



ROTEX® Torsionally flexible couplings


Spider types



- standard spider 92 Sh A
- suitable for all hub materials
- for all applications in general engineering/hydraulics
- good dynamic properties
- temperature range from -40 °C to +90 °C



- spider 95/98 Sh A
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- optimum combination with hub material
- steel: EN-GJL-250 (GG 25); EN-GJS-400-15 (GGG 40)
- transmitting high torques yet damping vibrations
- temperature range from -30 °C to +90 °C



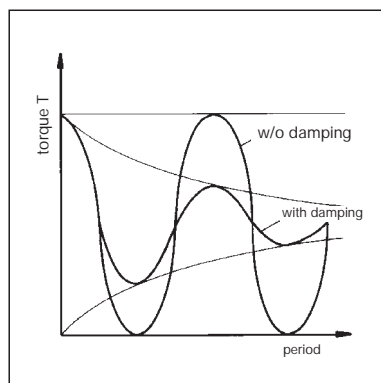
- spider 64 Sh D-F
- optimum combination with hub material steel: EN-GJS-400-15 (GGG 40)
- transmitting twice the torque of spider 92 Sh A
- small twisting angle
- spider suitable for critical drives
- resistant to hydrolysis

Spider types – Materials, physics, properties

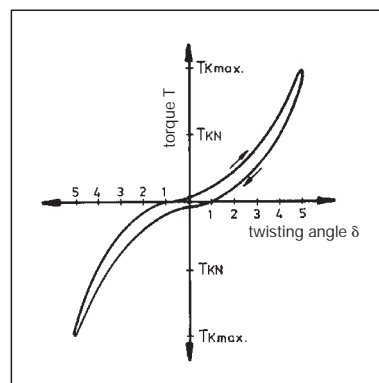
Standard spiders						
Spider type hardness- (Shore)	Identification colour	Material	Perm. temperature range (°C)		Available for coupling size	Typical applications
			Continuous temperature	Max. temperature short time		
92 Sh A	yellow	polyurethane	- 40 to + 90	- 50 to + 120	size 14 – 180	- for all applications in general engineering and hydraulics - Standard applications with average elasticity
95/98 Sh A	red	polyurethane	- 30 to + 90	- 40 to + 120	size 14 – 180	- good torque transmission with good damping properties
64 Sh D-F	natural white with green tooth flanks	polyurethane	- 30 to + 110	- 30 to + 130	size 14 – 180	- I.C. - engines - high air moisture, resistant to hydrolysis - displacement of critical speeds

Spiders for special applications on request for:					
Typical applications	Spider type hardness (Shore)	Identification colour	Material	Perm. temperature range (°C)	
				Continuous temperature	Max. temperature short time
I.C.-engines, for high dynamic load, high air moisture/resistant to hydrolysis	94 Sh A-T	blue with yellow tooth flanks	polyurethane	- 50 to + 110	- 60 to + 130
Drives with higher loads, small twisting angles - torsionally rigid, high ambient temperatures	64 Sh D-H	green	hytrel	- 50 to + 110	- 60 to + 150
Small twisting angles and high torsion spring stiffness, high ambient temperature, good resistance to chemicals	PA	white	polyamide	- 20 to + 110	- 30 to + 120

Comparison of loads



Twisting angle



Damping

