



TEST BENCHES

Knorr-Bremse delivers CE-Certified test benches, especially developed for Knorr-Bremse components, to facilitate maintenance and overhaul work and ensure component quality and operational reliability for all types of railroad vehicles. The whole portfolio tests under end of line test instruction (PRF), assuring quality and comparability to original new parts.



Highlights

- Custom-made test benches according to required testing scope and customer demands
- Software updates and services on demand
- Training and service are offered to support our customers on their daily business in collaboration with Knorr-Bremse Rail Customer Service network



Applications

- Freight Trains
- High-Speed Trains
- Light Rail Vehicles
- Locomotives
- Metros
- Passenger Trains
- Regional and Commuter Trains



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Universal Test Bench

The test bench is used for the functional testing of multiple components in one single device. The design consist of a basic module and extension modules, that can be configured and extended according to the customer testing scope. This custom-made configuration makes it ideal for overhauling workshops with limited space. The testing is manual or automatic depending on the unit under test.

Testing Scope: Multi valve testing scope (Cock-, Stop-, Drain-, Shut-Off-, Magnet-, Impulse-, Piston-, Safety-, Levelling-, Anti-Skid-, distributor-, Deadman's – Valves, brake control modules, parking brake modules, ...)



BCM Tester

The test bench is used for the functional testing of complete brake racks and their modules on customer side. The design consist of a control cabinet, an external vessel and a pneumatic module (configurable and extendable depending on customer requirements). The testing procedure is software-controlled. Extension of testing scope is possible acquiring new test adapters and software updates.

Testing Scope: Brake panels and its modules



Compressor Test Bench

The test bench is used for the automatic testing of compressors, auxiliary compressor and air supply units. The design consist of a control cabinet and separate testing cabinet, that allows the testing to be performed in a separate chamber (for noise reduction or temperature control). Extension of testing scope is possible acquiring new test adapters and software updates.

Testing Scope: Compressors (VV Serie, VV-T until VV270, V10T, LP115) and related ASU Compressors (Serie SL) and related ASU



Tread Brake / U cylinder Test Bench

The test bench is used for functional testing of tread brakes with single or double block and U cylinder units. Both manual or semi-automatic design configurations are available. The test bench can test under Chinese TJ/CL308 CRCC/CURC regulation. Extension of testing scope is possible acquiring new test brackets and/or software updates.

Testing scope: All tread brake units (PEC7, PC7, KLX7, ...) without brake blocks and all brake cylinders (UF, UP, ...)



Brake Caliper Test Bench

The test bench is used for functional testing of compact brake caliper units. Both manual or semi-automatic design configurations are available. The test bench can test under Chinese TJ/CL308 CRCC/CURC regulation. Extension of testing scope is possible acquiring new test brackets and/or software updates.

Testing Scope: All compact brake calipers WZK..., RZS... without brake pads



Hydraulic Unit Test Bench

The test bench is used for the functional and leakage testing of hydraulic units. The design consist of a hydraulic bench, a control cabinet and a power unit. The testing procedure is software-controlled. Extension of testing scope is possible acquiring new test brackets and software updates.

Testing Scope: All hydraulic-electric units: the Hydraulic electric unit types can be excluded



Hydraulic Actuator Test Bench

The test bench is used to perform functional and leakage testing in hydraulic brake calipers and hydraulic brake cylinders. The hydraulic unit is integrated in the test bench, what makes the design compact and ideal for overhauling in workshops with limited space. The testing procedure is software-controlled. Extension of testing scope is possible acquiring new test brackets and software updates.

Testing Scope: hydraulic brake calipers and hydraulic brake cylinders



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