



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

ABOUT



FEATURES

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

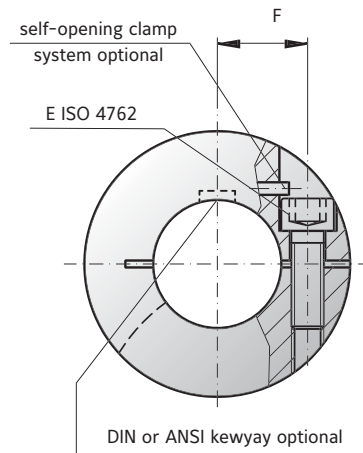
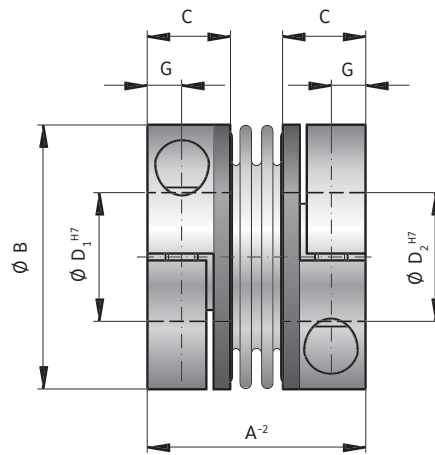
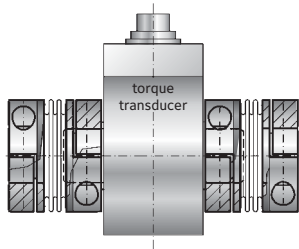
MATERIAL

- ▶ **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.

Key application:
For mounting on a torque transducer.



BELLOWS
COUPLINGS BK

MODEL BKM

SIZE			20	200	400	1000
Rated torque (Nm)	T_{KN}		20	200	400	1000
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 \emptyset to \emptyset 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 \pm (mm)	Max. values		1	1.5	1	2
Lateral \pm (mm)			0.06	0.08	0.1	0.1
Angular \pm (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 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)					