



High Torque Spring Applied Multiple Disc Electric Brakes (HTB)

ADVANTAGES

- Highest torque in the smallest space
- Cost effective solution for exceptionally high torque in extremely small packages

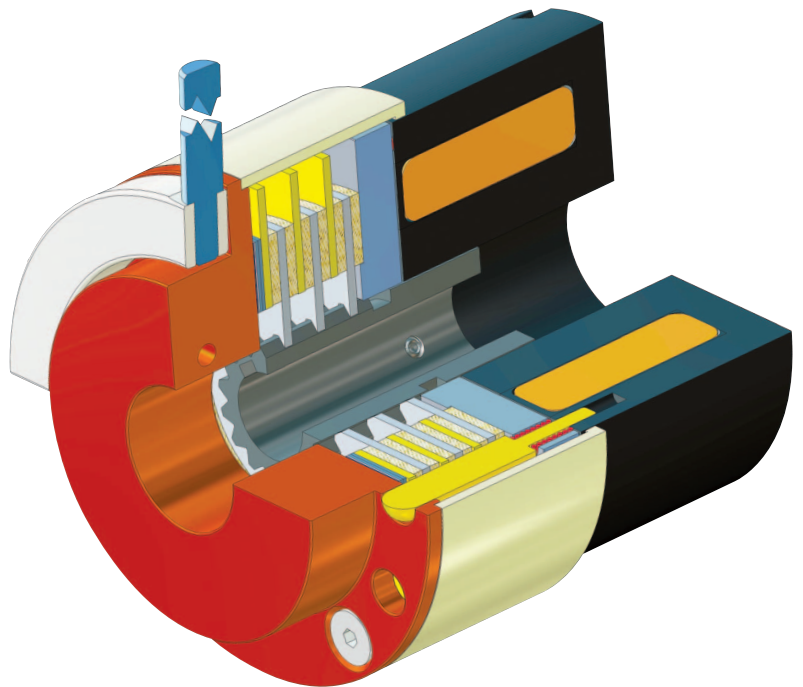
OPERATION

- Torque from 5 lb.ft. to 6000 lb.ft.
- Floating discs for minimal torque transmission in the disengaged model
- Spring set/electrically released for stopping, positioning and holding
- Available for wet or dry applications

CUSTOMIZATION

- Available in multiple voltages
- Available with or without manual release
- Optional brake friction pad wear indicator switch available
- Optional on/off brake status indicator switch available
- Optional integral heater for extreme environmental conditions available
- Optional sealed cover available
- Custom designs and alterations available

Torque from 5 lb.ft. to 6000 lb.ft.



MAXITORQ® Model HTB brakes are a cost-effective solution when exceptionally high torque in an extremely small package is required. The HTB brake is released when power is applied to the brake coil. When power to the brake coil is removed, braking torque is applied.

The HTB's modular design, with optional debris cover and optional manual release, provides an "off the shelf" solution to your braking needs, with customization available for unique applications.

With low drag torque and minimal power consumption requirements, HTB brakes are extremely efficient. These units also provide fast engagement/disengagement times, especially when assembled with a standard Carlyle Johnson Model CEC power supply.

 **MAXITORQ®**

 **CARLYLE JOHNSON**

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

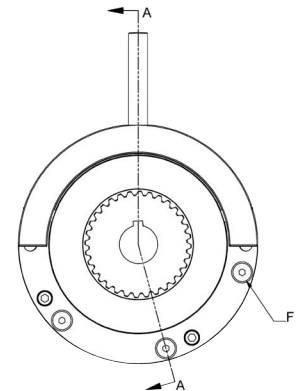
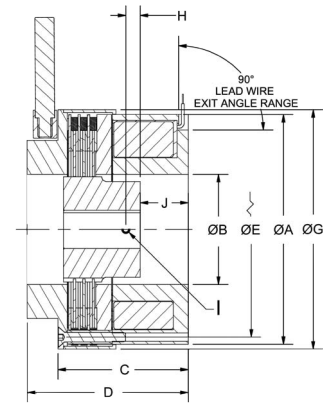
Carlyle Johnson's HTB brakes utilize a unique MAXITORQ® separator spring design, which ensures separation of the rotating friction discs when disengaged. This design virtually eliminates parasitic drag which is detrimental to brake life and will significantly reduce the brake's overall thermal capacity.

Typical applications for HTB 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 C	With Manual Release D	Bolt Circle	
		A	B			ØE	Thread F
HTB0270	20	2.70	0.820	2.700	3.150	2.455	(4) #8-32
HTB0350	40	3.50	1.500	2.750	3.300	3.215	(4) #10-24
HTB0450	95	4.50	2.125	2.950	3.700	4.188	(4) #10-24
HTB0600	220	6.00	2.875	3.550	4.350	5.625	(6) 1/4-20
HTB0800	450	8.00	3.875	4.125	5.120	7.625	(8) 1/4-20
HTB1000	900	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		
HTB0270	2.875	.313	(2) #6-32	1.000	7/16 or 1/2	1/8 x 1/16
HTB0350	3.700	.313	(2) #8-32	0.950	3/4 or 7/8	3/16 x 3/32
HTB0450	4.700	.500	(2) #10-24	1.000	1 or 1 1/8	1/4 x 1/8
HTB0600	6.300	.375	(2) 1/4-20	1.300	1 1/2 or 1 5/8	3/8 x 3/16
HTB0800	8.250	.625	(2) 3/8-24	1.250	2 or 2 1/4	1/2 x 1/4
HTB1000	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.

