

## **BENDIX® FOUNDATION DRUM BRAKE – Backgrounder**

These products – including the premium Bendix® ES™ (Extended Service) Single Anchor Pin design and High Performance ES™ Drum Brake – have a legacy of leading the North American market in drum brake innovation. Bendix Spicer Foundation Brake LLC (BSFB), a joint venture of Bendix Commercial Vehicle Systems LLC and Dana Commercial Vehicle Products, LLC, supplies Bendix® brand foundation drum brake products to the North American marketplace.

### **FEATURES/BENEFITS**

- BSFB is the only brake manufacturer to offer both single and Dual Anchor Pin foundation drum brakes to the original equipment market. The premium Single Anchor Pin product is currently available on trucks, tractors, and trailers. The Bendix® Dual Anchor Pin is available on trailers and specialty applications.
- The Bendix brake shoe coating is an electro-deposition paint process that offers the very best corrosion and rust jacking protection available.
- Single Anchor Pin product features include:
  - The ability to package more lining volume in the same drum size compared to Dual Anchor Pin designs
  - A patented, “Hot-Staked” shoe manufacturing process for improved quality and structural fatigue life
  - Longer lining arc and thicker lining blocks for the industry’s greatest lining volume vs. competitive designs
  - Premium, exclusive brake lining formulas for longer life
- Next-Generation Spiders:
  - Redesigned for improved durability while reducing weight
  - Design offering reduces overall complexity by reducing the amount of variation between packages
  - Direct replacement for drum spider predecessor

### **PERFORMANCE ENHANCEMENTS**

- **Improved Fade Resistance**
  - Innovations from our research helped develop a mix of high-performance steer axle friction with standard or wide drive brakes (depending on the application and OE) to meet Reduced Stopping Distance requirements. This resulted in drum brake designs which have significantly reduced fade, improved stopping distances, and maximized safety – exceeding NHTSA stopping distance requirements by 10%.
  - In addition to increasing brake life, Bendix “Wide Brake” packages also reduce brake fade and improve stopping distances.
- **Design Improvements** – Bendix Spicer Foundation Brake developed High Performance ES brake designs to help meet both phases of the Reduced Stopping Distance requirements. The models feature several enhancements, including: bronze bushings, precision camshafts; state-of-the-art lower fade lining formulations; and in some cases structural reinforcements to manage the higher braking loads.

### **APPLICATIONS COVERAGE**

- BSFB offers a full range of air drum brakes to fit heavy- and medium-duty truck, tractor, and trailer vehicle applications in North America. These include products with drum brake diameters from 12.25 to 20 inches, and widths from 4 to 10 inches.
- Bendix Spicer Foundation Brake is the Center of Excellence for drum brakes for the Knorr-Bremse Group – and is currently working worldwide to develop and launch new, improved designs for markets such as India, Asia, and South America – while fully supporting the high-performance demands of North American fleets, and enabling them to take advantage of total lower overall operating costs.

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