

# Air Disc Brakes For Commercial Vehicle Applications

SAFETY



## **Air disc brake innovation that never stops.**

With decades of accumulated expertise in air disc brake technology, Meritor WABCO has emerged as the clear-cut innovation leader – delivering solutions that continue to set standards in safety, performance, durability, ease of maintenance and cost-efficiency.

Our rich history in air disc brakes began in 1981 with the introduction of our first ArvinMeritor air disc brake. Our pioneering spirit has driven us to bring innovation after innovation to the industry ever since, including the introduction of our twin-piston air disc brake (EX225) in 2000.



## **The right solution for your application.**

Available for many North American axle/suspension combinations, you'll find a Meritor WABCO product that's optimized for your application.

The EX225 is ideal for specialty vocational applications such as bus, fire, emergency, military and heavy linehaul. The MAXXUS is designed for linehaul and medium-duty highway tractors. And our PAN family of brakes offers outstanding performance for linehaul trailers.

Whichever Meritor WABCO product you choose, you can count on the ultimate combination of safety, performance and value.

Here are just a few advanced features that set Meritor WABCO air disc brakes apart:

- Brake solutions for all vehicle applications (17.5", 19.5", 22.5" and 24.5")
- 20% to 30% better stopping performance and improved fade resistance over drum brakes
- Thicker pads mean enhanced durability and longer service intervals
- Proven durability and reliability for lower life cycle costs
  - Longer pad and rotor life
  - Less time to replace pads
  - Environmental sealing integrity
- Optional radial and axial mountings, rotor and pad shields and visual and electronic wear indicators
- Lightweight ductile and aluminum hub and rotor packages
- Integrated service, double diaphragm spring brake and piston-style actuators



### **MAXXUS for highway tractor and truck applications.**

The MAXXUS is built on proven technology – featuring a patented single-piston design to enhance operational efficiency, extend service intervals and reduce service cost. At 82 pounds, including pads, the MAXXUS allows increased payload capacity and potential fuel savings.



### **MAXXUS benefits include:**

- Operational savings due to lighter weight and increased payload capacity
- Increased pad thickness provides additional pad volume and longer life
- Overall installation package meets OEM requirements
- Engineered for increased operational performance and reduced impact to vehicle chassis
- Service-friendly with radial pad change and factory-sealed lubrication
- Newly designed monobloc caliper and a new reinforced single-piston clamping unit, which enables high brake torques
- Key components are protected by redundant sealings; the guiding system is additionally protected by stable metal caps
- Brake caliper features an advanced surface coating
- Frame-type carrier with radial mounting
- Inboard and outdoor pad rest in the brake carrier
- Fewer components increase reliability and reduce weight
- Spreader plate shields the piston boot from high thermal stress
- PAN hold-down system
- Available Continuous Wear Sensor (CWS)

## **EX225 for commercial specialty vocational applications.**

The EX225 air disc brake combines higher-performance braking in a robust, heavy-duty product package. Designed especially for specialty/vocational applications, the EX225 offers high-torque capability and superior pad volume and swept area. The guided twin-piston design and double sealing offer high reliability and improved brake pad life.



### **EX225 benefits include:**

- Available in a variety of sizes and configurations for applications requiring flexible adaptation such as emergency, transit, refuse and military
- Axial, radial and tangential brake/chamber configurations
- Proven global platform with superior design and performance in the toughest environments
- High power-to-weight ratio delivers maximum stopping performance
- Superior resistance to fade during frequent stops and prolonged use
- Caliper structure is designed for the high clamping loads necessary for high-level performance
- Internal adjusting mechanism monitors and maintains pad-to-rotor clearance

- Key components are protected by redundant sealings; the guiding system is additionally protected by stable metal caps
- Brake caliper features an advanced surface coating
- Spreader plate shields the piston boot from high thermal stress
- A range of electronic and visual pad-wear sensor options improve pad inspection
- Easy to maintain – no special tools required for pad replacement
- 80% of components are common to all brakes for optimum serviceability





**PAN Range for commercial vehicle trailers.**

Designed specifically for trailer applications, the PAN family of brakes combines best-in-class braking torque output with low weight, long pad life and low cost of ownership. The single-piston design is compact for easy axle adaptation in a variety of applications. The PAN Range delivers excellent field performance, maximum payload, easy axle adaptation and simplified maintenance.

**PAN Range benefits include:**

- Thicker pads offer longer service intervals and lower maintenance costs
- Encapsulated guiding system with protective metal
- Brake caliper features an advanced surface coating
- Spreader plate shields the piston boot from high thermal stress



**Air disc brakes that give you an air of confidence.**

Meritor WABCO air disc brakes draw from a rich heritage of innovation to bring you the most advanced solutions in the industry – solutions that deliver increased stopping power, optimum safety, longer life and lower life cycle costs. And it's all backed by world-class service and support. For more information, call our customer service team at 800-535-5560 or visit [meritorwabco.com](http://meritorwabco.com).

**Air Disc Brake Offerings**

Technical Data Per Type	EX225	MAXXUS	PAN 22	PAN 19	PAN 17
Disc Dimension	17" x 1.8"	17" x 1.8"	17" x 1.8"	14.8" x 1.8"	13" x 1.3"
Pad Surface Area		53 in <sup>2</sup>	53 in <sup>2</sup>	45 in <sup>2</sup>	37 in <sup>2</sup>
Pad Thickness		0.87"	0.91"	0.83"	0.75"
Weight (Including Pads)	98 lbs	82 lbs	79 lbs	71 lbs	
Minimum Rim Size	22.5"	22.5"	22.5"	19.5"/22.5"	22.5"
Gross Axle Weight Rating	31,000 lbs	26,000 lbs	22,000 lbs	19,500 lbs	15,500 lbs

# MERITOR WABCO

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