

BENDIX® AIR DISC BRAKE
Backgrounder

Today's air disc brakes are dramatically improved over earlier versions when brake balance, brake fade and service replacement cost issues prohibited their broad acceptance. When traveling at 60 mph, Bendix® air disc brakes will stop up to 30 feet shorter than the current reduced Stopping Distance requirement for heavy trucks. Air disc brakes offer the shortest stopping distance possible of any brake design.

Bendix air disc brakes improve brake responsiveness with passenger car-like feel, provide exceptional stopping capability, and improve brake balance and wear.

PROVEN MARKET LEADER

- With more than 27 million air disc brakes on vehicles in Europe and another nearly 1.5 million—or more than 90% of the market—in North America, Bendix Spicer Foundation Brake and Knorr-Bremse are the undisputed market leaders.
- Bendix Spicer Foundation Brake LLC was among the first to manufacture air disc brakes in North America with the operation of a state-of-the-art production facility which began in 2005.

PERFORMANCE BACKED BY EXTENSIVE TESTING

- **Stopping distance advantage even more apparent at high speeds** – Only seven states have posted speed limits at or below 60 mph for commercial trucks, while 10 states allow trucks to travel at 75 mph. Bendix has tested tractors in compliance with FMVSS 121 procedures at 70 mph and tractors with Bendix® air disc brakes on all axles continue to outperform other technologies. .
- **“Disc and Drum Wear Balance” test data** – Our field test data suggests that an air disc brake-equipped tractor and drum brake-equipped trailer experiences no degradation in tractor disc pad wear or in trailer brake lining wear.
- **Exceptional Brake Fade Performance** – Mountain fade testing in Colorado on I-70, west of the Eisenhower tunnel, put Bendix brakes to the test over an 8 mile stretch on a 7 percent grade, virtually eliminating brake fade and with no degradation in stopping power.
- **Greater Stability During Stops** – The Bendix air disc brake system's inherent high efficiency (95%) and low hysteresis (<9%) mean there is a negligible difference between the left side and right side brake performance, and that pressure is being applied constantly and efficiently to all wheels. The result? The vehicle more easily comes to a straight, stable stop.
- **Labor and Maintenance** – Easy access to the air disc brake pads allows pads to be changed in on quarter the time it takes to change drum brake shoe and lining assemblies once the wheels have been removed. This means maintenance costs and downtime are significantly reduced.

For more information, contact:

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