

FEATURES

- High-Quality Spider Design
- Handles the Most Demanding Applications
- Max Torque of 190 in-lb
- Allows for Different Bore Diameters
- No Backlash
- No Maintenance
- Requires Three Individual Part Numbers
- Easy Assembly
- Wide Variety of Sizes



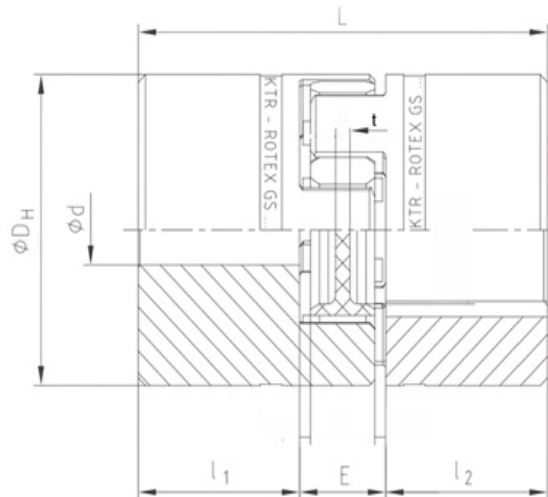
DESCRIPTION

Rotex® couplings are designed 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



Item	Dimensions						
	D <sub>H</sub>	L	l <sub>1</sub> , l <sub>2</sub>	E	b	s	a
14	1.2 (30)	1.4 (35)	0.4 (11)	0.5 (13)	0.4 (10)	0.1 (1.5)	0.1 (2)

L011747

Dimensions are in: inches (mm)

## Inch Bores

Item	Bore Diameter (in)	Hub Design	Outside Diameter (in)	Length Thru Bore "L <sub>1</sub> L <sub>2</sub> " (in)	Coupling Length "L" (in)	Setscrew Torque (in-lb)	t (in)	Material
KTR-BA550147150470	3/16	2.0 , 2.5	1.18	0.43	1.38	190.3	0.20	Aluminum
KTR-BA550147150670	1/4	2.0 , 2.5	1.18	0.43	1.38	190.3	0.20	Aluminum
KTR-BA550147150770	5/16	2.0 , 2.5	1.18	0.43	1.38	190.3	0.20	Aluminum
KTR-BA550147150970	3/8	2.0 , 2.5	1.18	0.43	1.38	190.3	0.20	Aluminum
KTR-BA550147151170	7/16	2.0 , 2.5	1.18	0.43	1.38	190.3	0.20	Aluminum
KTR-BA550147151270	1/2	2.0 , 2.5	1.18	0.43	1.38	190.3	0.20	Aluminum
KTR-BA550147151470	9/16	2.0 , 2.5	1.18	0.43	1.38	190.3	0.20	Aluminum
KTR-BA550147151570	5/8	2.0 , 2.5	1.18	0.43	1.38	190.3	0.20	Aluminum

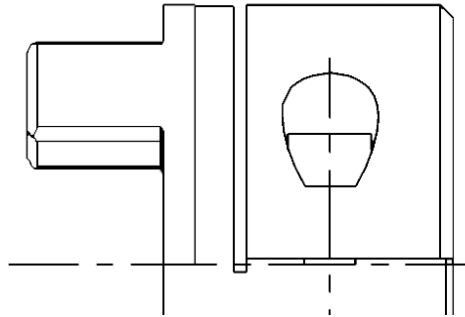
## Metric Bores

Item	Bore Diameter (mm)	Hub Design	Outside Diameter (mm)	Length Thru Bore "L <sub>1</sub> L <sub>2</sub> " (mm)	Coupling Length "L" (mm)	Setscrew Torque (Nm)	t (mm)	Material
KTR-BA550147151449	14	2.0 , 2.5	30	10.922	35	1.344	5	Aluminum
KTR-BA550147151249	12	2.0 , 2.5	30	10.922	35	1.344	5	Aluminum
KTR-BA550147151569	15	2.0 , 2.5	30	10.922	35	1.344	5	Aluminum
KTR-BA550147151269	12	2.0 , 2.5	30	10.922	35	1.344	5	Aluminum
KTR-BA550147150550	5	2.0 , 2.5	30	10.922	35	1.344	5	Aluminum
KTR-BA550147150650	6	2.0 , 2.5	30	10.922	35	1.344	5	Aluminum
KTR-BA550147150750	7	2.0 , 2.5	30	10.922	35	1.344	5	Aluminum
KTR-BA550147150850	8	2.0 , 2.5	30	10.922	35	1.344	5	Aluminum
KTR-BA550147150950	9	2.0 , 2.5	30	10.922	35	1.344	5	Aluminum
KTR-BA550147151050	10	2.0 , 2.5	30	10.922	35	1.344	5	Aluminum
KTR-BA550147151150	11	2.0 , 2.5	30	10.922	35	1.344	5	Aluminum
KTR-BA550147151250	12	2.0 , 2.5	30	10.922	35	1.344	5	Aluminum
KTR-BA550147151450	14	2.0 , 2.5	30	10.922	35	1.344	5	Aluminum
KTR-BA550147151550	15	2.0 , 2.5	30	10.922	35	1.344	5	Aluminum
KTR-BA550147151650	16	2.0 , 2.5	30	10.922	35	1.344	5	Aluminum

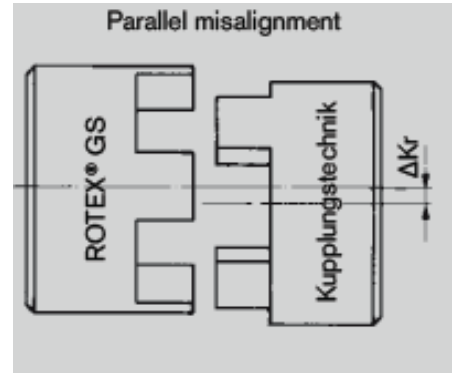
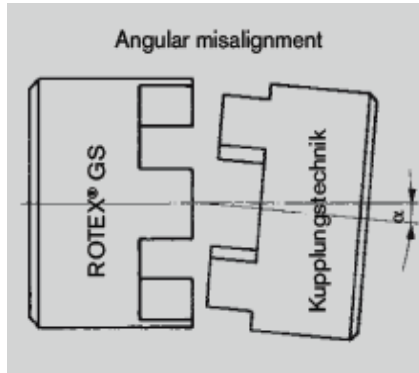
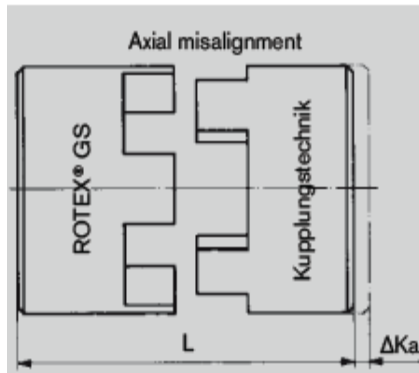
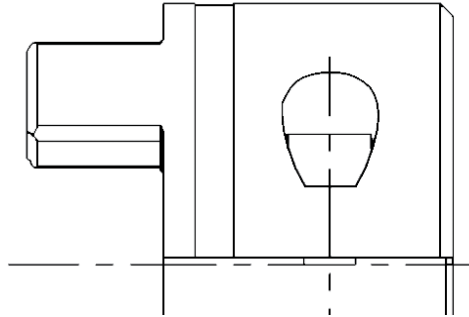
## Spiders

Item	Color	Material	Type/Hardness	Max Speed (rpm)		Rated Torque (in-lb)	Max Torque (in-lb)	Mass Moment of Inertia (lb-in-sec <sup>2</sup> )
				Clamping Hub	Clamping Ring Hub			
KTR-550141000003	Blue	Polyurethane	80 Shore A-GS	12,700 / 32,000		71	4.51 x 10 <sup>-6</sup>	0.0104
KTR-550141000001	Yellow	Polyurethane	92 Shore A-GS	12,700 / 32,000		133	4.51 x 10 <sup>-6</sup>	0.0104
KTR-550141000002	Red	Polyurethane	95/98 Shore A-GS	12,700 / 32,000		221	4.51 x 10 <sup>-6</sup>	0.0104
KTR-550141000025	Green	Hytrell	64 Shore D-H-GS	12,700 / 32,000		283	4.51 x 10 <sup>-6</sup>	0.0104

Hub 2.0



Hub 2.5



Size	Spider GS	Misalignments Standard			Misalignments DKM		
		(in) Axial $\Delta Ka^2$	(in) Parallel $\Delta Kr$	(degree) Angular a	(in) Axial $\Delta Ka^2$	(in) Parallel $\Delta Kr$	(degree) Angular a
14	80		0.008	1.1		0.016	1.1
	92	+0.039	0.006	1.0	+0.039	0.015	1.0
	98	-0.020	0.004	0.9	-0.039	0.013	0.9
	64		0.002	0.8		0.011	0.8

## Misalignments

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