

Flexible Shaft Core Types

REMOTE CONTROL

To choose the right diameter Elliott core for remote control or bi-directional flexible shaft applications, you must know:

1. Torque to be transmitted by core
2. Minimum radius of bend
3. Type of operation (if applicable)
4. Maximum allowable torsional deflection (if applicable)

In the table below, locate a torque figure applicable to your application in the proper column under "Radius of Operation." Read across for the properties of that particular core. If the deflection listed is unacceptable, move to the next largest size.

Special consideration must be given when using bi-directional cores for power drive applications, both continuous and intermittent. For continuous power drive applications, reduce target values listed by 70%. On intermittent power drive installations, core can be operated for a short period of time limited by heat built up.

Core Size								Torque Capacity (Lb. Ft.) for Applications with Radius of Operation of 100" or Greater (Min. 48" Radius of Operation)														
Core Size	Core Weight (Lb.)	Core Length (In.)	Core Diameter (In.)	Core Weight (Lb.)	Core Length (In.)	Core Diameter (In.)	Max. Torque Capacity and/or Radius of Operation (Lb. Ft.)	Radius of Operation														
								100"	105"	110"	115"	120"	125"	130"	135"	140"	145"	150"	155"	160"		
1/2"	14.00	100	1/2	14	100	1/2	10000	10000	10"	10"	100	100	100	100	100	100	100	100	100	100	100	100
3/8"	10.00	100	3/8	10	100	3/8	10000	10000	7"	7"	100	100	100	100	100	100	100	100	100	100	100	100
5/16"	7.00	100	5/16	7	100	5/16	10000	10000	5"	5"	100	100	100	100	100	100	100	100	100	100	100	100
1/4"	5.00	100	1/4	5	100	1/4	10000	10000	3"	3"	100	100	100	100	100	100	100	100	100	100	100	100
3/16"	3.50	100	3/16	3.5	100	3/16	10000	10000	2"	2"	100	100	100	100	100	100	100	100	100	100	100	100
1/8"	2.00	100	1/8	2	100	1/8	10000	10000	1"	1"	100	100	100	100	100	100	100	100	100	100	100	100
1/16"	1.00	100	1/16	1	100	1/16	10000	10000	1"	1"	100	100	100	100	100	100	100	100	100	100	100	100
1/32"	0.50	100	1/32	0.5	100	1/32	10000	10000	1"	1"	100	100	100	100	100	100	100	100	100	100	100	100
1/64"	0.25	100	1/64	0.25	100	1/64	10000	10000	1"	1"	100	100	100	100	100	100	100	100	100	100	100	100
1/128"	0.125	100	1/128	0.125	100	1/128	10000	10000	1"	1"	100	100	100	100	100	100	100	100	100	100	100	100
1/256"	0.0625	100	1/256	0.0625	100	1/256	10000	10000	1"	1"	100	100	100	100	100	100	100	100	100	100	100	100
1/512"	0.03125	100	1/512	0.03125	100	1/512	10000	10000	1"	1"	100	100	100	100	100	100	100	100	100	100	100	100
1/1024"	0.015625	100	1/1024	0.015625	100	1/1024	10000	10000	1"	1"	100	100	100	100	100	100	100	100	100	100	100	100
1/2048"	0.0078125	100	1/2048	0.0078125	100	1/2048	10000	10000	1"	1"	100	100	100	100	100	100	100	100	100	100	100	100

- Notes:**
1. Each core can transmit this torque in both directions of operation for remote control applications (less than 100 rpm) and intermittent power drive applications (less than 100 rpm). For continuous power drive applications, reduce torque capacity by 70%.
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