

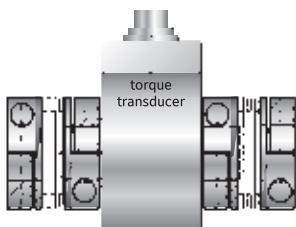
ULTRA COMPACT AND STIFF WITH CLAMPING HUB 20 - 1,000 Nm

ABOUT



Key application:

For mounting on a torque transducer.



FEATURES

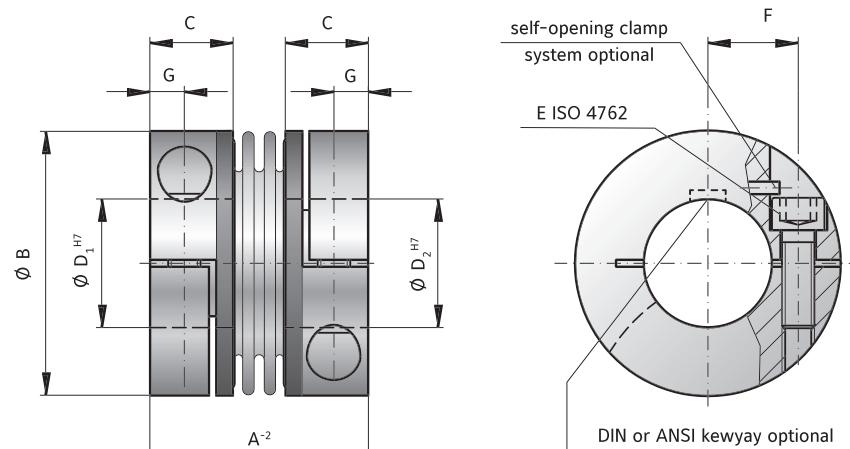
- extremely compact
- high torque density
- low mass and moment of inertia

MATERIAL

- **Bellows:** high grade stainless steel
- **Hubs:** see table

DESIGN

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



MODEL BKM

SIZE	20	200	400	1000
Rated torque (Nm)	T _{KN}	20	200	400
Overall length (mm)	A ⁻²	40	59	75
Outside diameter (mm)	B	49	66	82
Fit length (mm)	C	16.5	23	27.5
Inside diameter possible from Ø to Ø H7 (mm)	D _{1/2}	15-28	24-35	32-42
Fastening screw ISO 4762	E	M5	M8	M10
Tightening torque of the fastening screw (Nm)		8	40	60
Distance between centerlines (mm)	F	17	23	27
Distance (mm)	G	6	9.5	11
Moment of inertia (10 ³ kgm ²)	J _{ges.}	0.05	0.18	0.62
Hub material		AL	AL	AL
Approximate weight (kg)		0.13	0.4	0.7
Torsional stiffness (10 ³ Nm/rad)	C _T	41.9	138	170
Axial ± (mm)		1	1.5	1
Lateral ± (mm)	Max. values	0.06	0.08	0.1
Angular ± (degree)		0.5	0.5	0.5
Axial spring stiffness (N/mm)	C _a	55.8	153	114
Lateral spring stiffness (N/mm)	C _r	3,710	11,000	6,058
Speed max. with G = 2.5 balancing min ⁻¹		80,000	60,000	50,000
				40,000

ORDERING EXAMPLE	BKM	20	20	19.05	XX
Model	●				Special designation only (e.g. special bore tolerance).
Size		●			
Bore D1 H7			●		
Bore D2 H7				●	

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)