

BKM

Torsional stiff with clamping hub

20 – 1,000 Nm



Features

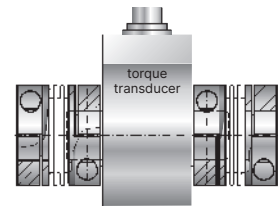
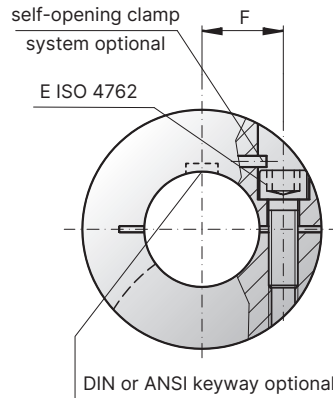
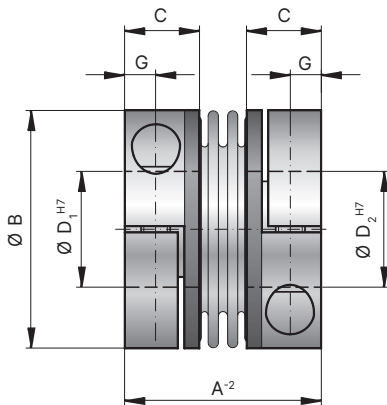
- Extremely compact
- High torque density
- High torsional stiffness

Material

- **Bellows:** high grade stainless steel

Design

Two clamping hubs concentrically mounted to flexible bellows.
Brief overloads of up to 1.5x the rated torque are acceptable.



Key application:
For mounting on a torque transducer.

Model BKM

Position of the PFN indicated / symbolic representation only.
Exact position of the PFN available upon request.

Size			20	200	400	1,000
Rated torque	(Nm)	T_{KN}	20	200	400	1,000
Overall length	(mm)	A^{-2}	40	59	75	89
Outside diameter	(mm)	B	49	66	82	110
Fit length	(mm)	C	16.5	23	27.5	34
Inside diameter possible from Ø to Ø H7	(mm)	$D_{1/2}$	15-28	24-35	32-42	40-60
Fastening screw ISO 4762			M5	M8	M10	M12
Tightening torque of the fastening screw	(Nm)	E	8	40	60	130
Distance between centerlines	(mm)	F	17	23	27	39
Distance	(mm)	G	6	9.5	11	13
Moment of inertia	(10^{-3} kgm^2)	$J_{ges.}$	0.05	0.18	0.62	7.2
Hub material			AL	AL	AL	steel
Approximate weight	(kg)		0.13	0.4	0.7	3.5
Torsional stiffness	(10^3 Nm/rad)	C_T	41.9	138	170	570
Axial	± (mm)	Max. values	1	1.5	1	2
Lateral	± (mm)		0.06	0.08	0.1	0.1
Angular	± (degree)		0.5	0.5	0.5	0.5
Axial spring stiffness	(N/mm)	C_a	55.8	153	114	148
Lateral spring stiffness	(N/mm)	C_r	3,710	11,000	6,058	9,010
Speed max. with balancing	(min^{-1})		80,000	60,000	50,000	40,000

Ordering example	BKM	20	20	19	XX
Model	•				
Size		•			
Bore D1 H7			•		
Bore D2 H7				•	

Special designation only (e.g. special bore tolerance).

For custom features place an XX at the end of the part number and describe the special requirements (e.g. BKM / 20 / 20 / 19.05 / XX; XX=finely balanced for 25,000 rpm)