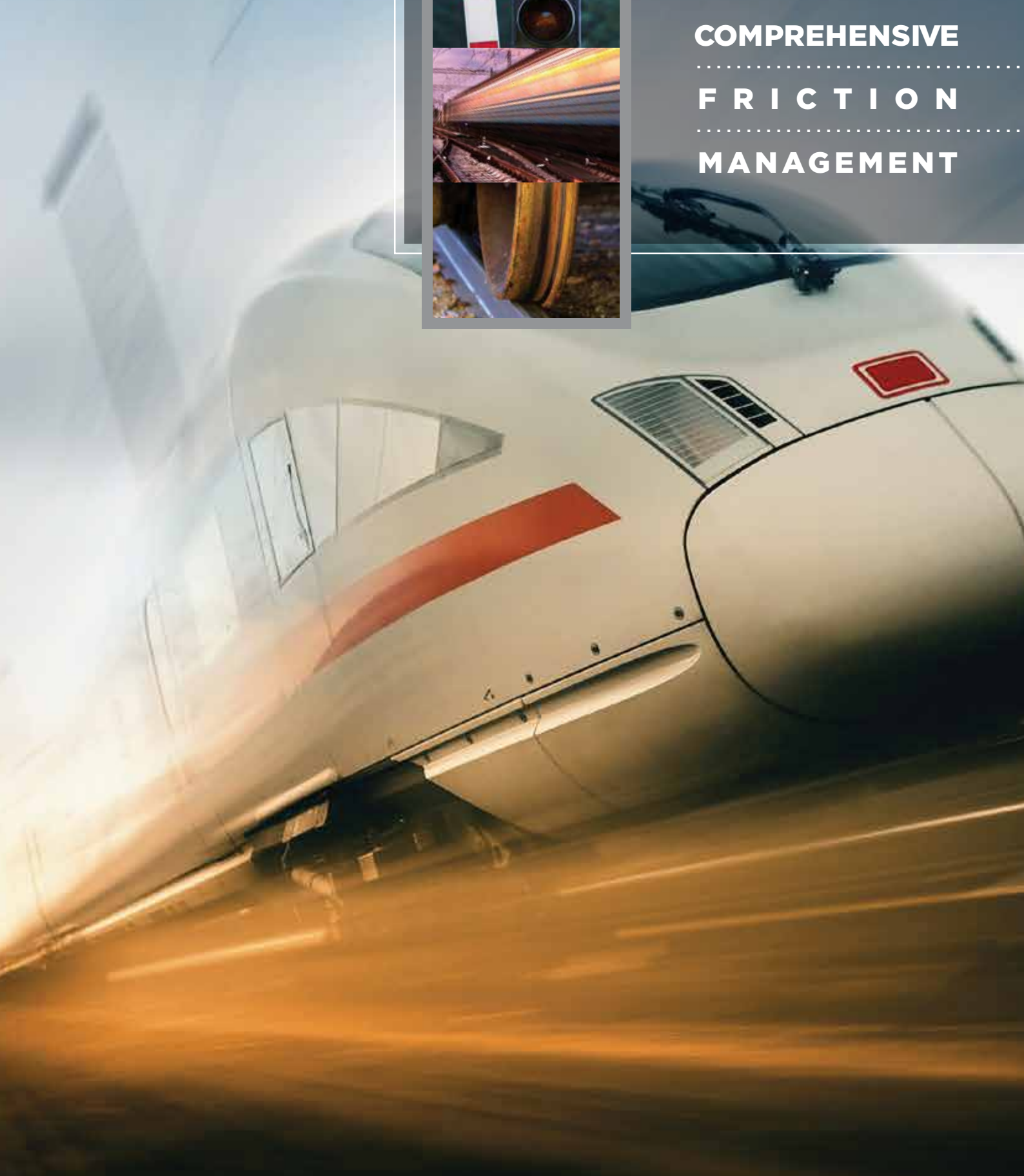


**COMPREHENSIVE**  
.....  
**F R I C T I O N**  
.....  
**MANAGEMENT**



Established in 1991, Whitmore Rail in Europe, formerly QHi Rail Ltd, is a market leading global provider of innovative friction management solutions for the wheel / rail interface. We provide customers with comprehensive advice and solutions on how to solve wheel & rail interface

WE BRING  
.....  
IT ALL  
.....  
TOGETHER.



related problems, tailored to specific requirements. Our goal is to exceed customer expectations by providing high performance, cost effective, reliable products and services.

We are committed to working together with the rail industry to develop the best in rail lubrication. Our dedicated team of designers, engineers and sales force, work closely with the industry, listening to advice, requests and suggestions to create the perfect balance between technical innovation, cost reliability and practicality.

Whitmore Rail is a product line of Whitmore, established in 1893. We are one of the only companies in the world that manufactures rail lubricants, friction modifiers and rail lubrication equipment. Let us show you how our friction management products and services can save you time and money.

## Performance Lubricants

### **BIORAIL®**

*A biodegradable rail curve lubricant that proves you don't have to compromise performance in order to be environmentally responsible. BioRail has proven itself, not only in the laboratory, but where it counts - on the rail. Its stable chemistry ensures that it pumps in the coldest climates and stands up at the wiping bar in all weather conditions. Rail carry is up to four miles under most conditions, and BioRail stays on the rail even during heavy rain.*

### **BIOSWITCH™**

*A biodegradable lubricant designed to keep your rail switch plates operating smoothly for years to come. Its robust chemistry allows for easy application in any weather and optimal resistance to water and dirt. In fact, it can be applied to wet switches and won't wash off in the rain. BioSwitch has been certified by the USDA as biobased, and has earned USDA BioPreferred designation. Its biodegradability was proven using the Modified Sturm test.*

## Friction Modifier

### TOR ARMOR<sup>®</sup>

*A revolutionary top of rail friction modifier specifically designed to provide optimum friction at the wheel-rail interface, substantially reducing noise, wear and lateral forces. High lateral forces lead to loosened tie plates and fasteners and can result in low rail rollover; TOR Armor greatly reduces lateral creep, and when wheel creep occurs, it immediately increases positive friction, reducing the creep condition and returning the wheels to a healthy rolling motion. The result is a substantial reduction in vibrations, corrugations and high-frequency squealing. While TOR Armor is engineered for use on heavy haul freight and transit rail applications, it also acts as a lubricant during normal rolling.*

## Rail Equipment

### ELECTRO<sup>™</sup> 10, 20, 30

*Electric trackside applicators that provide technological advancements mechanical and hydraulic applicators can't offer including twin rail blades for multi-curve rail lubrication. Ideal for reverse curves, one unit can replace multiple existing applicators. The robust galvanized cabinet houses the main components of the applicator. With systems pumping from 8 to 15 meters the cabinet can be located in a place of safety for easy maintenance and filling. A twin chamber pump with direct gravity feed from the reservoir means there is no residual grease left in the reservoir. The grease is pumped to blades via twin output hoses, which allows blade staggering on left and right rails for optimum grease pickup. Precise grease output is provided by a patented stepped control box.*



### ELECTRO<sup>™</sup> 5

*A smaller and lower capacity electric trackside applicator with similar features to Electro 10, 20 and 30. Electro 5's smaller cabinet means the full benefits of an electric rail applicator can be utilized in areas where space is limited. The cabinet can be installed on a pole, wall, handrail or sleeper. In addition, the system can be powered by solar panels or electrical mains and offers full flexibility in all areas. Electro 5 can be used as a gauge face applicator with EasiBlade<sup>™</sup> and EasiCheck<sup>™</sup> blades or alternatively as a top of rail system with FrictionEase<sup>™</sup> blades.*



### **LUBRICURVE<sup>®</sup> PD50**

*A simple, efficient mechanical trackside applicator that provides high performance with low maintenance. Reservoirs are robust, durable, lightweight aluminum and designed for quick fill. Sizes available include 9kg, 35kg and 70kg. LubriCurve PD50 is easy to install and suitable for all types of rail profile. A patented positive displacement pump dispenses a consistent grease volume ideal for high or low speed traffic with minimal plunger movement. This ensures reduced wear on plungers and results in less maintenance. With this applicator, grease output isn't speed dependent and can be set for low output, a factor often essential for light rail and tramway lubrication. Distribution blades can be supplied in various lengths and the modular design enables easy installation and replacement with minimal blocking.*

### **EASIPOINT<sup>™</sup>**

*Developed as a cost effective, true alternative to canister lubrication for S&C. EasiPoint's low volume, positive displacement pump plunger has been precision designed to provide 40% of the output of a standard Whitmore Rail pump plunger. The EasiPoint system incorporates both EasiPump<sup>™</sup> and EasiBlade<sup>™</sup> technology, which allows for quick and simple installation and maintenance. Both pump and blade can be pivoted away from the rail face for grinding with no loose parts and then refitted easily and quickly.*

### **FRICTIONEASE<sup>™</sup>**

*It is now evident that material is needed on the head of the rail to help reduce squeal, corrugation, lateral force low rail RCF and excessive energy consumption. Using our electric rail applicators to apply friction modifiers to the head of the rail will help overcome these issues. Friction modifier can be picked up and applied along the head of the rail by passing wheels from the FrictionEase blades.*

### **EASIBLADE<sup>™</sup>**

*Specially designed wiping blades for quick, easy installation and maintenance for all types of running rail worldwide. EasiBlade comes with eight, sixteen, or thirty-two large ports and wide grease channels to reduce grease blockages and the simple removal of bolts exposes the inside of the blade for fast cleaning. The blades unique pivoting mechanism allows lowering of the blade for rail grinding without removal of any parts. This reduces time and component losses. EasiBlade can be used with any make of electric, mechanical, hydraulic or canister rail applicators.*

### **LUBRICATION MANAGEMENT SERVICES**

*Whitmore Rail's lubrication management program provides unique solutions for reducing the total cost of lubrication. Custom-tailored to each customer's specific needs, the basic program includes lubricant supply, bulk pumping equipment and bulk delivery services. This program allows customers to select only the options they need to build and maintain lubricant performance and longevity.*

**Whitmore Rail. Friction Control Made Easy.**



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