

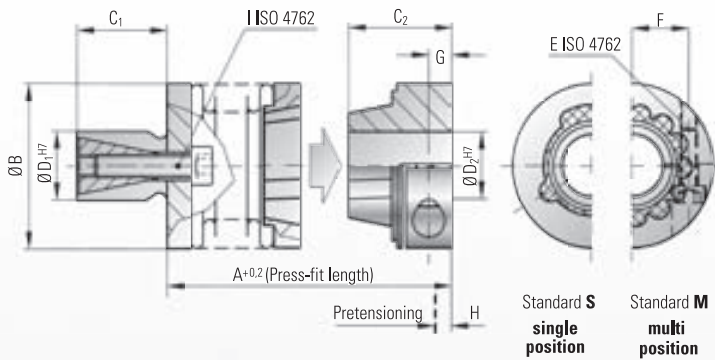
optional  
stainless steel

# MODEL MK6

## TECHNICAL SPECIFICATIONS



Press-fit precision metal bellows couplings



### Properties:

- electrically insulated
- self-adjusting
- no wear
- easy mounting and dismantling
- backlash-free and torsionally rigid
- low moment of inertia
- compensates for 3-axis of misalignment

### Material:

Bellows made of highly flexible high-grade stainless steel, clamping hub aluminium. Expanding hub and cone (steel)

### Design:

On one side an expanding shaft with tapered clamping element. On one side a clamping hub with a backlash-free, blind mate press-fit connection (glass-fiber reinforced plastic)

### Temperature range:

-30° to +120° C (3,6 F to 270 F),

### Speed:

Up to 10,000 rpm, in excess of 10,000 rpm with balanced version

### Service life:

These couplings have an infinite life, and are maintenance-free if the technical limits are not exceeded.

### Fit tolerance:

On the hub/shaft connection 0.01 to 0.05 mm.

### Ordering example

MK6/20 / 28 / 12 / 12 / XX

Model  
Series/Nm  
Overall length (mm)  
Shaft Ø D1 f7  
Bore Ø D2 H7  
non standart e.g. Option M

Model MK 6		Series											
		5			15		20			45		100	
Rated torque (Nm)	$T_{KN}$	0.5			1.5		2			4.5		10	
Length without pretensioning (mm)	A	21	24	27	27	32	28	34	38	38	46	45	55
Outer diameter (mm)	B	15			19		25			32		40	
Shaft length (mm)	$C_1$	10			12		12			15		20	
Standard shaft Ø f7 (mm)	$D_1$	8			10		12			14		16	
Fit length (mm)	$C_2$	12			14		16			20		21.5	
Special bores from Ø to Ø (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	
ISO 4762 screws		M2			M2.5		M3			M4		M4	
Tightening torque of the assembly screws (Nm)	E	0.43			0.85		2.3			3.5		4.5	
Distance between centers (mm)	F	4.5			6		8			10		15	
Pretensioning approx. (mm)	H	0.4			0.5		0.5			0.7		1	
Distance (mm)	G	3			3.5		4			5		5	
ISO 4762 screws		M3			M4		M4			M5		M6	
Tightening torque of the assembly screws (Nm)	I	1.5			3		4			6.5		11	
Axial recovery force (N)		5	3	2	4	3	3	4	3	15	10	25	30
Mass moment of inertia ( $gcm^2$ )	$J_{gBS}$	3.0	3.2	3.5	9.0	10	28	30	33	110	120	220	230
Torsional stiffness (Nm/rad)	$C_T$	280	210	170	750	700	1200	1300	1200	7000	5000	9050	8800
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 (Grad)		1	1.5	2	1.5	1.5	1.5	1.5	2	1.5	2	1.5	2