

The KD10 coupling is designed to work in place of standard close coupled gear coupling applications with minimal distance between shaft ends. The power capacity of the KD10 coupling is the highest in the industry, allowing the easiest conversion from a lubricated coupling to a low maintenance disc coupling.

The KD10 is comprised of two hubs, two rings, two disc packs, and a piloted split spacer. The standard coupling hubs may be installed in two mounting positions for design and installation flexibility. The split spacer pilot gives the KD10 coupling improved dynamic balance characteristics and contains a design feature to hold the split spacer in place while the coupling is rotating.

KD10 disc packs are semi-unitized to greatly reduce the number of loose parts. The split spacer simply drops away from the hubs for faster installation and replacement of the disc packs without moving connected machinery. The standard coupling balance meets AGMA Class 8 as manufactured, dynamic balance to AGMA Class 9 and conformance to API 610 / ISO 13709 are available options.

For higher speed requirements, consider a KD11 disc coupling.

KD10 couplings use HS Semi-Unitized Disc Packs, for easy replacement without moving connected equipment.



- Heavy Duty, Highest Power Capacity
- Minimal Shaft Separations
- Split Spacer with Safety Pilot
- Replacement for Standard Gear Couplings
- Drop-Out, Semi-Unitized Disc Packs

Complete Couplings

Coupling Size	Complete Coupling with 2 Std. Hubs	
	Rough Bore	Finish Bore ^①
103	103 KD 10 SS	103 KD 10 SS FB
153	153 KD 10 SS	153 KD 10 SS FB
204	204 KD 10 SS	204 KD 10 SS FB
254	254 KD 10 SS	254 KD 10 SS FB
304	304 KD 10 SS	304 KD 10 SS FB
354	354 KD 10 SS	354 KD 10 SS FB
404	404 KD 10 SS	404 KD 10 SS FB
454	454 KD 10 SS	454 KD 10 SS FB
504	504 KD 10 SS	504 KD 10 SS FB
554	554 KD 10 SS	554 KD 10 SS FB
604	604 KD 10 SS	604 KD 10 SS FB
705	705 KD 10 SS	705 KD 10 SS FB
805	805 KD 10 SS	805 KD 10 SS FB
905	905 KD 10 SS	905 KD 10 SS FB

^① All finish bores and keyways per AGMA/ANSI 9002 (Imperial) and AGMA/ANSI 9112 (Metric).

Component Parts

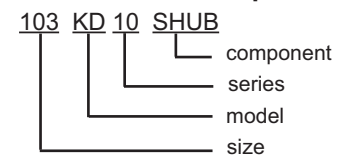
Description	Part Number
Standard Hub	SHUB
*Center Assembly	CA
**HS Disc Pack Assembly	HSDP
**HS Disc Pack Fastener Set	HSFS
**Flange Fastener Set	FFSHT

* Center Assembly includes (2) disc packs, (2) disc pack fastener sets.

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

Note: Complete couplings are supplied with HT Disc Packs (HTDP) for ease of initial installation. HS Disc Packs (HSDP) should be used for replacement without moving connected equipment.

How to Order Components



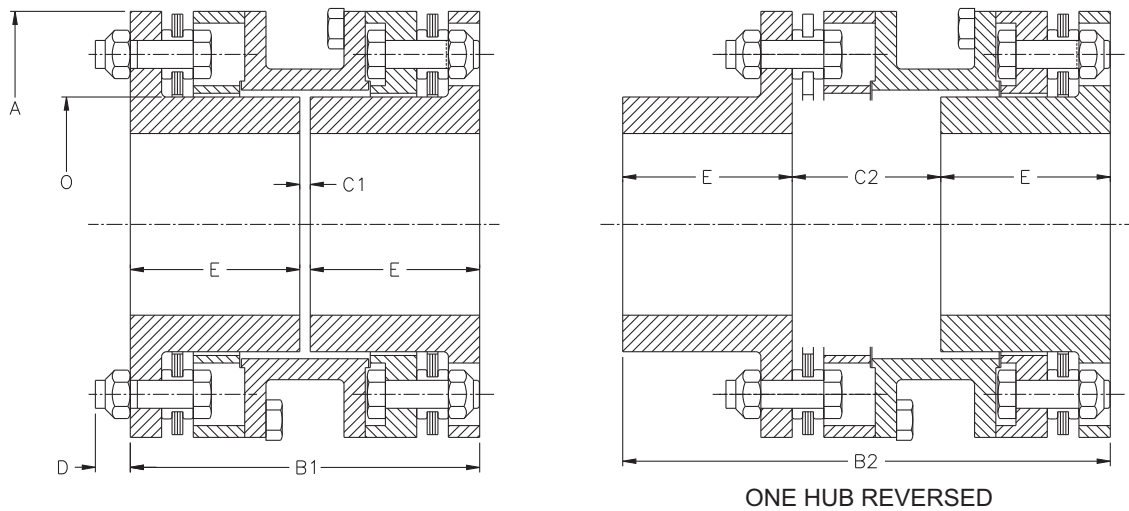
How to Order Disc Packs & Fastener Sets



Selection Data

Size	Max. Bore (in)	Coupling Rating (HP/100 RPM)	Torque Rating		Max. Speed Not Balanced (RPM)	Maximum Speed Balanced (RPM)	Total ① Weight (lbs)	Total ① WR ² (lb-in ²)	Axial Capacity (in)
			Continuous (in-lb)	Peak (in-lb)					
103	1.50	6.3	4000	8000	5400	9700	6.9	16	±.080
153	2.12	21.6	13600	27200	4500	7500	17.5	73	±.140
204	2.62	57.1	36000	72000	4100	6700	27.2	148	±.110
254	3.25	82.5	52000	104000	3600	5600	47.2	400	±.140
304	3.75	141	89000	178000	3200	5100	78.0	916	±.170
354	4.25	238	150000	300000	2900	4400	134	2140	±.200
404	4.75	340	215000	430000	2600	4000	193	3850	±.225
454	5.50	405	255000	510000	2400	3800	229	5540	±.250
504	5.75	570	360000	720000	2200	3500	316	8640	±.275
554	6.25	800	505000	1010000	1900	3000	404	13100	±.300
604	6.75	1050	660000	1320000	1850	2900	559	22200	±.320
705	8.50	2400	1510000	3020000	1800	2800	925	56400	±.270
805	9.50	3670	2310000	4620000	1600	2500	1340	102000	±.310
905	11.50	4130	2600000	5200000	1500	2300	1700	163000	±.400

① Data based on maximum bores.



Dimensional Data

Size	A (in)	B1 (in)	B2 (in)	C1 (in)	C2 (in)	D (in)	E (in)	O (in)
103	3.94	3.50	4.94	.125	1.56	.38	1.69	2.10
153	5.38	4.38	6.15	.125	1.90	.52	2.12	2.96
204	6.38	5.62	7.90	.125	2.40	.60	2.75	3.64
254	7.62	6.25	8.72	.175	2.66	.60	3.03	4.56
304	9.00	7.38	10.30	.175	3.11	.74	3.59	5.25
354	10.50	9.00	12.57	.250	3.82	.87	4.38	5.91
404	11.75	10.62	14.81	.250	4.44	1.00	5.19	6.75
454	12.75	10.94	15.32	.3125	4.70	1.00	5.31	7.62
504	13.88	12.38	17.35	.3125	5.28	1.14	6.03	8.19
554	15.12	14.12	19.83	.3125	6.02	1.29	6.91	8.75
604	16.50	15.12	21.21	.3125	6.40	1.38	7.41	9.31
705	20.50	17.75	24.87	.375	7.50	1.65	8.69	11.34
805	23.00	20.00	28.00	.375	8.37	1.94	9.81	12.75
905	25.50	22.25	31.24	.500	9.50	1.94	10.88	15.25