

FEATURES

- **High-Quality Spider Design**
- **Handles the Most Demanding Applications**
- **Max Torque of 22,746 in-lb.**
- **Allows for Different Bore Diameters**
- **No Maintenance**
- **Requires Three Individual Part Numbers**
- **Easy Assembly**
- **Wide Variety of Sizes**



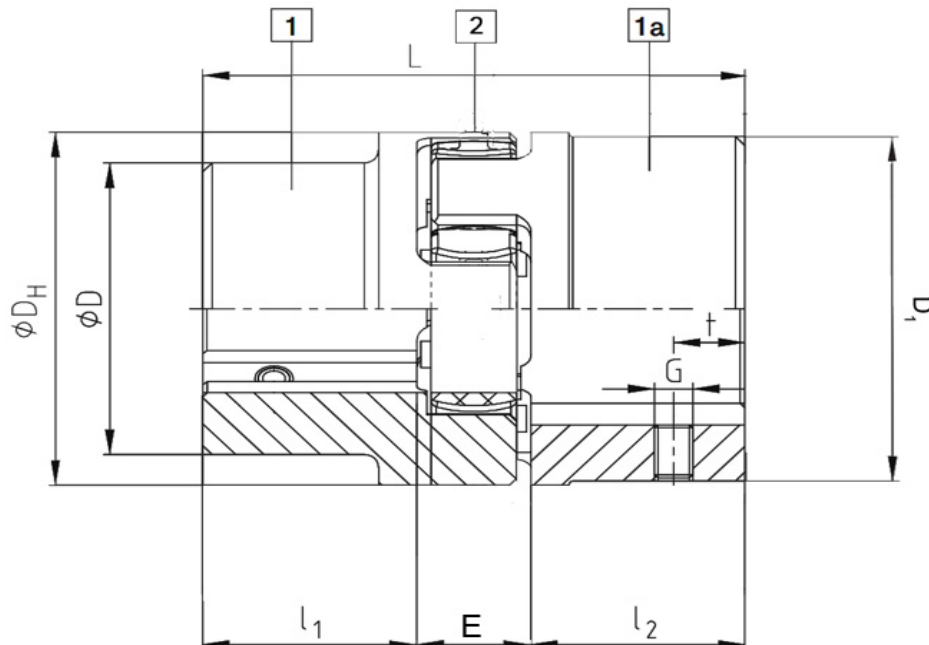
DESCRIPTION

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



L011397

Inch Bores

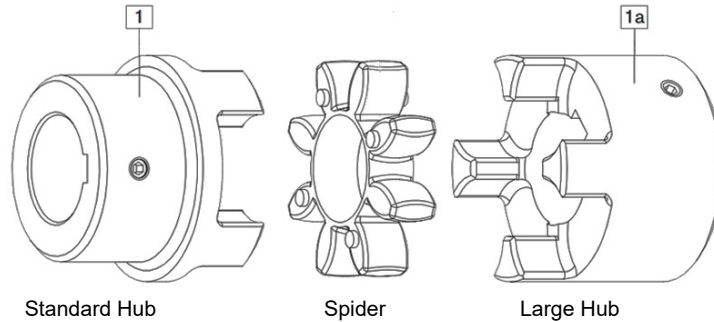
Item	Bore Diameter (in)	Keyway (in)	Hub Design	Outside Diameter D _H , D, D ₁ (in)	Length Thru Bore "L ₁ , L ₂ " (in)	Coupling Length "L" (in)	Setscrew Torque (in-lb)	t (in)	E (in)	G	Material
KTR-BA020553072000	13/16	3/16	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553072200	7/8	3/16	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553072202	7/8	1/4	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553072211	7/8	No Key	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553072300	15/16	1/4	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553072500	1	1/4	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553072502	1	3/16	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553072600	1 1/16	1/4	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553072800	1 1/4	1/4	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553073000	1 3/16	1/4	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553073100	1 1/4	1/4	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553073102	1 1/4	5/16	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553073300	1 5/16	5/16	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553073400	1 3/8	5/16	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553073401	1 3/8	3/8	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553073600	1 7/16	3/8	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553073800	1 1/2	3/8	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553073802	1 1/2	5/16	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553073900	1 9/16	3/8	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553074100	1 5/8	3/8	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553074200	1 11/16	3/8	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553074400	1 3/4	3/8	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553074402	1 3/4	7/16	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553074600	1 13/16	1/2	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553074700	1 7/8	1/2	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553074900	1 15/16	1/2	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553075000	2	1/2	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553075200	2 1/16	1/2	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553075300	2 1/8	1/2	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553075500	2 3/16	1/2	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553075700	2 1/4	1/2	1	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553176000	2 3/8	5/8	1a	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron
KTR-BA020553176600	2 5/8	5/8	1a	4.72, 3.86, 4.65	2.56	6.30	150	0.79	1.18	M10	Cast Iron

Metric Bores

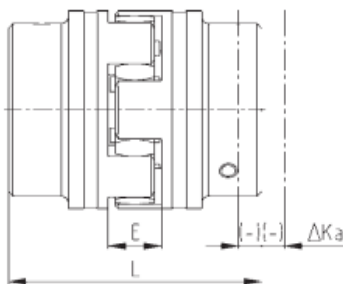
Item	Bore Diameter (mm)	Keyway (mm)	Hub Design	Outside Diameter D _H , D, D _I (mm)	Length Thru Bore "L ₁ L ₂ " (mm)	Coupling Length "L" (mm)	Setscrew Torque (Nm)	t (mm)	E (mm)	G	Material
KTR-BA020553002000	20	6	1	120, 98, 118	65	160	17	20	30	M10	Cast Iron
KTR-BA020553002200	22	6	1	120, 98, 118	65	160	17	20	30	M10	Cast Iron
KTR-BA020553002400	24	8	1	120, 98, 118	65	160	17	20	30	M10	Cast Iron
KTR-BA020553002500	25	8	1	120, 98, 118	65	160	17	20	30	M10	Cast Iron
KTR-BA020553002800	28	8	1	120, 98, 118	65	160	17	20	30	M10	Cast Iron
KTR-BA020553003000	30	8	1	120, 98, 118	65	160	17	20	30	M10	Cast Iron
KTR-BA020553003200	32	10	1	120, 98, 118	65	160	17	20	30	M10	Cast Iron
KTR-BA020553003500	35	10	1	120, 98, 118	65	160	17	20	30	M10	Cast Iron
KTR-BA020553003800	38	10	1	120, 98, 118	65	160	17	20	30	M10	Cast Iron
KTR-BA020553004000	40	12	1	120, 98, 118	65	160	17	20	30	M10	Cast Iron
KTR-BA020553004200	42	12	1	120, 98, 118	65	160	17	20	30	M10	Cast Iron
KTR-BA020553004500	45	14	1	120, 98, 118	65	160	17	20	30	M10	Cast Iron
KTR-BA020553004800	48	14	1	120, 98, 118	65	160	17	20	30	M10	Cast Iron
KTR-BA020553005000	50	14	1	120, 98, 118	65	160	17	20	30	M10	Cast Iron
KTR-BA020553005500	55	16	1	120, 98, 118	65	160	17	20	30	M10	Cast Iron
KTR-BA020553106000	60	18	1	120, 98, 118	65	160	17	20	30	M10	Cast Iron
KTR-BA020553106500	65	18	1a	120, 98, 118	65	160	17	20	30	M10	Cast Iron
KTR-BA020553107000	70	20	1a	120, 98, 118	65	160	17	20	30	M10	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-020551000045	Orange	T-PUR	92 Shore-A	5550	3628.80	7250	-50°C to +120°C
KTR-020551000042	Purple	T-PUR	95/98 Shore-A	5550	6062.76	12,120	-50°C to +120°C
KTR-020551000020	Green	T-PUR	64 Shore-D	5550	7301.86	14,600	-50°C to +120°C
KTR-020551000088	White	Polyamide	-	-	10,620.89	21,242	-20°C to +130°C

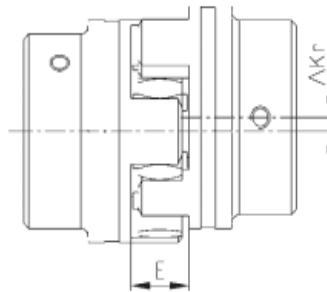


Axial Misalignment ΔKa

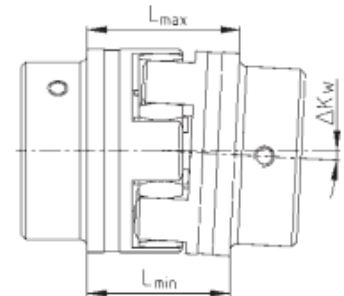


$$L_{\max} = L + \Delta Ka$$

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.