



# *Brake Testing Equipment*



## **APPLICATIONS**

Freight Cars | Passenger Coaches | Switchyards

**KNORR-BREMSE**



# EFFICIENCY AND SAFETY ON THE RAILS



## EFFICIENT RAIL FREIGHT AND PASSENGER TRANSPORTATION PLAYS A VITAL ROLE IN THE ECONOMY

and logistics companies are always trying to find ways of transporting goods faster and more cost effectively. Stationary brake testing can make an important contribution towards increasing the efficiency and flexibility of vehicle brake checks, helping to keep trains in service and safe.

### SAFETY

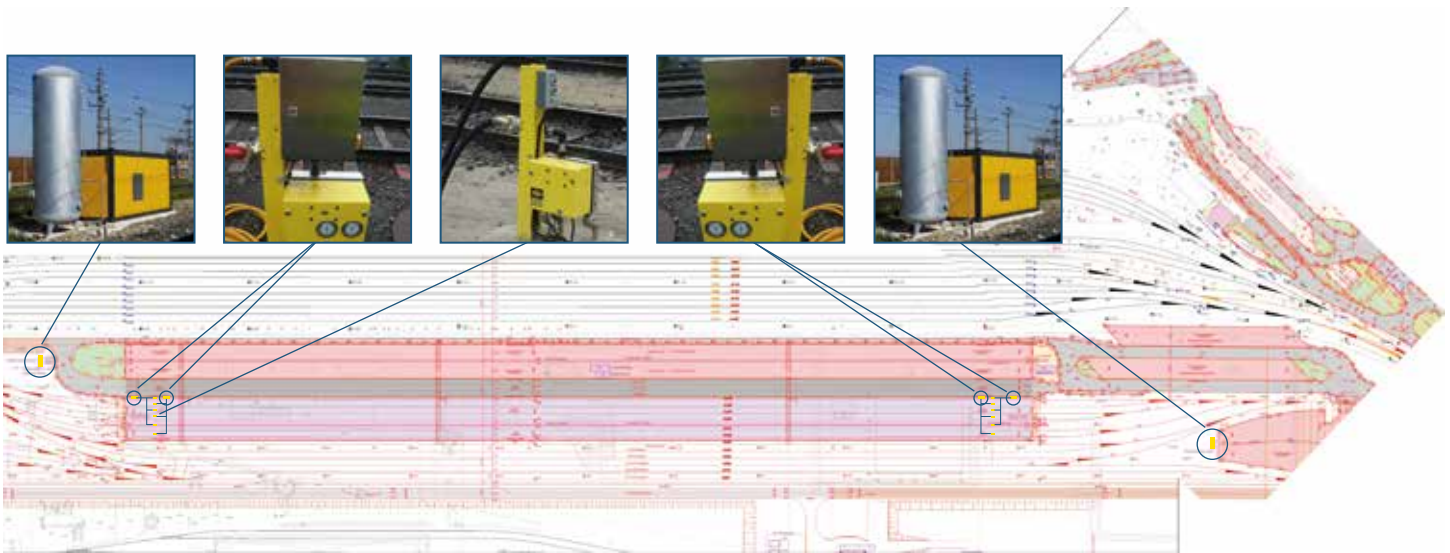
The brake test carried out on a new trainset is crucial element in ensuring the safety of rail operations. Even mainline passenger trains have to regularly test vehicle brakes – but only a comprehensive test can help to minimize the risk of an accident due to brake failure. There is a need to find more efficient and economical ways of carrying out brake tests. If stationary testing equipment is not available a locomotive has to be used for testing. This could take up to 1.5 hours – during which time the locomotive could have pulled a freight train some 100 kilometers!

### POTENTIAL SAVINGS

An average brake test including filling takes about 75 minutes, during which, if there is no stationary testing equipment available a locomotive and a driver are required throughout. With a Knorr-Bremse brake testing unit, the locomotive and the driver are only required for the simplified test (approximately 15 minutes). The overall testing time can be also be reduced.

### ADVANTAGES

- Consistent high-quality brake testing
- Favorable life-cycle costs
- Extremely flexible
- User-friendly
- Low-cost remote control if wireless infrastructure is not available



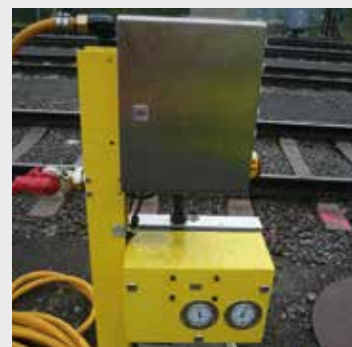
## FEATURES

- Reduction of filling time by approximately 30%
- Efficient testing by one person only
- Precise, automatic leak testing of brake pipe with reporting of test results
- Pressure-maintaining of pressure during braking in line with UIC guidelines
- Computer-controlled pressure settings ensure consistent testing conditions

- Release process followed by low pressure filling period
- Testing can be started, interrupted, repeated and terminated at any time – even remotely
- Leak-testing of main reservoir pipe
- Equalizing
- Rapid braking
- Railway proven components
- Easy-maintenance design
- Rapidly replaceable units (quick-release connectors, flangeable valves, plug-in electronic modules, etc.)

## REMOTE-CONTROL CONCEPT

Various wireless control systems have been developed, the most modern version using existing mobile networks and heavy-duty cell phones. Other solutions (e.g. based on existing wireless units) are possible and have already been implemented.





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