Applying brake force directly to the rail. Track brakes from Knorr-Bremse offer performance and reliability demonstrated by extensive in-service operation around the world.

**CUSTOMER BENEFITS**
- Do not rely on wheel/rail adhesion, deliver additional braking
- Still provide high braking force even under poor track conditions
- The total deceleration can be increased safely
- Braking force applied directly to the rail
- Always provide their maximum braking force
- Track cleaning effect of the brake magnets can increase the wheel-rail adhesion. This leads to an improvement also for the wheel-effective brake systems.

**APPLICATIONS**
- High-speed trains
- Intercity passenger coaches
- Regional commuter trains
STANDARD TRACK BRAKE CONFIGURATION
Example of MTB designs applied to cross-border long-distance, main line and high-speed traffic

TECHNICAL DATA
STANDARD TRACK BRAKE
- Attractive force: 2x84 kN = 168 kN per unit
- Effective braking length of magnet: 1052 mm
- Width of magnet: 130 mm
- Minimum height of magnet: 136 mm
- Total weight: 450 kg per unit
- Power requirement: 1200 W per magnet

FUNCTION
Magnetic track brakes (MTB) are magnetically attracted to the rails. Brake force is built up by using the friction between magnetic track brake and rail. Rapid braking, automatic braking and also emergency braking are typical tasks for MTBs.

EXAMPLE ARTICULATED TRACK BRAKE
Example of MTB designs applied to a regional/commuter train

RANGE OF USE
The MTB is activated automatically in case of emergency braking and should also be activated under low adhesion conditions and on steep descents.

MODULAR MAGNETIC BRAKE CONTROL (MMBC)
- Modular system for all supply voltages
- Self-contained control of MTB
- Automatic braking test
- Supports condition-based maintenance

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