



# DIGITAL-ELECTROMECHANICAL BRAKING SYSTEM

The Knorr-Bremse digital-electromechanical braking system (EMB system) is a paradigm shift in the fundamental principles of braking in rail vehicles. Unlike today's pneumatic or hydraulic braking systems the EMB system uses advanced brake-by-wire technology to transmit braking signals and generate brake force. Thereby it sets new standards of efficiency, reliability, and performance.



## Active system

System control in all modes incl. backup without necessity of mechanical or hydraulic element



## Safety

Meets all customer requirements of today's braking systems



## Complete system

Provides brake control, brake energy and brake actuation



## Cybersecurity

According to the state of the art



## Brake-by-wire

Purely electrical generation and transfer of braking signal and energy



## Central enabler for airless train



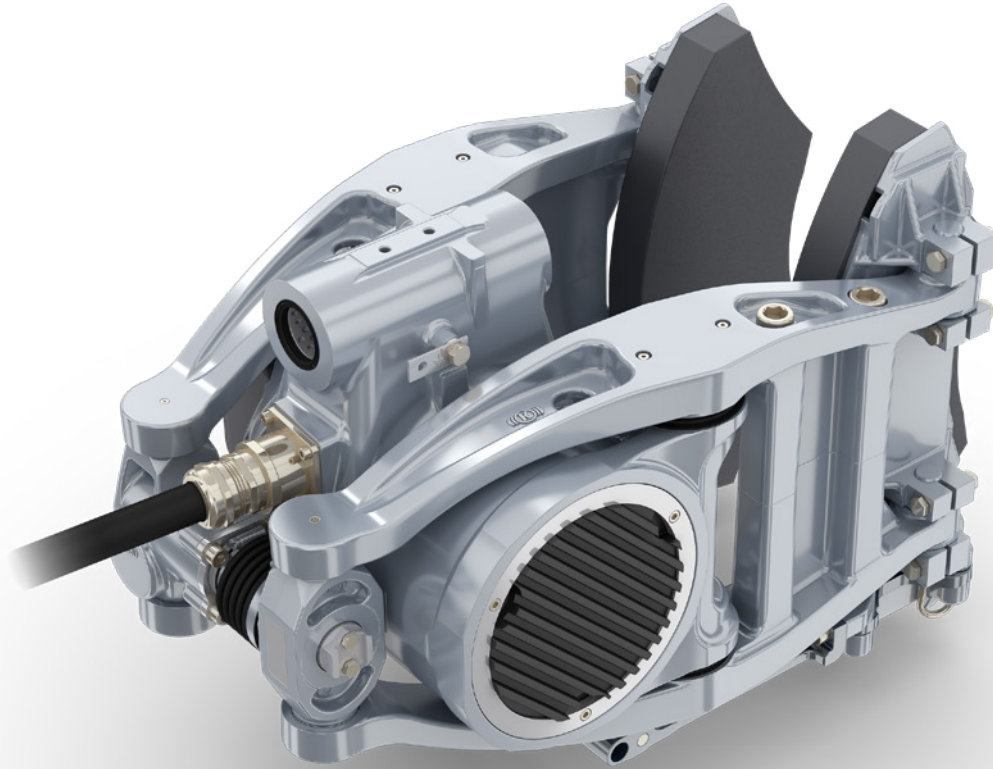
## TSI-conformity

Technical specifications of interoperability



**KNORR-BREMSE**

## Digital-electromechanical brake caliper



### Knorr-Bremse Systeme für Schienenfahrzeuge GmbH

Moosacher Straße 80  
80809 Munich  
Germany  
Phone: +49 89 3547-0  
Fax: +49 89 3547-2767  
rail.knorr-bremse.com



 **KNORR-BREMSE**

 **NEW YORK AIR BRAKE**

 **IFE**

 **MERAK**

 **MICROELETTRICA**

 **SELECTRON**

 **EVAC**

 **ZELSKO**

 **RAILSERVICES**