



## ***News Release***

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### **NEW HIGH-PERFORMANCE COATING ON BENDIX REMANUFACTURED BRAKE SHOES IMPROVES PROTECTION AGAINST RUST JACKING**

*Exclusive PermaGuard™ Protective Coating Resists Rust Jacking through Improved  
Wash Process and Paint Formula; Includes New Three-Year Warranty*

**ELYRIA, Ohio – Jan. 23, 2017** – Bendix launches PermaGuard™, an exclusive new protective coating for its remanufactured brake shoes that is engineered to improve resistance to rust jacking – while offering fleets increased brake life and contributing to lower total cost of ownership. In creating PermaGuard, Bendix reformulated the coating and wash process, improving its ability to adhere to the metal shoe. The company stands behind its coating with a new, extended, three-year warranty against rust jacking.

Rust jacking – a combination of brake shoe corrosion and lining failure – occurs when rust builds up on the steel beneath the brake lining, exerts upward pressure on the friction material, and eventually causes cracks in the friction material. Although rust jacking can occur year-round, the combination of wet roads, temperature swings, and chemical de-icers – such as road salt or chemical compounds (for example, magnesium chloride and calcium chloride) – makes winter conditions ideal for corrosion to take hold on a brake shoe. For this reason, rust jacking is most prevalent in regions with cold-weather climates.

In addition to tractor wheel-ends, trailer brakes are susceptible to rust jacking as well – particularly trailers sitting idle for long periods. While idle, trailer brakes can continue to have moisture linger beneath the brake friction material, where it can continue to attack the brake

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shoe coating. The damaging moisture builds up in the brakes and doesn't get burned off during brake applications as on a tractor in regular use.

"It's important for fleets to choose a reman brake shoe with an effective brake shoe coating, because that's the first line of defense against rust jacking. Our new PermaGuard™ coating advances our successful coating technology to provide improved protection from the harsh environments that contribute to rust jacking," said Keith McComsey, Bendix director of wheel-end marketing and customer solutions. "And our confidence in PermaGuard is reflected in our new three-year warranty."

### **Reduced Stopping Distance (RSD) Compliant**

Since launching its remanufactured brake shoe operation in 2012, Bendix has assembled more than 5 million shoes and expanded the production capabilities and capacity at its Brake Shoe Remanufacturing Center in Huntington, Indiana. To help vehicle operators maintain performance of RSD-equipped vehicles (those built after 2011), Bendix offers both original equipment (OE) and aftermarket RSD-certified friction options.

The National Highway Traffic Safety Administration's RSD mandate, which took full effect in 2013, ushered in a new era of stopping requirements (under FMVSS-121) for drum brakes. When servicing RSD brakes, more and more vehicle operators are choosing remanufactured shoes with OE RSD-certified friction from a trusted original equipment supplier in order to preserve the vehicle's original stopping distance.

Demonstrating the popularity of Bendix reman brake shoes, the company's production levels have steadily increased annually to meet growing demand from fleets and owner-operators who want the powerful combination of optimum value, quality, performance, and compliance of their RSD brakes.

### **OE Quality**

Expanding on nearly four decades of remanufacturing expertise, Bendix significantly increased the capabilities and capacity of its Brake Shoe Remanufacturing Center in 2014. The center is part of the multisite Bendix manufacturing campus in Huntington.

"Rust jacking protection is about much more than a quality coating," McComsey said. "At Bendix, we also coin 100 percent of our reman shoes to return them to OE geometry and remove the gap between the shoe and friction, where rust jacking can initiate more easily."

According to McComsey, the combination of Bendix PermaGuard coating, along with coining and high flexural strength friction that resists cracking, adds even more rust-jacking

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protection. "It's a powerful combination delivering a longer lasting brake shoe that provides consistent brake performance and reduced maintenance costs," he said.

### **Full Support**

Bendix supports and advances its remanufactured brake shoe product portfolio through research and development conducted at the company's engineering center in Kalamazoo, Michigan, where it also performs ongoing comprehensive friction testing. The activities support and advance Bendix's remanufactured brake shoe product portfolio.

Bendix remanufactured shoes are further supported by field-tested sales and service professionals; a 100 percent ASE-certified field technical support team; and the Bendix Tech Team (at 1-800-AIR-BRAKE), an expert technical support group providing service advice, brake system troubleshooting, and product training. Customers can also log on and learn from the Bendix experts at [www.brake-school.com](http://www.brake-school.com).

The new Bendix multimedia center at [safertrucks.com/knowledge-dock](http://safertrucks.com/knowledge-dock) offers blog posts, podcasts, videos, and more on a range of trucking-related topics, including braking systems.

Bendix's ever-growing portfolio of wheel-end technology delivers on safety, plus other areas critical to fleets' success. By delivering complete braking solutions and robust post-sales support, Bendix helps improve vehicle performance and efficiency, lowering ownership costs and increasing highway safety. For more information, call 1-800-AIR-BRAKE (1-800-247-2725) or visit [www.foundationbrakes.com](http://www.foundationbrakes.com).

### **About Bendix Commercial Vehicle Systems LLC**

Bendix Commercial Vehicle Systems, a member of the Knorr-Bremse Group, develops and supplies leading-edge active safety technologies, energy management solutions, and air brake charging and control systems and components under the Bendix® brand name for medium- and heavy-duty trucks, tractors, trailers, buses, and other commercial vehicles throughout North America. An industry pioneer, employing more than 3,000 people, Bendix is driven to deliver solutions for improved vehicle safety, performance, and overall operating cost. Contact us at 1-800-AIR-BRAKE (1-800-247-2725) or visit [bendix.com](http://bendix.com). Stay connected and informed through Bendix expert podcasts, blog posts, videos, and other resources at [knowledge-dock.com](http://knowledge-dock.com). Follow Bendix on Twitter at [twitter.com/Bendix\\_CVS](https://twitter.com/Bendix_CVS). Log on and learn from the Bendix experts at [brake-school.com](http://brake-school.com). And to learn more about career opportunities at Bendix, visit [bendix.com/careers](http://bendix.com/careers).

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**About Bendix Spicer Foundation Brake LLC**

Bendix Spicer Foundation Brake LLC combines and expands the complementary wheel-end foundation brake technologies of two global leaders – Bendix Commercial Vehicle Systems LLC and Dana Commercial Vehicle Products, LLC. The joint venture, formed in July 2004, is a single, complete source for OEM brake system design, manufacturing, hardware, and support for all foundation brake components and actuation systems, as well as all-makes coverage of nearly 50,000 medium- and heavy-duty aftermarket parts. Contact us at 1-866-610-9709 or visit [foundationbrakes.com](http://foundationbrakes.com). Stay connected and informed through Bendix expert podcasts, blog posts, videos, and other resources at [knowledge-dock.com](http://knowledge-dock.com). Follow Bendix on Twitter at [twitter.com/Bendix\\_CVS](https://twitter.com/Bendix_CVS). Log on and learn from the Bendix experts at [brake-school.com](http://brake-school.com). And to learn more about career opportunities at Bendix Spicer Foundation Brake, visit [bendix.com/careers](http://bendix.com/careers).

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