

## **BENDIX® FOUNDATION DRUM BRAKE**

### **Backgrounder**

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

### **FEATURES/BENEFITS**

- Bendix Spicer Foundation Brake is the only brake manufacturer to offer both Single and Double Anchor Pin foundation drum brakes to the original equipment market. The premium Single Anchor Pin product is currently standard on truck and tractor applications and optional on trailers. This product also accounts for the highest “pull through” volumes of any foundation drum product in North America. The Bendix Dual Anchor Pin is available on trailers and low volume, specialty applications.
- Single Anchor Pin product features include:
  - Reduced component stresses due to a larger anchor pin diameter and the cancellation of shoe forces within the pin (not in the spider/torque plate)
  - Superior internal geometry control with a fixed anchor pin
  - A patented, “Hot-Staked” shoe manufacturing process for improved quality and structural fatigue life
  - Reduced lining to drum pressures due to a longer lining arc
  - Premium, exclusive brake lining formulas for longer life, including new “Transfer Film” technology linings
- The largest U.S. truck fleets specify Bendix® Single Anchor Pin brakes. These fleets have found that, through statistical studies of their brake reline costs, the Bendix® ES™ (Extended Service) brake, in combination with new “Wide Brake” packages, typically increase the brake life of a highway tractor trailer over 25%, thus eliminating a significant number of brake relines within their fleets.

### **PERFORMANCE ENHANCEMENTS**

- **Stopping Improvements** – Bendix Spicer Foundation Brake has confirmed through extensive testing, that its current foundation drum brake is already capable of meeting the proposed NHTSA stopping distance requirements. This consists primarily of increasing the size of the drum brake installed on the steer axle of most trucks.
- **Improved Fade Resistance** - In addition to increasing brake life, the Bendix “Wide Brake” packages, when combined with premium low fade lining formulations, also reduce normal brake fade and high speed stopping distances.

### **APPLICATIONS COVERAGE**

- Bendix Spicer Foundation Brake offers over 32 models of air drum brakes to fit all 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.
- New foundation drum brake models are ready for introduction in 2007. Bendix Spicer Foundation Brake, as the Center of Excellence for drum brakes for the Knorr-Bremse Group, is currently working around the globe to develop new, improved designs for growth markets in areas such as Asia and South America.

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