

TORSIONALLY RIGID AND FLEXIBLE

BELLOWS COUPLINGS

SERIES BKZ | 20 – 1,000 Nm



R+W[®]
COUPLING TECHNOLOGY

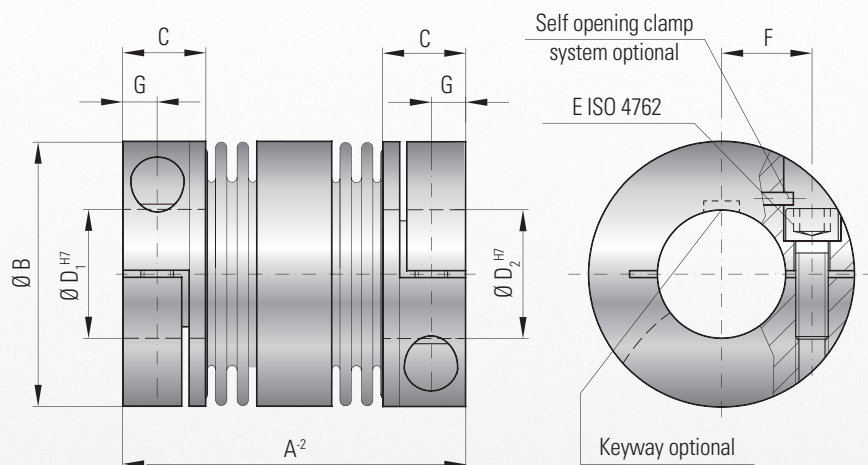
THE ULTIMATE COUPLING FROM 20 – 1,000 Nm

www.rw-america.com

optional
stainless
steel

MODEL BKZ

BACKLASH-FREE, TORSIONALLY STIFF METAL BELLOWS COUPLINGS






Longer versions for higher parallel misalignment compensation available upon request.

Ordering example

BKZ / 20 / 24 / 15 / XX

Model
Series Nm
Ø D1 H7
Ø D2 H7
non standard e.g. stainless steel

| Model BKZ | | Series | | | |
|--|---------------|--------|-------|-------|----------------------|
| | | 20 | 200 | 400 | 1000 |
| Rated torque (Nm) | T_{KN} | 20 | 200 | 400 | 1000* |
| Overall length coupling (mm) | A^2 | 82 | 115 | 150 | 185 |
| Outer diameter (mm) | B | 49 | 66 | 82 | 110 |
| Fit length (mm) | C | 16.5 | 23 | 27.5 | 34 |
| Inner diameter possible from Ø to Ø H7 (mm) | $D_{1/2}$ | 15-28 | 24-35 | 32-40 | 40-60 |
| Fastening screw ISO 4762 | | M5 | M8 | M10 | M12 |
| Tightening torque of the fastening screw (Nm) | E | 8 | 40 | 60 | 130 |
| Distance between centers (mm) | F | 17 | 23 | 27 | 39 |
| Distance (mm) | G | 6 | 9,5 | 11 | 13 |
| Moment of inertia (10^{-3} kgm^2) | J_1 | 0.09 | 0.44 | 1.3 | 11.7 |
| Hub material | | AL | AL | AL | steel optional AL |
| Approx. weight (kg) | | 0.23 | 0.62 | 1.2 | 5.6 |
| Torsional stiffness (10^3 Nm/rad) | C_T | 20.95 | 69 | 85 | 285 |
| axial  ± (mm) | max. value | 2 | 3 | 2 | 4 |
| lateral  ± (mm) | | 0.4 | 0.5 | 0.65 | 0.8 |
| angular  ± (degree) | | 1 | 1 | 1 | 1 |
| axial spring stiffness (N/mm) | C_a | 27.9 | 76.5 | 57 | 74 |
| lateral spring stiffness (N/mm) | C_l | 1855 | 5500 | 3029 | 4505 |

* Maximum transferable torque of the coupling depends on the hub material.



rigid and flexible, with clamping hub

Properties:

- double flex bellows, for high misalignment compensation
- easy to mount
- low moment of inertia

Material:

Bellows made of highly flexible high-grade stainless steel. Hub material see table.

Design:

With a single ISO 4762 radial clamping screw per hub.

Self opening clamp system optional: Loosening the clamping screw applies force to the pin, which will force the clamp into the open position for easy mounting and dismounting.

Absolutely backlash-free due to frictional clamping connection.

Temperature range:

-30 to +100° C (-22 F to 212 F)

Speeds:

Standard up to 6,000 rpm

Option: In excess of 6,000 rpm with a finely balanced version (contact R+W)

Service life:

These couplings have an infinite life and are maintenance-free if the technical ratings are not exceeded.

Tolerance:

On the hub/shaft connection 0.01 to 0.05 mm.

Non standard:

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

QUALITY
MANAGEMENT

We are certified
according to ISO 9001-2008



TGA-ZM-05-91-00
Registration No. 40503432/2

The information mentioned in this document is based on our present knowledge and experiences and does not exclude the manufacturer's own substantial testing of the equipment. So this is no obligatory assurance even with regard to protection rights of Third Parties. The sale of our products is subject to our General Conditions of Sale and Delivery.

R+W
COUPLING TECHNOLOGY

R+W America
1120 Tower Lane
Bensenville, IL 60106
Phone: 630-521-9911
Fax: 630-521-0366
info@rw-america.com
www.rw-america.com