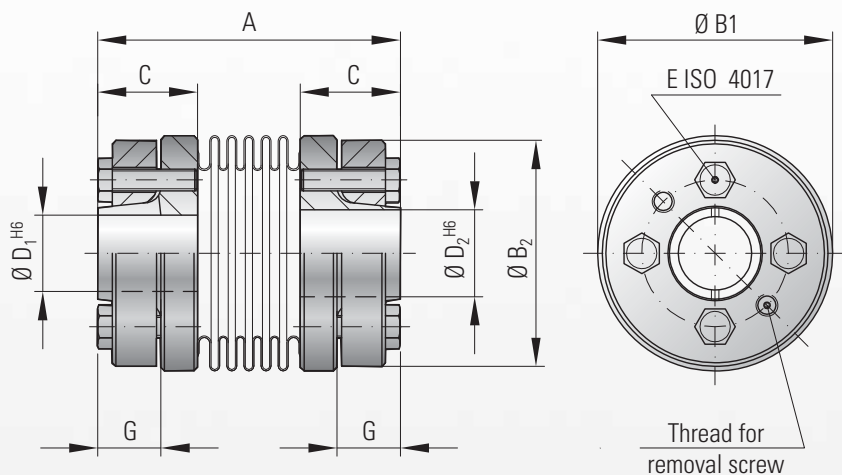


optional
stainless
steel

High speed

MODEL MKS

TECHNICAL SPECIFICATIONS



with conical clamping rings

Features:

- for high speed applications
- compensates for 3 types of misalignment
- high strength conical clamping connection
- for highly dynamic applications

Material:

Bellows made from highly flexible, high grade stainless steel; hubs and conical clamping rings made from high strength aluminum

Design:

Hubs with conical clamping rings, each with 3/4x ISO 4017 fastening screws

Temperature range:

-30 to +110° C (-22 to +230° F)

Balancing grade:

Standard balancing grade G = 2.5 (higher balancing grade upon request)

Speeds:

Maximum 120,000 rpm*

Service life:

Maintenance free with infinite life when operated within the technical specifications

Fit tolerance:

Overall clearance between hub and shaft
0.01-0.025 mm




Non standard applications:

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

Ordering example

MKS/45 / 10 / 8 / XX

Model
Series
Bore Ø D1 H6
Bore Ø D2 H6
Non standard e.g. anodized

Model MKS			Series	
			45	100
Rated torque (Nm)	T_{KN}	4.5	10	
Overall length (mm)	A	42	48	
Outside diameter (mm)	B_1	32	40	
Hub diameter (mm)	B_2	30	38	
Fit length (mm)	C	14	16	
Inside diameter possible from Ø to Ø H6 (mm)	$D_{1/2}$	6-10	8-14	
Standard bore Ø H6 (mm)	$D_{1/2}$	10	12	
Fastening screw ISO 4017 (mm)		3x M3	4x M3	
Tightening torque of the fastening screws (Nm)	E	1.3	1.3	
Distance (mm)	G	8.5	9.5	
Moment of inertia (gcm^2)	J_{total}	65	160	
Approximate weight (g)		51	75	
Torsional stiffness (Nm/rad)	C_T	7000	9050	
Axial  ± (mm)	max. values	0.5		
Lateral  ± (mm)		0.1	0.05*	
Angular  ± (degree)		0.5		

1 Nm = 8.85 in lbs

Note: It is very important to precisely align the shafts when operating at high speeds.

For speeds over 50,000 please refer to specifications marked with an asterisk*