

# HAKAN

AUTOMATIC BRAKE TESTER  
OF

**RAILWAY VEHICLES**

FREIGHT CARS  
PASSENGER CARS  
LOCOMOTIVES

**BRAKE COMPONENTS**

DISTRIBUTORS  
RELAY VALVES  
AIR BRAKE VALVES

**MEET THE REQUIREMENTS OF**

UIC  
VPI  
DB  
SNCF

**COMPATIBLE WITH**

KNORR BREMSE  
DAKO  
SAAB WABCO  
WESTINGHOUSE  
OERLIKON  
CHARMILLES

# BRAKE TESTER HAKAN

The company CRESSTO Ltd. have been dealing with the problems of measuring brakes and brake components of rail vehicles for more than 15 years. During this time, with the help of leading experts in the branch, we have developed a universal, user-configurable device for objective diagnostics and evaluation of rail vehicles brake systems called HAKAN S. This device enables brakes measuring directly on the vehicle, but also on the testing bench. The indicator of satisfaction of our customers and the quality guaranty as well is the fact that till September 2013, 50 pieces of testing devices HAKAN S have been produced and all of them are still in full operation.

Precision, practicality and versatility are concerned during the development and production. HAKAN S is placed in an aluminium, lightweight, yet resistant box with bantam wheels. This enables the operator big flexibility and mobility. The number of 10 pressure inputs is fully sufficient for measuring the complete brake of the vehicle with two independent distributors and three brake cylinders with braking according to the freight. HAKAN S can be controlled by any PC, laptop, tablet or other mobile device working on the platform of Windows XP or a newer one. The software HAKAN is very open and user-configurable, compatible with brake systems of all world leading producers. The user can define an arbitrary measuring procedure, corresponding with the required regulation or provision (UIC, VPI, ČD, DB, SNCF, etc.) and assemble an arbitrary protocol with the possibility of saving graphic profiles of single pressures. The HAKAN system can be fully calibrated and the application software contains all necessary routines for calibration. Calibration can be made directly at the workplace and lasts maximum several tens of minutes.

HAKAN is a modern device, enabling the operator comfort of automatic diagnostics, it has a positive influence on the increase of productivity of labour and primarily, it provides the user full repeatability and document demonstrating of all results of measuring. The test results are saved into the operating device or directly into a specified database. This fully corresponds with the present requirements for production, operating and mending of rail vehicles.

