Cone Clamping Elements RLK 110
centres the hub to the shaft
radial flat height

Features
• Centres the shaft to the hub
• High transmissible torques
• Radial flat height is particularly suitable for small hub outer diameters
• No axial displacement between hub and shaft during clamping procedure due to fixed backstop point
• Transmissible torque of 17 Nm up to 18000 Nm
• For shaft diameters between 6 mm and 120 mm

Application example
Backlash free connection of a screw gear and simultaneous coupling of the divided drive shaft of a continuous heating furnace with two Cone Clamping Elements RLK 110. A simple and cost-effective solution, because clamping the screw gear and coupling the shaft ends is achieved simultaneously by the Cone Clamping Elements.

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: $R_z = 10 \ldots 25 \mu m$.

Materials
The following apply to the shaft and the hub:
• E-module $\geq 170\ kN/mm^2$

Installation
Please request our installation and operating instructions for Cone Clamping Elements RLK 110.

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 RLK 110 for shaft diameter $d = 100\ mm$:
• RLK 110, size 100 x 125
  Article number 4206-100001-000000

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