

**BK3**

# WITH CONICAL CLAMPING SYSTEM

15 - 10,000 Nm



## ABOUT

### FEATURES

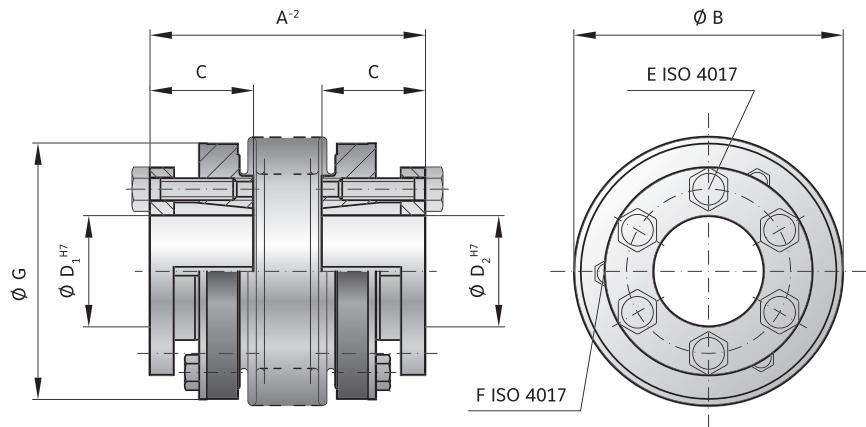
- high clamping pressure
- high torque version
- modern design for removal system

### 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	1500	4000	6000	10000	
Rated torque (Nm)	T <sub>KN</sub>	15	30	60	150	200	300	500	800	1500	4000	6000	10000
Overall length (mm)	A-2	48	55	57	65	66	76	75	87	78	90	89	103
Outside diameter (mm)	B	49	55	66	81	90	110	124	133	141	195	210	217
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 <sub>1/2</sub>	10-22	12-23	12-29	15-38	15-44	24-56	24-60	30-60	35-70	50-100	60-140	70-180
Fastening screw ISO 4017	E	6 x M4	6 x M5	6 x M5	6 x M6	6 x M6	6 x M8	6 x M8	6 x M10	6 x M12	6 x M16	6 x M16	8 x M16
Tightening torque of the fastening screw (Nm)	F	4	6	8	12	14	18	25	40	70	120	150	160
Jack screw ISO 4017	G	3 x M4	3 x M4	3 x M5	3 x M5	3 x M6	3 x M6	3 x M6	3 x M8	6 x M8	6 x M10	6 x M10	8 x M10
Outside diameter of hub (mm)		49	55	66	81	90	110	122	116	135	180	246	295
Moment of inertia (10 <sup>-3</sup> kgm <sup>2</sup> )	J <sub>ges</sub>	0.07	0.08	0.15	0.16	0.39	0.41	1.2	1.6	1.7	2.5	5.1	9.9
Approximate weight (kg)		0.25	0.4	0.7	1.2	1.8	3	4.2	5.6	8.2	23	32.6	45.5
Torsional stiffness (10 <sup>3</sup> Nm/rad)	C <sub>t</sub>	20	15	39	28	76	55	175	110	191	140	450	350
Axial ± (mm)		1	2	1	2	1.5	2	2	3	2	3	2.5	3.5
Lateral ± (mm)	Max. values	0.15	0.2	0.2	0.25	0.2	0.25	0.25	0.3	0.25	0.3	0.3	0.35
Angular ± (degree)		1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1.5	1.5
Axial spring stiffness (N/mm)	C <sub>a</sub>	25	15	50	30	72	48	82	52	90	60	105	71
Lateral spring stiffness (N/mm)	C <sub>r</sub>	475	137	900	270	1200	420	1500	435	2040	610	3750	1050

ORDERING EXAMPLE	BK3	60	76	20	22.23	XX
Model	●					
Size		●				
Overall length mm			●			
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. BK3 / 60 / 76 / 20 / 22.23 / XX; XX=K6 bore tolerance on D1)						

Special designation only  
(e.g. non-standard bore tolerance)