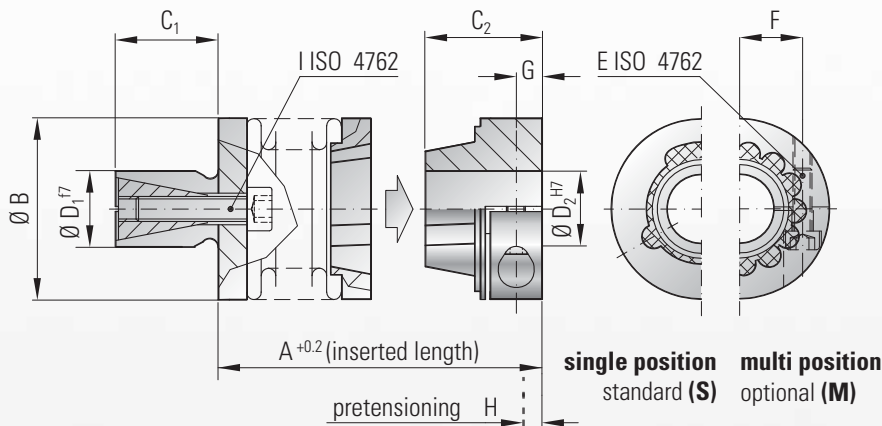




# MODEL MK6

## TECHNICAL SPECIFICATIONS



### Ordering example

MK6/20 / 28 / 12 / 12 / XX

Model  
Series  
Overall length (mm)  
Shaft  $\varnothing D1 f7$   
Bore  $\varnothing D2 H7$   
Non standard e.g. multi position re-engagement



blind mate with expanding shaft

### Features:

- electrically and thermally isolating
- wear and maintenance free
- compensates for 3 types of misalignment
- easy mounting and dismantling
- backlash free and torsionally rigid
- low moment of inertia

### Material:

Bellows made from highly flexible, high grade stainless steel; clamping hub and bellows side adapter plate made from aluminum; expanding shaft and cone made from steel; tapered male segment made from glass reinforced plastic molded directly onto the hub

### Design:

With a single ISO 4762 radial clamping screw on one hub; shaft with internal cone for expansion; with blind mate, press fit connection

**Temperature range:** -30 to +110° C (-22 to +230° F)

**Speed:** Up to 10,000 rpm; in excess of 10,000 rpm with finely balanced version

### Service life:

Maintenance free with infinite life when operated within the technical specifications

### Fit tolerance:

Overall clearance between hub and shaft 0.01-0.05 mm

Model MK 6		Series											
		5			15		20			45		100	
Rated torque (Nm)	$T_{KN}$	0.5			1.5		2			4.5		10	
Overall length (inserted) (mm)	A	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	
Standard shaft $\varnothing D1 f7$ (mm)	$D_1$	8			10		12			14		16	
Fit length (mm)	$C_2$	12			14		16			20		21.5	
Inside diameter possible from $\varnothing$ to $\varnothing H7$ (mm)	$D_2$	3-6.35			3-8		3-12.7			5-16		5-20	
Standard bore H7 (mm)	$D_2$	6			6		6/10			10		10	
Fastening screw ISO 4762		M2			M2.5		M3			M4		M4	
Tightening torque of the fastening screws (Nm)	E	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	
Approximate pretensioning (mm)	H	0.4			0.5		0.5			0.7		1	
Axial recovery force at maximum pretensioning (N)		5	3	2	4	3	3	4	3	15	10	33	46
Fastening screw ISO 4762		M3			M4		M4			M5		M6	
Tightening torque of the fastening screws (Nm)	I	1.5			3		4			6.5		11	
Moment of inertia (gcm <sup>2</sup> )	$J_{total}$	3.0	3.2	3.5	9.0	10	28	30	33	110	120	220	230
Torsional stiffness $\pm$ (Nm/rad)	$C_T$	280	210	170	750	700	1200	1300	1200	7000	5000	9050	8800
Lateral $\pm$ (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 $\pm$ (degree)		1	1.5	2	1.5	1.5	1.5	1.5	2	1.5	2	1.5	2

1 Nm = 8.85 in lbs