BKM

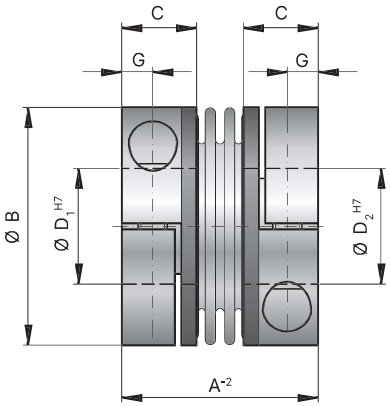
Torsional stiff with clamping hub

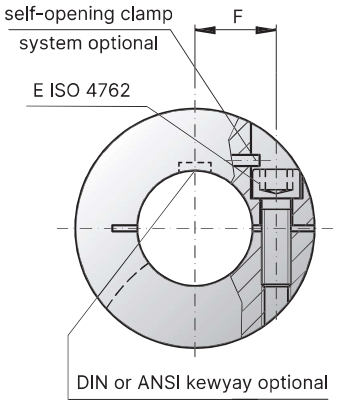
20 – 1,000 Nm

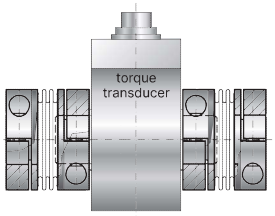
Feataures
- Extremely compact
- High torque density
- High torsional stiffness

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

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		E	M5	M8	M10	M12
Tightening torque of the fastening screw	(Nm)		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} kgm²)	$J_{ges.}$	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