	226	98	4	M6 x 25	17
22 x 47	26	31	39	45	32	431	215	93	4	M6 x 25	17
24 x 50	26	31	39	45	48	519	215	102	6	M6 x 25	17
25 x 50	26	31	39	45	48	578	225	102	6	M6 x 25	17
28 x 50	26	31	39	45	48	686	215	107	6	M6 x 25	17
30 x 55	26	31	39	45	48	745	196	117	6	M6 x 25	17
32 x 60	26	31	39	45	65	912	225	117	8	M6 x 25	17
35 x 60	26	31	39	45	65	1010	196	116	8	M6 x 25	17
38 x 65	26	31	39	45	65	1216	205	121	8	M6 x 25	17
40 x 65	26	31	39	45	65	1323	196	122	8	M6 x 25	17
42 x 75	30	36	47	55	87	2128	232	137	6	M8 x 30	41
45 x 75	30	36	47	55	87	2304	232	137	6	M8 x 30	41
48 x 80	30	36	47	55	87	2461	213	132	6	M8 x 30	41
50 x 80	30	36	47	55	87	2530	213	132	6	M8 x 30	41
55 x 85	30	36	47	55	116	3138	218	142	8	M8 x 30	41
60 x 90	30	36	47	55	116	3314	194	153	8	M8 x 30	41
65 x 95	30	36	47	55	116	4079	208	137	8	M8 x 30	41
70 x 110	40	46	57	67	189	6707	220	140	8	M10 x 35	83
75 x 115	40	46	62	72	189	7354	205	135	8	M10 x 35	83
80 x 120	40	46	62	72	189	7943	196	127	8	M10 x 35	83
85 x 125	40	46	62	72	236	9512	205	142	10	M10 x 35	83
90 x 130	40	46	62	72	236	10100	196	135	10	M10 x 35	83
95 x 135	40	46	62	72	236	11865	205	145	10	M10 x 35	83
100 x 145	46	52	77	89	275	15396	211	145	8	M12 x 45	145

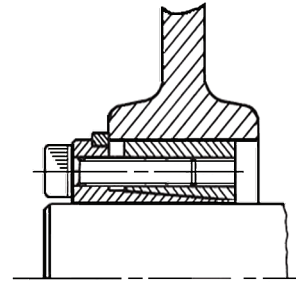
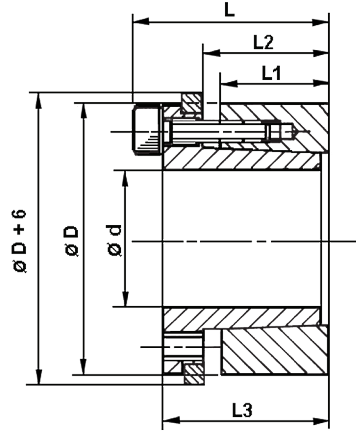
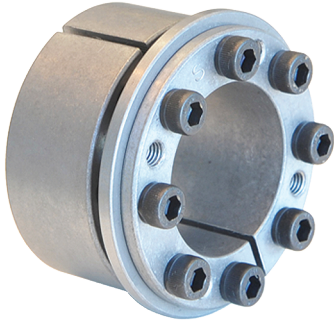
Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 70**Locking devices**
Moyeux de serrage

BTK 70	Dimensions of locking devices				Transmitted Axial Force kN	Transmitted Torque Nm	Contact pressure		Locking screws DIN 912 - Mat. 12.9		Locking Torque Nm
	ø d x ø D	L1	L2	L3			L	Shaft h8 N/mm ²	Hub H8 N/mm ²	N°	
110 x 145	46	52	77	89	275	16867	192	136	8	M12 x 45	145
120 x 165	46	52	77	89	343	22064	211	152	10	M12 x 45	145
130 x 180	46	52	77	89	412	23535	192	137	12	M12 x 45	145
140 x 190	51	59	84	98	373	30210	192	142	8	M14 x 45	230
150 x 200	51	59	84	98	467	36440	201	150	10	M14 x 45	230
160 x 210	51	59	84	98	467	39730	201	150	10	M14 x 45	230
170 x 225	51	59	84	98	560	47617	160	120	12	M14 x 45	230
180 x 235	51	59	84	98	560	50418	180	138	12	M14 x 45	230
190 x 250	51	59	84	98	700	66526	213	162	15	M14 x 45	230
200 x 260	51	59	84	98	700	70027	202	156	15	M14 x 45	230
220 x 285	64	72	100	116	757	83243	158	122	12	M16 x 60	355
240 x 305	64	72	100	116	946	113517	182	143	15	M16 x 60	355
260 x 325	64	72	100	116	1135	147560	201	161	18	M16 x 60	355
280 x 355	75	83	123	141	1226	171582	172	136	16	M18 x 80	485
300 x 375	75	83	123	141	1379	206809	181	145	18	M18 x 80	485
320 x 405	90	98	142	162	1766	282493	181	143	18	M20 x 100	690
340 x 425	90	98	142	162	2060	350180	199	159	21	M20 x 100	690
360 x 455	110	118	166	188	2164	389480	161	127	18	M22 x 110	930
380 x 475	110	118	166	188	2524	479634	178	142	21	M22 x 110	930
400 x 495	100	118	166	188	2524	504878	186	150	21	M22 x 110	930

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 71 Locking devices Moyeux de serrage

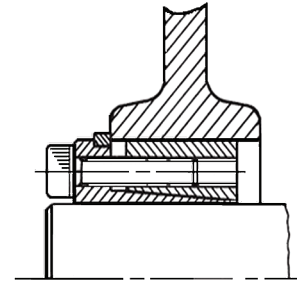
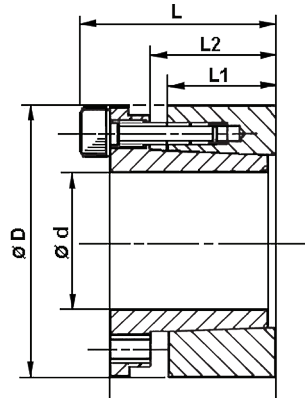
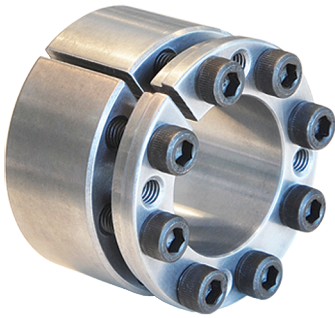


BTK 71	Dimensions of locking devices				Transmitted Axial Force kN	Transmitted Torque Nm	Contact pressure		Locking screws DIN 912 - Mat. 12.9		Locking Torque Nm
	ø d x ø D	L1	L2	L3			L	Shaft h8 N/mm ²	Hub H8 N/mm ²	N°	
19 x 47	26	31	39	45	21	294	228	96	4	M6 x 20	17
20 x 47	26	31	39	45	21	313	226	96	4	M6 x 20	17
22 x 47	26	31	39	45	21	362	206	97	4	M6 x 20	17
24 x 50	26	31	39	45	32	421	206	100	6	M6 x 20	17
25 x 50	26	31	39	45	32	470	221	110	6	M6 x 20	17
28 x 50	26	31	39	45	32	578	202	105	6	M6 x 20	17
30 x 55	26	31	39	45	32	637	221	118	6	M6 x 20	17
32 x 60	26	31	39	45	43	784	197	114	8	M6 x 20	17
35 x 60	26	31	39	45	43	843	202	118	8	M6 x 20	17
38 x 65	26	31	39	45	43	1010	197	121	8	M6 x 20	17
40 x 65	26	31	39	45	43	1108	234	143	8	M6 x 20	17
42 x 75	30	36	47	55	58	1892	216	135	6	M8 x 30	41
45 x 75	30	36	47	55	58	1912	216	135	6	M8 x 30	41
48 x 80	30	36	47	55	58	2137	221	142	6	M8 x 30	41
50 x 80	30	36	47	55	58	2167	221	143	6	M8 x 30	41
55 x 85	30	36	47	55	77	2677	221	143	8	M8 x 30	41
60 x 90	30	36	47	55	77	2853	197	131	8	M8 x 30	41
65 x 95	30	36	47	55	77	3500	206	142	8	M8 x 30	41
70 x 110	40	46	57	67	125	5717	221	142	8	M10 x 35	83
75 x 115	40	46	62	72	125	6207	216	148	8	M10 x 35	83
80 x 120	40	46	62	72	125	6707	198	139	8	M10 x 35	83
85 x 125	40	46	62	72	156	8002	216	157	10	M10 x 35	83
90 x 130	40	46	62	72	156	8502	197	143	10	M10 x 35	83
95 x 135	40	46	62	72	156	10002	187	138	10	M10 x 35	83
100 x 145	46	52	77	89	182	13336	197	148	8	M12 x 45	145

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 71 Locking devices

Moyeux de serrage

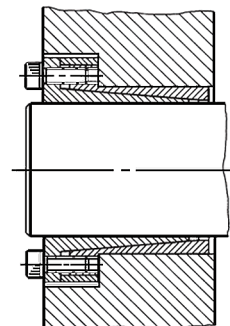
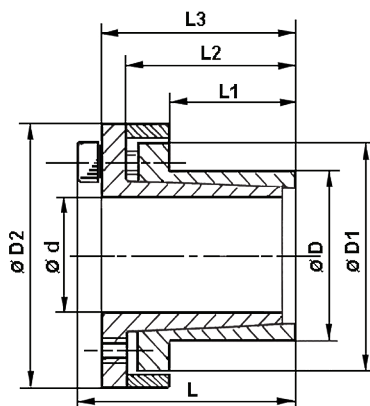
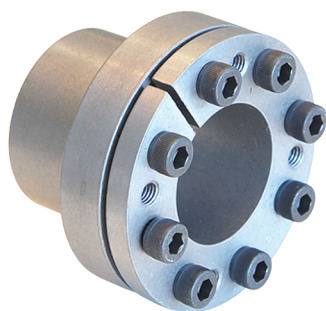


BTK 71	Dimensions of locking devices				Transmitted Axial Force kN	Transmitted Torque Nm	Contact pressure		Locking screws DIN 912 - Mat. 12.9		Locking Torque Nm
	ø d x ø D	L1	L2	L3			L	Shaft h8 N/mm ²	Hub H8 N/mm ²	N°	
110 x 145	46	52	77	89	275	16867	192	136	8	M12 x 45	145
120 x 165	46	52	77	89	343	22064	211	152	10	M12 x 45	145
130 x 180	46	52	77	89	412	23535	192	137	12	M12 x 45	145
140 x 190	51	59	84	98	373	30210	192	142	8	M14 x 45	230
150 x 200	51	59	84	98	467	36440	201	150	10	M14 x 45	230
160 x 210	51	59	84	98	467	39730	201	150	10	M14 x 45	230
170 x 225	51	59	84	98	560	47617	160	120	12	M14 x 45	230
180 x 235	51	59	84	98	560	50418	180	138	12	M14 x 45	230
190 x 250	51	59	84	98	700	66526	213	162	15	M14 x 45	230
200 x 260	51	59	84	98	700	70027	202	156	15	M14 x 45	230
220 x 285	64	72	100	116	757	83243	158	122	12	M16 x 60	355
240 x 305	64	72	100	116	946	113517	182	143	15	M16 x 60	355
260 x 325	64	72	100	116	1135	147560	201	161	18	M16 x 60	355
280 x 355	75	83	123	141	1226	171582	172	136	16	M18 x 80	485
300 x 375	75	83	123	141	1379	206809	181	145	18	M18 x 80	485
320 x 405	90	98	142	162	1766	282493	181	143	18	M20 x 100	690
340 x 425	90	98	142	162	2060	350180	199	159	21	M20 x 100	690
360 x 455	110	118	166	188	2164	389480	161	127	18	M22 x 110	930
380 x 475	110	118	166	188	2524	479634	178	142	21	M22 x 110	930
400 x 495	100	118	166	188	2524	504878	186	150	21	M22 x 110	930

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 80 Locking devices

Moyeux de serrage

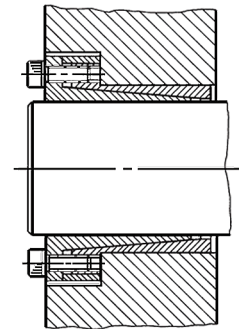
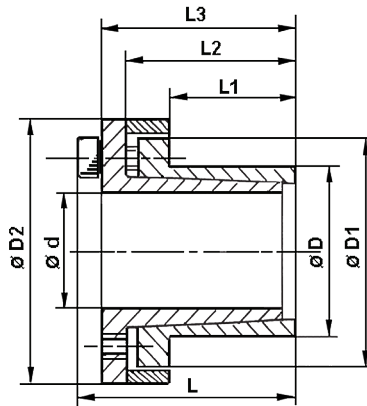
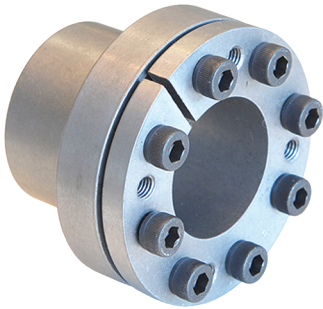


BTK 80		Dimensions of locking devices				Transmitted Axial Force	Transmitted Torque	Contact pressure		Locking screws		Locking Torque
ø d x ø D	ø d x ø D	L1	L2	L3	L	kN	Nm	Shaft h8	Hub H8	N°	Size	Nm
								N/mm ²	N/mm ²			
6 x 14	23 x 25	10	18,5	22,5	25,5	10	12	182	78	3	M3 x 10	2,2
8 x 15	24 x 27	12	21,5	25,5	29,5	10	28	198	104	3	M4 x 10	4,81
9 x 16	25 x 28	14	23,5	27,5	31,5	10	31	150	85	3	M4 x 12	5,2
10 x 16	25 x 28	14	23,5	27,5	31,5	10	35	135	85	3	M4 x 12	5,2
11 x 18	28 x 32	14	23,5	27,5	31,5	10	51	163	100	4	M4 x 12	5,2
12 x 18	28 x 32	14	23,5	27,5	31,5	10	56	151	100	4	M4 x 12	5,2
14 x 23	35 x 39	14	23,5	27,5	31,5	10	66	129	78	4	M4 x 12	5,2
15 x 24	40 x 45	16	29,5	35,6	42,5	16	175	189	135	4	M6 x 18	17
16 x 24	40 x 45	16	29,5	35,6	42,5	16	175	202	135	4	M6 x 18	13
18 x 26	42 x 47	19	32,5	39,5	45,5	21	196	180	124	4	M6 x 18	17
19 x 27	43 x 49	19	32,5	39,5	45,5	21	207	170	119	4	M6 x 18	17
20 x 28	44 x 50	19	32,5	39,5	45,5	21	219	161	115	4	M6 x 18	15
22 x 32	48 x 54	26	39,5	46,5	52,5	21	226	99	67	4	M6 x 18	17
24 x 34	50 x 56	26	39,5	46,5	52,5	21	392	146	102	6	M6 x 18	17
25 x 34	50 x 56	26	39,5	46,5	52,5	21	411	140	102	6	M6 x 18	17
28 x 39	55 x 61	25,5	39,5	46,5	52,5	27	460	125	90	6	M6 x 18	17
30 x 41	57 x 63	25,5	39,5	46,5	52,5	32	490	116	85	6	M6 x 18	17
32 x 43	59 x 65	25,5	39,5	46,5	52,5	32	701	146	108	8	M6 x 18	17
35 x 47	62 x 69	31,5	45,5	52,5	58,5	43	720	97	72	8	M6 x 18	17
38 x 50	66 x 72	31,5	45,5	52,5	58,5	43	781	90	68	8	M6 x 18	17
40 x 53	69 x 75	31,5	45,5	52,5	58,5	48	768	85	64	8	M6 x 18	17
42 x 55	71 x 78	31,5	45,5	52,5	58,5	48	863	80	64	8	M6 x 18	17
45 x 59	80 x 86	45	62,5	71	79	79	1711	100	76	8	M8 x 22	42
48 x 62	81 x 87	45	62,5	71	79	79	1824	93	72	8	M8 x 22	42
50 x 65	86 x 92	45	62,5	71	79	99	1902	90	68	8	M8 x 22	42

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 80

Locking devices Moyeux de serrage

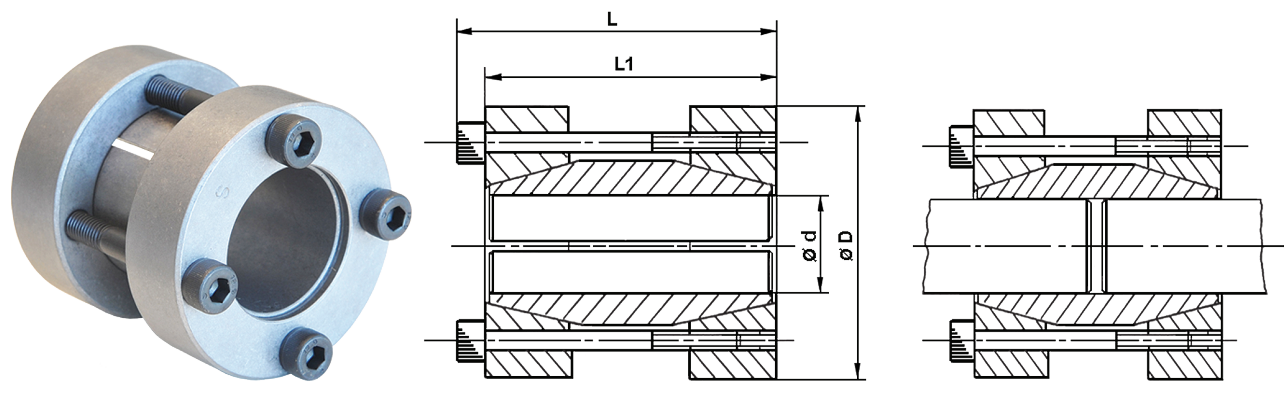


BTK 80		Dimensions of locking devices				Transmitted Axial Force	Transmitted Torque	Contact pressure Shaft h8	Hub H8	Locking screws DIN 912 - Mat. 12.9		Locking Torque
ø d x ø D	ø d x ø D	L1	L2	L3	L	kN	Nm	N/mm ²	N/mm ²	N°	Size	Nm
55 x 71	92 x 98	55	72,5	81	89	99	2353	75	58	9	M8 x 22	42
60 x 77	98 x 104	55	72,5	81	89	99	2569	68	53	9	M8 x 22	42
65 x 84	105 x 111	55	72,5	81	89	99	2786	63	53	9	M8 x 22	42
70 x 90	113 x 119	65	86,5	96,5	106,5	127	4755	79	61	9	M10 x 25	84
75 x 95	119 x 126	65	86,5	96,5	106,5	142	5100	73	57	9	M10 x 25	84
80 x 100	125 x 131	65	86,5	96,5	106,5	190	7250	92	57	12	M10 x 25	84
85 x 106	131 x 137	65	86,5	96,5	106,5	190	7700	86	57	12	M10 x 25	84
90 x 112	137 x 144	65	86,5	96,5	106,5	222	8160	81	57	12	M10 x 25	84
95 x 120	142 x 149	65	86,5	96,5	106,5	222	10800	98	80	14	M10 x 25	84
100 x 125	147 x 154	65	86,5	96,5	106,5	273	14800	118	93	18	M10 x 25	84
110 x 140	168 x 177	70	94	107	119	273	15016	105	82	12	M12 x 30	145
120 x 155	185 x 195	90	114	127	139	364	21844	99	77	16	M12 x 30	145
130 x 165	195 x 205	90	114	127	139	364	23664	92	72	16	M12 x 30	145
140 x 175	205 x 215	90	114	127	139	364	25485	85	68	16	M12 x 30	145
150 x 185	215 x 225	90	114	127	139	364	27305	80	64	16	M12 x 30	145

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.

BTK 95 Locking devices

Moyeux de serrage



BTK 95	Dimensions of locking devices		Transmitted Axial Force kN	Transmitted Torque Nm	Pressure Shaft h8 N/mm ²	Locking screws DIN 912 - Mat. 12.9		Locking Torque Nm
	ø d x ø D	L1				L	N°	
17 x 50	50	56	21	200	110	4	M6 x 45	17
18 x 50	50	56	21	220	110	4	M6 x 40	17
19 x 50	50	56	21	230	110	4	M6 x 45	17
20 x 50	50	56	21	240	105	4	M6 x 45	17
24 x 55	60	66	32	290	120	4	M6 x 55	17
25 x 55	60	66	32	450	110	6	M6 x 55	17
28 x 60	60	66	32	510	110	6	M6 x 55	17
30 x 60	60	66	32	550	105	6	M6 x 55	17
32 x 63	60	66	32	580	90	6	M6 x 55	17
35 x 75	75	83	39	760	105	4	M8 x 70	42
38 x 75	75	83	39	850	100	4	M8 x 70	42
40 x 75	75	83	39	900	95	4	M8 x 70	42
42 x 78	75	83	39	930	90	4	M8 x 70	42
45 x 85	85	93	59	1520	110	6	M8 x 80	42
48 x 90	85	93	59	1600	100	6	M8 x 80	42
50 x 90	85	93	59	1690	95	6	M8 x 80	42
55 x 94	85	93	78	2430	110	8	M8 x 80	42
60 x 100	85	93	78	2680	95	8	M8 x 80	42
65 x 105	85	93	78	2900	90	8	M8 x 80	42
70 x 115	100	110	123	3720	90	6	M10 x 80	83

Recommended machining tolerances for pressure surfaces : H8 for Hub and h8 for Shaft.



TORQUE WRENCH & ANGLE ADAPTOR FOR 1/2" SQUARE DRIVE RATCHES



Performance :

- Up to 50 memories.
- Electronic precision.
- Digital display.
- Can be pre-installed for 9 torques.

Ergonomy :

- Visualisation of the leds, even by not easy access.
- Very easy use : automatic test.
- LED & beeper.



- DIN & ISO 6789 - NF
- Accuracy :
 - Torque : +/- 3% between 20% and 100% of the adaptor capacity.
 - Angle : +/- 2%
- Unit of measurement : Nm, ft.lb, In.lb, Kg.cm & degrees.
- Possibility to lock the keyboard, only the user can access to the choice of program or memorised results.
- Delivered with Oak-certificate.



- E.506-135S
- E.506-200S
- E.506-340S

Adaptor Torque	Nm Min.-Max.	Square	Weight
135 Nm	6,8 - 135 Nm	1/2"	268 g
200 Nm	10 - 200 Nm	1/2"	268 g
340 Nm	17 - 340 Nm	1/2"	268 g



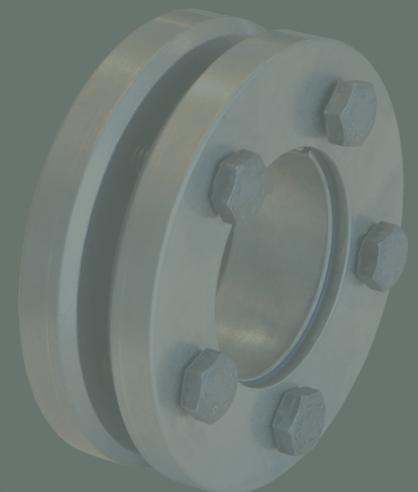
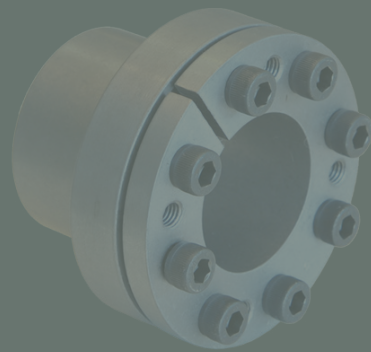
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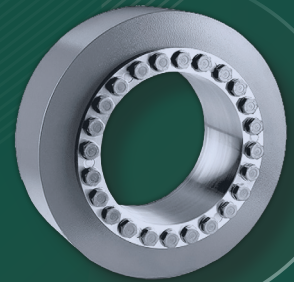
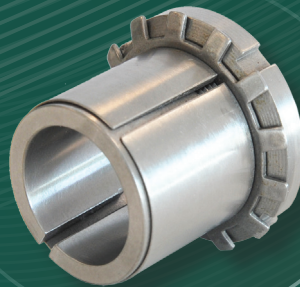
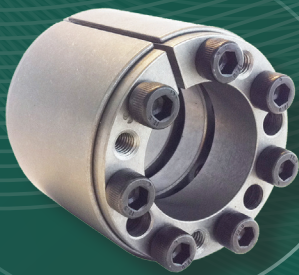
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