



TEST ENGINEERING
MECHATRONICS

Braking System

Fluid Transfer

Transmission

Car interior



Braking System

Booster and Master Cylinder Test Benches



SDI Booster and master cylinder Test Systems are designed to provide high quality and cost effective solution to test endurance and characterization of master cylinder and booster. The tested products are put under mechanical and thermal stress.

- Durability and characterization under climatic chamber.
- Electrical actuator for generating braking pressure
- Any types of electric and pneumatic booster can be tested

Clean electrical solution

The electrical actuator of the Booster and Master Cylinder Test System simplifies maintenance of equipment and guarantee a perfect repeatability of the measurements.

The electrical actuators are entirely controlled in position and pressure and allow precise control of the constraints applied to the products under test.

Thermal chamber

The products are tested in a thermal chamber in order to simulate the climatic conditions of use inside the car. The thermal cycles are controlled by software.

Automatically the test bench runs the full test of the norm (like for example SAE J1808).

ABS stimulation

Endurance tests can include ABS stimulation cycles in order to accelerate the aging of the product.

Absorption

A mechanical system is installed for adjusting the brake absorption permitting to be near of the vehicle conditions of use.

Reports and Graphical analysis

The data analysis software allows to generate automatic report on the tested products. Custom reports can be realize by yourself or the SDI standard reports can be used. Customizable drawings and calculations can be include in the report.

SDI is a test engineering company offering reliable and innovative solutions in test systems and mechatronics. Our solutions include the provisions of test systems, software and services ranging from your needs' definition to the installation and the analysis of the test's results. We are here to help you conceive products that precisely answer norms, quality and reliability constraints set by your clients. SDI complies with the ISO - 9001 : 2008 norm. SDI is also committed to sustainable development. The company is an active member of the Environmental Managers Network and has put in place ISO 14001 environmental controls.



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