

Cone Clamping Elements RLK 500

for coupling of shafts

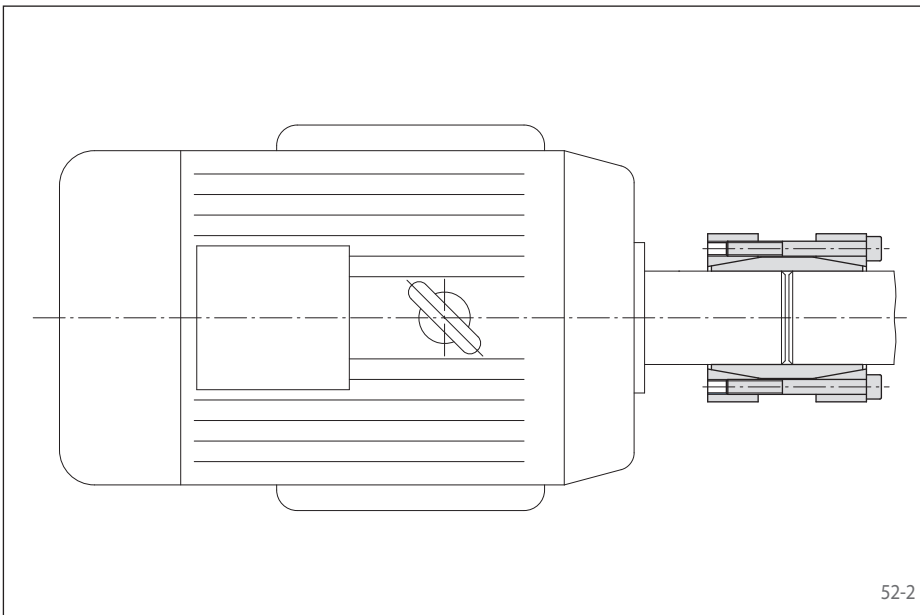
Morskate®



52-1

Features

- Rigid shaft coupling
- Centers the shaft to the shaft
- Easy to release
- For shaft diameters between 14 mm and 100 mm



52-2

Application example

Simple and cost-effective connection of two shaft ends with a Cone Clamping Element RLK 500. The Cone Clamping Element connects the shafts without backlash.

Transmissible torques and axial forces

The transmissible torques or axial forces listed on page 53 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

Surfaces

Average surface roughness at the contact surfaces of the shafts $R_a \leq 3,2 \mu\text{m}$.

Materials

The following apply to the shaft and the hub:

- E-module ca. 170 kN/mm^2

Installation

The shaft ends must at least overlap L_1 .

Please request our installation and operating instructions for Cone Clamping Elements RLK 500.

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 54 and 55.

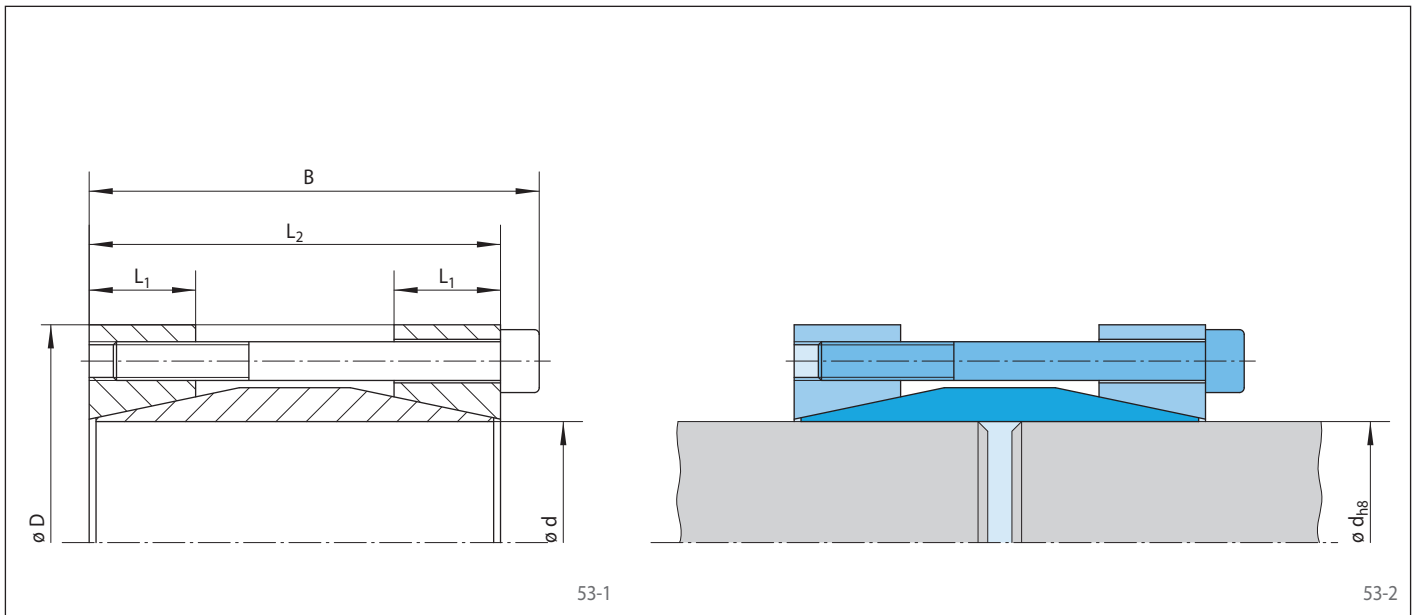
Example for ordering

Cone Clamping Element RLK 500 for shaft diameter $d = 50 \text{ mm}$:

- RLK 500, size 50 x 80
Article number 4207.050.001.000000

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Dimensions					Technical Data							Article number
Size		B mm	L ₁ mm	L ₂ mm	Transmissible torque or axial force		Clamping screws			Weight kg		
d mm	D mm				M Nm	F kN	Tightening torque M ₅ Nm	Num- ber	Size		Length mm	
14	45	56	15	50	130	18	16	4	M6	45	0,380	4207.014.001.000000
15	45	56	15	50	140	18	16	4	M6	45	0,350	4207.015.001.000000
16	45	56	15	50	150	18	16	4	M6	45	0,370	4207.016.001.000000
17	45	56	15	50	160	18	16	4	M6	45	0,400	4207.017.001.000000
18	50	56	15	50	160	17	16	4	M6	45	0,450	4207.018.001.000000
19	50	56	15	50	170	17	16	4	M6	45	0,440	4207.019.001.000000
20	50	56	15	50	180	18	16	4	M6	45	0,440	4207.020.001.000000
22	55	66	18	60	310	28	16	6	M6	55	0,500	4207.022.001.000000
24	55	66	18	60	330	27	16	6	M6	55	0,630	4207.024.001.000000
25	55	66	18	60	350	28	16	6	M6	55	0,610	4207.025.001.000000
28	60	66	18	60	340	24	16	6	M6	55	0,750	4207.028.001.000000
30	60	66	18	60	370	24	16	6	M6	55	0,710	4207.030.001.000000
32	75	83	20	75	520	32	37	4	M8	70	0,140	4207.032.001.000000
35	75	83	20	75	570	32	37	4	M8	70	1,330	4207.035.001.000000
38	75	83	20	75	620	32	37	4	M8	70	1,200	4207.038.001.000000
40	75	83	20	75	650	32	37	4	M8	70	1,190	4207.040.001.000000
42	85	93	22	85	990	47	37	6	M8	80	1,800	4207.042.001.000000
45	85	93	22	85	1050	46	37	6	M8	80	1,720	4207.045.001.000000
50	90	93	22	85	1200	48	37	6	M8	80	1,800	4207.050.001.000000
55	95	93	22	85	1700	61	37	8	M8	80	2,000	4207.055.001.000000
60	100	93	22	85	1950	65	37	8	M8	80	2,170	4207.060.001.000000
65	105	93	22	85	2150	66	37	8	M8	80	2,600	4207.065.001.000000
70	115	110	35	100	2800	80	73	6	M10	80	4,100	4207.070.001.000000
75	120	110	35	100	2900	77	73	6	M10	80	4,300	4207.075.001.000000
80	125	110	35	100	4200	100	73	8	M10	80	4,480	4207.080.001.000000
90	135	110	35	100	4700	100	73	8	M10	80	5,200	4207.090.001.000000
100	155	132	40	120	7600	1500	126	8	M12	100	6,000	4207.100.001.000000

Any questions? Please contact us.

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