BK6 BLIND MATE WITH CONICAL CLAMPING RING

15 - 1,500 Nm

ABOUT

FEATURES

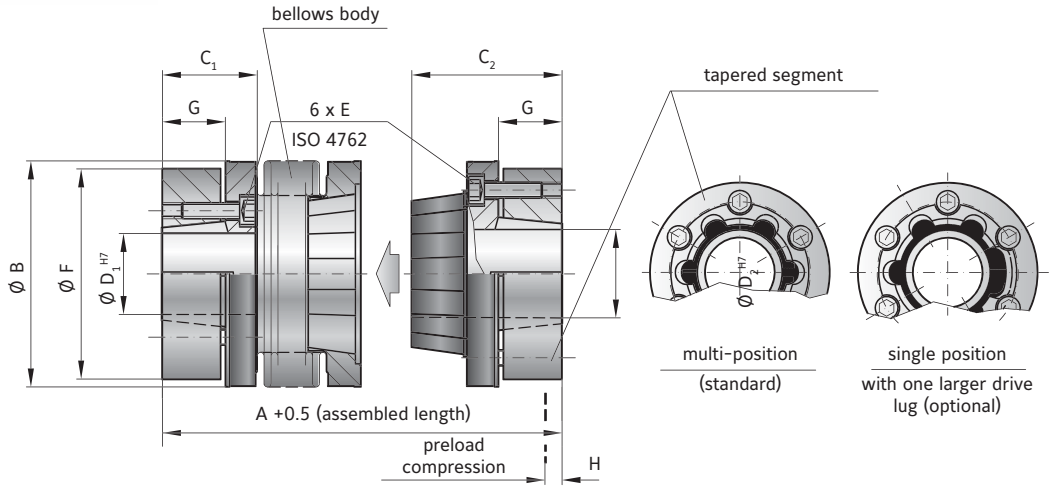
- axial mounting possible
- easy installation and removal
- naturally very well balanced due to self centering clamping ring system
- absolutely backlash free assembly

MATERIAL

- **Bellows:** high grade stainless steel
- **Hubs:** steel
- **Tapered male segment:** high strength plastic

DESIGN

Two conical clamping ring hubs, one of which has a tapered male projection for bind mate connection.
Brief overloads of up to 1.5x the rated torque are acceptable.



MODEL BK6

SIZE			15		30		60		150		300		500		800	1500
Rated torque	(Nm)	T_{KN}	15		30		60		150		300		500		800	1500
Overall length (gesteckt)	(mm)	$A^{+0,5}$	58	65	68	76	79	89	97	109	113	127	132	145	140	158
Outside diameter	(mm)	B	49		55		66		81		110		124		133	157
Fit length	(mm)	C_1	13.5		16.5		18		23.5		27		32		42	53
Fit length	(mm)	C_2	29		34		39		49.5		59		68		74	90.5
Inside diameter possible from Ø to Ø H7	(mm)	D_1	10-22		12-24		12-32		15-40		24-56		30-60		40-62	50-75
Inside diameter possible from Ø to Ø H7	(mm)	D_2	10-22		12-24		12-32		15-40		24-56		30-60		40-62	50-75
Fastening screw ISO 4762		E	M4		M5		M5		M6		M8		M8		M10	M12
Tightening torque of the fastening screw	(Nm)	E	3.5		6.5		8		12		30		32		55	110
Diameter of clamping ring	(mm)	F	46.5		51		60		74		102		114		126	146
Clamping ring length	(mm)	G	9.5		10.5		11.5		17.5		20		23		27	32
Preload compression	(mm)	H	0.2 - 1.0		0.5 - 1.0		0.5 - 1.5		0.5 - 1.5		0.5 - 1.5		1.0 - 2.0		1.0 - 2.0	0.5 - 1.5
Axial recovery force at maximum pretensioning	(N)	H	20	12	50	30	70	45	82	52	157	106	140	96	400	650
Moment of inertia	(10^{-3} kgm²)	J_{ges}	0.1	0.12	0.2	0.25	0.4	0.45	2.0	2.5	5.4	6.1	8.4	9.1	19.5	44
Approximate weight	(kg)		0.3	0.32	0.5	0.52	0.82	0.84	1.6	1.7	4.1	4.2	6.0	6.3	9.4	16.2
Torsional stiffness	(10^3 Nm/rad)	C_T	10	8	20	14	38	28	88	55	225	175	255	245	400	660
Axial*	± (mm)	Max. values	0.5	1	0.5	1	0.5	1	1	2	1.5	2	2.5	3.5	3	2
Lateral	± (mm)	Max. values	0.15	0.2	0.2	0.25	0.2	0.25	0.2	0.25	0.25	0.3	0.3	0.35	0.35	0.35
Angular	± (degree)	Max. values	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1	1.5	1.5	1.5
Lateral spring stiffness	(N/mm)	C_r	475	137	900	270	1200	420	1550	435	3750	1050	2500	840	2000	3600

* in addition to maximum allowable pretension

Higher torques upon request

ORDERING EXAMPLE	BK6	30	76	18	19	XX
Model	●					Special designation only (e.g. special 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. BK6 / 30 / 76 / 18 / 19 / XX; XX=finely balanced for 25,000 rpm)