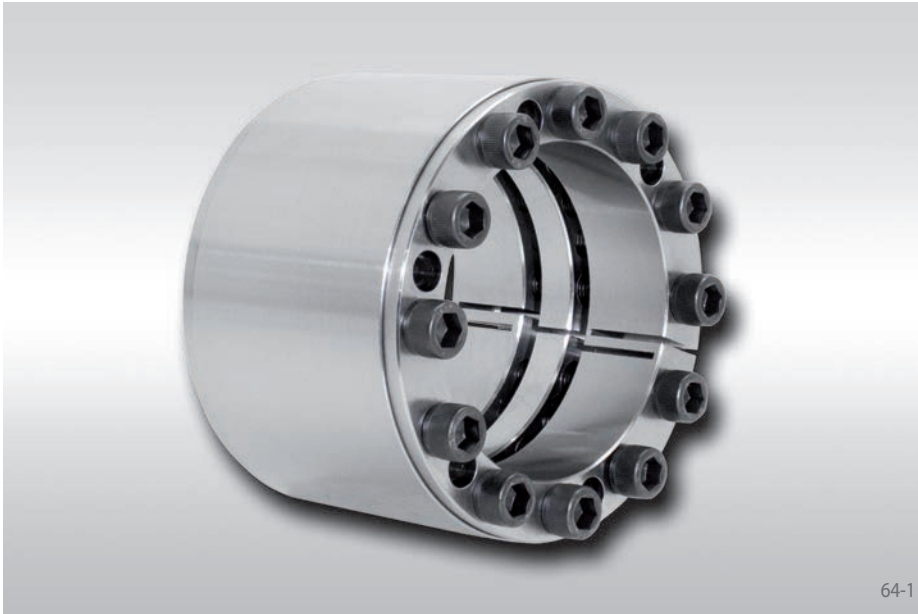


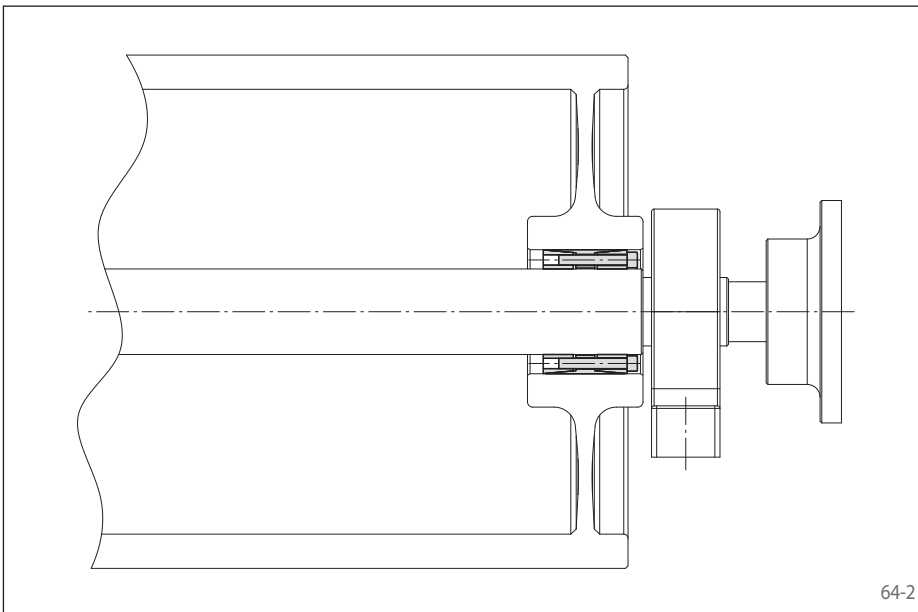
Cone Clamping Elements RLK 402 TC

Premium quality for high centering accuracy
Can be assembled multiple times



Features

- Centres the shaft to the hub. Double slot for high centering accuracy.
- Can be assembled multiple times
- Highest transmissible torque
- For heavy duty applications
- No axial displacement between hub and shaft during clamping procedure
- Highest machining quality
- Transmissible torque of 50 500 Nm up to 1 701 000 Nm
- For shaft diameters between 130 mm and 600 mm



Application example

Backlash free attachment of a belt drum to the drive shaft of a conveyor belt with a Cone Clamping Element RLK 402 TC. The Cone Clamping Element can be used to transmit all acting loads of a driven belt drum. It centres the belt drum on the drive shaft. As no axial shift occurs during the clamping process, the axial position of the belt drum in relation to the drive shaft remains unchanged.

Transmissible torques and axial forces

The transmissible torques or axial forces listed on the following page are subject to the following tolerances, surface characteristics and material requirements. Please contact us in the case of deviations.

Tolerances

- h8 for shaft diameter d
- H8 for hub bore D

Surfaces

Average surface roughness at the contact surfaces between the shaft and the hub bore:
 $R_z = 10 \dots 25 \mu\text{m}$.

Materials

The following apply to the shaft and the hub:

- E-module $\geq 170 \text{ kN/mm}^2$

Installation

Please request our installation and operating instructions for Cone Clamping Elements RLK 402 TC.

Simultaneous transmission of torque and axial force

The transmissible torques M which are shown in the tables apply for axial forces $F = 0 \text{ kN}$ and conversely, the indicated axial forces F apply to torques $M = 0 \text{ Nm}$. If torque and axial force are to be transmitted simultaneously, the transmissible torque and the transmissible axial force are reduced. Please refer to the technical points on pages 74 and 75.

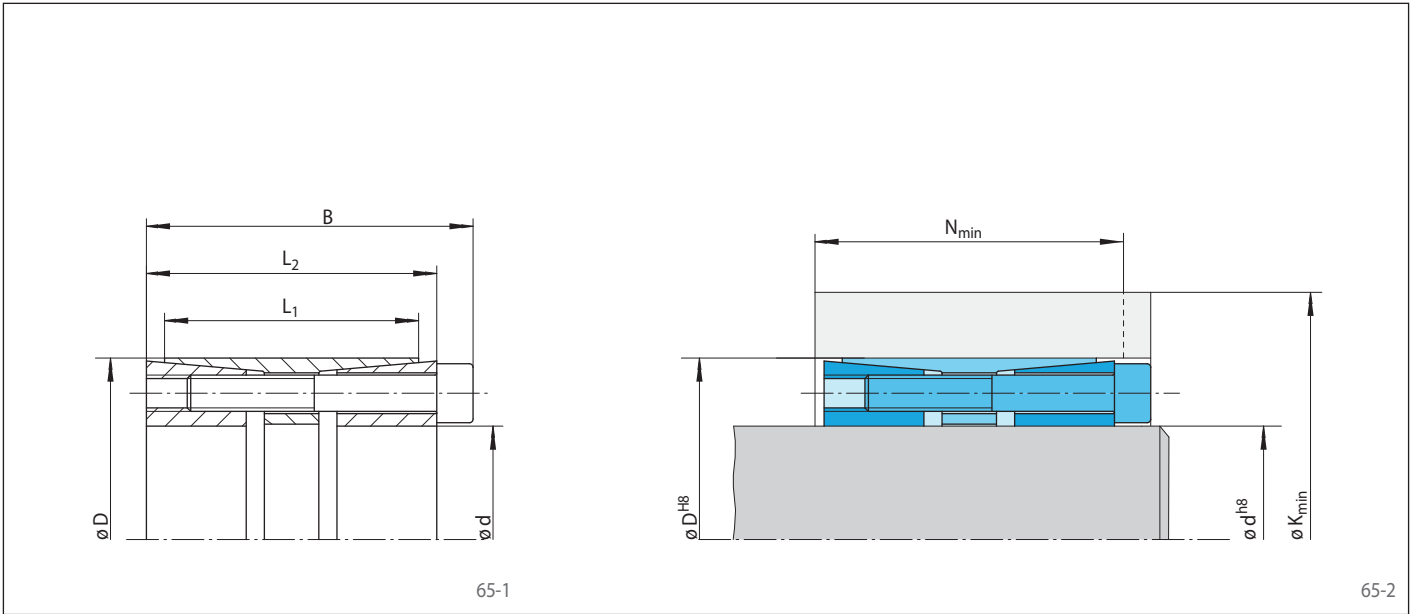
Example for ordering

Cone Clamping Element RLK 402 TC for shaft diameter $d = 130 \text{ mm}$:

- RLK 402 TC, size 130 x 180
Article number 4205-130201-TC0000

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Dimensions												Technical Data								Article number
Size		B mm	L ₁ mm	L ₂ mm	Yield strength R _e of the hub material [N/mm ²]						Transmissible torque or axial force		Contact pressure at		Clamping screws			Weight kg		
d mm	D mm				200	320	500	M	F	Shaft	Hub	Tightening torque	Number	Size	Length					
		K _{min} mm	N _{min} mm	K _{min} mm	N _{min} mm	K _{min} mm	N _{min} mm	Nm	kN	P _w N/mm ²	P _N N/mm ²	M _s Nm		mm						
130	180	130	104	116	439	151	312	119	254	105	50 500	780	184	133	229	12	M 14	90	9,7	4205-130201-TC0000
140	190	130	104	116	495	163	347	126	278	108	63 500	900	200	147	229	14	M 14	90	10,2	4205-140201-TC0000
150	200	130	104	116	518	166	365	128	293	110	72 500	970	200	150	229	15	M 14	90	10,2	4205-150201-TC0000
160	210	130	104	116	543	169	385	129	309	110	82 500	1 050	202	154	229	16	M 14	90	11,4	4205-160201-TC0000
170	225	162	134	146	553	192	391	152	318	134	105 000	1 250	176	133	354	14	M 16	110	17,1	4205-170201-TC0000
180	235	162	134	146	581	197	412	155	334	135	119 500	1 350	178	136	354	15	M 16	110	18,0	4205-180201-TC0000
190	250	162	134	146	605	199	434	156	354	136	134 500	1 400	180	137	354	16	M 16	110	20,8	4205-190201-TC0000
200	260	162	134	146	601	196	439	155	363	136	141 500	1 400	171	132	354	16	M 16	110	21,9	4205-200201-TC0000
220	285	162	134	146	656	201	484	158	401	137	175 000	1 600	178	138	354	18	M 16	110	25,5	4205-220201-TC0000
240	305	162	134	146	705	208	523	163	432	140	212 000	1 750	181	143	354	20	M 16	110	27,9	4205-240201-TC0000
260	325	162	134	146	707	202	537	159	451	138	229 500	1 750	171	137	354	20	M 16	110	30,3	4205-260201-TC0000
280	355	197	165	177	832	249	613	195	504	168	348 000	2 500	182	143	692	18	M 20	140	45,6	4205-280201-TC0000
300	375	197	165	177	895	260	658	201	540	172	414 500	2 800	188	151	692	20	M 20	140	50,7	4205-300201-TC0000
320	405	197	165	177	920	259	691	202	574	173	464 000	2 900	185	147	692	21	M 20	140	66,5	4205-320201-TC0000
340	425	197	165	177	948	261	718	204	599	174	516 500	3 000	183	146	692	22	M 20	140	63,8	4205-340201-TC0000
360	455	224	190	202	1016	290	765	228	638	196	649 500	3 600	178	141	945	21	M 22	160	79,8	4205-360201-TC0000
380	475	224	190	202	1048	293	794	230	665	198	718 000	3 800	176	141	945	22	M 22	160	79,8	4205-380201-TC0000
400	495	224	190	202	1111	304	841	237	701	202	824 500	4 100	183	148	945	24	M 22	160	91,0	4205-400201-TC0000
420	515	224	190	202	1110	299	852	235	717	201	866 000	4 100	174	142	945	24	M 22	160	92,1	4205-420201-TC0000
440	535	224	190	202	1112	294	865	233	735	200	907 000	4 100	166	137	945	24	M 22	160	96,6	4205-440201-TC0000
460	555	224	190	202	1115	290	878	231	752	200	948 500	4 100	159	132	945	24	M 22	160	103,2	4205-460201-TC0000
480	575	224	190	202	1230	314	953	245	805	208	1 154 500	4 800	178	148	945	28	M 22	160	108,4	4205-480201-TC0000
500	595	224	190	202	1232	309	965	243	822	207	1 202 500	4 800	171	143	945	28	M 22	160	112,5	4205-500201-TC0000
520	615	224	190	202	1288	318	1 008	248	856	211	1 340 000	5 200	176	149	945	30	M 22	160	117,3	4205-520201-TC0000
540	635	224	190	202	1292	314	1 021	247	873	210	1 391 500	5 200	169	144	945	30	M 22	160	121,1	4205-540201-TC0000
560	655	224	190	202	1346	323	1 063	252	907	213	1 539 500	5 500	174	149	945	32	M 22	160	125,6	4205-560201-TC0000
580	675	224	190	202	1375	325	1 090	254	933	215	1 644 500	5 700	173	149	945	33	M 22	160	134,1	4205-580201-TC0000
600	695	224	190	202	1380	321	1 103	252	950	214	1 701 000	5 700	168	145	945	33	M 22	160	132,9	4205-600201-TC0000