

SP6

High speed with conical clamping ring

60 – 2,150 Nm



Features

- Very high precision
- Very high concentricity
- High clamping force
- Symmetrically machined hubs

Material

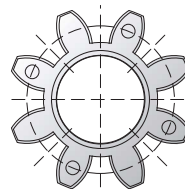
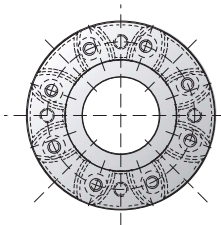
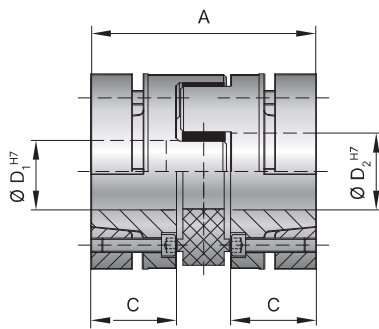
- **Hubs:** high strength aluminium; optional steel
- **Clamping ring:** high strength aluminium; optional steel
- **Elastomer:** wear resistant thermally stable TPU

Design

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

Fit clearance

Overall shaft / hub tolerance 0.01 – 0.025 mm



High speed

Model SP6

Size		60		150		300		400		450			600		800			
Type (Elastomer insert)		A	B	A	B	A	B	A	B	A	B	A	B	A	B			
Rated torque	(Nm) T _{KN}	60	75	160	200	325	405	410	520	530	660	700	840	950	1,100			
Max. torque*	(Nm) T _{Kmax}	120	150	320	400	650	810	820	1,040	1,060	1,350	1,400	1,680	1,900	2,150			
Overall length	(mm)	A	64	78	80	90	100	114	126	110	126	140	160	138				
Outside diameter(mm)	B	55		65		80		95		102			120		136.5			
Mounting length (mm)	C	23	30	30	35	40	45	50		42	50	57	65	53				
Inside diameter range H7	(mm) D _{1/2} *	14 - 32		19 - 38		20 - 48**		25 - 50		28 - 55			35 - 70		40 - 80			
Inside diameter of elastomer	(mm) D _E	26.2		29.2		36.2		43		46.2			55		60.5			
Hub material)		AL / optional steel														steel		
Clamping screw (ISO 4762)		4x M5		8x M5			8x M6		8x M8		8x M8			8x M8		8x M10		
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	23 / 30		25 / 30			30 / 35		46 / 63	
Moment of inertia per hub AL / steel (10 ⁻³ kgm ²)		J ₁ /J ₂	0.06 / 0.15	0.08 / 0.20	0.16 / 0.38	0.18 / 0.44	0.20 / 0.50	0.52 / 1.29		1.25 / 3.05		1.33 / 3.31	1.55 / 3.88	1.74 / 4.38	3.80 / 9.60		5.52 / 13.72	
Approx. weight 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		1.76 / 4.17		1.70 / 4.00	1.90 / 4.70	2.20 / 5.20	3.22 / 8.00		3.73 / 9.17	
Speed standard (min ⁻¹)			28,000		26,000			26,000		19,000		18,000			15,000		13,500	

For information on shaft misalignment, torsional stiffness, and other details about the elastomer inserts see pages 64.

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

** from Ø46 to 48 with custom hub