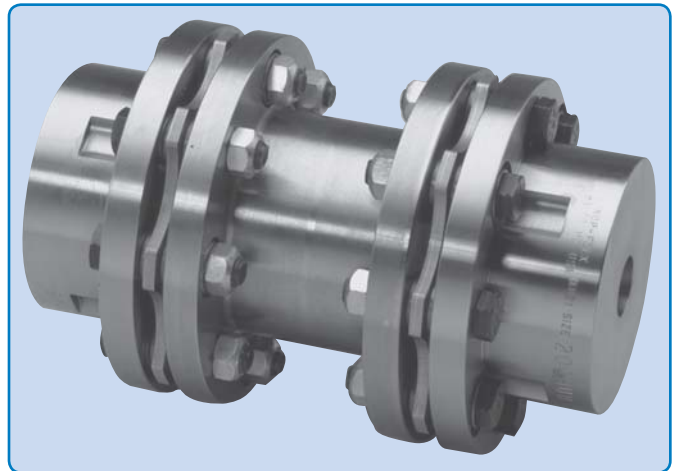


KD21 Spacer Coupling

The KD21 coupling is designed for medium and heavy duty applications requiring moderate shaft separations. The minimal number of components yields an economical disc coupling solution to spacer applications. The larger sizes available in the KD21 Series allow application to larger, high power machines.

Consisting of three main parts; two hubs and a center spacer which installs or drops out using unitized disc packs, the KD21 simplifies installation or maintenance. The unitized disc packs and close tolerance bolts provide good dynamic balance. AGMA Class 9 is standard, as-manufactured. Dynamic balance to AGMA Class 10 and conformance to API 610 / ISO 13709 are available options. The close tolerance bolts and safety overload washers help provide superior performance and trouble-free operation.



- Heavy Duty, Larger Sizes
- Economical Spacer Series
- Standard Shaft Separations for Industrial Pumps
- Drop-Out, Unitized Disc Packs

KD21 couplings use HT Disc Packs.

Coupling Size	Between Shaft Ends*	Complete Coupling with 2 Std. Hubs		Complete Coupling with 1 Std. Hub and 1 Long Hub	
		Rough Bore	Finish Bore	Rough Bore	Finish Bore
053	5	053 KD2 SS500	NA	NA	NA
103	3 1/2	103 KD 21 SS350	103 KD 21 SS350 FB	103 KD 21 LS350	103 KD 21 LS350 FB
	5	103 KD 21 SS500	103 KD 21 SS500 FB	103 KD 21 LS500	103 KD 21 LS500 FB
153	5	153 KD 21 SS500	153 KD 21 SS500 FB	153 KD 21 LS500	153 KD 21 LS500 FB
204	5	204 KD 21 SS500	204 KD 21 SS500 FB	204 KD 21 LS500	204 KD 21 LS500 FB
	7	204 KD 21 SS700	204 KD 21 SS700 FB	204 KD 21 LS700	204 KD 21 LS700 FB
	9	204 KD 21 SS900	204 KD 21 SS900 FB	204 KD 21 LS900	204 KD 21 LS900 FB
	10	204 KD 21 SS1000	204 KD 21 SS1000 FB	204 KD 21 LS1000	204 KD 21 LS1000 FB
254	12	204 KD 21 SS1200	204 KD 21 SS1200 FB	204 KD 21 LS1200	204 KD 21 LS1200 FB
	5	254 KD 21 SS500	254 KD 21 SS500 FB	254 KD 21 LS500	254 KD 21 LS500 FB
	7	254 KD 21 SS700	254 KD 21 SS700 FB	254 KD 21 LS700	254 KD 21 LS700 FB
	9	254 KD 21 SS900	254 KD 21 SS900 FB	254 KD 21 LS900	254 KD 21 LS900 FB
304	14	254 KD21 SS1400	254 KD21 SS1400 FB	254 KD 21 LS1400	254 KD 21 LS1400 FB
	7	304 KD 21 SS700	304 KD 21 SS700 FB	304 KD 21 LS700	304 KD 21 LS700 FB
	9	304 KD 21 SS900	304 KD 21 SS900 FB	304 KD 21 LS900	304 KD 21 LS900 FB
354	14	304 KD 21 SS1400	304 KD 21 SS1400 FB	304 KD 21 LS1400	304 KD 21 LS1400 FB
	7	354 KD 21 SS700	354 KD 21 SS700 FB	354 KD 21 LS700	354 KD 21 LS700 FB
	9	354 KD 21 SS900	354 KD 21 SS900 FB	354 KD 21 LS900	354 KD 21 LS900 FB
404	14	354 KD 21 SS1400	354 KD 21 SS1400 FB	354 KD 21 LS1400	354 KD 21 LS1400 FB
	8	404 KD 21 SS800	404 KD 21 SS800 FB	404 KD 21 LS800	404 KD 21 LS800 FB
454	14	404 KD 21 SS1400	404 KD 21 SS1400 FB	404 KD 21 LS1400	404 KD 21 LS1400 FB
	8	454 KD 21 SS800	454 KD 21 SS800 FB	454 KD 21 LS800	454 KD 21 LS800 FB

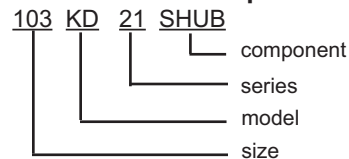
* For non-standard shaft separations, spacers can be manufactured to order.

Component Parts

Description	Part Number
Standard Hub	SHUB
Long Hub	LHUB
*HT Disc Pack Assembly	HTDP
*HT Disc Pack Fastener Set	HTFS

* For Disc Packs and Fastener Sets, do not include "Series" number in the part number.

How to Order Components



How to Order Disc Packs and Fastener Sets

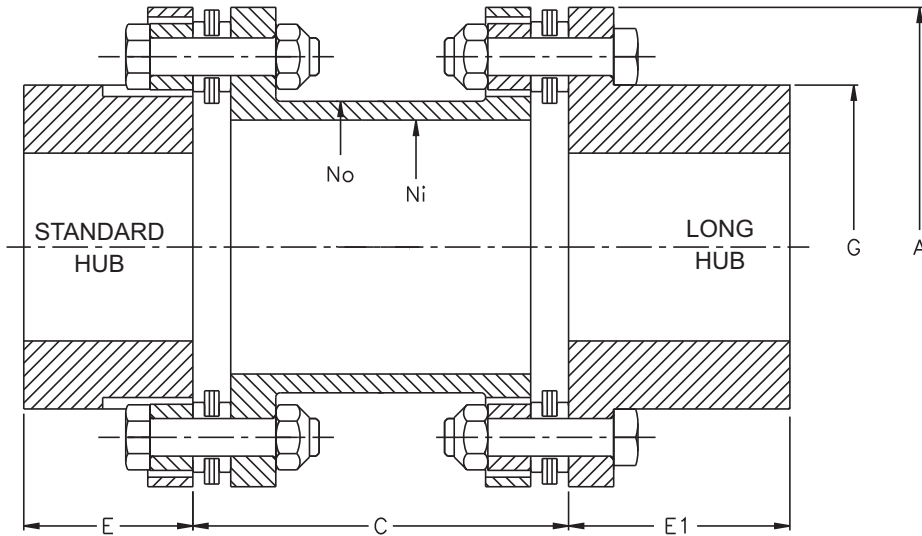


Selection Data

Size	Max. Bore (in)	Coupling Rating (HP/100 RPM)	Torque Rating		② Maximum Speed RPM	Total ① Weight (lbs)	Total ① WR ² (lb-in ²)	Spacer Tube per inch		Axial Capacity (in)
			Continuous (in-lb)	Peak (in-lb)				Weight (lbs)	WR ² (lb-in ²)	
053	1.75	3.2	2000	4000	8200	7.7	16	0.50	0.42	±.055
103	1.75	6.3	4000	8000	18200	7.8	16	0.24	0.27	±.080
153	2.50	21.6	13600	27200	14800	17.7	67	0.39	0.80	±.140
204	3.00	57.1	36000	72000	13000	29.8	160	0.81	2.67	±.110
254	3.75	82.5	52000	104000	11200	44.3	336	0.79	4.36	±.140
304	4.50	141	89000	178000	9900	70.4	745	1.17	8.06	±.170
354	5.00	238	150000	300000	8800	117	1640	1.96	17.0	±.200
404	5.50	340	215000	430000	7800	177	3150	2.21	24.3	±.225
454	6.38	405	255000	510000	7200	205	4360	2.54	37.0	±.250
504	7.00	570	360000	720000	6600	305	7460	3.67	62.6	±.275
554	7.75	800	505000	1010000	6100	402	11800	3.89	74.7	±.300
604	8.50	1050	660000	1320000	5600	512	17800	5.21	115	±.320
705	10.75	2400	1510000	3020000	4500	922	50000	9.40	303	±.270
805	12.00	3670	2310000	4620000	4000	1350	93800	12.6	507	±.310
905	13.50	4130	2600000	5200000	3600	1700	146000	11.8	675	±.400

① Data based on min. "C" dimensions and maximum bores.

② See Balance Specifications page 11. Consult engineering for applications where speed exceed 75% of max. speed rating.



Note: "C" dimension = length of spacer plus (2) disc packs (including flat washers).

Dimensional Data

Size	A (in)	Min. C (in)	E (in)	E1 ^③ (in)	G (in)	No (in)	Ni (in)	Standard "C" Dimension (in.)							
								3.5	5	7	8	9	10	12	14
053	3.94	3.00	1.62	-	2.56	2.12	1.50	-	X	-	-	-	-	-	-
103	3.94	2.75	1.66	1.94	2.57	2.25	2.00	X	X	-	-	-	-	-	-
153	5.38	3.38	1.94	2.44	3.54	3.00	2.69	-	X	-	-	-	-	-	-
204	6.38	3.88	2.38	3.03	4.32	3.88	3.38	-	X	X	-	X	X	X	-
254	7.62	3.88	3.00	3.59	5.34	4.88	4.50	-	X	X	-	X	-	-	X
304	9.00	4.75	3.56	4.19	6.16	5.50	4.94	-	-	X	-	X	-	-	X
354	10.50	5.75	4.12	4.75	6.99	6.25	5.50	-	-	X	-	X	-	-	X
404	11.75	6.62	4.62	5.31	7.91	7.00	6.25	-	-	-	X	-	-	-	X
454	12.75	6.62	5.25	6.03	8.83	8.00	7.25	-	-	-	X	-	-	-	-
504	13.88	7.50	5.88	-	9.62	8.75	7.75	-	-	-	-	-	-	-	-
554	15.12	8.62	7.16	-	10.48	9.25	8.25	-	-	-	-	-	-	-	-
604	16.50	9.12	7.66	-	11.33	10.00	8.75	-	-	-	-	-	-	-	-
705	20.50	10.88	9.00	-	14.07	12.25	10.00	-	-	-	-	-	-	-	-
805	23.00	13.00	10.12	-	15.73	13.75	11.50	-	-	-	-	-	-	-	-
905	25.50	13.00	11.81	-	17.88	15.88	14.12	-	-	-	-	-	-	-	-

③ Long hubs are available for sizes 103 to 454 only.

Note: Shaft separations longer than standard may be accommodated by using stock spacers and counterboring and overhanging long hubs to make up the difference. Shaft fit length should be equal to "E" or greater. Consult KOP-FLEX for more details.