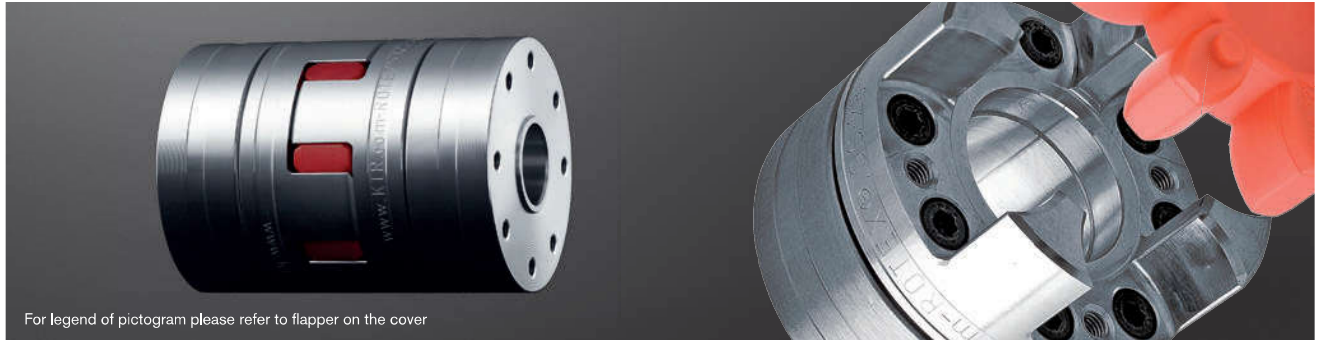


ROTEX® GS Clamping ring hubs light Backlash-free jaw couplings

Integrated clamping system made of aluminium

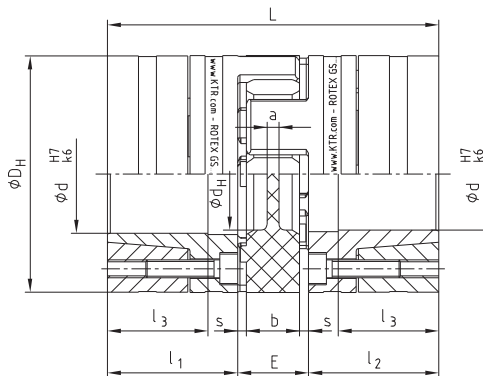


For legend of pictogram please refer to flapper on the cover



Tack thread M₁ between clamping screws

Clamping ring hub light with block mounting (hub and clamping ring mounted as a block)



ROTEX® GS clamping ring hubs light																			
Size	Spider GS ¹⁾ torque T _{KN} [Nm]					Dimensions [mm]									Clamping screws DIN EN ISO 4762			Weight per hub with max. bore [kg]	Mass moment of inertia per hub with max. bore [kgm ²]
	92 ShA	98 ShA	64 ShD	d _{max.}	D _H ²⁾	d _H	L	l ₁ , l ₂	l ₃	E	b	s	a	M	z = number	T _A [Nm]	M ₁		
14	7.5	12.5	16.0	14	30	10.5	50	18.5	13.5	13	10	1.5	2.0	M3	4	1.34	M3	0.032	0.04 x 10 ⁻⁴
19	12	21	26	20	40	18	66	25	18	16	12	2.0	3.0	M4	6	3	M4	0.077	0.19 x 10 ⁻⁴
24	35	60	75	32	55	27	78	30	22	18	14	2.0	3.0	M5	4	6	M5	0.162	0.78 x 10 ⁻⁴
28	95	160	200	38	65	30	90	35	27	20	15	2.5	4.0	M5	8	6	M5	0.240	1.70 x 10 ⁻⁴
38	190	325	405	48	80	38	114	45	35	24	18	3.0	4.0	M6	8	10	M6	0.490	5.17 x 10 ⁻⁴
42	265	450	560	51	95	46	126	50	35	26	20	3.0	4.0	M8	4	25	M8	0.772	11.17 x 10 ⁻⁴
48	310	525	655	55	105	51	140	56	41	28	21	3.5	4.0	M10	4	49	M10	1.066	18.81 x 10 ⁻⁴

¹⁾ For selections see page 22 et seqq/other spiders see page 123 and following
²⁾ ØD_H + 2 mm with high speeds for expansion of spider

Review of shaft-hub-connection: Friction torques T _R [Nm] for hub design 6.0 light																								
Size		Ø6	Ø8	Ø9	Ø10	Ø11	Ø14	Ø15	Ø16	Ø19	Ø24	Ø25	Ø28	Ø30	Ø32	Ø35	Ø38	Ø40	Ø42	Ø45	Ø48	Ø50	Ø55*	
14	H7/k6	8.2	13.1	18.7	20.5	25.9	36.2																	
	H7/h6	5.8	9.5	15.7	16.6	21.6	24.7																	
19	H7/k6				33	41	59	71	51	80	92													
	H7/h6				27	35	52	65	39	68	81													
24	H7/k6						84	99	93	139	157	160	177	232										
	H7/h6						75	92	79	125	145	119	136	190										
28	H7/k6								140	207	188	289	316	355	414	324	404	422						
	H7/h6								121	187	157	263	293	318	381	245	324	343						
38	H7/k6										290	439	480	567	656	617	759	733	825	922	808	937		
	H7/h6										247	403	447	530	626	499	636	606	696	792	678	809		
42	H7/k6													651	752	747	916	1001	1115	1044	1218	1404	1432	
	H7/h6													574	681	613	774	881	1001	888	1058	1241	1295	
48	H7/k6													765	822	927	1121	1220	1357	1318	1536	1768	1535	1834
	H7/h6													678	760	837	1047	1085	1231	1128	1339	1566	1331	1591

* Standard bore tolerance H7, special tolerances on request * From Ø55 tolerance G7/m6
 The torque is reduced with bigger fitting tolerances. Steel or nodular iron with a yield strength of approx. 250 N/mm² or more can be used as shaft material. For strength calculation of shaft/hollow shaft see KTR standard 45510 on our homepage www.ktr.com.

Ordering example:	ROTEX® GS 24	98 ShA-GS	d 20	6.0 light - Ø24		6.0 light - Ø20	
	Coupling size	Spider hardness	Optional: Bore in spider	Hub design	Finish bore	Hub design	Finish bore

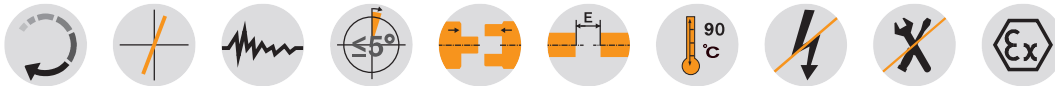
ROTEX® GS Clamping ring hubs made of steel

Backlash-free jaw couplings

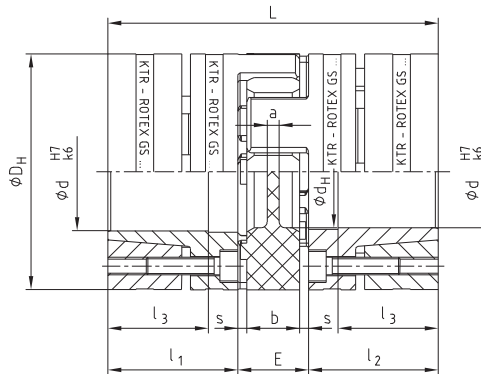
Integrated clamping system made of steel



For legend of pictogram please refer to flapper on the cover



Tack thread M₁ between clamping screws



ROTEX® GS clamping ring hubs steel																					
Size	Spider GS ¹⁾ torque [kN [Nm]			Dimensions [mm]										Clamping screws DIN EN ISO 4762			Weight per hub with max. bore [kg]	Mass moment of inertia per hub with max. bore [kgm ²]			
	98 ShA	64 ShD	72 ShD	d _{max.}	D _H ²⁾	d _H	L	l ₁ , l ₂	l ₃	E	b	s	a	M	z = number	T _A [Nm]			M ₁		
19	21	26	—	20	40	18	66	25	18	16	12	2.0	3.0	M4	6	4.1	M4	0.179	0.44 x 10 ⁻⁴		
24	60	75	97	28	55	27	78	30	22	18	14	2.0	3.0	M5	4	8.5	M5	0.399	1.91 x 10 ⁻⁴		
28	160	200	260	38	65	30	90	35	27	20	15	2.5	4.0	M5	8	8.5	M5	0.592	4.18 x 10 ⁻⁴		
38	325	405	525	48	80	38	114	45	35	24	18	3.0	4.0	M6	8	14	M6	1.225	12.9 x 10 ⁻⁴		
42	450	560	728	51	95	46	126	50	35	26	20	3.0	4.0	M8	4	41	M8	2.30	31.7 x 10 ⁻⁴		
48	525	655	852	55	105	51	140	56	41	28	21	3.5	4.0	M10	4	69	M10	3.08	52.0 x 10 ⁻⁴		
55	685	825	1072	70	120	60	160	65	45	30	22	4.0	4.5	M10	4	69	M10	4.67	103.0 x 10 ⁻⁴		
65	940	1175	1527	70	135	68	185	75	55	35	26	4.5	4.5	M12	4	120	M12	6.70	191.0 x 10 ⁻⁴		
75	1920	2400	—	80	160	80	210	85	63	40	30	5.0	5.0	M12	5	120	M12	9.90	396.8 x 10 ⁻⁴		
90	3600	4500	—	105	200	104	245	100	75	45	34	5.5	6.5	M16	5	295	M16	17.7	1136 x 10 ⁻⁴		

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

²⁾ øD_H + 2 mm with high speeds for expansion of spider

Review of shaft-hub-connection: Friction torques T _R [Nm] for hub design 6.0 steel																													
Size		Ø10	Ø11	Ø14	Ø15	Ø16	Ø19	Ø20	Ø24	Ø25	Ø28	Ø30	Ø32	Ø35	Ø38	Ø40	Ø42	Ø45	Ø48	Ø50	Ø55*	Ø60*	Ø65*	Ø70*	Ø80*	Ø90*	Ø95*	Ø100*	Ø105*
19	H7/k6	27	32	69	84	57	94	110																					
	H7/h6	15	18	57	74	38	76	94																					
24	H7/k6			70	87	56	97	114	116	133	192																		
	H7/h6			55	74	32	72	93	84	103	173																		
28	H7/k6			108	131	207	148	253	285	315	382	330	433	503															
	H7/h6			74	97	172	94	207	242	267	343	260	377	453															
38	H7/k6						208	353	395	439	531	463	603	593	689	793	776												
	H7/h6						136	290	337	373	476	367	525	491	601	721	677												
42	H7/k6								445	495	595	526	678	671	775	718	872	1043	1061										
	H7/h6								387	429	540	429	600	569	687	599	773	970	978										
48	H7/k6								616	704	899	896	1030	962	1160	1379	1222	1543											
	H7/h6								513	590	806	775	924	822	1042	1290	1073	—											
55	H7/k6											863	856	991	918	1119	1110	1247	1277	1665	1605	2008							
	H7/h6											750	710	863	750	976	934	1089	—	—	—	—							
65	H7/k6												1446	1355	1637	1635	1827	1887	2429	2368	2930								
	H7/h6												1275	1135	1447	1404	1619	—	—	—	—								
75	H7/k6													1710	2053	2059	2294	2384	3040	2983	3664	4293							
	H7/h6													1460	1836	1797	2056	—	—	—	—								
90	H7/k6																			3845	4249	4794	5858	5900	7036	8047	9247	9575	10845
	H7/h6																			3445	—	—	—	—	—	—	—	—	—

* From Ø55 tolerance G7/m6

The torque is reduced with bigger fitting tolerances. For the strength calculation of shaft/hollow shaft see KTR standard 45510 on our homepage www.ktr.com.

Ordering example:	ROTEX® GS 24	98 ShA-GS	d 20	6.0 steel - Ø24		6.0 steel - Ø20	
	Coupling size	Spider hardness	Optional: Bore in spider	Hub design	Finish bore	Hub design	Finish bore