

# Cone Clamping Elements RLK 133 TC

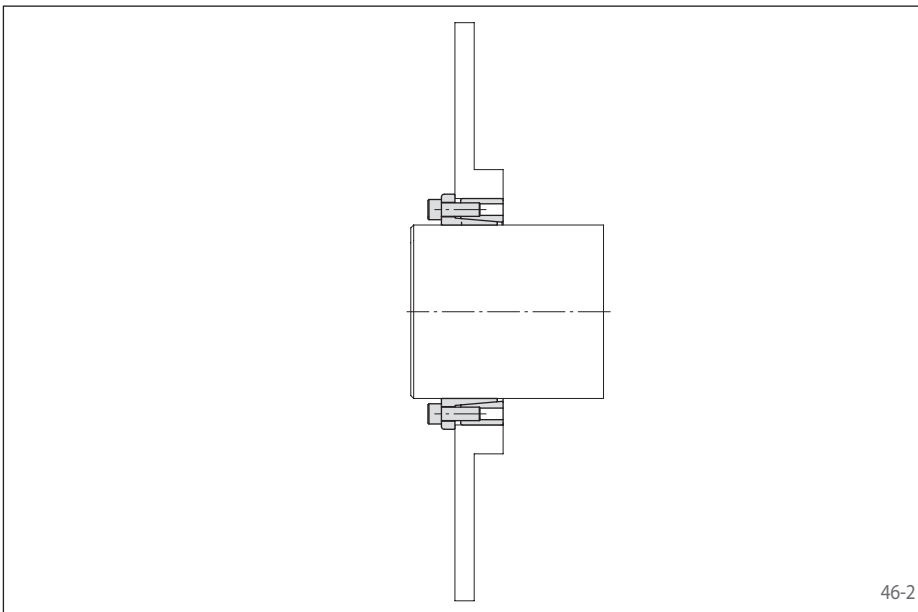
Premium quality for high centering accuracy  
Can be assembled multiple times



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## Features

- Centres the shaft to the hub. Double slot for high centering accuracy.
- Can be assembled multiple times
- Highest transmissible torque
- Short axial width
- No axial displacement between hub and shaft during clamping procedure due to fixed backstop point
- Highest machining quality
- Transmissible torque of 19 500 Nm up to 567 500 Nm
- For shaft diameters between 130 mm and 520 mm



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## Application example

Backlash free connection of a brake disc to the drive shaft with a Cone Clamping Element RLK 133 TC. Due to the fixed backstop point, the brake disc is not displaced axially during clamping. The Cone Clamping Element also centres the brake disc to the shaft. The compact Cone Clamping Element is a cost-efficient solution especially for applications with low space requirements.

## 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 133 TC.

## Simultaneous transmission of torque and axial force

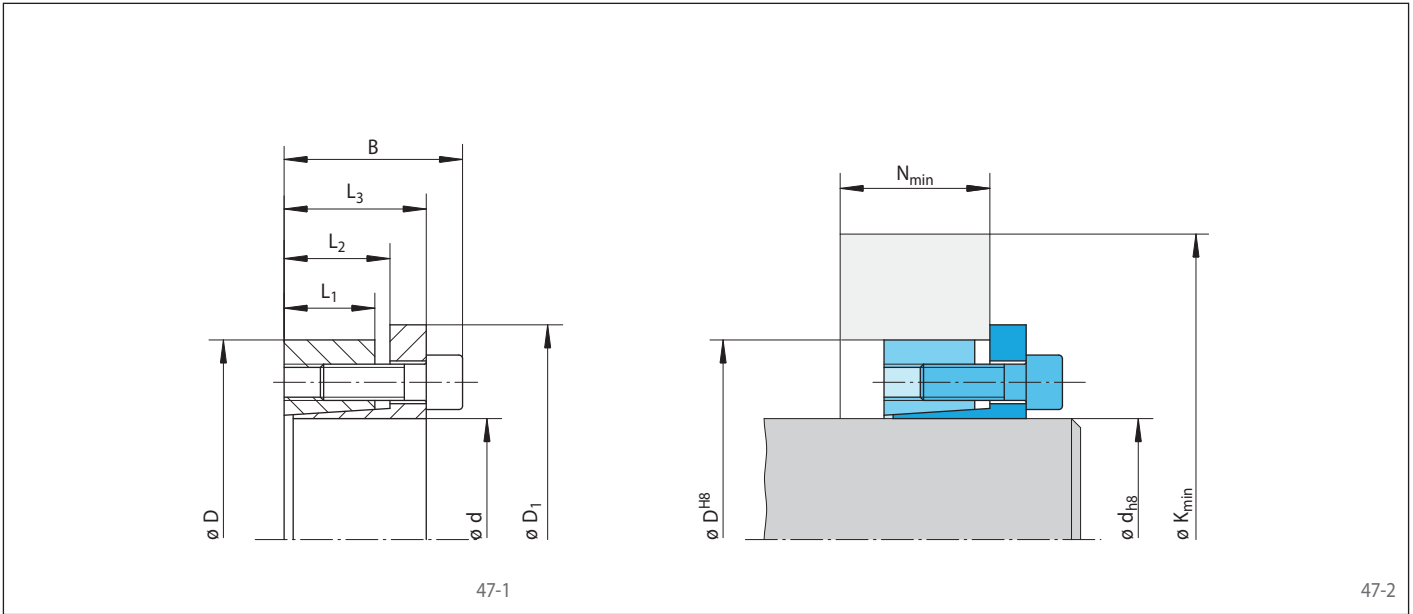
The transmissible torques M which are shown in the tables apply for axial forces  $F = 0 \text{ kN}$  and conversely, the indicated axial forces F apply to torques  $M = 0 \text{ Nm}$ . If torque and axial force are to be transmitted simultaneously, the transmissible torque and the transmissible axial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

## Example for ordering

Cone Clamping Element RLK 133 TC for shaft diameter  $d = 130 \text{ mm}$ :

- RLK 133 TC, size 130 x 180  
Article number 4204-130301-TC0000

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Dimensions													Technical Data										Article number
Size		Yield strength $R_e$ of the hub material [N/mm <sup>2</sup> ]							Transmissible torque or axial force		Contact pressure at		Clamping screws				Weight						
d mm	D mm	200		320		500			M Nm	F kN	Shaft $P_W$ N/mm <sup>2</sup>	Hub $P_N$ N/mm <sup>2</sup>	Tightening torque $M_5$ Nm	Number	Size	Length mm		kg					
130	180	189	64	34	40	52	326	71	269	57	237	49	19500	300	180	130	144	12	M 12	30	5,1	4204-130301-TC0000	
140	190	199	68	34	40	54	336	71	280	57	248	49	21500	310	172	127	229	9	M 14	40	5,3	4204-140301-TC0000	
150	200	209	68	34	40	54	358	74	298	59	263	50	25500	340	178	134	229	10	M 14	40	5,6	4204-150301-TC0000	
160	210	219	68	34	40	54	379	77	315	61	278	51	30000	380	184	140	229	11	M 14	40	6,0	4204-160301-TC0000	
170	225	234	78	44	50	64	381	83	321	68	286	60	35000	410	146	110	229	12	M 14	40	8,2	4204-170301-TC0000	
180	235	244	78	44	50	64	387	82	329	68	295	59	37000	410	138	106	229	12	M 14	40	8,6	4204-180301-TC0000	
190	250	259	78	44	50	64	435	91	365	73	324	63	48500	510	163	124	229	15	M 14	40	10,0	4204-190301-TC0000	
200	260	269	78	44	50	64	441	90	373	73	333	63	51500	510	155	119	229	15	M 14	40	10,4	4204-200301-TC0000	
220	285	294	88	50	56	72	463	95	396	78	356	68	61500	560	136	105	354	12	M 16	40	13,9	4204-220301-TC0000	
240	305	314	88	50	56	72	520	104	440	84	392	72	84000	700	155	122	354	15	M 16	40	14,8	4204-240301-TC0000	
260	325	334	88	50	56	72	575	113	482	90	427	76	109500	840	172	138	354	18	M 16	40	16,1	4204-260301-TC0000	
280	355	364	102	60	66	84	592	120	503	97	451	84	127500	910	144	114	492	16	M 18	50	23,6	4204-280301-TC0000	
300	375	384	102	60	66	84	635	125	538	101	481	87	154000	1050	152	121	492	18	M 18	50	25,7	4204-300301-TC0000	
320	405	414	121	74	81	101	692	146	582	119	519	103	210500	1300	148	117	692	18	M 20	50	36,1	4204-320301-TC0000	
340	425	434	121	74	81	101	753	156	628	125	556	107	261000	1550	162	130	692	21	M 20	50	38,3	4204-340301-TC0000	
360	455	464	138	86	94	116	769	165	648	135	578	117	294500	1650	141	111	945	18	M 22	60	52,5	4204-360301-TC0000	
380	475	484	138	86	94	116	835	176	697	142	617	122	363000	1900	155	124	945	21	M 22	60	55,0	4204-380301-TC0000	
400	495	504	138	86	94	116	846	174	713	141	636	122	382000	1900	148	119	945	21	M 22	60	60,3	4204-400301-TC0000	
420	515	524	138	86	94	116	876	176	740	143	661	123	420000	2000	147	120	945	22	M 22	60	62,9	4204-420301-TC0000	
440	535	544	138	86	94	116	888	174	757	142	679	122	440000	2000	141	116	945	22	M 22	60	65,6	4204-440301-TC0000	
460	555	564	138	86	94	116	902	173	774	141	698	122	460000	2000	135	112	945	22	M 22	60	68,3	4204-460301-TC0000	
480	575	584	138	86	94	116	947	179	810	145	729	125	523500	2200	141	118	945	24	M 22	60	71,0	4204-480301-TC0000	
500	595	604	138	86	94	116	960	177	828	145	748	125	545500	2200	135	114	945	24	M 22	60	73,7	4204-500301-TC0000	
520	615	624	138	86	94	116	975	176	845	144	766	124	567500	2200	130	110	945	24	M 22	60	75,9	4204-520301-TC0000	