



# FASTBRAKE®

## ELECTRONIC AIR BRAKE



### NEXT GENERATION BRAKE SYSTEM

FastBrake Electronic Air Brake is the latest generation of over 150 years of Wabtec braking systems for the rail industry.

FastBrake Electronic Air Brake is a microprocessor based, electro-pneumatic braking system. Designed for superior reliability, the system includes tightly integrated electronics and pneumatics, redundant electronics, dual channel power supply, and reduced part count. With over 6,000 systems installed globally, FastBrake® is service-proven and backed by Wabtec's global service and support network.

# 6,000+

Systems in service

# 20+

Countries

### BENEFITS



High Performance,  
High Reliability



Reduced Maintenance  
Costs

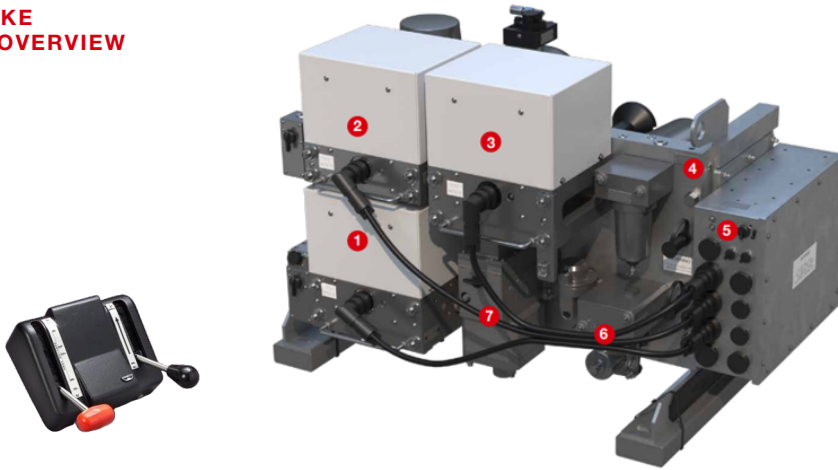


Easy to Maintain



Scalable Across Fleets,  
Countries, Regions

## FASTBRAKE SYSTEM OVERVIEW



- 1 Brake Pipe Control
- 2 Independent Apply & Release
- 3 Brake Cylinder Control
- 4 Filter
- 5 Power Supply & Loco Interface
- 6 Manual Cut-Out & Regulator
- 7 Pneumatic Back-up

### KEY FEATURES

#### High Reliability

- Redundant electronics and power supplies
- One piece manifold improves reliability over traditional two piece glued laminated manifold plates
- CAN bus interface to modules and brake handle provides robust communications with integrated error detection and correction
- Wide operating temperature: -55C to 70C

#### Flexibility

- Can be integrated with Distributed Power (DP) and Electronically-Controlled Pneumatic (ECP) braking applications
- Design configurations support both one pipe or two pipe locomotive pneumatic interconnection as well as single or dual cab control

#### Easy to Maintain

- Compact modular design with fewer components
- Advanced diagnostics, active and passive
- Digital calibration of transducers
- Automatic downloading of module software; includes built-in validation of correct software

### SYSTEM COMPONENTS

The system features two major components, the Pneumatic Operating Unit (POU) and the Handle Controller Unit (HCU).

#### Pneumatic Operating Unit (POU)

Comprised of (4) Subassemblies

- Brake Pipe Portion Control (BP)
- Brake Cylinder Control Portion (BCP)
- Independent Application & Release (IAR) or Brake Cylinder Equalization (BCE) Portion Options
- Power Supply Unit

#### Handle Controller Unit (HCU)

- Available as Desktop "30" or Standalone "26" with Display
- Magnetoresistive, non-contacting position sensor technology
- Desktop or side mount handle options and compatible with all cab design configurations

### CONTACT

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