Cone Clamping Elements RLK 131

centres the hub to the shaft
no axial displacement

Features

• Centres the shaft to the hub
• No axial displacement between hub and shaft during clamping procedure due to fixed backstop point
• Transmissible torque of 350 Nm up to 43,000 Nm
• For shaft diameters between 20 mm and 180 mm

Application example

Backlash free connection of a cam disc to the drive shaft in a stepping gear in the material feed mechanism of a paper processing machine with a Cone Clamping Element RLK 131.

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 131.

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 131 for shaft diameter \( d = 100 \, mm \):
• RLK 131, size 100 x 145
• Article number 4204-100101-000000
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