MK6

Blind mate with expanding shaft

0.5 – 10 Nm

Features

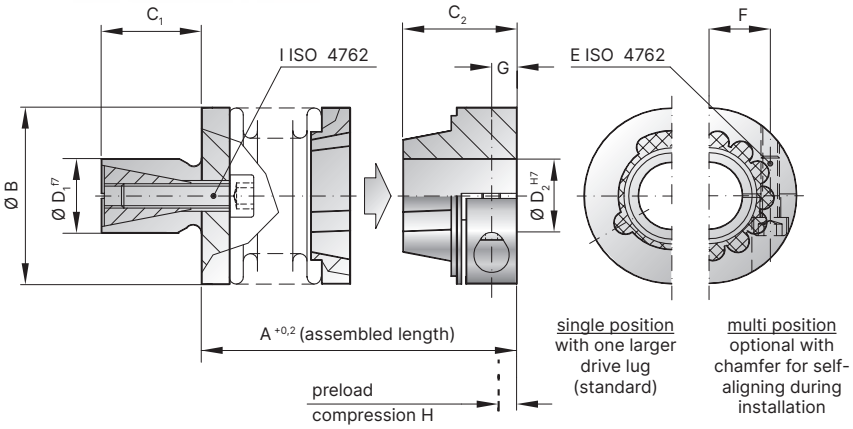
- Easy installation and removal
- Solution for mismatched bore / shaft diameters
- Absolutely backlash free assembly

Material

- **Bellows:** high grade stainless steel
- **Tapered male segment:** high strength plastic
- **Clamping hub:** aluminum
- **Expanding shaft:** steel

Design

One clamping hub with a tapered male projection for blind mate connection and one expanding shaft system.



Model MK6

Size			5			15		20			45		100	
Rated torque	(Nm)	T_{KN}	0.5			1.5		2			4.5		10	
Overall length (inserted)	(mm)	$A^{+0.2}$	21	24	27	27	32	28	34	38	38	46	45	55
Outside diameter	(mm)	B	15			19		25			32		40	
Shaft length	(mm)	C_1	10			12		12			15		20	
Fit length	(mm)	C_2	12			14		16			20		21.5	
Standard shaft Ø f7	(mm)	D_1	8-10			10-14		10-16			14-20		16-24	
Inside diameter possible from Ø to Ø H7	(mm)	D_2	3-6.35			3-8		3-12.7			5-16		5-20	
Fastening screw ISO 4762		E	M2			M2.5		M3			M4		M4	
Tightening torque of the fastening screw	(Nm)		0.43			0.85		2.3			4		4.5	
Distance between centerlines	(mm)	F	4.5			6		8			10		15	
Distance	(mm)	G	3			3.5		4			5		5	
Preload compression	(mm)	H	0.4			0.5		0.5			0.7		1	
Axial recovery force at max. preload compression	(N)		5	3	2	4	3	3	4	3	15	10	25	30
Fastening screw ISO 4762		I	M3			M4		M4			M5		M6	
Tightening torque of the fastening screw	(Nm)		1.5			3		4			6.5		11	
Moment of inertia	(gcm^2)	J_{ges}	3.0	3.2	3.5	9.0	10	28	30	33	110	120	220	230
Approximate weight*	(g)		18			32		60			103		198	
Torsional stiffness	(Nm/rad)	C_T	280	210	170	750	700	1,200	1,300	1,200	7,000	5,000	9,050	8,800
Lateral	(mm)	Max. values	0.15	0.2	0.25	0.15	0.2	0.15	0.2	0.25	0.2	0.25	0.2	0.3
Angular	(degree)		1	1.5	2	1.5	1.5	1.5	1.5	2	1.5	2	1.5	2

* Weight corresponds to the standard version with the smallest bore and the maximum overall length.

Ordering example	MK6	20	28	12	12	XX
Model	●					Special designation only (e.g. special bore / shaft tolerance).
Size		●				
Overall length mm			●			
Shaft D1 f7				●		
Bore D2 H7					●	

For custom features place an XX at the end of the part number and describe the special requirements (e.g. MK6 / 20 / 28 / 12 / 9.53 / XX; XX=finely balanced for 25,000 rpm)