MK4

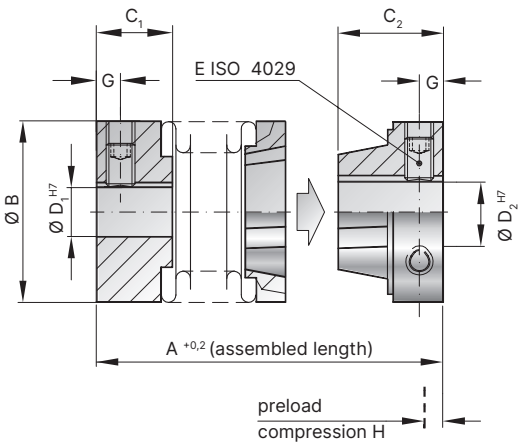
Blind mate with radial set screws

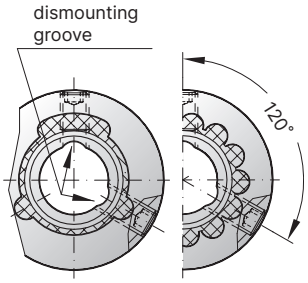
0.5 – 10 Nm

Features
- Easy installation and removal
- Electrically and thermally isolating
- Absolutely backlash free assembly

Material
- **Bellows:** high grade stainless steel
- **Hubs:** aluminum
- **Tapered male segment:** high strength plastic

Design
Two hubs with radial set screws, one of which has a tapered male projection for blind mate connection. Speeds up to 20,000 rpm; over 20,000 rpm with finely balanced version.





single position
with one larger drive lug (standard)

multi position
optional with chamfer for self-aligning during installation

Model MK4

Size			5			15		20			45		100	
Rated torque	(Nm)	T_{KN}	0.5			1.5		2			4.5		10	
Overall length (inserted)	(mm)	$A^{+0,2}$	22	25	28	26	31	28	33	37	39	47	46	56
Outside diameter	(mm)	B	15			19		25			32		40	
Fit length	(mm)	C_1	6.5			7.5		11			13		15	
Fit length	(mm)	C_2	9			10		11			14		16	
Inside diameter possible from Ø to Ø H7	(mm)	D_1	3-9			3-12		3-16			6-22		6-28	
Inside diameter possible from Ø to Ø H7	(mm)	D_2	3-6.35			3-9		3-12.7			6-16		6-20	
Clamping screw ISO 4029		E	1xM3			2xM3		2xM4			2xM5		2xM6	
Tightening torque of the fastening screw	(Nm)		1.3			1.3		2.5			4		6	
Distance	(mm)	G	2			2		2.5			3.5		4	
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
Moment of inertia	(gcm^2)	J_{ges}	2.0	2.2	2.5	5.5	6.0	21	23	25	80	85	200	210
Approximate weight*	(g)		9			14		35			71		125	
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
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

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

Ordering example	MK4	20	37	8	10	XX
Model	●					Special designation only (e.g. special bore tolerance).
Size		●				
Overall length mm			●			
Bore D1 H7				●		
Bore D2 H7					●	

For custom features place an XX at the end of the part number and describe the special requirements (e.g. MK4 / 20 / 37 / 8 / 9.53 / XX; XX=finely balanced for 25,000 rpm)