



PROPERTIES

FEATURES

- ▶ easy to mount
- ▶ light weight and low moment of inertia

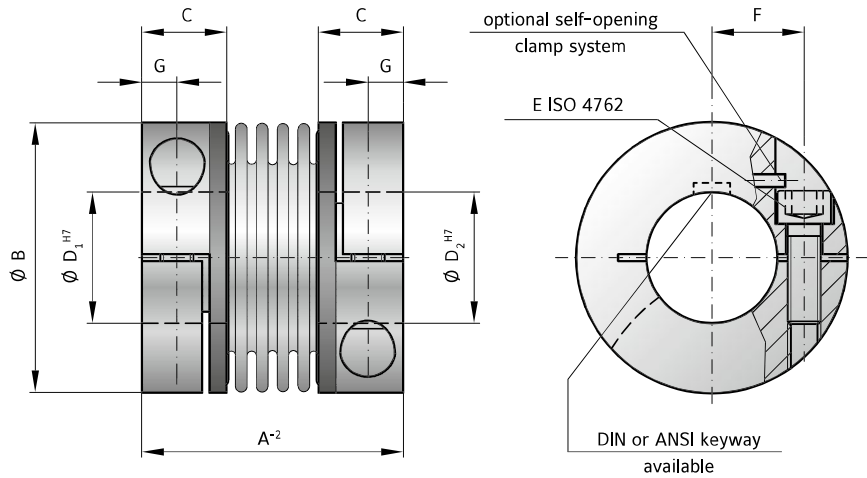
Two clamping hubs concentrically mounted to flexible bellows. Brief overloads of up to 1.5x the rated torque are acceptable.

MATERIAL

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

DESIGN

Optional: self-opening clamp system to open the bore during installation and removal by backing out the clamping screw.



MODEL BKL

SIZE		2	4.5	10	15	30	60	80	150	300	500
Rated torque (Nm)	T_{KN}	2	4.5	10	15	30	60	80	150	300	500
Overall length (mm)	A^{-2}	30	40	44	58	68	79	92	92	109	114
Outside diameter (mm)	B	25	32	40	49	56	66	82	82	110	123
Fit length (mm)	C	10.5	13	13	21.5	26	28	32.5	32.5	41	42.5
Inside diameter possible from \emptyset to $\emptyset H7$ (mm)	$D_{1/2}$	4-12.7	6-16	6-24	8-28	10-32	14-35	16-42	19-42	24-60	35-62
Fastening screw ISO 4762	E	M3	M4	M4	M5	M6	M8	M10	M10	M12	M16
Tightening torque of the fastening screw (Nm)	E	2.3	4	4.5	8	15	40	70	85	120	200
Distance between centerlines (mm)	F	8	11	14	17	20	23	27	27	39	41
Distance (mm)	G	4	5	5	6.5	7.5	9.5	11	11	13	17
Moment of inertia (10^{-3} kgm ²)	J_{GOS}	0.002	0.007	0.016	0.065	0.12	0.3	0.75	1.8 0.8	7.5 3.1	11.7 4.9
Hub material		AL optional steel	AL optional steel	AL optional steel	AL optional steel	AL optional steel	AL optional steel	AL optional steel	steel optional AL	steel optional AL	steel optional AL
Approximate weight (kg)		0.02	0.05	0.06	0.16	0.25	0.4	0.7	1.7 0.75	3.8 1.6	4.9 2.1
Torsional stiffness (10^3 Nm/rad)	C_T	1.5	7	9	23	31	72	80	141	157	290
Axial \pm (mm)	Max. values	0.5	1	1	1	1	1.5	2	2	2	2.5
Lateral \pm (mm)		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Angular \pm (degree)		1	1	1	1	1	1	1	1	1	1
Axial spring stiffness (N/mm)	C_a	8	35	30	30	50	67	44	77	112	72
Lateral spring stiffness (N/mm)	C_r	50	350	320	315	366	679	590	960	2940	1450

ORDERING EXAMPLE	BKL	80	26	22.23	XX
Model	●				
Size		●			
Bore D1 H7			●		
Bore D2 H7				●	
Special designation only (e.g. anodized hubs).					
For custom features place an XX at the end of the part number and describe the special requirements (e.g. BKL / 80 / 26 / 22.23 / XX; XX=finely balanced for 25,000 rpm)					



PROPERTIES

FEATURES

- ▶ for space restricted installations
- ▶ light weight and low moment of inertia
- ▶ easy to mount

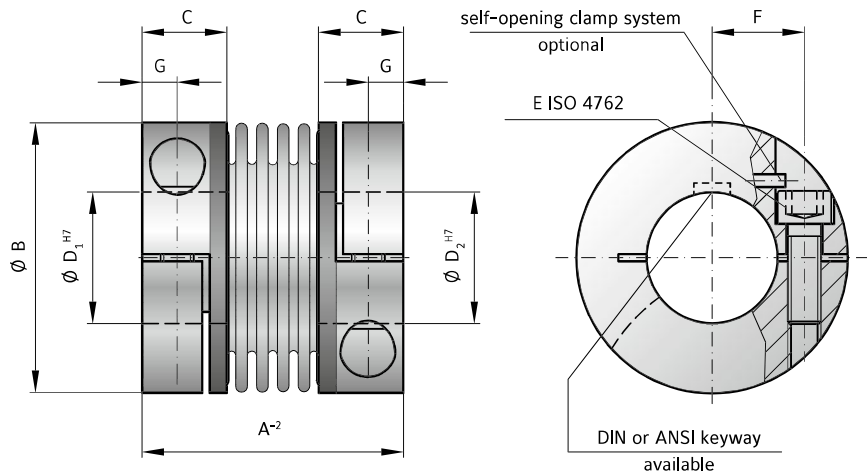
MATERIAL

- ▶ **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.

Optional: self-opening clamp system to open the bore during installation and removal by backing out the clamping screw.



MODEL BKC

SIZE			15	30	60	150	300	500
Rated torque (Nm)	T_{KN}		15	30	60	150	300	500
Overall length (mm)	A^{-2}		48	58	67	78	94	100
Outside diameter (mm)	B		49	56	66	82	110	123
Fit length (mm)	C		16.5	21	23	27.5	34	34
Inside diameter possible from \emptyset to \emptyset H7 (mm)	D_1/D_2		8-28	12-32	14-35	19-42	24-60	32-75
Fastening screw ISO 4762			M5	M6	M8	M10	M12	M12
Tightening torque of the fastening screw (Nm)	E		8	15	40	75	120	125
Distance between centerlines (mm)	F		17.5	20	23	27	39	45
Distance (mm)	G		6.5	7.5	9.5	11	13	13
Moment of inertia (10^{-3} kgm ²)	J_{ges}		0.05	0.1	0.26	0.65	6.3	9
Hub material			AL	AL	AL	AL	steel	steel
Approximate weight (kg)			0.13	0.21	0.37	0.72	3.26	3.52
Torsional stiffness (10^3 Nm/rad)	C_T		23	31	72	141	157	290
Axial \pm (mm)	Max. values		1	1	1.5	2	2	2.5
Lateral \pm (mm)			0.2	0.2	0.2	0.2	0.2	0.2
Angular \pm (degree)			1	1	1	1	1	1
Axial spring stiffness (N/mm)	C_a		30	50	67	77	112	72
Lateral spring stiffness (N/mm)	C_r		315	366	679	960	2940	2200
Speed max. with G = 2.5 balancing (min ⁻¹)			80,000	70,000	60,000	50,000	40,000	30,000

ORDERING EXAMPLE	BKC	60	26	22.23	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. BKC / 60 / 26 / 22.23 / XX; XX=finely balanced for 25,000 rpm)