

**SP6**

# HIGH SPEED WITH CONICAL CLAMPING RING

60 – 1,350 Nm

**NEW****High speed**

## PROPERTIES

### FEATURES

- ▶ very high precision
- ▶ very high concentricity
- ▶ high clamping force
- ▶ symmetrically machined hubs

### MATERIAL

- ▶ Hubs: high strength aluminium; optional steel
- ▶ Clamping ring: high strength aluminium; optional steel

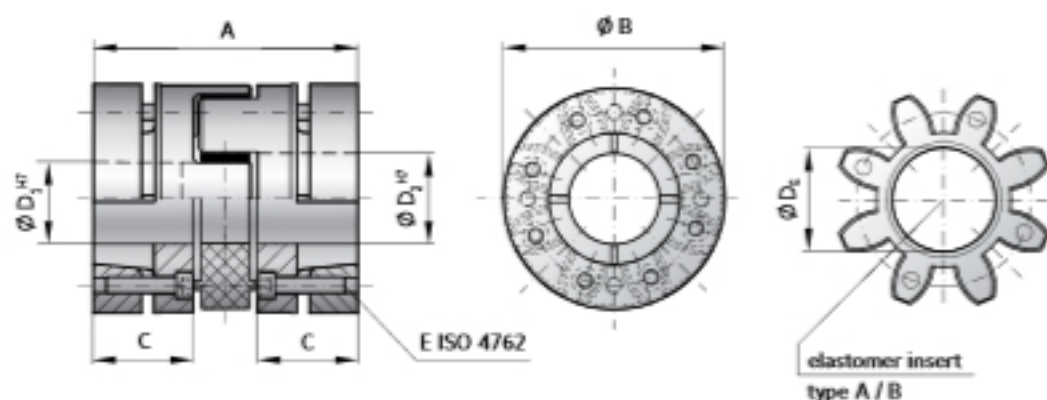
- ▶ **Elastomer: wear resistant thermally stable TPU**

### DESIGN

Two precision machined hubs with curved jaws and conical clamping rings.

### FIT CLEARANCE

Overall shaft / hub tolerance  
0.01 – 0.025 mm



## MODEL SP6

SIZE		60		150			300		450		
Type (Elastomer insert)		A	B	A	B	A	B	A	B		
Rated torque (Nm)	$T_{RM}$	60	75	160	200	325	405	530	660		
Max. torque (Nm)	$T_{Kmax}$	120	150	320	400	650	810	1060	1350		
Overall length (mm)	A	64	78	80	90	100	114	130	126	140	
Outside diameter (mm)	B	55		65			80		102		
Mounting length (mm)	C	23	30	30	35	40	45	42	50	57	
Inside diameter range H7 (mm)	$D_{1H7}^*$	14 – 32		19 – 38			20 – 48**		28 – 55		
Inside diameter of elastomer (mm)	$D_c$	26.2		29.2			36.2		46.2		
Hub material		AL / optional steel		AL / optional steel			AL / optional steel		AL / optional steel		
Clamping screw (ISO 4762)		4x M5		8x M5			8x M6		8x M8		
Tightening torque of the clamping screw - AL / steel (Nm)	E	6 / 6	7 / 7	7 / 8.5	7.5 / 8.5	8.5 / 8.5	14 / 14	25 / 30			
Moment of inertia per hub AL / steel ( $10^{-4}$ kgm <sup>2</sup> )	$J/J_1$	0.06 / 0.15	0.08 / 0.20	0.16 / 0.38	0.18 / 0.44	0.20 / 0.50	0.52 / 1.29	1.33 / 3.31	1.55 / 3.88	1.74 / 4.38	
Approx. weight total - AL / steel (kg)		0.25 / 0.62	0.32 / 0.78	0.46 / 1.10	0.53 / 1.30	0.60 / 1.43	1.00 / 2.41	1.70 / 4.00	1.90 / 4.70	2.20 / 5.20	
Speed standard (min <sup>-1</sup> )		28,000		26,000			26,000		18,000		

For information on shaft misalignment, torsional stiffness, and other details about the elastomer inserts see pages 72 + 73.

\* Recommended fit pairing H7/k6; H6/j5 (short spindle); starting at Ø55 G7/m6

\*\* from Ø46 to 48 with custom hub

ORDERING EXAMPLE	SP6	150	90	A	32	25.4	XX
Model	●						Special designation only (e.g. hub material steel).
Size		●					
Overall length			●				
Elastomer insert type				●			
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. SP6 / 150 / 90 / A / 32 / 25.4 / XX; XX = hub material steel)