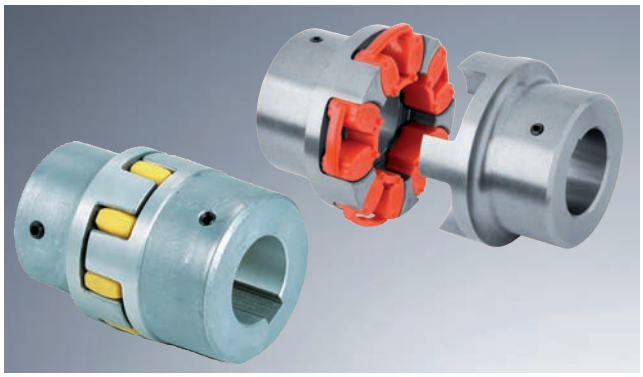
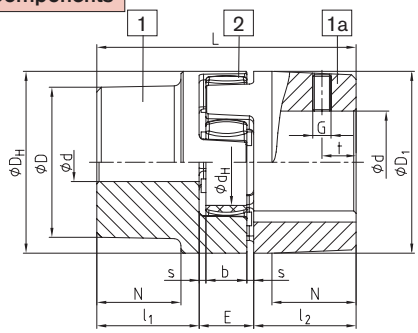
Shaft coupling standard design – cast materials

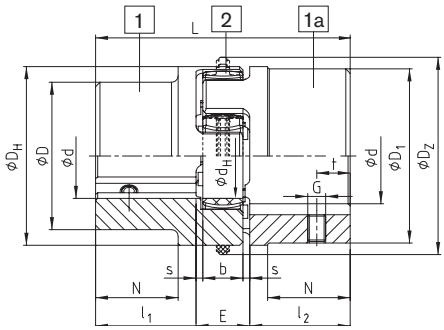


- Failsafe, reduced maintenance, blind assembly
- Torsionally flexible / vibration-damping
- Machined jaws - good dynamic properties and reduced spider wear
- Low weight cast aluminum hubs up to size 28
- Cast and nodular iron hubs from size 38 up to size 180
- Ⓔx Certified to EC Standard 94/9/EC (Cast and Nodular Iron materials)
- Installation instructions available at www.ktr.com

Components

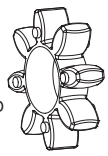


AL-D (thread on the keyway)



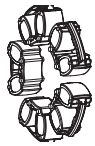
EN-GJL-250 / EN-GJS-400-15 (thread on the keyway)

Spider
as hardness 92 Sh-A and 95/98 Sh-A standard from size 14 - 100 and 64 Sh-D size 14 - 180



NEW

elements DZ (double tooth elements)
as hardness 92 Sh-A and 95 Sh-A standard from size 110 - 180



ROTEX® Aluminium Diecast (Al-D)

Size	Compo-nent	Spider (part 2) [1] Rated torque [lb-in]			Bore Ød	Dimensions [in] General										Setscrews		
		92 Sh A	98 Sh A	64 Sh D	(min-max)	L	l_1; l_2	E	b	s	D_H	D_Z	d_H	D; D_1	N	G	t	T_A [lb-in]
14	1a	66	110	-	0.250 - 0.625	1.38	0.43	0.51	0.39	0.06	1.18	-	0.39	1.18	-	M4	0.20	13
19	1	89	150	-	0.250 - 0.750	2.60	0.98	0.63	0.47	0.08	1.61	-	0.71	1.26	0.79	M5	0.39	18
	1a				0.750 - 0.938									1.61				
24	1	300	530	-	0.375 - 0.938	3.07	1.18	0.71	0.55	0.08	2.20	-	1.06	1.57	0.79	M5	0.39	18
	1a				0.875 - 1.125									2.20				
28	1	840	1,410	-	0.438 - 1.125	3.54	1.38	0.79	0.59	0.10	2.60	-	1.18	1.89	1.10	M8	0.59	89
	1a				1.125 - 1.438									2.60				

ROTEX® Cast iron EN-GJL-250 (GG 25)

	1				0.500 - 1.500	4.49	1.77							2.60	1.46			
38	1a	1,680	2,870	3,580	1.500 - 1.813			0.94	0.71	0.12	3.15	-	1.50	3.07		M8	0.59	89
	1b				0.500 - 1.813	6.46	2.76								2.44			
	1				0.563 - 1.688	4.96	1.97							2.95	1.57			
42	1a	2,340	3,980	4,950	1.688 - 2.125			1.02	0.79	0.12	3.74	-	1.81	3.70		M8	0.59	89
	1b				0.563 - 2.125	6.93	2.95								2.56			
	1				0.625 - 2.000	5.51	2.20							3.35	1.77			
48	1a	2,740	4,640	5,790	1.938 - 2.375			1.10	0.83	0.14	4.13	-	2.01	4.09		M8	0.59	89
	1b				0.625 - 2.375	7.40	3.15								2.72			
55	1	3,620	6,060	7,300	0.813 - 2.313	6.30	2.56	1.18	0.87	0.16	4.72	-	2.36	3.86	2.05	M10	0.79	150
	1a				2.188 - 2.813									4.65				
65	1	5,530	8,310	10,390	0.875 - 2.625	7.28	2.95	1.38	1.02	0.18	5.31	-	2.68	4.53	2.40	M10	0.79	150
75	1	11,320	16,990	21,240	1.188 - 3.000	8.27	3.35	1.57	1.18	0.20	6.30	-	3.15	5.31	2.72	M10	0.98	150
90	1	21,240	31,860	39,820	1.625 - 3.750	9.65	3.94	1.77	1.34	0.22	7.87	8.58	3.94	6.30	3.19	M12	1.18	354

ROTEX® Nodular iron EN-GJS-400-15 (GGG 40)

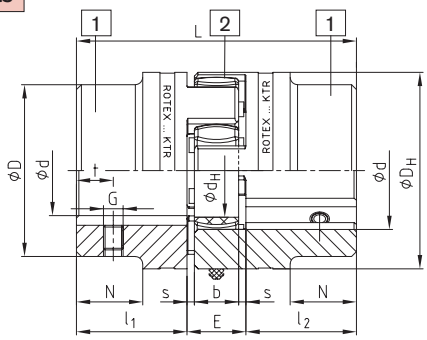
100	1	29,200	43,800	54,730	2.000 - 4.375	10.63	4.33	1.97	1.50	0.24	8.86	9.69	4.45	7.09	3.50	M12	1.18	354
110	1	42,480	63,720	79,650	2.375 - 4.813	11.61	4.72	2.17	1.65	0.26	10.04	10.87	5.00	7.87	3.78	M16	1.38	708
125	1	58,850	88,500	110,620	2.375 - 5.563	13.39	5.51	2.36	1.81	0.28	11.42	12.40	5.79	9.06	4.41	M16	1.57	708
140	1	75,660	113,280	141,600	2.375 - 6.188	14.76	6.10	2.56	1.97	0.30	12.60	13.58	6.50	10.04	4.88	M20	1.77	1,239
160	1	113,280	169,920	212,400	3.188 - 7.125	16.73	6.89	2.95	2.24	0.35	14.57	15.75	7.48	11.42	5.51	M20	1.97	1,239
180	1	165,050	247,800	309,750	3.375 - 7.688	18.70	7.68	3.35	2.52	0.41	16.54	17.72	8.66	12.80	6.14	M20	1.97	1,239

◣ = If material is not specified on the order, the selection/order will be based on the standard material listed above
1) Maximum torque of the coupling $TK_{max.}$ = rated torque of the coupling T_{KN} x 2
2) Material Al-H (machined aluminum).
Inch bores machined to AGMA Class 1, Metric bores machined to H7

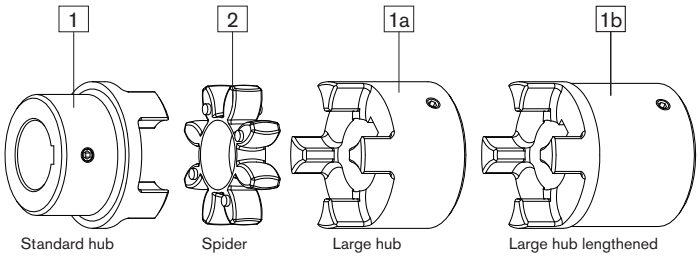
Shaft coupling standard design – steel materials

- Failsafe, reduced maintenance, blind assembly
- Torsionally flexible / vibration-damping
- Machined jaws - good dynamic properties and reduced spider wear
- Steel hubs, for high shock applications, (e.g. steel mills, elevator drives, spline hubs, etc.)
- Ⓔx Certified to EC Standard 94/9/EC
- Installation instructions available at www.ktr.com

Components



Steel (thread on the keyway)



ROTEX® steel																		
Size	Compo-nent	Spider (part 2) [1] Rated torque [lb-in]			Dimensions [in]													
					Bore	General										Setscrews		
		92 Sh A	98Sh A	64 Sh D	Ød (min-max)	L	l_1; l_2	E	b	s	D_H	d_H	D	N	G	t	T_A [lb-in]
14	1a	66	110	-	0.625	1.38	0.43	0.51	0.39	0.06	1.18	0.39	1.18	-	M4	0.20	13
	1b					1.97	0.73										
19	1a	89	150	-	1.000	2.60	0.98	0.63	0.47	0.08	1.57	0.71	1.57	-	M5	0.39	18
	1b					3.54	1.46										
24	1a	300	530	-	1.313	3.07	1.18	0.71	0.55	0.08	2.17	1.06	2.17	-	M5	0.39	18
	1b					4.65	1.97										
28	1a	840	1,410	-	1.500	3.54	1.38	0.79	0.59	0.10	2.56	1.18	2.56	-	M8	0.59	89
	1b					5.51	2.36										
38	1	1,680	2,870	3,580	1.813	4.49	1.77	0.94	0.71	0.12	3.15	1.50	2.76	1.06	M8	0.59	89
	1b					6.46	2.76						3.15	-			
42	1	2,340	3,980	4,950	2.125	4.96	1.97	1.02	0.79	0.12	3.74	1.81	3.35	1.10	M8	0.59	89
	1b					6.93	2.95						3.74	-			
48	1	2,740	4,640	5,790	2.375	5.51	2.20	1.10	0.83	0.14	4.13	2.01	3.74	1.26	M8	0.59	89
	1b					7.40	3.15						4.13	-			
55	1	3,620	6,060	7,300	2.813	6.30	2.56	1.18	0.87	0.16	4.72	2.36	4.33	1.46	M10	0.79	150
	1b					8.27	3.54						4.72	-			
65	1	5,530	8,310	10,390	3.000	7.28	2.95	1.38	1.02	0.18	5.31	2.68	4.53	1.85	M10	0.79	150
	1b					9.25	3.94						5.31	-			
75	1	11,320	16,990	21,240	3.625	8.27	3.35	1.57	1.18	0.20	6.30	3.15	5.31	2.09	M10	0.79	150
	1b					10.24	4.33						6.30	-			
90	1	21,240	31,860	39,820	4.250	9.65	3.94	1.77	1.34	0.22	7.87	3.94	6.30	2.44	M12	1.18	354
	1b					11.61	4.92						7.87	-			

ROTEX® sintered steel																	
Size	Compo-nent	Spider (part 2) [1] Rated torque [lb-in]		Dimensions [in]													
				Bore	General										Setscrews		
		92 Sh-A	98 Sh-A	Ød	L	l_1; l_2	E	b	s	D_H	d_H	D	N	G	t	T_A [lb-in]
14	1a	66	111	unbored	1.38	0.43	0.51	0.39	0.06	1.18	0.39	1.18	-	M4	0.20	13
19	1a	89	150	unbored / .500 / .625 / .750 /	2.60	0.98	0.63	0.47	0.08	1.57	0.71	1.57	-	M5	0.39	18

◣ = If material is not specified on the order, the selection/order will be based on the standard material listed above

[1] Maximum torque of the coupling $TK_{max.}$ = rated torque of the coupling T_{KN} x 2

Inch bores machined to AGMA Class 1, Metric bores machined to H7

- ROTEX® 19 – 48 stainless steel are available
- ROTEX® 19, 28 and 42 – hub material X10CrNiS 18-9 standard number 1.4305 (V2A) DIN 17440
- ROTEX® 24, 38 and 48 – hub material X6CrNiMoTi17-12-2 standard number 1.4571 (V4A) DIN 17440

Order form:

ROTEX®-38	St	92	1 – Ø 45		1 – Ø 25	
Coupling size	Material	Spider hardness Shore A]	Hub design	Bore	Hub design	Bore