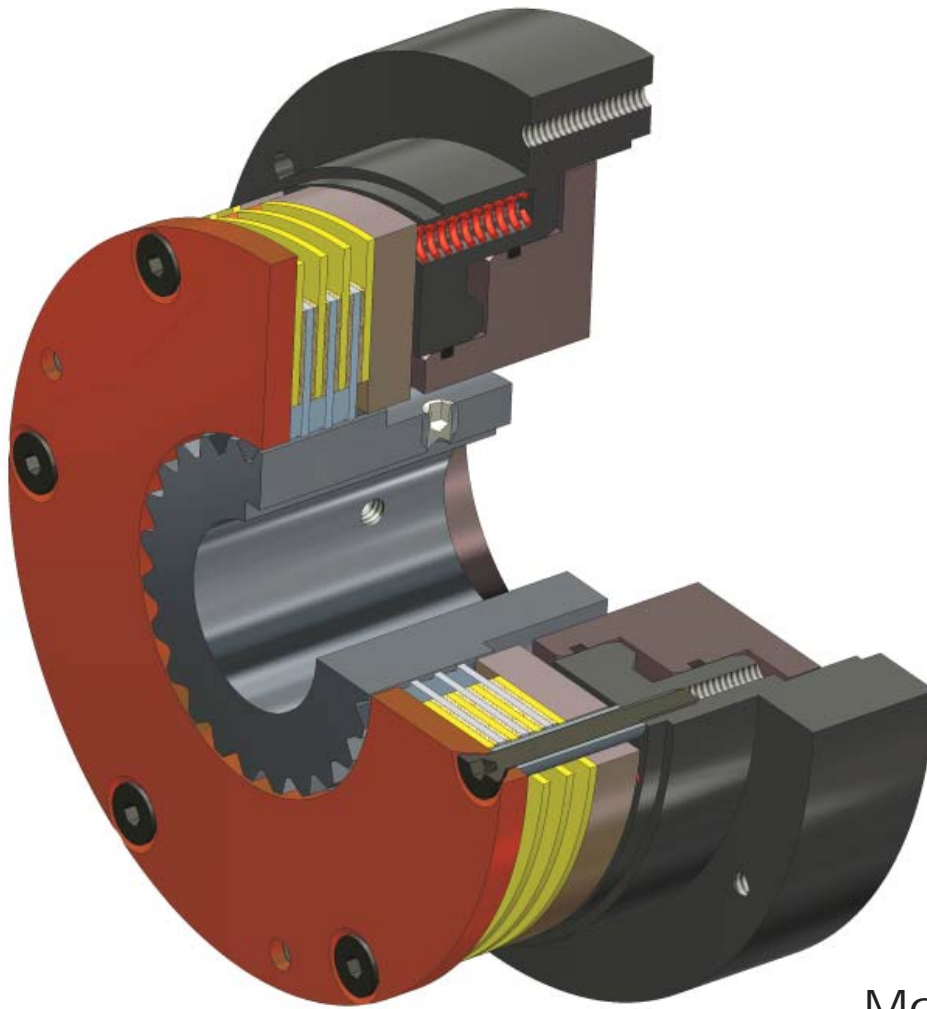


Air/Hydraulic Brakes Spring Applied Multiple Disc

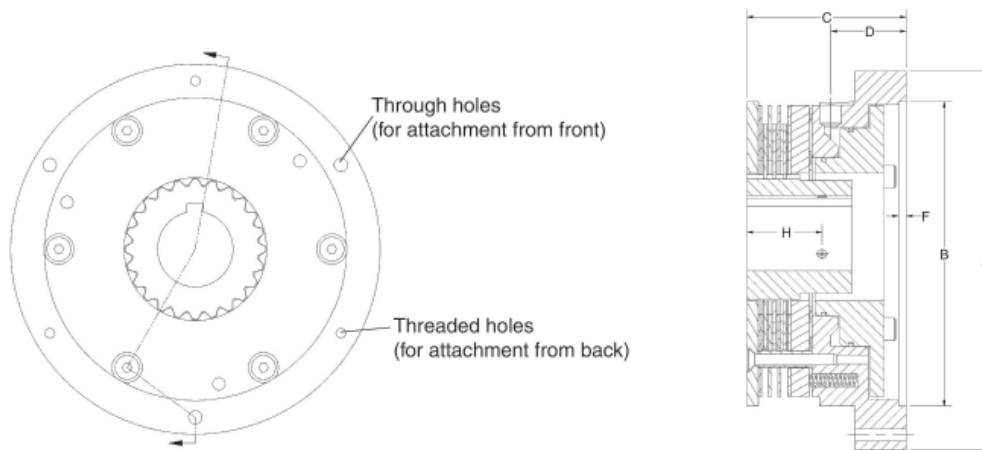


Model AFS

THE MAXITORQ® ADVANTAGE

- Highest torque in the smallest space
- Operates in dry or wet applications
- Low inertia
- Fast, reliable, positive braking action
- Power off design (spring applied, air or hydraulically released)
- Virtually drag free neutral regardless of brake orientation
- Universal floating hub for interior or exterior shaft attachment
- Low backlash models available
- Available with optional cover for harsh environments





An optional protective cover is available to prevent debris or moisture from entering the friction disc surfaces when used outside or in a dusty environment.
Operates in dry or wet applications.

SPECIFICATIONS

Model	Static Torque (lb.ft.)	Locating			D		Bolt Circle		Depth F	Standard Bore Size*	Keyway	Set Screw Location H
		A	B	C	LOC	NPT	Ø	Mounting Screws				
AFS0250	15	3.250	2.500	2.125	0.870	1/16	2.875	3 x #8-32	0.130	7/16 or 1/2	1/8 x 1/16	.313
AFS0350	35	4.500	3.500	2.375	0.937	1/8	4.000	3 x #10-24	0.130	3/4 or 7/8	3/16 x 3/32	.313
AFS0450	75	5.500	4.500	2.650	1.255	1/8	5.000	3 x #10-24	0.130	1 or 1 1/8	1/4 x 1/8	.500
AFS0600	175	7.500	6.000	3.250	1.413	1/4	6.750	3 x 1/4-20	0.190	1 1/2 or 1 5/8	3/8 x 3/16	.375
AFS0800	300	9.500	8.000	3.875	1.665	1/4	8.750	4 x 1/4-20	0.190	2 or 2 1/4	1/2 x 1/4	.625
AFS1000	550	11.750	10.000	4.890	2.140	1/4	10.875	4 x 5/16-18	0.250	2 1/2 or 2 3/4	5/8 x 5/16	.625

*Other bore sizes are available. All dimensions are measured in inches. Standard operating pressure 120 psi.

Maxitorq® Model AFS standard spring applied, multiple disc, air/hydraulic brakes are designed for use as holding brakes, medium duty starting and stopping brakes, and for emergency stopping. Braking torque is applied when the air or hydraulic pressure is removed from the piston chamber. This can occur intentionally or when there is a loss of pressure. Removing pressure from the piston chamber allows the compression springs to clamp the Maxitorq® multiple friction discs between the pressure plate and the stationary end plate resulting in a consistent holding force.

To release the brake, air/hydraulic pressure is applied and the brake is free to rotate. When disengaged the multiple friction discs are uniformly spaced by a unique Maxitorq® separator spring design, which ensures separation of the rotating friction discs, regardless of the orientation of the brake. This virtually eliminates parasitic drag, which is detrimental to brake life and assists in reducing brake disengagement times.

Typical applications include medical diagnostic equipment, parts handling equipment, holding brakes in servo drives and robotic mechanisms, emergency stopping brakes on power generation equipment and parking brakes on mobile and military equipment. We offer custom brakes with torque capabilities up to 3200 lb. ft. A significant portion of Carlyle Johnson's production is directed to user-specific requirements, including application of AFS brakes for frequent, high energy stops, or for extremely fast or slow braking.

The Carlyle Johnson Machine Company, L.L.C. has been at the forefront of innovative power transmission technology for over one hundred years. During this time we have leveraged advances in materials and pushed the boundaries of design to create highly efficient and effective solutions to fulfill our customers' unique requirements.

Focusing on new applications with ever-changing power transmission needs, we remain at the leading edge with new innovations requiring advanced R&D, testing and prototype development.

Our engineering staff is capable of solving your toughest power transmission challenges. We are always just a phone call away.



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