KTR Rotex® GS 07 Series

FEATURES

- ***High-Quality Spider Design***
- ***Handles the Most Demanding Applications***
- ***Max Torque of 42 in-lb.***
- ***Allows for Different Bore Diameters***
- ***No Backlash***
- ***No Maintenance***
- ***Requires Three Individual Part Numbers***
- ***Easy Assembly***
- ***Wide Variety of Sizes***

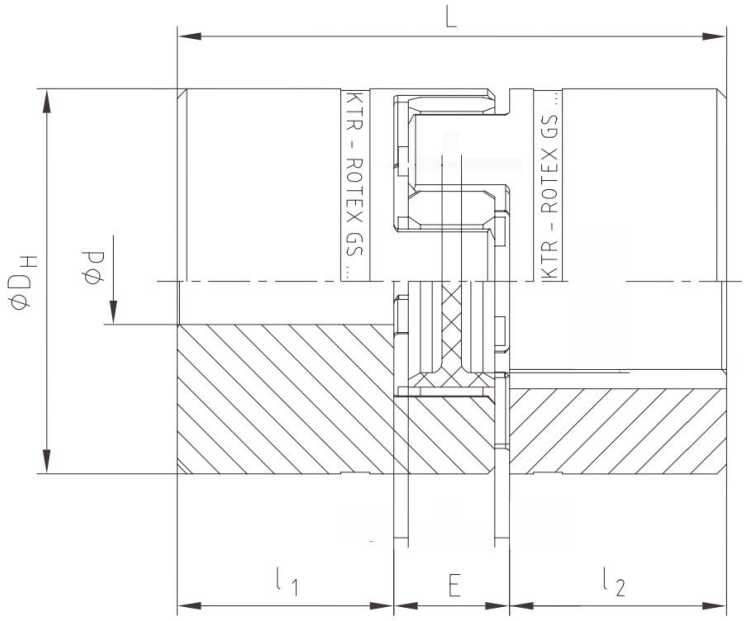
DESCRIPTION

Rotex® couplings are deigned to transmit torque between drive and driven components via curved jaw hubs and elastomeric elements commonly known as spiders. The combination between these components provides dampening and accommodation for misalignments. This product is available in a variety of metals, elastomers and mounting configurations to meet your specific needs.

Ordering Guideline: There are three individual part numbers you will need for a complete coupler (i.e., 2 HUBS and 1 Spider). Please choose the hub sizes that match the criteria for your application. In addition to the hubs, you will need to choose a spider, from the spider section.

Customization options are available; allow Anaheim Automation to specify the coupling designed for your application!

DIMENSIONS



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SPECIFICATIONS

Item	Dimensions (in)						
	D_H	L	l_1 , l_2	E	b	s	a
Size 42	3.7	5.0	2.0	1.0	0.8	0.11	0.16

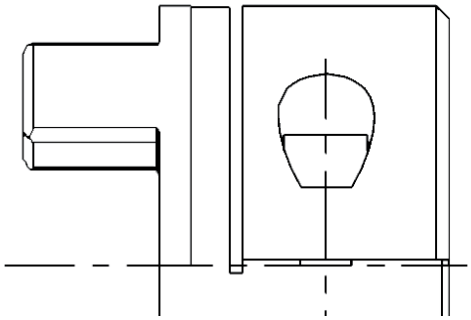
Metric Bores

Item	Bore Diameter (mm)	Hub Design	Outside Diameter (mm)	Length Thru Bore "l_1 l_2" (mm)	Coupling Length "L" (mm)	Setscrew Torque (Nm)	t (mm)	Material
KTR-BA550077150350	76	2.0, 2.5	14	7.112	22	0.372	3.556	Aluminum
KTR-BA550077150450	102	2.0, 2.5	14	7.112	22	0.372	3.556	Aluminum
KTR-BA550077150550	127	2.0, 2.5	14	7.112	22	0.372	3.556	Aluminum
KTR-BA550077150650	152	2.0, 2.5	14	7.112	22	0.372	3.556	Aluminum
KTR-BA550077150750	178	2.0, 2.5	14	7.112	22	0.372	3.556	Aluminum

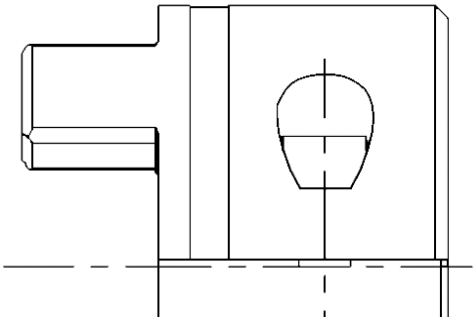
Spiders

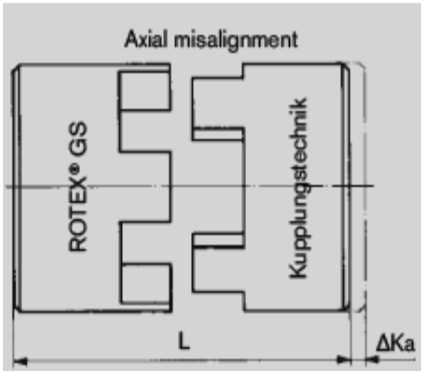
Item	Color	Material	Type/Hard-ness	Max Speed (rpm)		Rated Torque (in-lb)	Max Torque (in-lb)	Mass Moment of Inertia (lb-in-sec²)
				Clamping Hub	Clamping Ring Hub			
KTR-550071000003	Blue	Polyamide	80 Shore-A-GS	27,000	-	6.2	12.39	8.85×10^{-7}
KTR-550071000001	Yellow	Polyamide	92 Shore-A-GS	27,000	-	11	21	8.85×10^{-7}
KTR-550071000002	Red	Polyamide	95/98 Shore A-GS	27,000	-	18	35	8.85×10^{-7}
KTR-550071000025	Green	Hytrel	64 Shore D-H-GS	27,000	-	21	42	8.85×10^{-7}

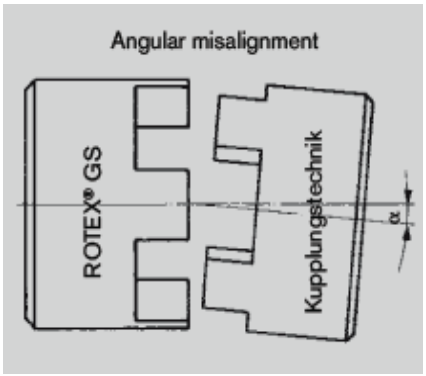
Hub 2.0

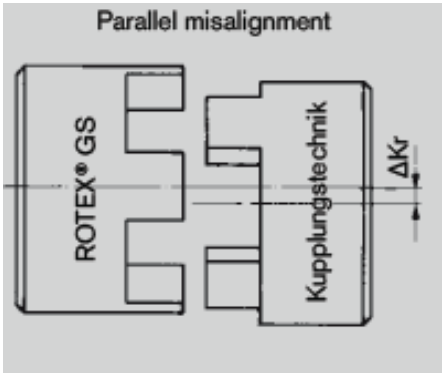


Hub 2.5









Misalignments

Size	Spider GS	Misalignments Standard (in) Axial ΔKa²	(in) Parallel ΔKr	(degree) Angular a	Misalignments DKM (in) Axial ΔKa²	(in) Parallel ΔKr	(degree) Angular a
5	70	+0.016 -0.008	0.006	1.2	+0.016 -0.016	0.007	1.2
	80		0.005	1.1		0.006	1.1
	92		0.002	1.0		0.006	1.0
	98		0.002	0.9		0.005	0.9
7	80	+0.024 -0.012	0.006	1.1	+0.024 -0.024	0.009	1.1
	92		0.004	1.0		0.008	1.0
	98		0.002	0.9		0.007	0.9
	64		0.002	0.8		0.007	0.8
9	80	+0.031 -0.016	0.007	1.1	+0.031 -0.031	0.011	1.1
	92		0.005	1.0		0.010	1.0
	98		0.003	0.9		0.009	0.9
	64		0.002	0.8		0.008	0.8
12	80	+0.035 -0.016	0.008	1.1	+0.035 -0.035	0.014	1.1
	92		0.006	1.0		0.013	1.0
	98		0.003	0.9		0.011	0.9
	64		0.002	0.8		0.010	0.8
14	80	+0.039 -0.020	0.008	1.1	+0.039 -0.039	0.016	1.1
	92		0.006	1.0		0.015	1.0
	98		0.004	0.9		0.013	0.9
	64		0.002	0.8		0.011	0.8

Misalignments

Size	Spider GS	Misalignments Standard (in) Axial ΔKa[2]	(in) Parallel ΔKr	(degree) Angular a	Misalignments DKM (in) Axial ΔKa[2]	(in) Parallel ΔKr	(degree) Angular a
19	80	+0.047 -0.020	0.008	1.1	+0.047 -0.039	0.019	1.1
	92		0.006	1.0		0.018	1.0
	98		0.004	0.9		0.016	0.9
	64		0.002	0.8		0.014	0.8
24	92	+0.055 -0.020	0.006	1.0	+0.055 -0.039	0.023	1.0
	98		0.004	0.9		0.021	0.9
	64		0.004	0.8		0.019	0.8
	72		0.002	0.7		0.017	0.7
28	92	+0.059 -0.028	0.006	1.0	+0.059 -0.055	0.026	1.0
	98		0.004	0.9		0.024	0.9
	64		0.003	0.8		0.021	0.8
	72		0.002	0.7		0.018	0.7
38	92	+0.071 -0.028	0.007	1.0	+0.071 -0.055	0.030	1.0
	98		0.006	0.9		0.027	0.9
	64		0.004	0.8		0.024	0.8
	72		0.002	0.7		0.021	0.7
42	92	+0.079 -0.039	0.007	1.0	+0.079 -0.079	0.033	1.0
	98		0.006	0.9		0.030	0.9
	64		0.004	0.8		0.026	0.8
	72		0.002	0.7		0.023	0.7
48	92	+0.083 -0.039	0.009	1.0	+0.083 -0.079	0.036	1.0
	98		0.006	0.9		0.032	0.9
	64		0.004	0.8		0.029	0.8
	72		0.003	0.7		0.025	0.7
55	92	+0.087 -0.039	0.009	1.0	+0.087 -0.079	0.040	1.0
	98		0.007	0.9		0.036	0.9
	64		0.005	0.8		0.032	0.8
	72		0.004	0.7		0.028	0.7
65	95	+0.102 -0.039	0.009	0.9	-	-	-
	64		0.008	0.8	-	-	-
75	95	+0.118 -0.059	0.009	0.9	-	-	-
	64		0.08	0.8	-	-	-
90	95	+0.134 -0.059	0.09	0.9	-	-	-
	64		0.08	0.8	-	-	-