



ADVANTAGES

- Low Cost
- Medium torque in the smallest space
- Available in slide on configurations
- Bronze on steel friction disc

OPERATION

- Torque from 5 lb.ft. to 5,000 lb.ft.
- Floating disc minimal parasitic drag
- Spring set electrically released for stopping, positioning and holding
- Operational in wet or dry applications

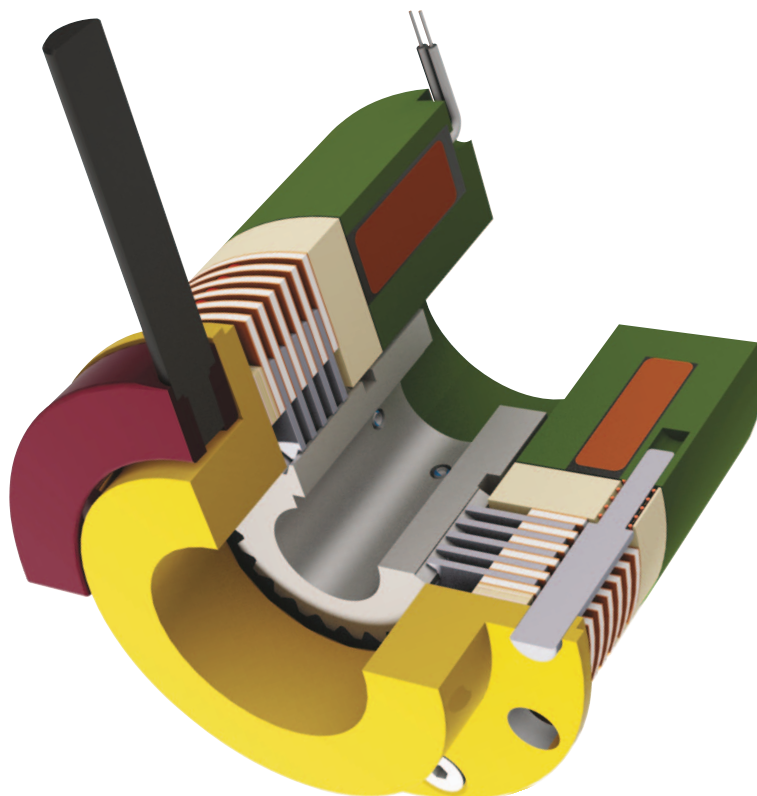
CUSTOMIZATION

- Available in multiple voltages
- Available with or without manual release
- Linear or rotary manual release methods are available
- Optional brake pad wear indicator
- Optional integral heater for extreme environmental conditions available
- Optional sealed cover available
- Custom designs and alterations with minimal cost and delivery times



Medium Torque Spring Applied Multiple Disc Electric Brakes (HBB)

Torque from 5 lb.ft. to 5000 lb.ft.



MAXITORQ® Model HBB brakes are a low cost solution when moderate torque is required in an extremely small package. The HBB brake is released when power is applied to the brake coil. When power to the brake is removed, braking torque is applied.

The HBB modular design, offers an “off the shelf” economical solution to your braking needs, with customization available for unique applications.

With extremely low drag and minimal power consumption requirements, HBB brakes are extremely cost efficient. The HBB brake utilizes bronze friction disc that are suitable to wet or dry application and transmit consistent torque over time.

Applications & Specifications of Medium-Torque Spring-Applied Multiple Disc Electric Brakes

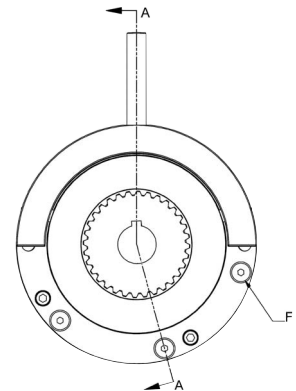
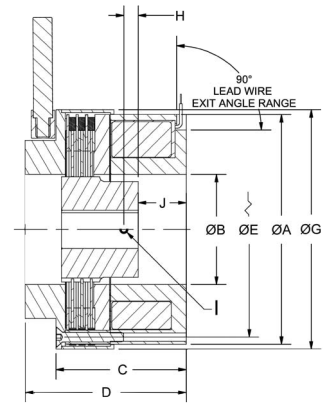
Carlyle Johnson's HBB brakes utilize a unique MAXITORQ® separator spring design, which ensures separation of the rotating friction discs when disengaged. This design virtually eliminates parasitic drag which is detrimental to brake life and will significantly reduce the brake's overall thermal capacity.

Typical applications for HBB brakes include:

- Imaging head positioning and holding in medical diagnostic equipment
- Stopping and holding in mechanized handling equipment
- Servo drive brakes
- Holding brakes/emergency stopping brakes for radar antennas
- Aerospace and military actuators
- Cranes, elevators and escalators
- Packaging machinery

For over one hundred years The Carlyle Johnson Machine Company has been at the forefront of innovative power transmission technology. With advanced R&D, precision testing and prototype development we are the industry's leading resource for effective and efficient power transmission solutions.

Our engineering staff is ready to solve your toughest power transmission challenge. We are always just a phone call away.



Model	Static Torque (lb. ft.)	Locating Ø		Without Manual Release Length C	With Manual Release Length D	Bolt Circle	
		A	B			ØE	Thread F
HBB0270	15	2.70	0.820	2.700	3.150	2.455	(4) #8-32
HBB0350	25	3.50	1.500	2.750	3.300	3.215	(4) #10-24
HBB0450	65	4.50	2.125	2.950	3.700	4.188	(4) #10-24
HBB0600	175	6.00	2.875	3.550	4.350	5.625	(6) 1/4-20
HBB0800	250	8.00	3.875	4.125	5.120	7.625	(8) 1/4-20
HBB1000	550	10.00	4.875	4.960	6.160	9.500	(8) 5/16-18

Model	Optional Cover ØG	Set Screw Location			Standard Bore Size*	Keyway
		H	I	J		
HBB0270	2.875	.313	(2) #6-32	1.000	7/16 or 1/2	1/8 x 1/16
HBB0350	3.700	.313	(2) #8-32	0.950	3/4 or 7/8	3/16 x 3/32
HBB0450	4.700	.500	(2) #10-24	1.000	1 or 1 1/8	1/4 x 1/8
HBB0600	6.300	.375	(2) 1/4-20	1.300	1 1/2 or 1 5/8	3/8 x 3/16
HBB0800	8.250	.625	(2) 3/8-24	1.250	2 or 2 1/4	1/2 x 1/4
HBB1000	10.300	.625	(2) 3/8-24	1.750	2 1/2 or 2 3/4	5/8 x 5/16

* Other bore sizes are available. All dimensions are measured in inches. Standard voltage is 24 or 100 VDC (±10%)
Other voltages available. Dimensions are for reference only and are subject to change.

