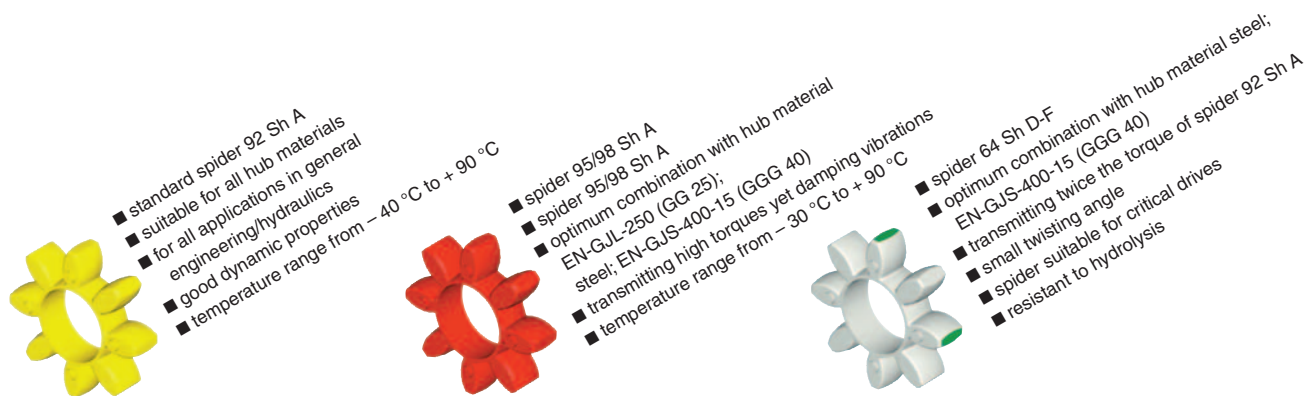


Spider types



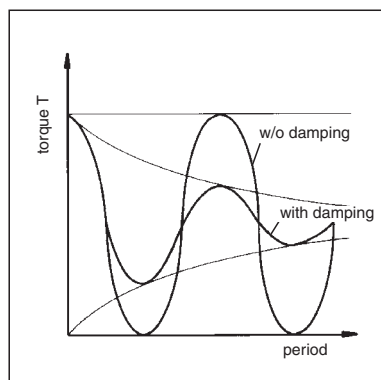
Spider types – Materials, physics, properties

Standard spiders						
Spider type hardness-(Shore)	Identification colour	Material	Perm. temperature range ($^{\circ}\text{C}$)		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

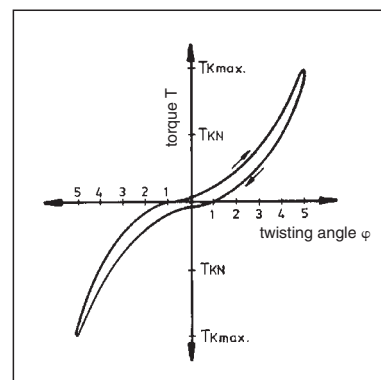
Spiders for special applications on request for:					
Typical applications	Spider type hardness (Shore)	Identification colour	Material	Perm. temperature range ($^{\circ}\text{C}$)	
				Continuous temperature	Max. temperature short time
I.C.-engines, for high dynamic load, high air moisture/resistant 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	polyamide	-	PA	-20 to $+130$	-30 to $+150$
Small twisting angles and high torsion spring stiffness, very high ambient temperature, good resistance to chemicals, resistant to hydrolysis	PEEK	light grey	PEEK	up to $+180$ (ATEX release up to a max. $+160$)	to $+250$

1) Different properties depending on compound

Comparison of loads



Twisting angle



Damping

