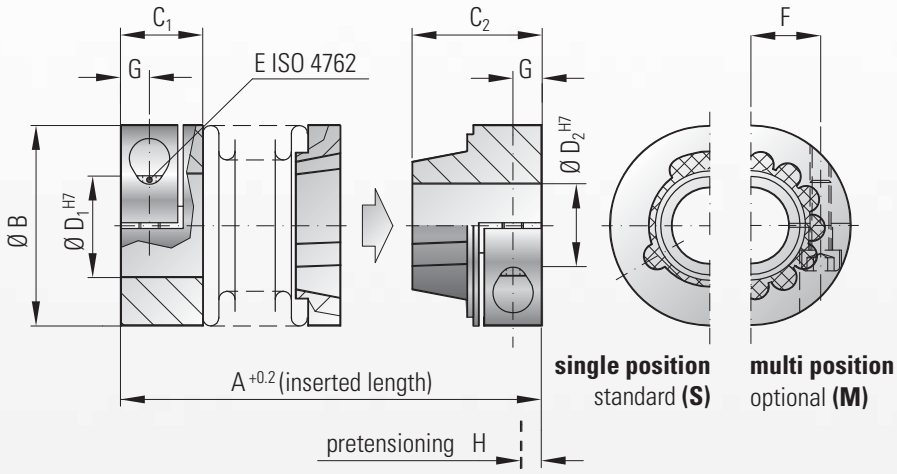
optional stainless steel

MODEL **MK5**

TECHNICAL SPECIFICATIONS

blind mate with clamping hubs



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

Material:
Bellows made from highly flexible, high grade stainless steel; hubs and bellows side adapterplate made from aluminum; tapered male segment made from glass reinforced plastic molded directly onto the hub

Design:
With a single ISO 4762 radial clamping screw per hub; 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

Non standard applications:
Custom designs with various tolerances, keyways, materials, dimensions, etc. available upon request

Ordering example

MK5 / 20 / 37 / 6 / 10 / XX

- Model
- Series
- Overall length
- Bore Ø D1 H7
- Bore Ø D2 H7
- Non standard e.g. multi position re-engagement

Model MK 5			Series												
			5			15		20			45			100	
Rated torque	(Nm)	T_{KN}	0.5			1.5		2			4.5			10	
Overall length (inserted)	(mm)	A	27	30	33	34	39	37	43	46	49	57		55	65
Outside diameter	(mm)	B	15			19		25			32			40	
Fit length	(mm)	C_1	9			11		13			16			16	
Fit length	(mm)	C_2	12			14		16			20			21.5	
Inside diameter possible from Ø to Ø H7	(mm)	$D_{1/2}$	3-6.35			3-8		3-12.7			5-16			5-20 (D_1 -24)	
Standard bore H7	(mm)	$D_{1/2}$	6			6		6/10			10			10	
Fastening screw ISO 4762		E	M2			M2.5		M3			M4			M4	
Tightening torque of the fastening screws	(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	
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
Moment of inertia	(gcm^2)	J_{total}	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
Axial*	± (mm)	Max. values	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	0.15	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

1 Nm = 8.85 in lbs

* in addition to maximum pretensioning