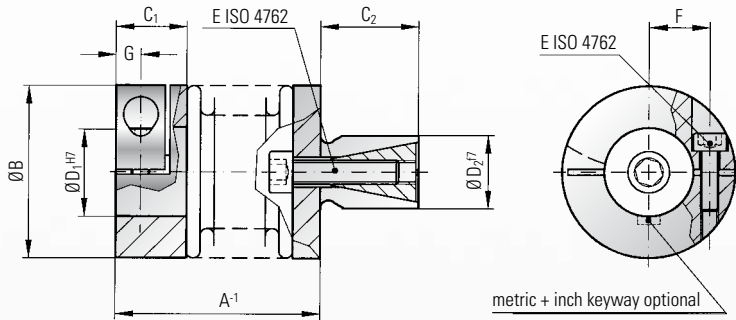




MODEL MK3

TECHNICAL SPECIFICATIONS



metric + inch keyway optional

Ordering example

MK3/20 / 36 / 6 / 12 / XX

Model
Series/Nm
Overall length
Ø D1 H7
Ø D2 f7
Non standard

Properties:

- compact design, conserves space while saving cost
- easy mounting
- backlash-free and torsionally rigid
- low moment of inertia
- compensates for 3-axis of misalignment

Material:

Bellows are made of highly flexible high-grade stainless steel, clamping hub aluminium. Expanding hub and cone (steel).

Design:

On one side with a single radial clamping screw ISO 4762. On one side an expanding shaft with tapered clamping element

Temperature range:

-30° to +120° C (3,6 F to 270 F)

Speeds:

Up to 10,000 rpm, in excess of 10,000 rpm with balanced version.

Service life:

These coupling have an infinite life, and are maintenance-free if the technical limits are not exceeded.

Fit tolerance:

On the hub/shaft connection 0.01 to 0.05 mm.

Non-standard application:

Custom designs with varied tolerances, keyways, non-standard material and bellows are available upon request.

| Model MK 3 | Series | | | | | | | | | | | | | | | | |
|---|-----------------|--|------|-----|------|------|-----|------|------|-----|--------|------|------|------|------|------|------|
| | 5 | | | 10 | | | 15 | | 20 | | | 45 | | 100 | | | |
| Rated torque (Nm) | T _{KN} | | 0.5 | | | 1 | | | 1.5 | | 2 | | | 4.5 | | 10 | |
| Overall length (mm) | A | | 20 | 23 | 26 | 22 | 25 | 28 | 24 | 30 | 27 | 33 | 36 | 36 | 44 | 41 | 51 |
| Outer diameter (mm) | B | | 15 | | | 15 | | | 19 | | 25 | | | 32 | | 40 | |
| Fit length (mm) | C ₁ | | 9 | | | 9 | | | 11 | | 13 | | | 16 | | 16 | |
| Shaft length (mm) | C ₂ | | 10 | | | 10 | | | 12 | | 12 | | | 15 | | 20 | |
| Special bores from Ø to Ø (mm) | D ₁ | | 3-7 | | | 3-7 | | | 4-8 | | 4-12.7 | | | 5-16 | | 6-24 | |
| Standard bore H7 (mm) | D ₁ | | 6 | | | 6 | | | 6 | | 6/10 | | | 10 | | 10 | |
| Standard shaft f7 (mm) | D ₂ | | 8 | | | 8 | | | 10 | | 12 | | | 14 | | 16 | |
| Screws ISO 4762 | E | | M2 | | | M2 | | | M2.5 | | M3 | | | M4 | | M4 | |
| Tightening torque of the assembly screws (Nm) | E | | 0.43 | | | 0.43 | | | 0.85 | | 2.3 | | | 4 | | 4.5 | |
| Distance between centers (mm) | F | | 4.5 | | | 4.5 | | | 6 | | 8 | | | 10 | | 15 | |
| Distance (mm) | G | | 3 | | | 3 | | | 3.5 | | 4 | | | 5 | | 5 | |
| Screws ISO 4762 | I | | M3 | | | M3 | | | M4 | | M4 | | | M5 | | M6 | |
| Tightening torque of the assembly screws (Nm) | I | | 1.5 | | | 1.5 | | | 3 | | 4 | | | 6.5 | | 11 | |
| Mass moment of inertia (gcm ²) | J | | 2.6 | 2.8 | 3.0 | 3.0 | 3.4 | 3.6 | 8.5 | 9.5 | 25 | 27 | 29 | 100 | 108 | 160 | 205 |
| Torsional stiffness (Nm/rad) | C _T | | 280 | 210 | 170 | 510 | 380 | 320 | 750 | 700 | 1200 | 1300 | 1200 | 7000 | 5000 | 9050 | 8800 |
| axial | Max. values | | 0.4 | 0.5 | 0.6 | 0.4 | 0.5 | 0.6 | 0.5 | 0.7 | 0.5 | 0.6 | 0.7 | 0.7 | 1 | 1 | 1.2 |
| lateral | Max. values | | 0.15 | 0.2 | 0.25 | 0.15 | 0.2 | 0.25 | 0.15 | 0.2 | 0.15 | 0.2 | 0.25 | 0.2 | 0.25 | 0.2 | 0.3 |
| angular | Max. values | | 1 | 1.5 | 2 | 1 | 1.5 | 2 | 1.5 | 1.5 | 1.5 | 1.5 | 2 | 1.5 | 2 | 1.5 | 2 |

Missing hub measurements see MK 2. (1 Nm = 8.85 in lbs)