



At MGM Brakes, we are committed to excellence in everything we do.

Since 1956 when the founders of MGM Brakes invented the spring brake actuator, we have taken our role as a leading world-wide supplier to the commercial vehicle industry very seriously. From our humble beginnings over 50 years ago when MGM Brakes addressed the safety challenge of the logging industry in the Pacific northwest, we have earned the reputation as the industry leader in continuous improvement and innovative, cutting edge actuator products in the commercial vehicle industry. From a simple parking brake in 1956 to Tamper Resistant (TR) spring brakes of the 1980's, we moved into the new millennium with the introduction of MGM Brakes e•STROKE® , electronic brake monitoring system.

The founders of MGM Brakes set a high standard of quality, innovation and safety over fifty years ago - a philosophy that is woven into the fabric of MGM Brakes. As you learn more about the addition of e•STROKE® to our family of brakes, you will see we are keeping our founders' commitment to our customers and the commercial vehicle industry as we embark on another fifty.

Thanks for your continued support for over fifty years. It's been a great ride and we invite you to come along for a SAFE ride with MGM Brakes for the next fifty years and beyond!

Ron Parker

**Ron Parker
Chairman, President and CEO**



MGM Brakes
A Division of Indian Head Industries, Inc.

**CORROSION
— FIGHTER™ —
TECHNOLOGY**



MGM Brakes
A Division of Indian Head Industries, Inc.
World Headquarters
8530 Cliff Cameron Drive
Charlotte, North Carolina 28269-9786
Phone: (800) 527-1534
Phone: (704) 547-7411
Fax: (704) 547-9367
email: mail@mgmbrakes.com

www.MGMBrakes.com



**CORROSION
— FIGHTER™ —
TECHNOLOGY**



**A "NEW" STANDARD
FEATURE IN ALL OUR
TR MODELS TO FIGHT
HARSH ELEMENTS IN THE
ENVIRONMENT!**



MGM Brakes
A Division of Indian Head Industries, Inc.

CORROSION — FIGHTER™ — TECHNOLOGY

Metal components of commercial vehicles are constantly subjected to harsh corrosive environmental conditions, particularly in the winter months in the northern climates. Until recently, the coatings and materials used in spring brakes were sufficient to effectively resist the corrosive effects of materials found in the environments in which the vehicles operate, including the effects of rock salt used to de-ice the roadways.

However, with the introduction of more aggressive de-icing solutions, which literally “cling” to the surface, metal components are experiencing much higher levels of corrosion. In warmer weather, after the water has evaporated, the corrosion process can be reactivated on rainy days when moisture comes into contact with the crystallized salt deposits.

A way to reduce the effects of this “corrosive” attack is to break the electrical conductivity between the parts by changing one of the existing components to a non-conductive material. This is what MGM Brakes Engineering has done by designing a new spring guide constructed from heavy-duty, non-conductive composite material. The “new” composite guide prevents metal to metal contact between the end coil of the power spring and the head of the brake, effectively “breaking the circuit”, therefore slowing the corrosion process and reducing “corrosion” related brake failures.

MGM TR Model Brakes - better than ever!

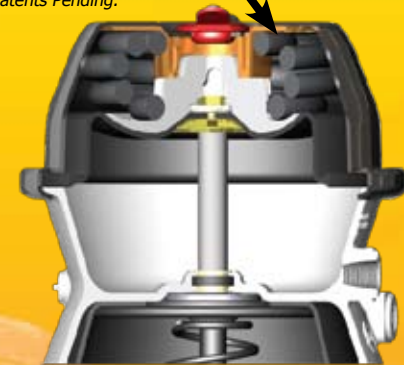
In addition to constructing the guide from composite material, MGM Engineers made other design changes that significantly improve power spring life by preventing damage to the power spring’s protective coating. This was accomplished by enlarging the area into which the power spring is compressed when the parking brake is released. All this was done without increasing the overall size of the brake.

The new spring guide also ensures precise alignment of the power spring inside the brake. Accurate alignment of the head side of the power spring compliments our patented Center-Hole Diaphragm (CHD) design providing longer center seal and power spring life.



**“New”
composite guide**
*Note: guide is depicted in
orange for visual purposes.
Patents Pending.*

Old guide



Composite Guide - A Standard Feature
Constructed from heavy-duty, non-metallic composite material. Available on all TR model chambers.
Patents Pending.

Other standard features include:

“Long Life” Power Spring

Powerful, reliable with increased shut height to reduce coil contact.

Non-Pressure Chamber

Heavy-duty 8 gauge embossed steel on all type 3030 spring brakes.

Center Seal

Nylon guides (not troublesome O-rings) prevent metal to metal wear, ensures alignment and absorbs the load, extending the life of the seal.

Center-Hole Diaphragm

MGM Engineering designed and patented a system that prevents power spring skewing, reduces stress and adds life to the center seal.
U.S. Patent #5,507,217.

Heavy-Duty Diaphragms

Cold weather natural rubber for longer service life and resistance to deterioration. Neoprene is also available for increased life in oil contaminated environments.

MGM TR Spring Brake Chambers are available in a variety of models designed to meet the performance and operational needs of every customer. From the over-the-road hauler to the severe operating environment of refuse collection, MGM has the right model for the toughest jobs.

Corrosion Protection Technology.... and it's “standard”