



BROCHURE

FRICTIONMANAGEMENT

PROTECTOR® Slimline (SL) Systems

Trackside Friction Management Systems for Narrow Installation Sites

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L.B. Foster's broad portfolio of state-of-the-art electric **PROTECTOR** systems is the industry standard, with decades of proven in-field performance and reliability. For narrow or otherwise depth limited installation sites, L.B. Foster offers their compact **Slimline (SL)** series of systems, including the **PROTECTOR X SL90** and **PROTECTOR IV SL300**.

These systems allow for optimized trackside friction management (FM) system placement even when dealing with:

- > Tunnels
- > Walkways
- > Space constraints common in transit and urban railway environments

All L.B. Foster trackside systems can be equipped with our **Anatomy Asset Intelligence™** platform (formerly Remote Performance Monitoring - RPM), allowing railroad owners and system maintainers to remotely manage their assets and gain insight into their operation. This technology helps to maximize uptime and minimize the operating costs and track time associated with maintaining an FM program.



PROTECTOR IV SL300

A compact trackside friction management system customizable for your site

All PROTECTOR SL Systems are:

- > Available in both Top of Rail (TOR) friction management and Gauge Face (GF) lubrication versions
- > Fabricated from Stainless Steel
- > Designed with steep-walled reservoirs that maximize liquid consumable usage between fills
- > Available in solar and AC system options
- > Can be wall or ground mounted depending on site needs
- > Compatible with L.B. Foster's industry-leading control systems, applicator bars, and consumables

Benefits of a properly implemented FM program include:

- > Extend rail and wheel life
- > Control squeal and flanging noise
- > Reduce rail defects and corrugation
- > Reduce grinding and milling costs
- > Improve fuel economy and associated reductions in greenhouse gas (GHG) emissions
- > Reduce derailment potential (wheel climb)
- > Reduce lateral forces
- > Improve ride quality and vehicle steering

PROTECTOR SL Systems Key Features

PROTECTOR X SL90		PROTECTOR IV SL300
Tank Capacity		90 L / 24 USG
Dimensions (WxHxD)		300 L / 79 USG
1.22 x 1.11 x 0.28 m / 48 x 44 x 11 in.		1.66 x 1.22 x 0.4 m / 66 x 48 x 16 in.
TOR and GF Compatibility		✓
Power Options	AC-DC Batteryless	✓
	AC-DC with Battery	✓
	DC Solar	✓
Compatible with Anatomy Asset Intelligence (formerly RPM)		✓
Tank Outlet Gate Valve for ease of pump maintenance		✓
Adjustable Mounting Positions for Digital Control Box (DCB)		✗
Tank Rapid Bulk Filling Capacity using L.B. Foster's Bulk Fill System		✓
Top Fill		Top Fill / Bottom Filling Port



PROTECTOR X SL90



PROTECTOR IV SL300

Applicator Bars and Wheel Sensors

- > All PROTECTOR SL system are compatible with L.B. Foster's entire portfolio of applicator bars and Smart Wheel Sensors
- > For Gauge Face Lubrication, L.B. Foster's MC-5™ (short) and MC-4XL™ (long) applicator bars with GREASEGUIDES™ offer unparalleled in-field performance
- > For Top of Rail Friction Management, L.B. Foster's TOR Foam Bar ensures efficient product placement to the wheel tread / top of rail interface



L.B. Foster MC-5 GF Applicator Bar with SYNCURVE™
Transit Ultra High-Performance Rail Curve Grease

**North America**

+1-866-523-7245

TotalFrictionManagement@
lbfooster.com

UK, Europe, Middle East, Africa

+44 (0)114 256 2225

uksales@lbfooster.com

Asia Pacific

+1-412-928-3400

APACSales@lbfooster.com

China

+86 10-6462-0986

lbfbj@lbfooster.com

Latin America

+1-832-317-5072

Latam@lbfooster.com

Brazil

+55 32 3215-1034

info.br@lbfooster.com