

BK3

With conical clamping system

15 – 10,000 Nm

Features

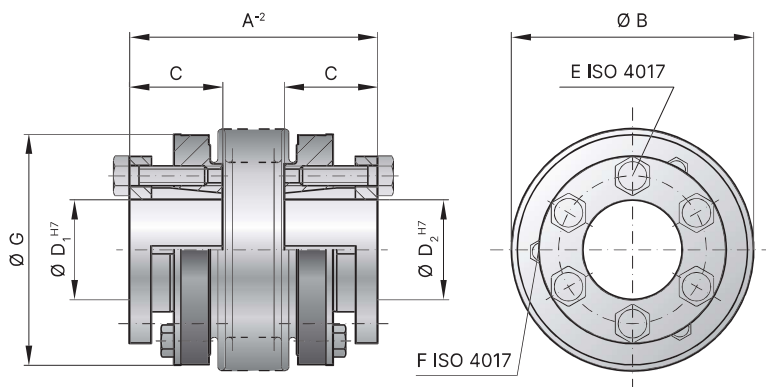
- High clamping pressure
- High torque version
- Compact design
- Suitable for space restricted installation spaces, with easy removal due to jack screws

Material

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

Design

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



Model BK3

Size		15	30	60	150	200	300	500	800	1,500	4,000	6,000	10,000
Rated torque (Nm)	T_{KN}	15	30	60	150	200	300	500	800	1,500	4,000	6,000	10,000
Overall length without screw head (mm)	A^{-2}	48 55	57 65	66 76	75 87	78 90	89 103	97 110	114	141	195	210	217
Outside diameter (mm)	B	49	55	66	81	90	110	124	133	157	200	253	303
Fit length (mm)	C	19	22	27	32	32	41	41	50	61	80	85	92
Inside diameter possible from Ø to Ø H7 (mm)	$D_{1/2}$	10-22	12-23	12-30	15-37	15-44	24-60	24-60	30-60	35-70	50-100	60-140	70-180
Fastening screw ISO 4017		6 × M4	6 × M5	6 × M5	6 × M6	6 × M6	6 × M8	6 × M8	6 × M10	6 × M12	6 × M16	6 × M16	8 × M16
Tightening torque of the fastening screw (Nm)	E	4	6	8	12	14	18	25	40	70	120	150	160
Jack screw ISO 4017	F	3 × M4	3 × M4	3 × M5	3 × M5	3 × M6	3 × M6	3 × M6	3 × M8	6 × M8	6 × M10	6 × M10	4 × M10
Outside diameter of hub (mm)	G	49	55	66	81	90	110	122	116	135	180	246	295
Moment of inertia (10^{-3} kgm^2)	J_{ges}	0.07 0.08	0.15 0.16	0.39 0.41	1.2 1.6	1.7 2.5	5.1 5.9	9.1 9.9	13.2	34.9	85.5	254	629
Approximate weight (kg)		0.25	0.4	0.8	1.2	1.8	3	4.2	5.6	8.2	23	32.6	45.5
Torsional stiffness (10^3 Nm/rad)	C_T	20 15	39 28	76 55	175 110	191 140	450 350	510 500	780	1,304	3,400	5,700	10,950
Axial ± (mm)	Max. values	1 2	1 2	1.5 2	2 3	2 3	2.5 3.5	2.5 3.5	3.5	3.5	3.5	3	3
Lateral ± (mm)		0.15 0.2	0.2 0.25	0.2 0.25	0.2 0.25	0.25 0.3	0.25 0.3	0.3 0.35	0.35	0.35	0.4	0.4	0.4
Angular ± (degree)		1 1.5	1 1.5	1 1.5	1 1.5	1 1.5	1 1.5	1 1.5	1.5	1.5	1.5	1.5	1.5
Axial spring stiffness (N/mm)	C_a	25 15	50 30	72 48	82 52	90 60	105 71	70 48	100	320	565	1,030	985
Lateral spring stiffness (N/mm)	C_r	475 137	900 270	1,200 420	1,500 435	2,040 610	3,750 1,050	2,500 840	2,000	3,600	6,070	19,200	21,800