

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

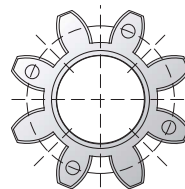
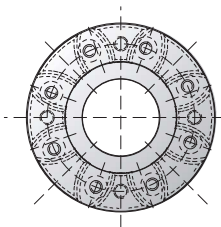
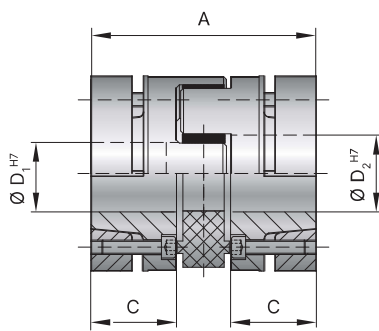
- **Hubs:** high strength aluminium; optional steel
- **Clamping ring:** high strength aluminium; optional steel
- **Elastomer:** wear resistant thermally stable TPU

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