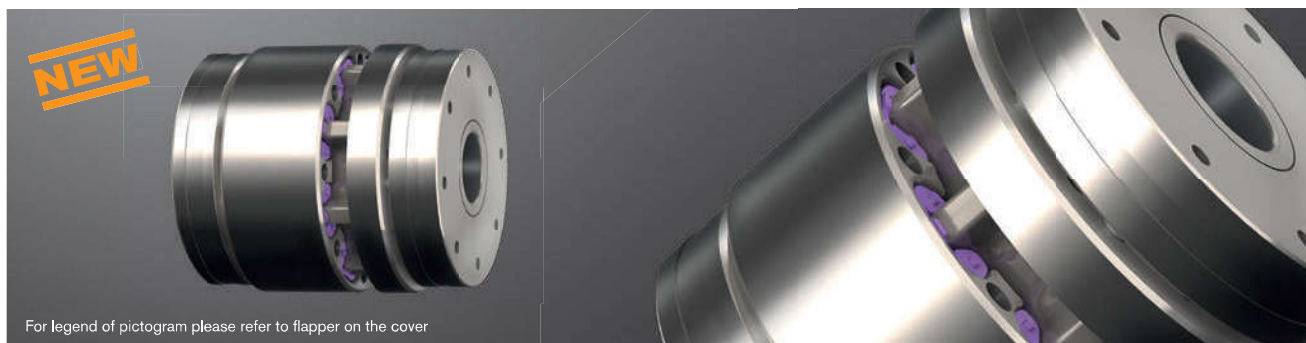


ROTEX® GS HP

Backlash-free shaft coupling

Highly accurate closed coupling system



ROTEX® GS HP - clamping ring hubs/clamping ring material steel

Size	Spider GS ¹⁾ torque T _{KN} [Nm] for 98 ShA-GS/52 ShD-GS		Max. speed [rpm]	Dimensions [mm]											Clamping screws DIN EN ISO 4762			Weight per hub with max. bore [kg]	Mass moment of inertia of coupling with max. bore [kgm ²]
	T _{KN}	T _{K max}		Max. d1, d2	DH	D	L	l ₁ , l ₂	l ₃ , l ₄	N	E	b	s	M	z = number	T _A [Nm]			
24	100	200	59,000	25	55	48	73	25	18	15	24	20	2	5	5	7.7	0.74	0.000317	
28	160	320	47,000	35	65	58	78	27	17	17	24	20	2	5	6	7.7	1.02	0.000653	
38	400	800	39,000	45	80	76	82	29	18	18	24	20	2	5	8	7.7	1.54	0.001534	
42	475	950	35,000	51	95	82	99	36	24	24	27	22	2.5	6	8	13	2.59	0.003441	
48	550	1100	30,000	55	105	92	101	37	25	25	27	22	2.5	6	9	13	3.39	0.005481	
55	725	1450	26,000	60	120	105	103	38	26	26	27	22	2.5	6	10	13	6.84	0.009172	

¹⁾ For selections see page 22 et seqq/other spiders see page 123 and following

Review of shaft-hub-connection: Friction torques T_R [Nm] for hub design 6.0 steel

Size		Ø12	Ø15	Ø18	Ø19	Ø20	Ø22	Ø25	Ø28	Ø32	Ø35	Ø38	Ø40	Ø42	Ø45	Ø48	Ø50	Ø55 *	Ø60 *
24	H6/k6	55	102	165	115	133	172	241											
28	H6/k6		125	199	226	158	202	280	246	340	432								
38	H6/k6					216	274	376	374	508	635	586	666	752	649				
42	H6/k6									665	830	1015	770	871	1035	1215	1153		
48	H6/k6													957	1135	1330	1132	1424	
55	H6/k6													1220	1440	1455	1604	1635	2026

* From Ø55 G6/m6.

The torque is reduced with bigger fitting tolerances. For the strength calculation of shaft/hollow shaft see KTR standard 45710 on our homepage www.ktr.com.

Displacements

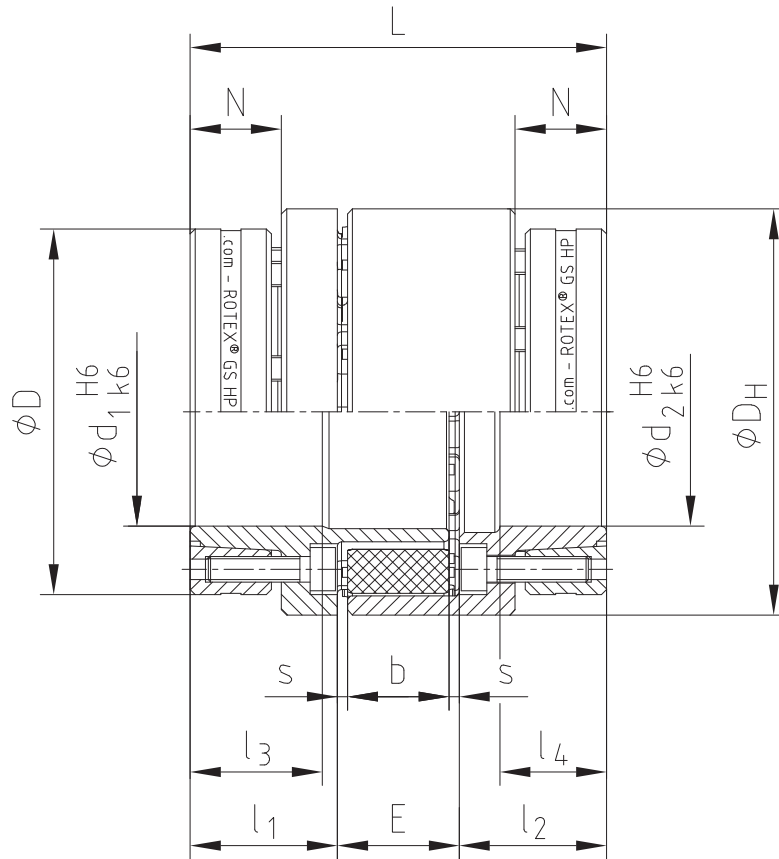
Size	Spider GS	Displacements		
		Axial ΔK _a [mm]	Radial ΔK _r [mm]	Angular ΔK _w [degree]
24	98 ShA	+1.0/-0.8	0.10	0.9
28	98 ShA			
38	98 ShA			
42	52 ShD	+1.4/-1.0	0.14	0.9
48	52 ShD			
55	52 ShD			

The displacement figures may only be used one by one, if they appear simultaneously, they must be limited in proportion. Care should be taken to maintain the distance dimension E accurately in order to allow for axial clearance of the coupling while in operation. Detailed mounting instructions are shown on our homepage www.ktr.com.

Ordering
example:

ROTEX® GS 24 HP	98 ShA-GS	6.0 - Ø25		6.0 - Ø25	
Coupling size	Spider hardness	Hub design	Finish bore	Hub design	Finish bore

Components



ROTEX® GS

TOOLFLEX®

RADEX®-NC

COUNTEX®

Backlash-free
servo couplings