

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



MODEL BKZ

BACKLASH-FREE, TORSIONALLY STIFF METAL BELLOWS COUPLINGS

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.

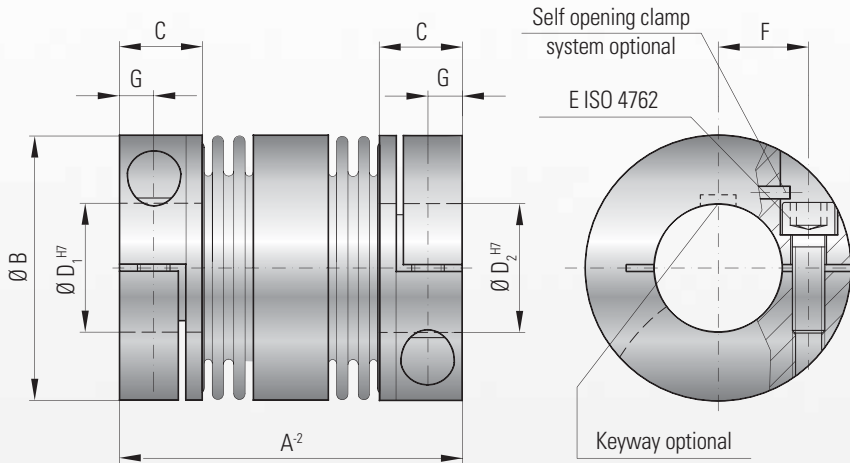


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Longer versions for higher parallel misalignment compensation available upon request.

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 (10^9 Nm/rad)	C_t	20.95	69	85	285
axial	± (mm)	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.