Spring disk coupling K 50 (shaft ø11...16 mm)

Article number: K 50

Overview

- High quality torsionally stiff and backlash free coupling
- Compensating of mounting errors
- Balanced torsional rigidity (torsional spring constant)
- Protection against shaft currents with an insulated hub on non-drive end (ø11 H7)
- Additional key possible

Technical data

Technical data	
Mounting type	For shaft ø11...16 mm
Operating speed	≤13000 rpm (highspeed)
Moment of inertia	258 · 10^{-3} kgcm²
Torsional rigidity	1400 Nm/rad
Operating torque	≤8 Nm
Maximum torque	10 Nm

Technical data	
Admissible axial movement	± 0,7 mm (±0,3 mm at version with insulated hub version)
Admissible parallel misalignment	± 0,15 mm (±0,05 mm at version with insulated hub version)
Admissible angular error	± 1 °
Weight approx.	95 g
Material	Spring disks: X12 CrNi 17 7

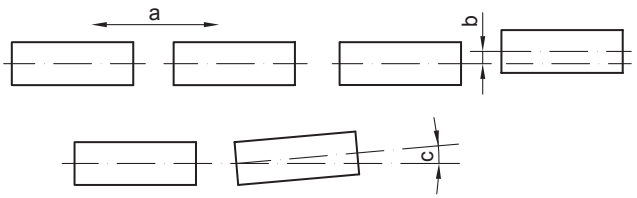
Description

Spring disk coupling, which combines the necessary torsional stiffness with the ability to compensate for axial displacement which occurs especially through heat expansion of the drive and the play backlash of the ball bearings.

Suitable for

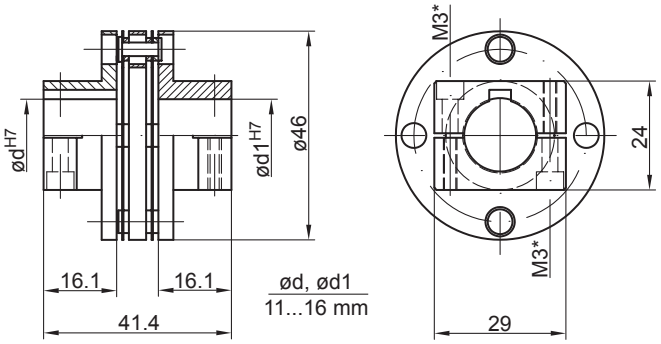
Encoders with solid shaft ø11...16 mm

Assembly drawing



a = Admissible axial movement
b = Admissible parallel misalignment
c = Admissible angular error

Dimensions



* Maximum tightening torque:
M_t = 1 Nm (plastic side)
M_t = 1.3 ±10 % Nm (metal side)

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