SCIENTICO INDIA
Manufacturer & Exporter · Ambala, Haryana, India

PRODUCT DATA SHEET
Catalogue reference for product evaluation

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ABS Braking System Training Board Simulator | Torquemaster-30

Category: Automobile Engineering Lab Equipment · **Order Code:** TORQUEMASTER-30 · **Country of Origin:** India

Product Overview

ABS Braking System Training Board Simulator Torquemaster-30 is a fully functional ABS electronic braking system mounted in a mobile aluminum frame. Built by a specialist ABS Braking System Training Board Simulator manufacturer, this unit features a cross diagonal hydraulic braking system with front and rear discs and calipers, a functional parking brake, ABS system, and brake booster. Pressure gauges monitor each wheel circuit, and OBD 16-pin diagnostics support fault code reading, live data display, and ECU identification. It runs on a 12V battery or 220/12V power supply and weighs approximately 60kg.

View this product online: https://scienticoindia.com/product/abs-braking-system-training-board-simulator-torquemaster-30/



Request a model-specific quotation
Include quantity and delivery country.

Technical Specifications

ABS Braking System Training Board Simulator Torquemaster-30 — Technical Specifications

Parameter	Value
Frame	Mobile aluminum frame
Wiring	Electric wiring diagram with built-in banana plug jumpers for measurements and simulation of system's fault codes
Braking System	Fully functional, clearly visible components
Hydraulic System	Cross diagonal hydraulic braking system with front and rear discs with calipers
Parking Brake	Functional
ABS System	Functional electronic ABS system
Brake Booster	Functional
Pressure Monitoring	Installed pressure gauges monitor pressure in brake circuit of each wheel
Driving Mode	Driving mode simulation
Use Case	Brake rigs for mechanical service and repair training
Diagnostics	On-board diagnostic capabilities
Diagnostic Connector	OBD 16-pin diagnostic connector
ECU	Electronic control unit (ECU) identification
Fault Codes	Reading/erasing fault codes

Parameter	Value
Live Data	Displaying operating system parameters (live data)
Actuator Activation	Depends on the control unit
Pressure Circuit Design	Original hydraulic brake system; brake pads of brake drums used instead of brake discs to show pressure rise and braking moment onset
Operation Display	Hydraulic circuit operation shown on stand in pictures in different modes
Power Supply	12V battery or 220/12V power supply unit
Diagnostic Equipment	Automotive oscilloscope, OBD diagnostic scan tool
Length	1360 mm (approx.)
Width	550 mm (approx.)
Height	1800 mm (approx.)
Weight	60kg (approx.)

Technical Data

Braking System

Parameter	Value
Type	Cross diagonal hydraulic braking system
Components	Front and rear discs with calipers
Parking Brake	Functional
ABS System	Functional electronic
Brake Booster	Functional

Pressure Circuit

Parameter	Value
System	Original hydraulic brake system
Note	Brake pads of brake drums used instead of brake discs, to show pressure rise and braking moment start
Display	Hydraulic circuit operation shown on stand in pictures in different modes

Power Supply

Parameter	Value
Option 1	12V Battery
Option 2	220/12V power supply unit

Diagnostic Equipment

Parameter	Value
Automotive Oscilloscope	Included
OBD Diagnostic Scan Tool	Included

Dimensions and Weight

Parameter	Value
Length	1360 mm (approx.)

Parameter	Value
Width	550 mm (approx.)
Height	1800 mm (approx.)
Weight	60kg (approx.)

Key Features

Key Features

- **Wiring Diagram:** Built-in banana plug jumpers for measurements and simulation of fault codes
- **Visibility:** Clearly visible fully functional braking system and components
- **Hydraulic System:** Cross diagonal, front and rear discs with calipers
- **Parking Brake:** Functional
- **ABS System:** Functional electronic ABS system
- **Brake Booster:** Functional
- **Pressure Monitoring:** Installed pressure gauges for main and individual wheel circuits
- **Driving Simulation:** Driving mode simulation available
- **Training Use:** Suitable for mechanical service and repair training
- **Diagnostics:** On-board diagnostic capabilities via OBD 16-pin connector
- **ECU Function:** Electronic control unit (ECU) identification
- **Fault Code Handling:** Reading/erasing fault codes
- **Live Data:** Displaying operating system parameters
- **Actuator Activation:** Depends on control unit
- **Manufacturer Standard:** Built by a trusted ABS Braking System Training Board Simulator manufacturer for classroom and workshop training

Construction and Design

The ABS Braking System Training Board Simulator Torquemaster-30 is a fully functional ABS electronic braking system installed in a mobile aluminum frame. The training board is equipped with a functional ABS braking system. Installed pressure gauges make it possible to monitor pressure in the main brake circuit and the individual pressure of each wheel. The training board is equipped with an original hydraulic brake system. Brake pads of the brake drums are used instead of brake discs, to better show when pressure rises and the braking moment starts. Operation of the hydraulic circuit is shown on the stand in pictures in different modes. The system includes a cross diagonal hydraulic braking system with front and rear discs and calipers, a functional parking brake, a functional electronic ABS system, and a functional brake booster. An electric wiring diagram with built-in banana plug jumpers allows measurements and simulation of fault codes. Diagnosis is performed through an OBD 16-pin diagnostic connector, supporting ECU identification, reading/erasing fault codes, and displaying live operating system parameters. Actuator activation depends on the control unit. The unit runs on a 12V battery or a 220/12V power supply unit and works with an automotive oscilloscope and OBD diagnostic scan tool. As a specialist ABS Braking System Training Board Simulator manufacturer, SCIENTICO designs this construction to give students a clear, hands-on understanding of ABS system structure and diagnostics.

Required for Operation

- 12 V Battery or 220/12 V power supply unit
- Automotive oscilloscope
- OBD Diagnostic scan tool

Ordering & Delivery

- Send the product name, quantity, delivery country and destination with your enquiry.
- Production schedule, freight, payment terms and export documents are confirmed in the written quotation.

Frequently Asked Questions

Q: What is the ABS Braking System Training Board Simulator Torquemaster-30 used for?
A: It is used to demonstrate the structure and operation of an ABS braking system, allowing students to study components, perform

measurements, tests, and diagnostic procedures, and to train in brake system repair and service.

Q: What braking system components does the unit include?
A: A cross diagonal hydraulic braking system with front and rear discs and calipers, a functional parking brake, a functional electronic ABS system, and a functional brake booster.

Q: What diagnostic capabilities does the training board offer?
A: On-board diagnostics through an OBD 16-pin diagnostic connector, including ECU identification, reading/erasing fault codes, displaying live operating parameters, and actuator activation depending on the control unit.

Q: What is required to operate the unit?
A: A 12V battery or 220/12V power supply unit, an automotive oscilloscope, and an OBD diagnostic scan tool.

Q: What are the dimensions and weight of the unit?
A: L x W x H (approx.): 1360 x 550 x 1800 mm, weight (approx.): 60kg.

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