



# ultra life™

## IM UL

# The Ultimate in Spring Brake Performance & Durability

IM UL



*Purpose built for intermodal trucks and trailer chassis used in the rough conditions of marine ports (excess heat, humidity and salt corrosion - plus long periods between usage)*

For the ultimate in performance and durability, you can count on IM UL UltraLife. As TSE's premium quality spring brake, UltraLife is designed to deliver the industry's longest service life and best corrosion protection. IM UL UltraLife features a Mil Spec coating along with a unique design that helps reduce premature spring failure. In addition, UltraLife is the ideal solution to fulfill the TSE spring brake mission: Keep Chambers On, Keep Air In, Keep Rust Off, and Keep Costs Down.

### Innovative Design

UltraLife features a 100% steel inverted spring bottom housing that reduces both spring coil-to-coil contact and spring coil-to-spring housing contact. The all-steel design provides a durable, air-tight center section that virtually eliminates leaks and structural failures, while the recessed pressure plate allows for a shorter and more compact chamber to help prevent power spring drift.

### Tough Main Spring

IM UL UltraLife main spring adds a proprietary base coating in addition to TSE's multi-stage coating system for the ultimate in corrosion protection. Tested to double SAE standards, UltraLife's main spring actually exceeds SAE dry cycle testing requirements in a slurry environment.

### Superior Corrosion Resistance

With TSE's exclusive in-house process, all parts of the UltraLife spring brake receive an 8-stage pre-treatment, e-coated housings and an extra layer of polyester powder coating protection. Final coating is Mil Spec.

### Long & Standard Stroke

UltraLife comes in size 3030, with a 2.5" or 3" stroke with long rod for Intraax applications, cut rod or welded clevis options, and with or without the clevis.

### Premium Quality

TSE is an ISO 9001 certified company and complies with QS9000 and TS 16949. As an OEM premium direct fit and aftermarket replacement, UltraLife is the premium brake for your heavy-duty trucking application.

### Complete In-House Testing

UltraLife brakes undergo rigorous in-house testing in TSE's comprehensive testing lab. Tests include variable pressure cycle testing, vibration testing, hot cell cycle testing, salt spray testing, cold cell leak/operational testing and slurry testing.

### Six Year Warranty

TSE offers an industry-best 6-year warranty. IM UL UltraLife also comes with a 10 year corrosion warranty. See warranty certificate for details.

### New Clevis Pins

Chambers delivered with optional clevis come standard with stainless steel clevis pins for maximum corrosion protection and to help eliminate seized pins and bent push rods.



# IM UL The Ultimate in Spring Brake Performance & Durability

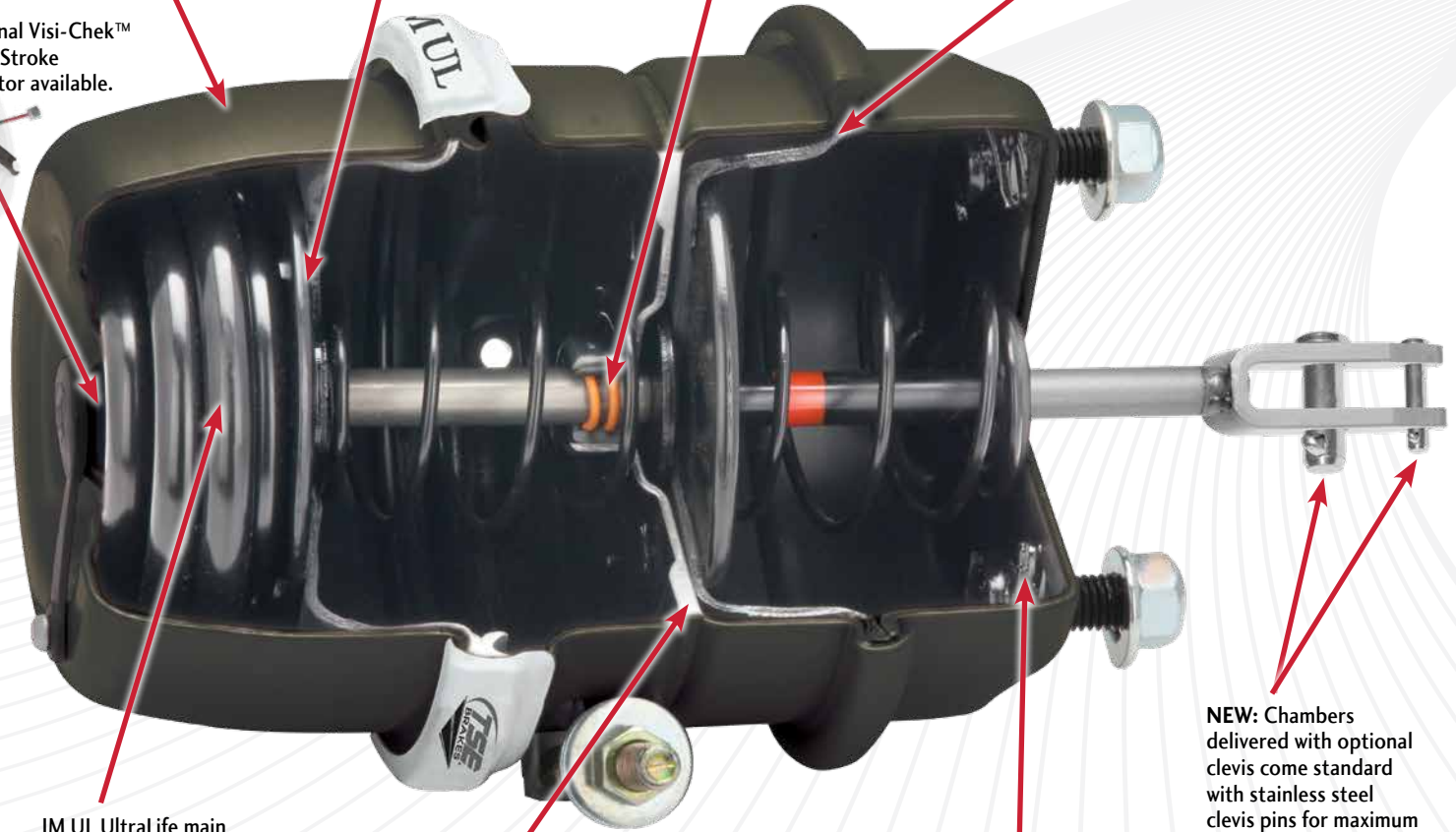
Full immersion electro-deposition coating inside and out and an exclusive Mil Spec powder coating finish for the most durable corrosion protection in the industry.

**NEW: TSE All-n-One™ self guided recessed pressure plate.** Diaphragms are factory sealed to pressure plate. Assures proper alignment to extend life of pressure plate, diaphragm and power spring.

Patented bushing assembly provides center seal that traps lubricant for extended service, reducing center section leaks and brake drag.

Premium diaphragms feature high quality contaminate resistant rubber with nylon reinforced fabric tested well beyond the toughest industry specifications.

Optional Visi-Chek™ Brake Stroke Indicator available.



IM UL UltraLife main spring adds a proprietary base coating in addition to TSE's multi-stage coating system for the ultimate in corrosion protection.

All steel design provides durable, air tight center section that virtually eliminates leaks and structural failures.

TSE designed High Vibration "HV" mounting base reduces vibration for longer life standard on UltraLife products.

**NEW:** Chambers delivered with optional clevis come standard with stainless steel clevis pins for maximum corrosion protection and to help eliminate seized pins and bent push rods.



TSE Brakes, Inc.  
2310 Industrial Drive S.W.  
Cullman, Alabama 35055  
256-736-6275  
[www.TSEbrakes.com](http://www.TSEbrakes.com)