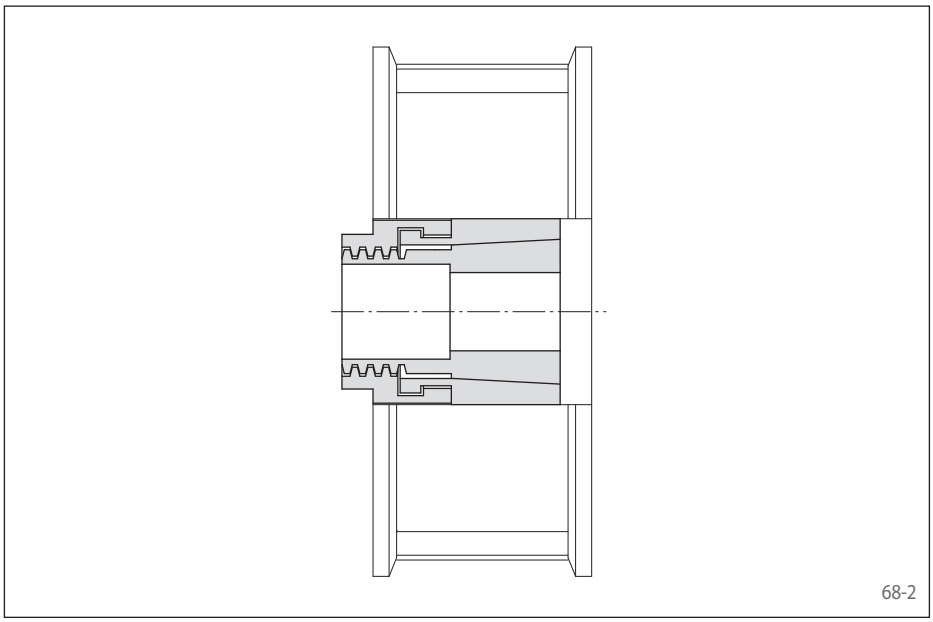
Cone Clamping Elements Trantorque Mini - metric

RINGSPANN®

for smallest shaft diameters
excellent concentricity

Features

- For smallest shaft diameters between 3 mm and 16 mm
- Transmissible torque of 10 Nm up to 140 Nm
- Excellent concentricity and transmission of bending moments



Application example

Cone Clamping Element Trantorque Mini provides a solution for mounting components in tight spaces on very small shafts, such as for a belt pulley.

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

- for shaft diameter d ± 0,04 mm
- for hub bore D ± 0,04 mm

Surfaces

Average surface roughness at the contact surfaces between the shaft and the hub bore: R_z = 10 … 25 µm.

Materials

The following apply to the shaft and the hub:

- E-module ≥ 170 kN/mm^2

During selection of the shaft material the contact pressure P_W of the particular size has to be observed.

Installation

Please request our installation and operating instructions for Cone Clamping Elements Trantorque Mini.

Simultaneous transmission of torque and axial force

The transmissible torques M which are shown in the tables apply for axial forces F = 0 kN and conversely, the indicated axial forces F apply to torques M = 0 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 Trantorque Mini for shaft diameter d = 15 mm:

- Trantorque Mini, size 15 x 26

  Article number 4202-015100-000000

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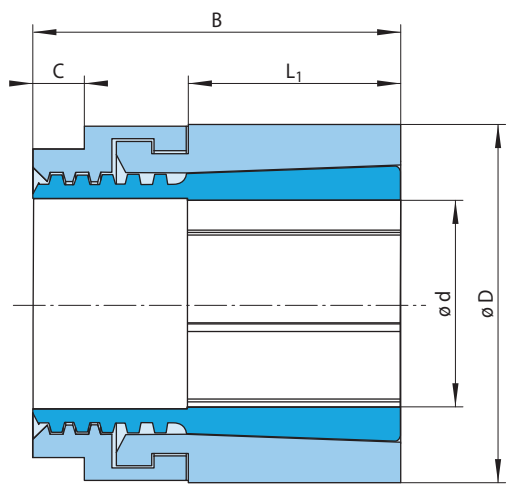

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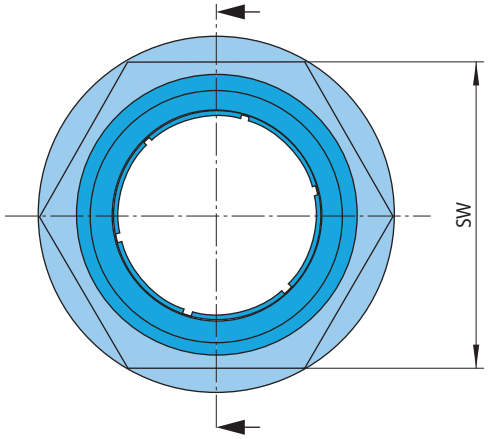

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Dimensions						Technical Data						Article number
Size						Max. transmissible torque or axial force		Tightening torque of clamping nut	Contact pressure at		Weight	
									Shaft	Hub		
d mm	D mm	B mm	C mm	L_1 mm	SW mm	M Nm	F kN	M_S Nm	P_W N/mm²	P_N N/mm²	kg	
3	16	19	3	10	13	10	6	14	597	112	0,02	4202-003100-000000
4	16	19	3	10	13	13	6	14	448	112	0,02	4202-004100-000000
5	16	19	3	10	13	16	6	14	358	112	0,02	4202-005100-000000
6	16	19	3	10	13	19	6	14	298	112	0,02	4202-006100-000000
7	20	22	3	11	16	36	10	28	351	123	0,03	4202-007100-000000
8	20	22	3	11	16	41	10	28	307	123	0,03	4202-008100-000000
9	20	22	3	11	16	47	10	28	273	123	0,03	4202-009100-000000
10	23	26	5	13	19	68	14	44	282	123	0,05	4202-010100-000000
11	23	26	5	13	19	75	14	44	257	123	0,05	4202-011100-000000
12	23	26	5	13	19	81	14	44	235	123	0,05	4202-012100-000000
14	26	29	5	16	22	123	18	66	209	113	0,06	4202-014100-000000
15	26	29	5	16	22	132	18	66	195	113	0,06	4202-015100-000000
16	26	29	5	16	22	140	18	66	183	113	0,06	4202-016100-000000