

Cone Clamping Elements RLK 132

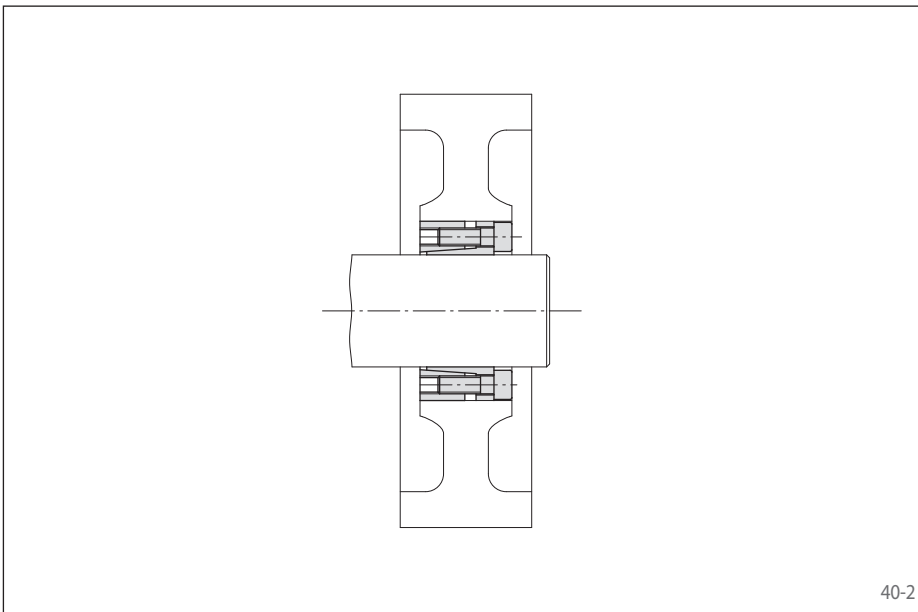
centres the hub to the shaft
short axial width



40-1

Features

- Centres the shaft to the hub
- High transmissible torques
- Short axial width
- Transmissible torque of 580 Nm up to 83 500 Nm
- For shaft diameters between 20 mm and 200 mm



40-2

Application example

Backlash free connection of a belt pulley to the drive shaft with a Cone Clamping Element RLK 132. The Cone Clamping Element also centres the pulley 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 132.

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.

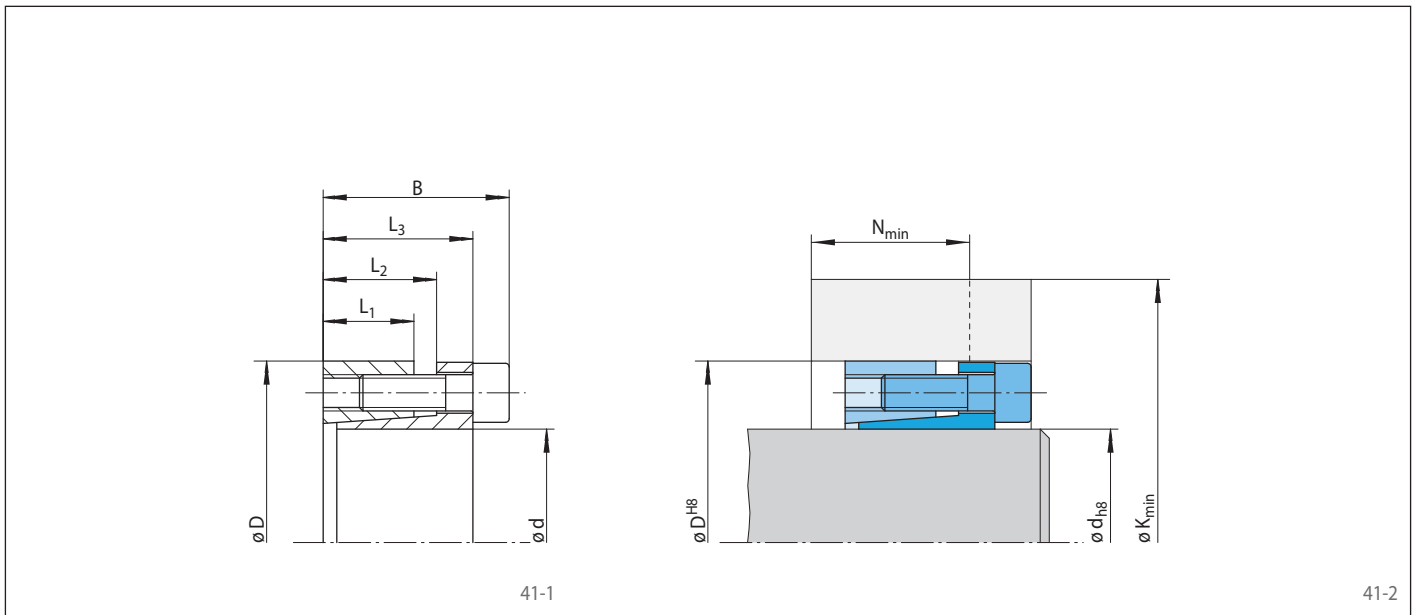
Example for ordering

Cone Clamping Element RLK 132 for shaft diameter $d = 100 \text{ mm}$:

- RLK 132, size 100 x 145
Article number 4204-100201-000000

Cone Clamping Elements RLK 132

centres the hub to the shaft
short axial width



Dimensions													Technical Data							Article number	
Size		Yield strength R_e of the hub material [N/mm ²]					Transmissible torque or axial force		Contact pressure at		Clamping screws			Weight							
d	D	B	L ₁	L ₂	L ₃	200		320		500		Shaft	Hub	Tightening torque		Num-ber	Size	Length	kg		
mm	mm	mm	mm	mm	mm	K _{min}	N _{min}	K _{min}	N _{min}	K _{min}	N _{min}	M	F	P _W		P _N	M ₅		mm		
20	47	34	17	22	28	104	46	81	34	69	28	580	58	450	192	17,4	6	M 6	20	0,3	4204-020201-000000
22	47	34	17	22	28	104	46	81	34	69	28	630	58	409	192	17,4	6	M 6	20	0,3	4204-022201-000000
24	50	34	17	22	28	104	44	83	34	71	28	690	58	375	180	17,4	6	M 6	20	0,3	4204-024201-000000
25	50	34	17	22	28	104	44	83	34	71	28	720	58	360	180	17,4	6	M 6	20	0,3	4204-025201-000000
28	55	34	17	22	28	106	43	87	33	76	28	810	58	322	164	17,4	6	M 6	20	0,3	4204-028201-000000
30	55	34	17	22	28	106	43	87	33	76	28	860	58	300	164	17,4	6	M 6	20	0,3	4204-030201-000000
32	60	34	17	22	28	124	49	100	37	86	30	1250	77	375	200	17,4	8	M 6	20	0,4	4204-032201-000000
35	60	34	17	22	28	124	49	100	37	86	30	1350	77	343	200	17,4	8	M 6	20	0,3	4204-035201-000000
38	65	34	17	22	28	126	48	104	37	91	30	1450	77	316	185	17,4	8	M 6	20	0,4	4204-038201-000000
40	65	34	17	22	28	126	48	104	37	91	30	1550	77	300	185	17,4	8	M 6	20	0,4	4204-040201-000000
42	75	41	20	25	33	152	59	124	45	107	36	2350	110	358	200	34,0	8	M 8	25	0,6	4204-042201-000000
45	75	41	20	25	33	152	59	124	45	107	36	2500	110	334	200	34,0	8	M 8	25	0,6	4204-045201-000000
48	80	41	20	24	33	158	59	130	45	113	37	2900	120	334	200	36,0	8	M 8	25	0,7	4204-048201-000000
50	80	41	20	24	33	158	59	130	45	113	37	3000	120	320	200	36,0	8	M 8	25	0,7	4204-050201-000000
55	85	41	20	24	33	167	61	137	46	120	38	3600	130	310	200	39,0	8	M 8	25	0,7	4204-055201-000000
60	90	41	20	24	33	173	62	144	47	126	38	4100	140	300	200	41,0	8	M 8	25	0,8	4204-060201-000000
65	95	41	20	24	33	177	61	149	47	131	38	4600	140	287	196	42,2	8	M 8	25	0,8	4204-065201-000000
70	110	50	24	29	40	210	74	175	57	154	46	7000	200	315	200	75,0	8	M 10	30	1,5	4204-070201-000000
75	115	50	24	29	40	216	75	181	57	160	47	7800	210	307	200	78,0	8	M 10	30	1,6	4204-075201-000000
80	120	50	24	29	40	224	76	188	58	166	47	8700	220	300	200	82,0	8	M 10	30	1,7	4204-080201-000000
85	125	50	24	29	40	230	77	194	59	172	48	9600	230	295	200	68,0	10	M 10	30	1,8	4204-085201-000000
90	130	50	24	29	40	237	78	201	60	178	48	10600	240	289	200	71,0	10	M 10	30	1,9	4204-090201-000000
95	135	50	24	29	40	242	78	206	60	184	49	11500	240	285	200	73,0	10	M 10	30	2,0	4204-095201-000000
100	145	56	26	31	44	261	84	222	65	197	52	14000	280	290	200	126,0	8	M 12	30	2,6	4204-100201-000000
110	155	56	26	31	44	274	86	234	66	209	53	16500	300	282	200	135,0	8	M 12	30	2,8	4204-110201-000000
120	165	56	26	31	44	286	87	246	67	221	54	19500	320	275	200	127,0	9	M 12	30	3,6	4204-120201-000000
130	180	64	34	39	52	328	108	277	83	246	67	30000	460	277	200	136,0	12	M 12	30	4,4	4204-130201-000000
140	190	68	34	39	54	341	110	290	84	258	68	34000	490	272	200	223,0	9	M 14	40	4,9	4204-140201-000000
150	200	68	34	39	54	354	111	303	86	270	69	38500	510	267	200	211,0	10	M 14	40	5,2	4204-150201-000000
160	210	68	34	39	54	367	113	315	87	283	71	43000	540	263	200	185,0	12	M 14	40	5,6	4204-160201-000000
170	225	78	44	49	64	396	130	337	100	301	82	56500	670	237	179	229,0	12	M 14	40	6,9	4204-170201-000000
180	235	78	44	49	64	402	128	346	100	310	82	60000	670	224	172	229,0	12	M 14	40	8,5	4204-180201-000000
190	250	78	44	49	64	447	143	381	110	339	89	79000	830	264	200	228,0	15	M 14	40	9,0	4204-190201-000000
200	260	78	44	49	64	454	141	389	109	349	89	83500	830	252	194	229,0	15	M 14	40	9,6	4204-200201-000000

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Any questions? Please contact us.

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