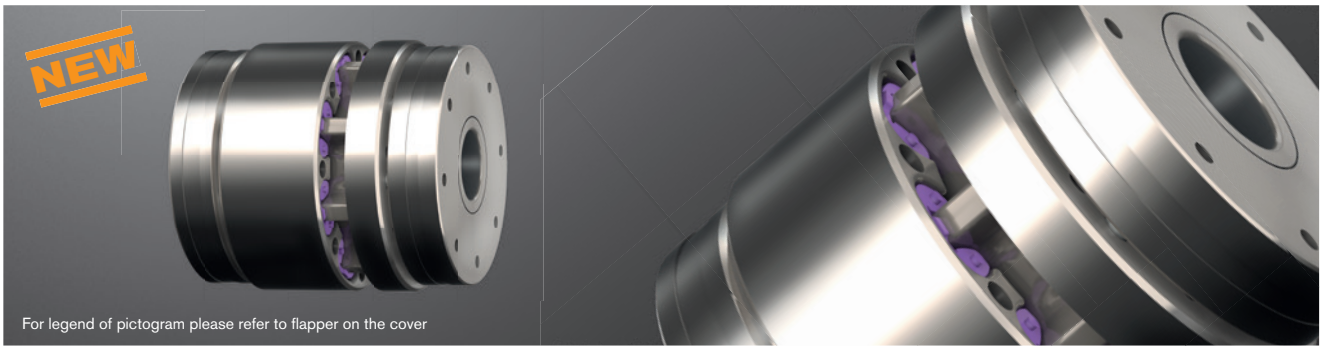
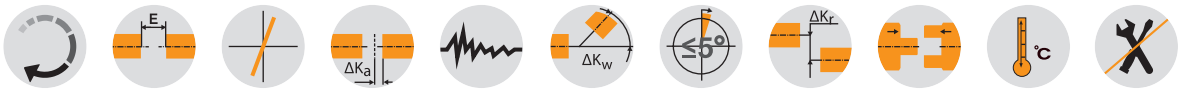
ROTEX® GS HP
Backlash-free shaft coupling

Highly precise 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		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 [kgm²]
	T_{KN}	$T_{K\ max}$		Max. d1, d2	D_H	D	L	l_1, l_2	l_3	M	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 selection see page 18 et seqq.

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 at our homepage www.ktr.com.

Displacements

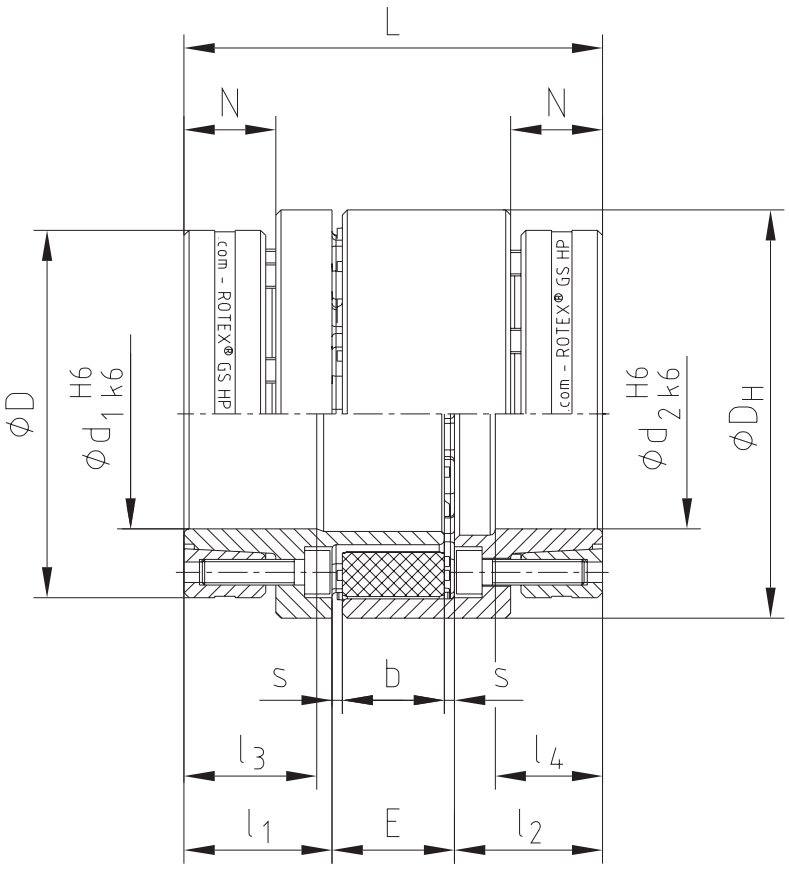
Size	Spider GS	Displacements		
		Axial ΔKa [mm]	Radial ΔKr [mm]	Angular ΔKw [degree]
24	98 ShA			
28	98 ShA	+1.0/-0.8	0.10	
38	98 ShA			0.9
42	98 ShA			
48	98 ShA	+1.4/-1.0	0.14	
55	98 ShA			

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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ØD
H6
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