

Wrap Spring Clutches

Operating Parameters Chart

Model	Static Torque In.-Lbs.	Maximum Input Speed	Minimum* Input Speed	Anti-Back Torque In.-Lbs.	Anti-Overrun Torque In.-Lbs.	Input Hub Maximum Bearing Load Lbs.
DCB-2	25	1800	300	10	10	7.5
DCB-4	125	1200	200	80	25	14
DCB-5	250	750	150	160	45	32
DCB-5 SUPER	250	750	150	125	125	40
DCB-6	500	500	100	300	300	63
DCB-6 SUPER	500	500	100	300	300	65
DCB-8	2500	300	50	600	600	300
DCB-8 SUPER	2500	300	50	600	600	300
SC-2	25	1800	None	—	—	8
SC-4	125	1200	None	—	—	14
SC-5	250	750	None	—	—	32
SC-6	500	500	None	—	—	63
SC-8	2500	300	None	—	—	300

* When operating below minimum speeds, system inertias may have to be increased for proper performance. Consult factory for application assistance.

Inertia Conversion Chart

In order to determine the inertia of a rotating member (shaft, disc, etc.) of a material other than steel, multiply the inertia of the appropriate steel diameter from the chart at right by:

Material	Multiplier
Bronze	1.05
Steel	1.00
Iron	0.92
Powdered Metal Bronze	0.79
Powdered Metal Iron	0.88
Aluminum	0.35
Nylon	0.17

Inertia of Steel Shafting (per inch of length or thickness)

Dia. (Inches)	WK ² (Lb.-In. ²)	Dia. (Inches)	WK ² (Lb.-In. ²)	Dia. (Inches)	WK ² (Lb.-In. ²)
1/4	0.00011	7	66.816	13	803.52
3/8	0.00055	7-1/4	77.04	13-1/4	858.24
1/2	0.00173	7-1/2	87.984	13-1/2	924.48
3/4	0.00864	7-3/4	100.656	13-3/4	995.04
1	0.0288	8	113.904	14	1068.48
1-1/4	0.072	8-1/4	128.88	14-1/4	1147.68
1-1/2	0.144	8-1/2	144	14-1/2	1229.75
1-3/4	0.288	8-3/4	162.72	14-3/4	1317.6
2	0.432	9	182.88	15	1404
2-1/4	0.72	9-1/4	203.04	16	1815.84
2-1/2	1.152	9-1/2	223.2	17	2314.08
2-3/4	1.584	9-3/4	252	18	2910.24
3	2.304	10	277.92	19	3611.52
3-1/2	4.176	10-1/4	306.72	20	4433.76
3-3/4	5.472	10-1/2	338.4	21	5389.92
4	7.056	10-3/4	371.52	22	6492.96
4-1/4	9.072	11	407.52	23	7757.28
4-1/2	11.376	11-1/4	444.96	24	9195.84
5	17.28	11-1/2	486.72	25	10827.36
5-1/2	25.488	11-3/4	529.92	26	12666.24
6	36	12	576	27	14731.2
6-1/4	42.624	12-1/4	626.4	28	17036.64
6-1/2	49.68	12-1/2	679.68	29	19604.16
6-3/4	57.888	12-3/4	735.84	30	22452.48