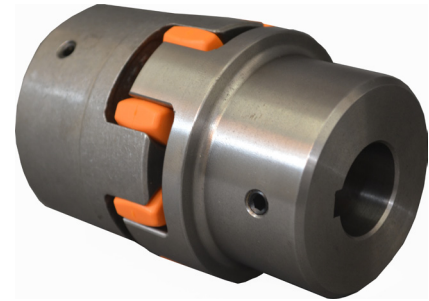


FEATURES

- **High-Quality Spider Design**
- **Handles the Most Demanding Applications**
- **Max Torque of 11,590 in-lb.**
- **Allows for Different Bore Diameters**
- **No Maintenance**
- **Requires Three Individual Part Numbers**
- **Easy Assembly**
- **Wide Variety of Sizes**



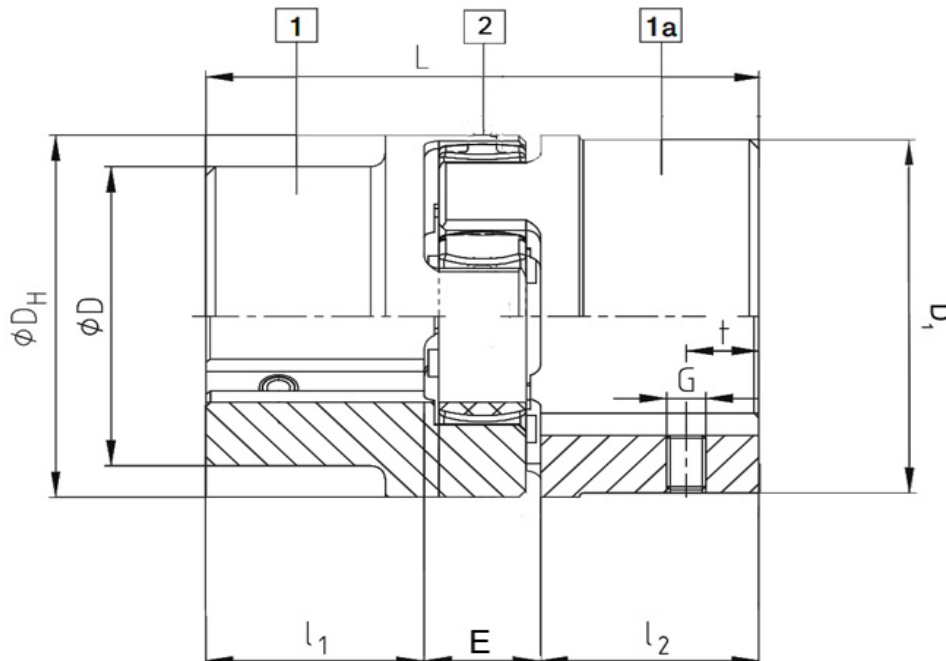
DESCRIPTION

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



L011396

Inch Bores

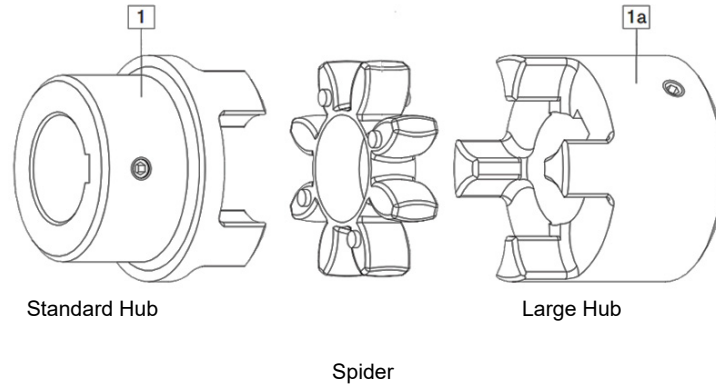
Item	Bore Diameter (in)	Keyway (in)	Hub Design	Outside Diameter D _H , D, D ₁ (in)	Length Thru Bore "L ₁ L ₂ " (in)	Coupling Length "L" (in)	Setscrew Torque (in-lb)	t (in)	E (in)	G	Material
KTR-BA020483071500	5/8	3/16	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483071503	5/8	5/32	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483071511	5/8	No Key	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020486071700	11/16	11/16	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483071900	3/4	3/16	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483071901	3/4	1/8	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483071911	3/4	No Key	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483072000	13/16	3/16	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483072200	7/8	1/4	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483072202	7/8	1/4	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483072211	7/8	No Key	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483072300	15/16	1/4	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483072500	1	1/4	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483072502	1	3/16	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483072600	1 1/16	1/4	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483072800	1 1/4	1/4	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483073000	1 3/16	1/4	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483073100	1 1/4	1/4	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483073102	1 1/4	5/16	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483073300	1 5/16	5/16	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483073400	1 3/8	5/16	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483073401	1 3/8	3/8	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483073600	1 7/16	3/8	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483073800	1 1/2	3/8	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483073802	1 1/2	5/16	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483073900	1 9/16	3/8	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483074100	1 5/8	3/8	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483074200	1 11/16	3/8	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483174400	1 3/4	3/8	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483174402	1 3/4	7/16	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483174600	1 13/16	1/2	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483174700	1 7/8	1/2	1	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483174900	1 15/16	1/2	1a	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483175000	2	1/2	1a	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483175200	2 1/16	1/2	1a	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483175300	2 1/8	1/2	1a	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483175500	2 3/16	1/2	1a	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483175700	2 1/4	1/2	1a	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron
KTR-BA020483176000	2 3/8	5/8	1a	4.13, 3.35, 409	2.20	5.51	89	0.59	1.10	M8	Cast Iron

Metric Bores

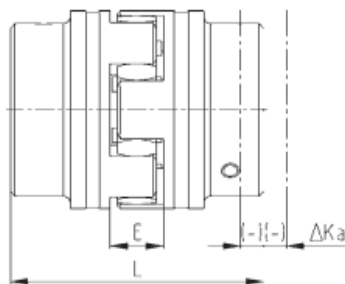
Item	Bore Diameter (mm)	Keyway (mm)	Hub Design	Outside Diameter D _H , D, D ₁ (mm)	Length Thru Bore "L" (mm)	Coupling Length "L" (mm)	Setscrew Torque (Nm)	t (mm)	E (mm)	G	Material
KTR-BA020483001500	15	5	1	105, 85, 104	56	140	10	20	28	M8	Cast Iron
KTR-BA020483001600	16	5	1	105, 85, 104	56	140	10	20	28	M8	Cast Iron
KTR-BA020483001800	18	6	1	105, 85, 104	56	140	10	20	28	M8	Cast Iron
KTR-BA020483001900	19	6	1	105, 85, 104	56	140	10	20	28	M8	Cast Iron
KTR-BA020483002000	20	6	1	105, 85, 104	56	140	10	20	28	M8	Cast Iron
KTR-BA020483002200	22	6	1	105, 85, 104	56	140	10	20	28	M8	Cast Iron
KTR-BA020483002400	24	8	1	105, 85, 104	56	140	10	20	28	M8	Cast Iron
KTR-BA020483002500	25	8	1	105, 85, 104	56	140	10	20	28	M8	Cast Iron
KTR-BA020483002800	28	8	1	105, 85, 104	56	140	10	20	28	M8	Cast Iron
KTR-BA020483003000	30	8	1	105, 85, 104	56	140	10	20	28	M8	Cast Iron
KTR-BA020483003200	32	10	1	105, 85, 104	56	140	10	20	28	M8	Cast Iron
KTR-BA020483003500	35	10	1	105, 85, 104	56	140	10	20	28	M8	Cast Iron
KTR-BA020483003800	38	10	1	105, 85, 104	56	140	10	20	28	M8	Cast Iron
KTR-BA020483004000	40	12	1	105, 85, 104	56	140	10	20	28	M8	Cast Iron
KTR-BA020483004200	42	12	1	105, 85, 104	56	140	10	20	28	M8	Cast Iron
KTR-BA020483004500	45	14	1	105, 85, 104	56	140	10	20	28	M8	Cast Iron
KTR-BA020483104800	48	14	1	105, 85, 104	56	140	10	20	28	M8	Cast Iron
KTR-BA020483105000	50	14	1	105, 85, 104	56	140	10	20	28	M8	Cast Iron
KTR-BA020483105500	55	16	1a	105, 85, 104	56	140	10	20	28	M8	Cast Iron
KTR-BA020483106000	60	18	1a	105, 85, 104	56	140	10	20	28	M8	Cast Iron

Spiders

Item	Color	Material	Type/ Hardness	Max Speed (rpm)	Rated Torque (in-lb)	Max Torque (in-lb)	Temperature Rating for Continuous Use
KTR-020481000045	Orange	T-PUR	92 Shore-A	6350	2743.73	5480	-50°C to 120°C
KTR-020481000042	Purple	T-PUR	95/98 Shore-A	6350	4646.64	9290	-50°C to 120°C
KTR-020481000020	Green	T-PUR	64 Shore-D	6350	5797.23	11,590	-50°C to 120°C
KTR-020481000088	White	Polyamide	-	-	8098.43	16,197	-20°C to +130°C
KTR-020481000072	Grey	Polyetherethertone	-	-	8098.43	16,197	Up to 180°C

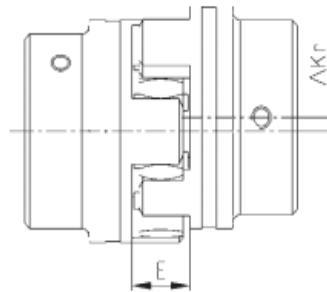


Axial Misalignment ΔKa

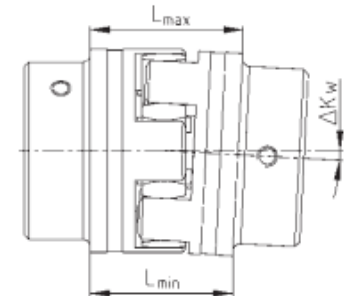


$$L_{max} = L + \Delta Ka$$

Parallel Misalignment ΔKr



Angular Misalignment ΔKw [degrees]



$$\Delta Kw [in] = L_{max} - L_{min}$$

ROTEX® Size	14	19	24	28	38	42	48	55	65	75	90
Max. Axial Misalignment ΔKa [in]	-0.02 +0.04	-0.02 +0.05	-0.02 +0.06	-0.03 +0.06	-0.03 +0.07	-0.04 +0.08	-0.04 +0.08	-0.04 +0.09	-0.04 +0.10	-0.06 +0.12	-0.06 +0.13
Max. Parallel Misalignment at n=1,800 rpm ΔKr [in]	0.006	0.007	0.008	0.009	0.010	0.011	0.013	0.014	0.015	0.017	0.018
Max. Angular Misalignment at n=1,800 rpm ΔKw [Degree]	1.1	1.0	0.8	0.9	0.9	1.0	1.1	1.1	1.1	1.1	1.2
ΔKw [in]	0.024	0.029	0.031	0.031	0.051	0.067	0.079	0.090	0.102	0.126	0.161

The above misalignment figures for ROTEX® couplings are standard values, taking into account the load of the coupling up to the rated torque T_{KN} and an operating speed $n = 1,800$ RPM along with an ambient temperature of $+180^{\circ}C$. For other operating parameters, please ask for KTR-Norm 20240 on misalignments for ROTEX®. The maximum angular and parallel misalignments must not be used concurrently. For example; 70% of the maximum parallel value allows 30% of the maximum angular value. Also, care should be taken to accurately maintain the distance dimension "E", allowing for axial clearance of the coupling while in operation. In case of an axial thrust, the dimension "L" must be taken as a minimum dimension in order to keep the spider free from pressure against the face. Detailed installation instructions are available at www.ktr.com.