

## 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 <sup>2</sup> (Lb.-In. <sup>2</sup> )	Dia. (Inches)	WK <sup>2</sup> (Lb.-In. <sup>2</sup> )	Dia. (Inches)	WK <sup>2</sup> (Lb.-In. <sup>2</sup> )
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