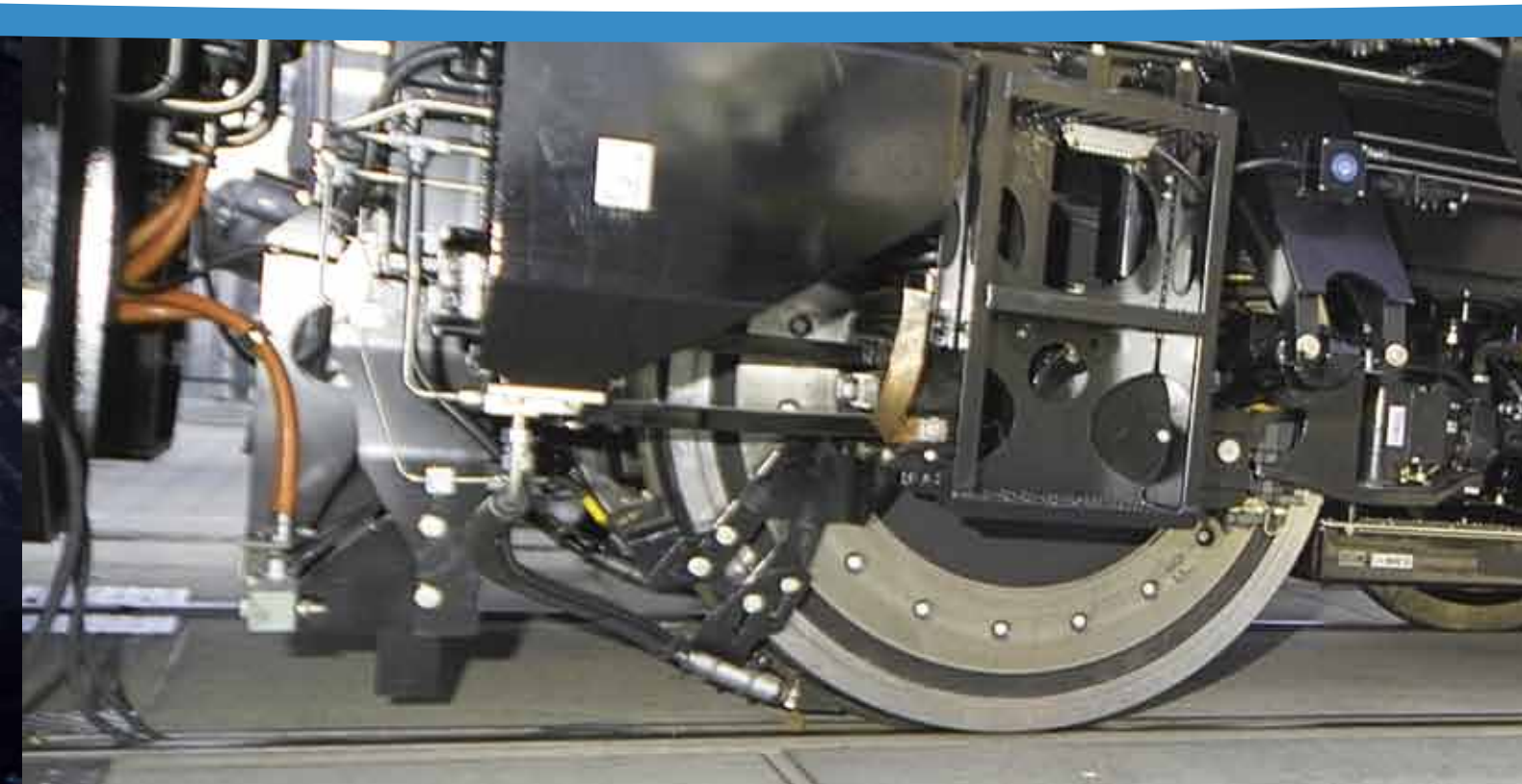


Sanding systems



Application

- Metros
- Trams
- Multiple Units
- High-Speed Trains
- Control Coaches
- Locomotives



FULL ADHESION FOR ALL WEATHER CONDITIONS

Sanding systems play an important role in urban transport systems because of frequent vehicle braking and start-off. It is therefore important for systems to perform reliably, especially in wet and cold weather conditions. Increased system's efficiency leads to reduced operating costs. In addition, particle emissions can be minimised by exact dosage of the sand quantity used.

HIGH EXPECTATIONS WITH STANDARD AND UPGRADE OPTIONS

Knorr-Bremse has invested significantly over several decades in research and development of eco-friendly sanding systems. Some years ago it developed an ingenious traction management system that governs the sand dosage to be provided for specific operational conditions. Modular options additionally contribute to more system efficiency and reliability. Loosening and drying of the entire sand box content means the sand continues flowing whatever the climatic conditions are. The heatable sand pipe always remains open at low temperatures.



THE MODELS

Knorr-Bremse offers five basic types of sanding system with a significant modular diversity.

For street cars without central air supply:

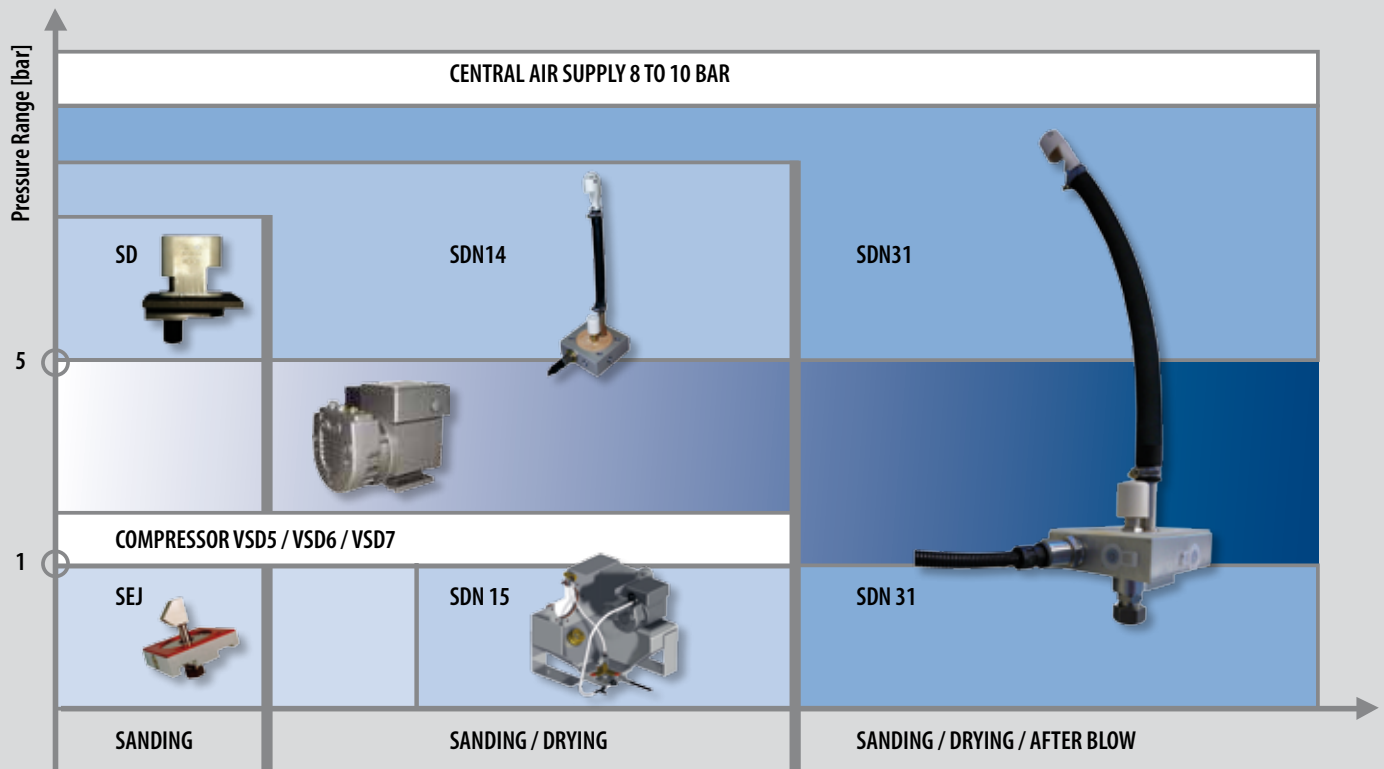
- **Bi-directional sanding system with compressor (Type SEJ):**
optional drying of sand reserve in lower area of sand box
- **Uni-directional sanding system with compressor (Type SDN15):**
drying of entire sand box content, heated sand pipe, rotary vane-type compressor either with direct current motor or with maintenance-free electrical commutated synchronous motor
- **Uni-directional sanding system with compressor (Type SDN31):**
as Type SDN15, but with intermediate pressure compressor instead of rotary vane-type compressor and optional blowing-out function

For rail vehicles with central air supply:

- **Conventional sanding system (Type SD):**
without drying, after-blow and heating function, no adjustment according to speed
- **Uni-directional sanding system without compressor (Type SDN31):**
as for street car systems but with air pressure supply through pneumatic main reservoir pipe



SANDING SYSTEMS



Rail Vehicle Systems

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