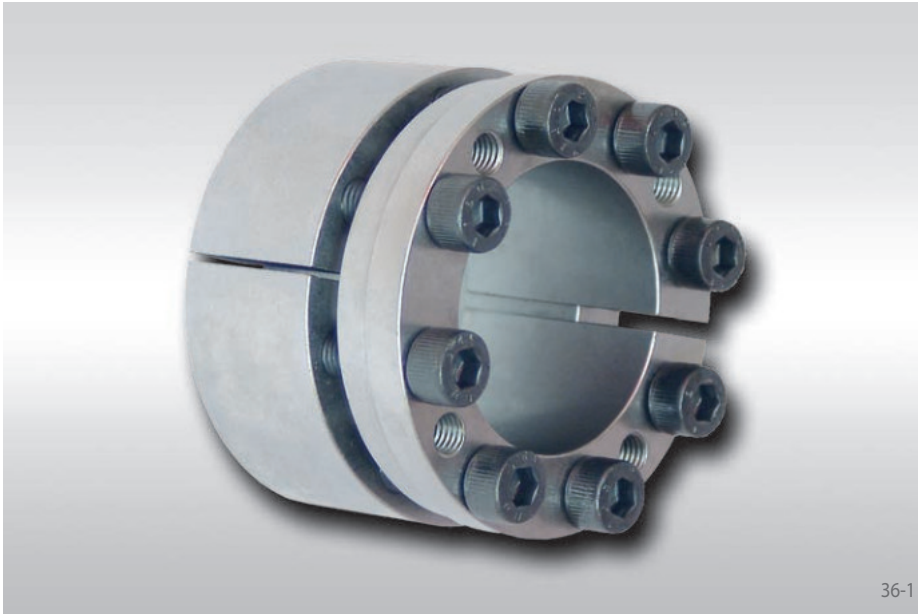


Cone Clamping Elements RLK 130

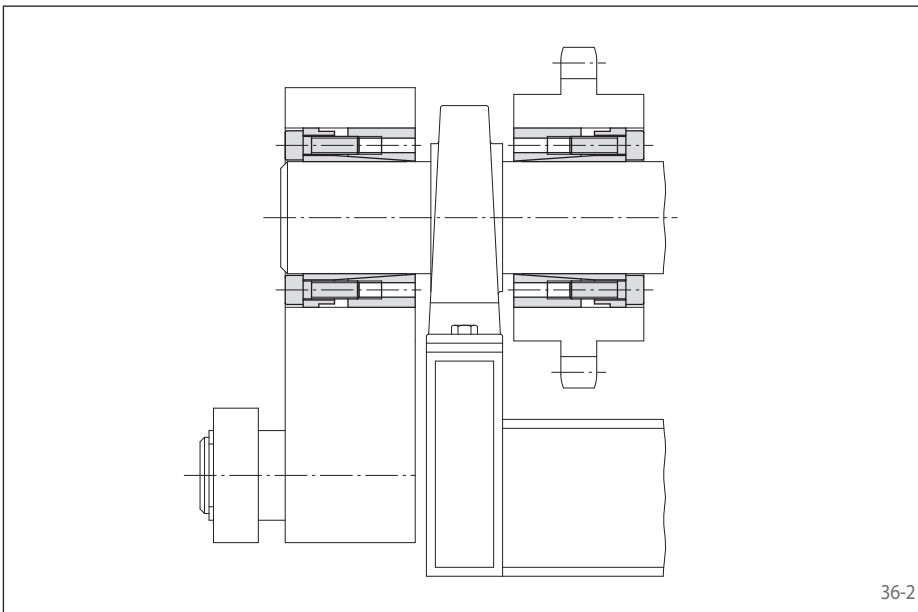
centres the hub to the shaft
very high transmissible torques



36-1

Features

- Centres the shaft to the hub
- Very high transmissible torques
- Transmissible torque of 580 Nm up to 70 000 Nm
- For shaft diameters between 20 mm and 180 mm



36-2

Application example

Backlash free connection of an eccentric lift unit and a sprocket to the drive shaft of a hoisting device using Cone Clamping Elements RLK 130. The eccentric force applied to the eccentric lift unit results in the Cone Clamping Element transmitting not only torque, but also forces and bending moments.

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 130.

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 72 and 73.

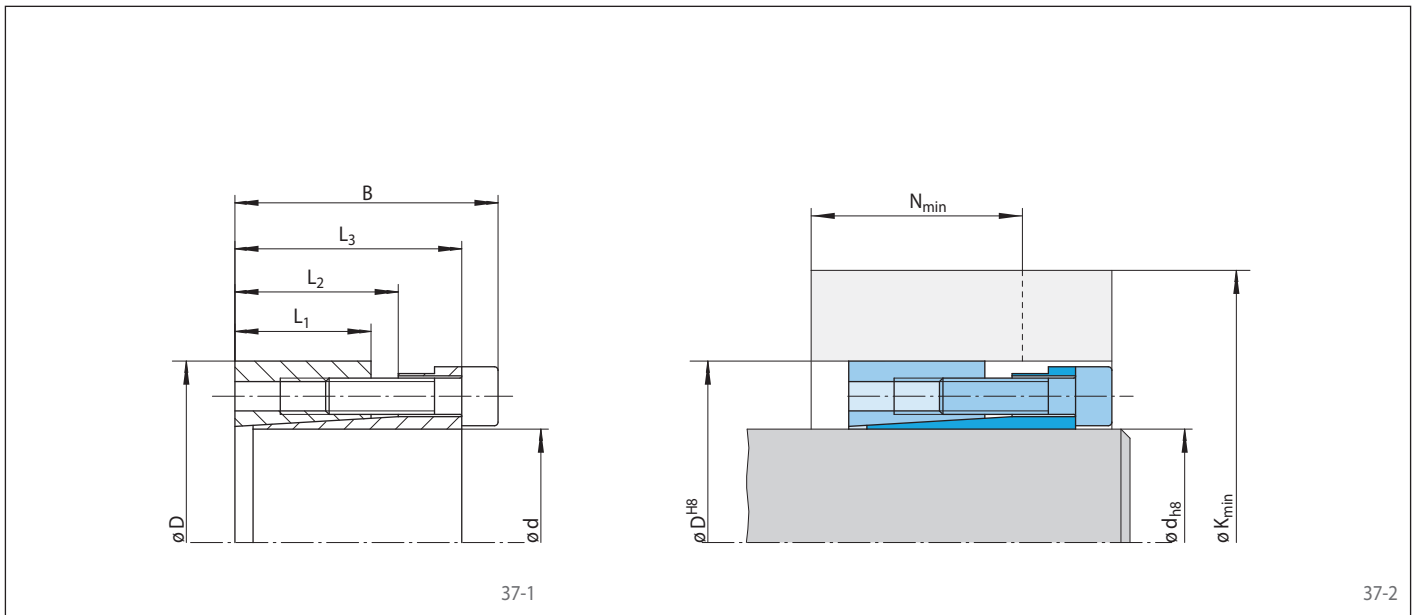
Example for ordering

Cone Clamping Element RLK 130 for shaft diameter $d = 100 \text{ mm}$:

- RLK 130, size 100 x 145
Article number 4204-100001-000000

Cone Clamping Elements RLK 130

centres the hub to the shaft
very high transmissible torques



Dimensions												Technical Data										Article number
Size		D	B	L ₁	L ₂	L ₃	Yield strength R _e of the hub material [N/mm ²]						Transmissible torque or axial force		Contact pressure at		Clamping screws			Weight		
d	mm						200	320	500	M	F	Shaft P _w	Hub P _N	Tightening torque M ₅	Number	Size	Length	kg				
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm	kN	N/mm ²	N/mm ²	Nm		mm					
20	47	48	26	31	42	92	49	73	39	63	34	580	58	294	126	17,4	6	M 6	25	0,4	4204-020001-000000	
22	47	48	26	31	42	92	49	73	39	63	34	630	58	268	126	17,4	6	M 6	25	0,4	4204-022001-000000	
24	50	48	26	31	42	93	48	76	39	66	34	690	58	245	118	17,4	6	M 6	25	0,4	4204-024001-000000	
25	50	48	26	31	42	93	48	76	39	66	34	720	58	236	118	17,4	6	M 6	25	0,4	4204-025001-000000	
28	55	48	26	31	42	96	47	80	39	71	34	810	58	210	107	17,4	6	M 6	25	0,5	4204-028001-000000	
30	55	48	26	31	42	96	47	80	39	71	34	860	58	196	107	17,4	6	M 6	25	0,5	4204-030001-000000	
32	60	48	26	31	42	113	53	92	42	80	36	1250	77	245	131	17,4	8	M 6	25	0,5	4204-032001-000000	
35	60	48	26	31	42	113	53	92	42	80	36	1350	77	224	131	17,4	8	M 6	25	0,5	4204-035001-000000	
38	65	48	26	31	42	116	52	96	42	85	36	1450	77	207	121	17,4	8	M 6	25	0,6	4204-038001-000000	
40	65	48	26	31	42	116	52	96	42	85	36	1550	77	196	121	17,4	8	M 6	25	0,6	4204-040001-000000	
42	75	59	30	35	51	135	60	112	49	98	42	2200	110	222	125	42,2	6	M 8	30	1,0	4204-042001-000000	
45	75	59	30	35	51	135	60	112	49	98	42	2350	110	207	125	42,2	6	M 8	30	0,9	4204-045001-000000	
48	80	59	30	35	51	158	69	128	54	111	46	3400	140	259	156	42,2	8	M 8	30	1,1	4204-048001-000000	
50	80	59	30	35	51	158	69	128	54	111	46	3500	140	249	156	42,2	8	M 8	30	1,0	4204-050001-000000	
55	85	59	30	35	51	160	68	132	54	115	45	3900	140	226	146	42,2	8	M 8	30	1,1	4204-055001-000000	
60	90	59	30	35	51	163	67	135	53	119	45	4200	140	207	138	42,2	8	M 8	30	1,2	4204-060001-000000	
65	95	59	30	35	51	166	66	139	52	124	45	4600	140	191	131	42,2	8	M 8	30	1,2	4204-065001-000000	
70	110	70	40	45	60	201	86	166	68	146	58	7700	220	210	134	83,0	8	M 10	30	2,3	4204-070001-000000	
75	115	70	40	45	60	203	84	170	68	150	58	8300	220	196	128	83,0	8	M 10	30	2,5	4204-075001-000000	
80	120	70	40	45	60	206	83	174	67	155	58	8800	220	184	123	83,0	8	M 10	30	2,6	4204-080001-000000	
85	125	70	40	45	60	231	93	191	73	168	62	11700	280	216	147	83,0	10	M 10	30	2,7	4204-085001-000000	
90	130	70	40	45	60	233	92	195	73	172	61	12400	280	204	141	83,0	10	M 10	30	2,8	4204-090001-000000	
95	135	70	40	45	60	236	91	199	72	177	61	13000	280	193	136	83,0	10	M 10	30	3,2	4204-095001-000000	
100	145	80	45	52	68	253	99	213	79	189	67	16000	320	192	133	144,0	8	M 12	35	3,9	4204-100001-000000	
110	155	80	45	52	68	259	97	221	78	198	67	18000	320	175	124	144,0	8	M 12	35	4,8	4204-110001-000000	
120	165	80	45	52	68	290	108	245	85	218	72	24500	410	200	146	144,0	10	M 12	35	5,0	4204-120001-000000	
130	180	80	45	52	68	322	116	271	91	241	76	31500	490	221	160	144,0	12	M 12	35	6,0	4204-130001-000000	
140	190	90	50	58	76	341	126	286	98	254	82	39000	560	211	156	229,0	10	M 14	40	8,2	4204-140001-000000	
150	200	90	50	58	76	375	138	312	106	274	87	50000	670	236	177	229,0	12	M 14	40	8,7	4204-150001-000000	
160	210	90	50	58	76	380	135	320	105	283	87	53500	670	222	169	229,0	12	M 14	40	9,0	4204-160001-000000	
170	225	90	50	58	76	414	145	348	112	307	91	66000	780	243	184	229,0	14	M 14	40	10,0	4204-170001-000000	
180	235	90	50	58	76	420	143	356	111	316	91	70000	780	230	176	229,0	14	M 14	40	11,0	4204-180001-000000	

Morskate®



Any questions? Please contact us.

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