ABS HCU Performance Test Stand











Product **Overview**

The ABS HCU Performance Test Stand has a primary focus of Performance testing of ABS (Antilock Braking Systems) Modulators in the brake systems for automotive applications. This particular test bench is targeted for the 2 to 3 wheeler vehicle industry.

The ABS HCU Performance Test Stand provides open-loop testing of motorcycle single channel and dual channel ABS systems. The advanced features of our ProLINK software control the operating functions performed on the test stand; including selection of test parameters, control modes, display of pertinent data, monitoring of all test functions, execution of selected test sequences, and review of data.

Key Features

- Our system also includes a programable power supply for the HPC motor control.
- Insulated Test Enclosure Rated for -40 deg C to 120 deg C
- Internal chamber temperate monitoring
- Single air / oil apply system to generate the hydraulic pressure to the test components.
- compliance cylinders simulating brake calipers.
- Independent flowmeters and a pressure transducers monitored by the data acquisition system.
- 4 Liter Brake Fluid reservoir
- A vacuum degas function will be generated to maintain the brake fluid reservoir free from air or humidity.
- Power Brake Bleed System
- ProLINK Control System
- Custom fixturing for variety of ABS module designs





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Test Procedures / Capabilities

- This LINK Performance bench can perform the following tests on these emerging single and dual channel ABS and HCU (hydraulic control units):
- Apply Valve Leak Performance at low and high pressure
- Base Brake Circuit Leak Performance Forward and Reverse Secondary to Primary
- Pressure Test with Compliance Cylinders
- HCU Motor Current/ speed and step response
- Pressure drop and rise time response
- HCU Pump Capability Performance
- ALL tests are run in a contained environmental chamber (-40 C to 120 C)

Options

- Solenoid valves on output lines for automatic bleeding function
- Portable Conditioning Unit for environmental control
- ABS Motor speed estimate via current ripple analysis





Specifications

Number of Stations	2
Power Supply	4.5 Vdc - 14.5 Vdc at up to 10 A.
Size	5.5 ft x 4.2 ft x 6ft
Interior Chamber	820 mm x 700 mm x 900 mm
Max Brake Pressure	206.8 bar (3,000 psi)
Max Pressure Ramp Rate (R)	100 bar/s (1450 psi/s)
Displacement Volume Capacity	40 cm³ (2.45 in³)
Flow Meters	0.005 to 200cc/min
Computer System	Microsoft® Windows® 10 x64 bit Pro edition



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