



*Our history is impressive!*

At MGM Brakes, innovation never stops...

Whichever MGM Brakes model you select, you'll be getting a spring brake designed and manufactured by the acknowledged worldwide leader. Since MGM began in 1956 with the patent for the first spring parking brake, to today, where MGM Brakes is the leader in the design and development of the first electronic brake stroke monitoring system, we've continually led the way with industry firsts:

- Patented the first spring parking brake
- First brake with built-in manual release bolt
- First to offer flat-bottom NPC
- First to offer external breather tube
- First to offer "Steel Head" service chamber
- First to design & patent tamper resistant brake (TR)
- First to offer full line of 3-inch long stroke spring brakes and service chambers
- First to offer welded yoke
- First to offer visual stroke alert indicator
- First to design and patent electronic stroke alert (e•STROKE®)

With MGM Brakes you can be confident you're equipping your fleet with products that are on the cutting edge of technology.



**MGM Brakes**

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**MGM Brakes**  
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With choices, you can match the right brake to the right job.

All service chambers and spring brakes are not alike. The difference is in the details. From our unmatched broad range of actuators to our unique patented e•S3™ Electronic Brake Monitoring System, MGM Brakes gives you choices so you can match the right brake to the right job. For products that provide maximum performance and cost efficiency, take a good hard look at MGM Brakes. We think you'll like what you see.

**e•S3™**

\*The e•STROKE® Monitoring System is covered by one or more of the following U.S. Patent Numbers: 5,358,075; 5,450,930; 5,825,287; 6,255,941; 6,352,137; 6,411,206; 6,417,768; 6,501,375 and pending U.S. and Foreign patent applications.



*Over 50 Years of Leadership*

FORM 5074

# Discover MGM...



For over 50 years MGM Brakes has been at the forefront of commercial vehicle air brake actuator technology, providing service chambers and spring parking brakes engineered to operate in the harshest environments.

In 1956, when heavy over-the-road vehicles, lacking a reliable air-brake backup device, were experiencing air system failures that usually resulted in a runaway vehicle, MGM's founders came up with an innovative solution to this industry safety problem, designing and patenting the first spring parking brake. Their innovation achieved worldwide acceptance as a simple solution to a serious problem that plagued the transportation industry for decades.

As inventor and manufacturer of the industry's first truly effective spring parking brake, MGM Brakes rapidly progressed from its humble origins to industry-leader status, developing actuators designed to address the operational requirements of all segments of the transportation industry: from over-the-road long haul trucking, to the rigors of vocational fleet operations, to the demands of the transit industry.

With two ISO-Certified manufacturing facilities, both located in the United States, along with a state-of-the-art Technical Research Center: staffed by the best and brightest the industry has to offer; MGM Brakes continues to develop new solutions to the transportation industry's ever changing needs. From service chambers to double-diaphragm and piston-diaphragm spring brakes for Wedge, S-Cam or Air Disc Foundation Systems, to our Electronic Brake Monitoring System, MGM products are readily available through our global sales and distribution network, serviced directly from our centrally located parts distribution center, ensuring easy access and rapid delivery to all our customers.

MGM's mission from day one has been to design, manufacture and market products that consistently meet our customers' expectations for quality, performance, delivery, product safety and value. When you think air brake actuators, think MGM Brakes.

**MGM Brakes, the right choice, the smart choice.**



Top: IHI Corporate Office

Right: MGM Tech Center, both in Charlotte, North Carolina

Below: R&D never stops at MGM Brakes.



Above: MGM Brakes Manufacturing Plant, Murphy, North Carolina



Left: MGM Brakes Manufacturing Plant, Cloverdale, California

**e•S3™** MGM Brakes newest e•STROKE® System technology, e•S3™, provides quick, accurate brake stroke status readings for any air-braked vehicle with exposed push rod brake chambers, as did the earlier system, but with more capabilities for collecting and disseminating information; which now includes brake lining wear.

MGM's earlier e•STROKE® system utilized LED blink codes on the Chassis Communication Module (CCM) - to transmit brake related faults: i.e. non-functioning, over-stroking and dragging brake. Although a dash mounted "warning light" notified the operator a fault had occurred, the CCM was usually mounted outside the cab, requiring the operator, or service technician, to exit the vehicle to read the codes.

The e•S3™ System can display faults, via J-1939, on the vehicle's instrument cluster: if OEM installed; or on the system's e•DT (e•S3™ Diagnostic Tool), which can be mounted in the cab where the operator can see the fault clearly displayed. The e•DT can also serve as a hand-held diagnostic tool that can be connected to the vehicle diagnostic port to view all the data stored in the CCM: (up to 126 incidences of each fault, per wheel). In addition, the stored data can also be downloaded to a laptop computer, where it can be analyzed in detail, enhancing the system's usefulness as a prognostic and/or diagnostic tool. Because e•S3™ tracks brake application pressure with every actuation, over-stroke faults can be analyzed in terms of brake pressure applied; an intermittent dragging brake can be identified and addressed before it becomes a more serious and costly problem: and, because e•S3™ is compatible with most lining wear sensors, lining wear issues can be identified, thus reducing component wear while prolonging the intervals between relining.

The e•S3™ System's ease-of-use promotes operational safety – always a serious concern of fleet maintenance personnel. As noted by one major fleet manager: "making certain that proper (brake) inspections happen every time has a dollar value with a quick pay-out in safety and assurance that our equipment is operating as safely as possible on the public roadways". He continued that since they began installing the e•STROKE® Systems, they have "not had a single OOS (Out-of-Service) violation on any of the 275 units (equipped) with e•STROKE® System".



**The Leader in Spring Brake Technology... Worldwide**