

BK7

With expanding shaft

15 – 300 Nm

Features

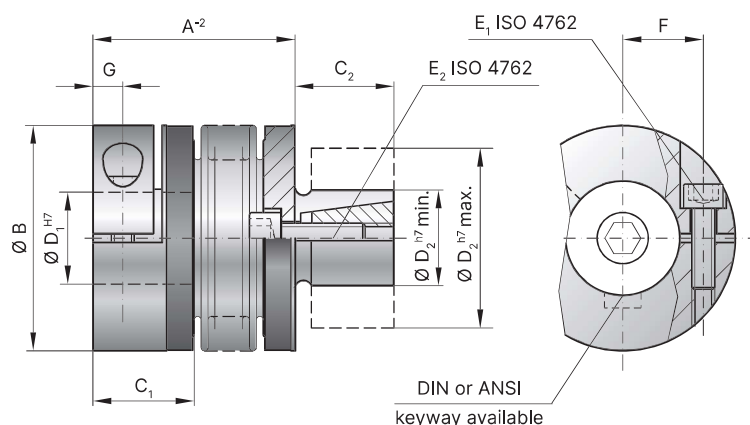
- For hollow shaft mounting
- Short design saves installation space
- Solution for mismatched shaft / bore

Material

- **Bellows:** high grade stainless steel
- **Hubs:** see table
- **Expanding mandrel system:** steel

Design

One clamping hub on one end with an expanding shaft on the other end. Brief overloads of up to 1.5x the rated torque are acceptable.



Model BK7

Size			15		30		60		150		300	
Rated torque	(Nm)	T _{KN}	15		30		60		150		300	
Overall length	(mm)	A ⁻²	45	52	53	61	62	72	71	83	84	98
Outside diameter	(mm)	B	49		55		66		81		110	
Fit length	(mm)	C ₁	22		27		31		36		43	
Shaft length	(mm)	C ₂	20		25		27		32		45	
Inside diameter possible from Ø to Ø H7	(mm)	D ₁	8-28		10-30		12-35		19-42		30-60	
Shaft diameter from Ø to Ø h7 (mm)		D ₂	13-25		14-30		23-38		26-45		38-60	
Fastening screw ISO 4762		E _{1/2}	M5		M6		M8		M10		M12	
Tightening torque of the fastening screw	(Nm)	E _{1/2}	8		14		38		65		120	
Distance between centerlines	(mm)	F	17		19		23		27		39	
Distance	(mm)	G	6.5		7.5		9.5		11		13	
Moment of inertia	(10 ⁻³ kgm ²)	J _{ges}	0.07	0.08	0.14	0.15	0.23	0.26	2.2	2.4	6.5	8.9
Hub material			AL		AL		AL		steel		steel	
Approximate weight	(kg)		0.15		0.3		0.4		1.7		4	
Torsional stiffness	(10 ³ Nm/rad)	C _T	20	15	39	28	76	55	175	110	450	350
axial	± (mm)	Max. values	1	2	1	2	1.5	2	2	3	2.5	3.5
lateral	± (mm)		0.15	0.2	0.2	0.25	0.2	0.25	0.2	0.25	0.25	0.3
angular	± (degree)		1	1.5	1	1.5	1	1.5	1	1.5	1	1.5
Axial spring stiffness	(N/mm)	C _a	20	12	50	30	72	48	82	52	105	71
Lateral spring stiffness	(N/mm)	C _r	315	108	730	230	1,200	380	1,550	435	3,750	1,050