

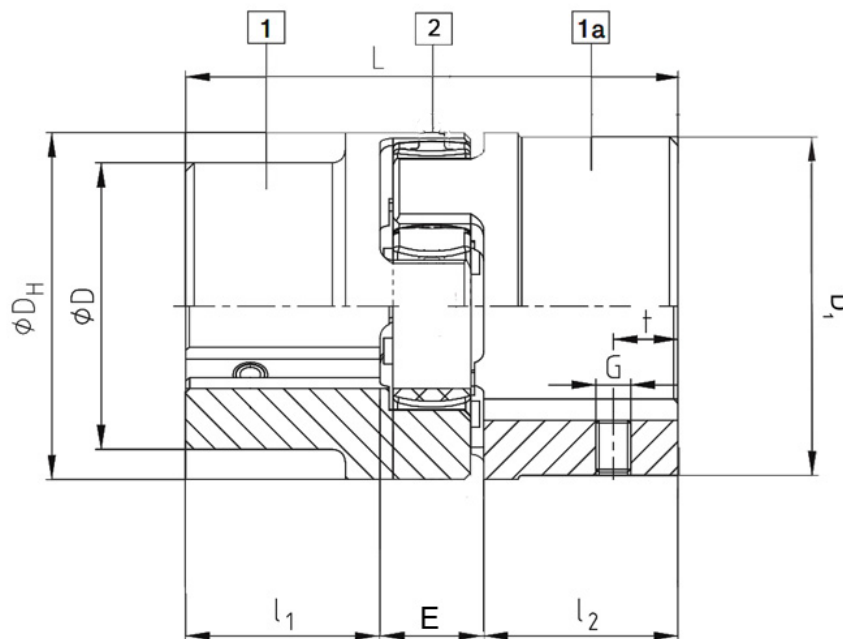
- **High-Quality Spider Design**
- **Handles the Most Demanding Applications**
- **Max Torque of 425 in-lb.**
- **Allows for Different Bore Diameters**
- **No Maintenance**
- **Requires Three Individual Part Numbers**
- **Easy Assembly**
- **Wide Variety of Sizes**



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!



L011390

Inch Bores

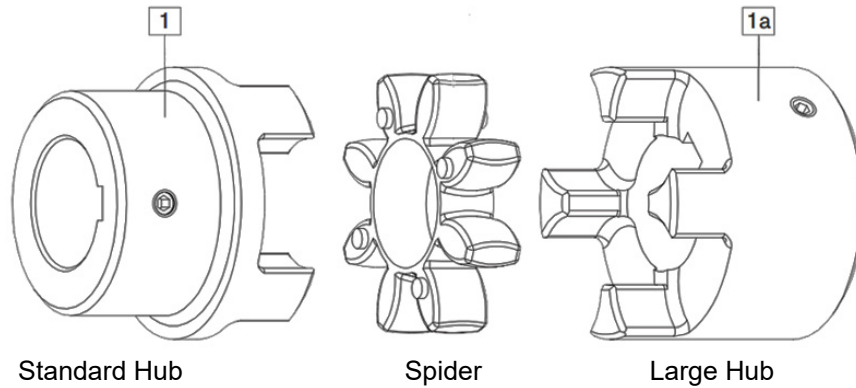
Item	Bore Diameter (in)	Keyway (in)	Hub Design	Outside Diameter D _H , D, D ₁ (in)	Length Thru Bore "L ₁ , L ₂ " (in)	Coupling Length "L" (in)	Setscrew Torque (in-lb)	t (in)	E (in)	G	Material
KTR-BA020142170711	5/16	No Key	1a	1.18, -, -	0.43	1.38	13	0.20	0.51	M4	Sintered Steel
KTR-BA020142170902	3/8	3/32	1a	1.18, -, -	0.43	1.38	13	0.20	0.51	M4	Sintered Steel
KTR-BA020142170903	3/8	1/8	1a	1.18, -, -	0.43	1.38	13	0.20	0.51	M4	Sintered Steel
KTR-BA020142170911	3/8	No Key	1a	1.18, -, -	0.43	1.38	13	0.20	0.51	M4	Sintered Steel
KTR-BA020142171101	7/16	3/32	1a	1.18, -, -	0.43	1.38	13	0.20	0.51	M4	Sintered Steel
KTR-BA020142171102	7/16	1/8	1a	1.18, -, -	0.43	1.38	13	0.20	0.51	M4	Sintered Steel
KTR-BA020142171111	7/16	No Key	1a	1.18, -, -	0.43	1.38	13	0.20	0.51	M4	Sintered Steel
KTR-BA020142171200	1/2	1/8	1a	1.18, -, -	0.43	1.38	13	0.20	0.51	M4	Sintered Steel
KTR-BA020142171211	1/2	No Key	1a	1.18, -, -	0.43	1.38	13	0.20	0.51	M4	Sintered Steel
KTR-BA020142171400	9/16	1/8	1a	1.18, -, -	0.43	1.38	13	0.20	0.51	M4	Sintered Steel
KTR-BA020142171411	9/16	No Key	1a	1.18, -, -	0.43	1.38	13	0.20	0.51	M4	Sintered Steel
KTR-BA020142171500	5/8	3/16	1a	1.18, -, -	0.43	1.38	13	0.20	0.51	M4	Sintered Steel
KTR-BA020142171503	5/8	5/32	1a	1.18, -, -	0.43	1.38	13	0.20	0.51	M4	Sintered Steel
KTR-BA020142171502	5/8	No Key	1a	1.18, -, -	0.43	1.38	13	0.20	0.51	M4	Sintered Steel

Metric Bores

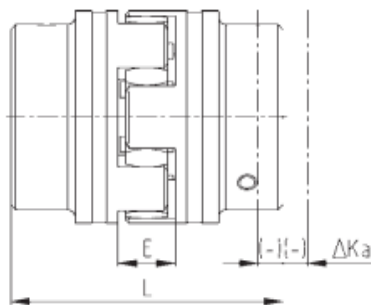
Item	Bore Diameter (mm)	Keyway (mm)	Hub Design	Outside Diameter D _H , D, D ₁ (mm)	Length Thru Bore "L ₁ , L ₂ " (mm)	Coupling Length "L" (mm)	Setscrew Torque (Nm)	t (mm)	E (mm)	G	Material
KTR-BA020142100600	6	2	1a	30, -, -	11	35	1.5	5	13	M4	Sintered Steel
KTR-BA020142100800	8	2	1a	30, -, -	11	35	1.5	5	13	M4	Sintered Steel
KTR-BA020142100900	9	3	1a	30, -, -	11	35	1.5	5	13	M4	Sintered Steel
KTR-BA020142101000	10	3	1a	30, -, -	11	35	1.5	5	13	M4	Sintered Steel
KTR-BA020142101100	11	4	1a	30, -, -	11	35	1.5	5	13	M4	Sintered Steel
KTR-BA020142101200	12	4	1a	30, -, -	11	35	1.5	5	13	M4	Sintered Steel
KTR-BA020142101400	14	5	1a	30, -, -	11	35	1.5	5	13	M4	Sintered Steel
KTR-BA020142101500	15	5	1a	30, -, -	11	35	1.5	5	13	M4	Sintered Steel
KTR-BA020142101600	16	5	1a	30, -, -	11	35	1.5	5	13	M4	Sintered Steel

Spiders

Item	Color	Material	Type/ Hardness	Max Speed (rpm)	Rated Torque (in-lb)	Max Torque (in-lb)	Temperature Rating for Continuous Use
KTR-020141000045	Orange	T-PUR	92 Shore-A	22,200	61.95	130	-50°C to +120°C
KTR-020141000042	Purple	T-PUR	98 Shore-A	22,200	106.20	110	-50°C to +120°C
KTR-020141000020	Green	T-PUR	64 Shore-D	22,200	141.61	140	-50°C to +120°C
KTR-020141000088	White	Polyamide	-	-	195	389	-20°C to +130°C
KTR-020141000075	Grey	Polyetheretherthone	-	-	195	389	Up to 180°C

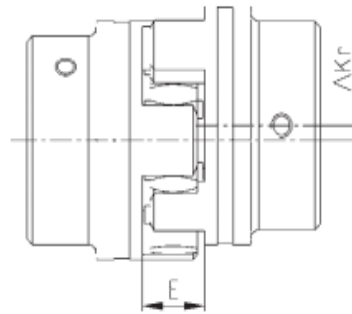


Axial Misalignment ΔK_a

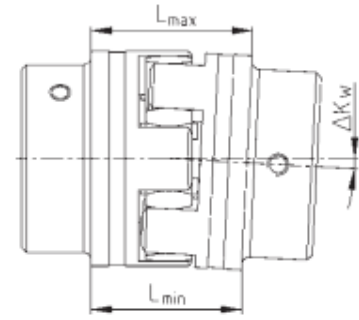


$$L_{max} = L + \Delta K_a$$

Parallel Misalignment ΔK_r



Angular Misalignment ΔK_w [degrees]



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

ROTEX® Size	14	19	24	28	38	42	48	55	65	75	90
Max. Axial Misalignment ΔK_a [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 ΔK_r [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 ΔK_w [Degree]	1.1	1.0	0.8	0.9	0.9	1.0	1.1	1.1	1.1	1.1	1.2
ΔK_w [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 $+30^\circ\text{C}$. 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.