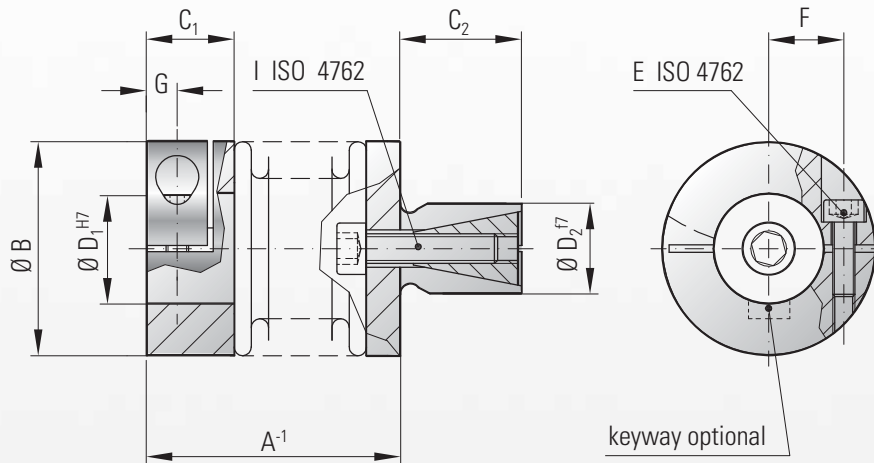


optional  
stainless  
steel

# MODEL MK3

## TECHNICAL SPECIFICATIONS



### Ordering example

MK3/20 / 36 / 6 / 12 / XX

Model  
Series  
Overall length  
Bore  $\emptyset D1 H7$   
Shaft  $\emptyset D2 f7$   
Non standard e.g. stainless steel



with expanding shaft

### Features:

- backlash free and torsionally rigid
- compensates for 3 types of misalignment
- for easy hollow shaft mounting
- adapts mismatched shaft and bore diameters
- low moment of inertia

### Material:

Bellows made from highly flexible, high grade stainless steel; clamping hub made from aluminum; expanding shaft and cone made from steel

### Design:

With a single ISO 4762 radial clamping screw on one hub; shaft with internal cone for expansion

### Temperature range:

-30 to +110° C (-22 to +230° F)

### Speeds:

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

### Non standard applications:

Custom designs with various tolerances, keyways, materials, dimensions, etc. available upon request

**Recommended bore tolerance for expanding shaft: H7**

Model MK3		Series															
		5			10			15		20			45		100		
Rated torque (Nm)	$T_{KN}$	0.5			1			1.5		2			4.5		10		
Overall length (mm)	$A^{-1}$	20	23	26	22	25	28	24	30	27	33	36	36	44	41	51	
Outside diameter (mm)	B	15			15			19		25			32		40		
Fit length (mm)	$C_1$	9			9			11		13			16		16		
Shaft length (mm)	$C_2$	10			10			12		12			15		20		
Inside diameter possible from $\emptyset$ to $\emptyset H7$ (mm)	$D_1$	3-7			3-7			4-8		4-12.7			5-16		6-24		
Standard bore H7 (mm)	$D_1$	6			6			6		6/10			10		10		
Standard shaft f7 (mm)	$D_2$	8			8			10		12			14		16		
Fastening screw ISO 4762	E	M2			M2			M2.5		M3			M4		M4		
Tightening torque of the fastening screws (Nm)	E	0.43			0.43			0.85		2.3			4		4.5		
Distance between centerlines (mm)	F	4.5			4.5			6		8			10		15		
Distance (mm)	G	3			3			3.5		4			5		5		
Fastening screw ISO 4762	I	M3			M3			M4		M4			M5		M6		
Tightening torque of the fastening screws (Nm)	I	1.5			1.5			3		4			6.5		11		
Moment of inertia (gcm <sup>2</sup> )	$J_{total}$	2.6	2.8	3.0	3.0	3.4	3.6	8.5	9.5	25	27	29	100	108	160	205	
Torsional stiffness (Nm/rad)	$C_T$	280	210	170	510	380	320	750	700	1200	1300	1200	7000	5000	9050	8800	
Axial  ± (mm)	max. values	0.4	0.5	0.6	0.4	0.5	0.6	0.5	0.7	0.5	0.6	0.7	0.7	1	1	1.2	
Lateral  ± (mm)		0.15	0.2	0.25	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	1.5	2	1.5	1.5	1.5	1.5	2	1.5	2	1.5	2	

1 Nm = 8.85 in lbs