

**BK3**

# WITH CONICAL CLAMPING SYSTEM

## 15 - 10,000 Nm



### ABOUT

#### FEATURES

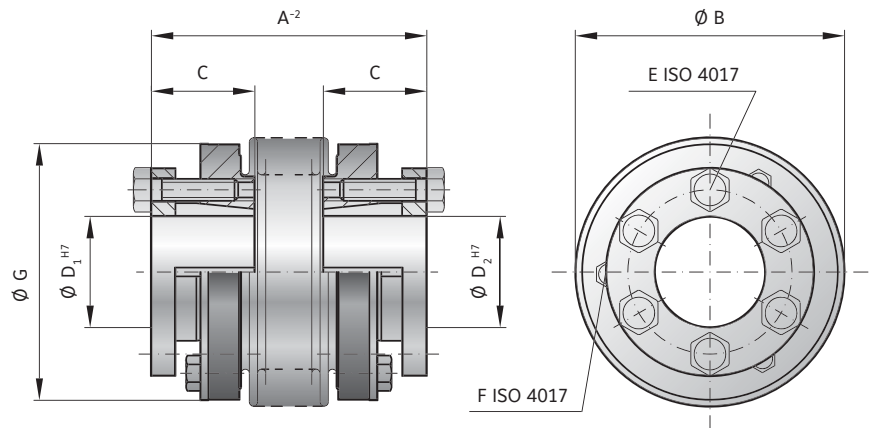
- ▶ high clamping pressure
- ▶ high torque version
- ▶ modern design for removal system

#### 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)	$T_{KN}$	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	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 $\emptyset$ to $\emptyset$ H7 (mm)	$D_{1/2}$	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)		4	6	8	12	14	18	25	40	70	120	150	160	
Jack screw ISO 4017	F	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)	G	49	55	66	81	90	110	122	116	135	180	246	295	
Moment of inertia ( $10^{-3}$ kgm <sup>2</sup> )	$J_{ges}$	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	0.7	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	1304	3400	5700	10950	
Axial $\pm$ (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 $\pm$ (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	0.3   0.35	0.35	0.35	0.4	0.4	0.4
Angular $\pm$ (degree)		1   1.5	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	1030	985	
Lateral spring stiffness (N/mm)	$C_r$	475   137	900   270	1200   420	1500   435	2040   610	3750   1050	2500   840	2000	3600	6070	19200	21800	

ORDERING EXAMPLE	BK3	60	76	20	22.23	XX
Model	●					Special designation only (e.g. non-standard bore tolerance)
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)						