

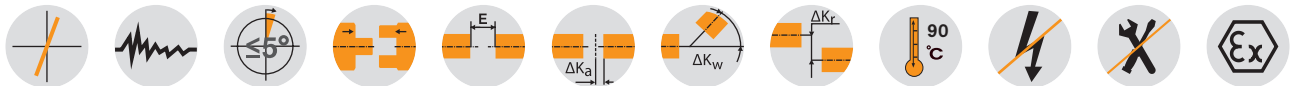
ROTEX® GS

Backlash-free jaw couplings

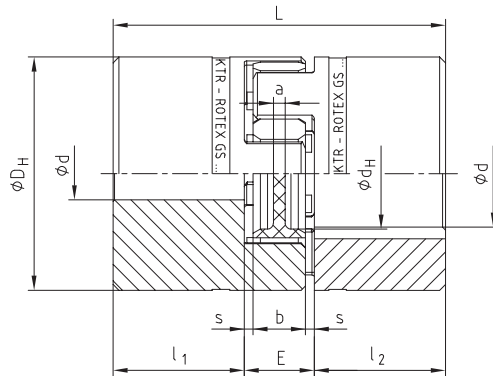
Standard types



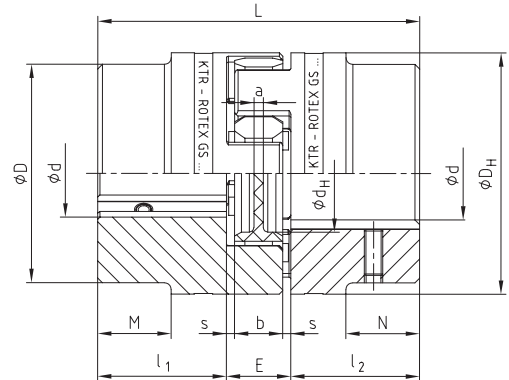
For legend of pictogram refer to flapper on the cover



ROTEX® GS 5 - 38

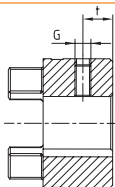


ROTEX® GS 42 - 90



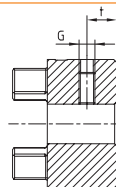
Types of hubs:

Type 1.0



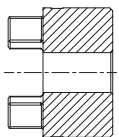
with feather keyway
and setscrew

Type 1.1



without feather keyway,
with setscrew

Type 1.2



without feather keyway
and without setscrew

ROTEX® GS standard types - For size 5 to 38 hub material aluminium/for size 42 to 90 hub material steel

Size	Spider GS ¹⁾ torque T _{KN} [Nm] for 98 ShA	d _{max.} for hub type			Dimensions [mm]										Setscrew DIN EN ISO 4029		
		1.0	1.1	1.2	D	D _H	d _H	L	l ₁ , l ₂	M, N	E	b	s	a	G	t	T _A [Nm]
5	0.9	-	6	5	-	10	-	15	5	-	5	4	0.5	4.0	M2	2.5	0.35
7	2.0	7	7	7	-	14	-	22	7	-	8	6	1.0	6.0	M3	3.5	0.6
9	5.0	10	11	11	-	20	7.2	30	10	-	10	8	1.0	1.5	M4	5.0	1.5
12	9.0	12	12	12	-	25	8.5	34	11	-	12	10	1.0	3.5	M4	5.0	1.5
14	12.5	16	16	16	-	30	10.5	35	11	-	13	10	1.5	2.0	M4	5.0	1.5
19	21	24	-	-	-	40	18	66	25	-	16	12	2.0	3.0	M5	10	2.0
24	60	32	-	-	-	55	27	78	30	-	18	14	2.0	3.0	M5	10	2.0
28	160	38	-	-	-	65	30	90	35	-	20	15	2.5	4.0	M8	15	10
38	325	45	-	-	-	80	38	114	45	-	24	18	3.0	4.0	M8	15	10
42	450	55	-	-	85	95	46	126	50	28	26	20	3.0	4.0	M8	20	10
48	525	62	-	-	95	105	51	140	56	32	28	21	3.5	4.0	M8	20	10
55	685	74	-	-	110	120	60	160	65	37	30	22	4.0	4.5	M10	20	17
65	940	80	-	-	115	135	68	185	75	47	35	26	4.5	4.5	M10	20	17
75	1920	95	-	-	135	160	80	210	85	53	40	30	5.0	5.0	M10	25	17
90	3600	110	-	-	160	200	104	245	100	62	45	34	5.5	6.5	M12	30	40

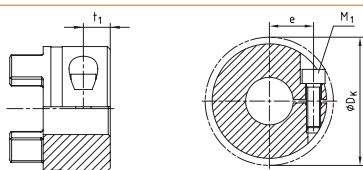
¹⁾ For selections see page 22 et seqq./other spiders see page 127.

Ordering example:

ROTEX® GS 24	98 ShA-GS	d 20	2.5 - Ø24	1.0 - Ø20
Coupling size	Spider hardness	Optional: Bore in spider	Hub type	Finish bore
			Hub type	Finish bore

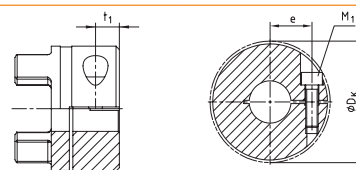
Types of hubs:

Type 2.0
Type 2.1



Size 5 to 14
Type 2.0: single slotted clamping hub **without** feather keyway
(only for ATEX cat. 3), torque depending on bore Ø
Type 2.1: single slotted clamping hub **with** feather keyway

Type 2.5
Type 2.6



from size 19
Type 2.5: double slotted clamping hub **without** feather keyway
(only for ATEX cat. 3), torque depending on bore Ø
Type 2.6: double slotted clamping hub **with** feather keyway

ROTEX® GS standard types - For size 5 to 38 hub material aluminium/for size 42 to 90 hub material steel

Size	Spider GS ¹⁾ torque T _{KN} [Nm] for 98 ShA	d _{max.} for hub type				Dimensions [mm]														Clamping screws DIN EN ISO 4762 (ROTEX® GS 5 - DIN EN ISO 1207)				
		2.0	2.1	2.5	2.6	D	D _H	d _H	L	l ₁ , l ₂	M, N	E	b	s	a	M ₁	t ₁	e	DK	T _A [Nm]				
5	0.9	5	—	—	—	—	10	—	15	5	—	5	4	0.5	4.0	M1.2	2.5	3.5	11.4	— ²⁾				
7	2.0	7	7	—	—	—	14	—	22	7	—	8	6	1.0	6.0	M2	3.5	5.0	16.5	0.37				
9	5.0	11	11	—	—	—	20	7.2	30	10	—	10	8	1.0	1.5	M2.5	5.0	7.5	23.4	0.76				
12	9.0	12	12	—	—	—	25	8.5	34	11	—	12	10	1.0	3.5	M3	5.0	9.0	27.5	1.34				
14	12.5	16	16	—	—	—	30	10.5	35	11	—	13	10	1.5	2.0	M3	5.0	11.5	32.2	1.34				
19	21	—	—	24	24	—	40	18	66	25	—	16	12	2.0	3.0	M6	11.0	14.5	46	10				
24	60	—	—	28	28	—	55	27	78	30	—	18	14	2.0	3.0	M6	10.5	20.0	57.5	10				
28	160	—	—	38	38	—	65	30	90	35	—	20	15	2.5	4.0	M8	11.5	25.0	73	25				
38	325	—	—	45	45	—	80	38	114	45	—	24	18	3.0	4.0	M8	15.5	30.0	83.5	25				
42	450	—	—	50	45	85	95	46	126	50	28	26	20	3.0	4.0	M10	18	32.0	93.5	69				
48	525	—	—	55	55	95	105	51	140	56	32	28	21	3.5	4.0	M12	21	36.0	105	120				
55	685	—	—	68	68 ³⁾	110	120	60	160	65	37	30	22	4.0	4.5	M12	26	42.5	119.5	120				
65	940	—	—	70	70 ³⁾	115	135	68	185	75	47	35	26	4.5	4.5	M12	33	45.0	124	120				
75	1920	—	—	80	80	135	160	80	210	85	53	40	30	5.0	5.0	M16	36	51.0	147.5	295				
90	3600	—	—	90	90	160	200	104	245	100	62	45	34	5.5	6.5	M20	40	60.0	176	580				

¹⁾ For selections see page 22 et seq./other spiders see page 121.

²⁾ No T_A defined (slotted screw)

³⁾ From Ø60 keyway opposite the clamping screw

Review of shaft-hub-connection: Friction torques T_R [Nm] for hub type 2.0

Size	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø9	Ø10	Ø11	Ø12	Ø13	Ø14	Ø15	Ø16
7	0.7	0.9	1.1	1.2	1.4									
9		1.6	1.9	2.2	2.6	2.9	3.2	3.5	3.8					
12		2.4	2.9	3.4	3.9	4.4	4.9	5.4	5.8	6.3				
14			3.1	3.6	4.2	4.7	5.2	5.7	6.2	6.7	7.1	7.6	8.0	8.5

Review of shaft-hub-connection: Friction torques T_R [Nm] for hub type 2.5

Size	Ø8	Ø10	Ø11	Ø14	Ø15	Ø16	Ø18	Ø19	Ø20	Ø22	Ø24	Ø25	Ø28	Ø30	Ø32	Ø35	Ø38	Ø40	Ø42	Ø45	Ø48	Ø50	Ø55	Ø60	Ø65	Ø70	Ø75	Ø80	Ø85	Ø90
19	19	23	25	31	33	35	39	41	42	46 ⁴⁾	49 ⁴⁾																			
24		24	26	33	35	37	41	43	45	48	52	54	59																	
28				63	67	71	79	82	86	94	101	105	115	122	129	139	148													
38					67	71	79	83	87	95	102	106	117	124	131	142	152	158	165	175										
42								188	197	214	231	240	264	281	297	320	343	358	373	395	417	431								
48												356	394	418	442	478	513	536	558	592	624	646	699							
55													456	493	529	553	577	611	646	668	724	778	830	882						
65																499	536	560	584	620	655	677	734	789	842	895	946			
75																			1107	1175	1242	1287	1396	1503	1607	1709	1810	1908	2005	
90																			1764	1876	1985	2057	2235	2409	2579	2746	2911	3072	3231	3387

⁴⁾ Clamping hub single slotted with 2-off clamping screws M4 and dimension e = 15, T_A = 2.9 Nm