SCIENTICO INDIA
Manufacturer & Exporter · Ambala, Haryana, India

PRODUCT DATA SHEET
Catalogue reference for product evaluation

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Diesel Engine Training Stand SC-DET 6025

Category: TVET Equipments · **Order Code:** DET 6025 · **Country of Origin:** India

Product Overview

The Diesel Engine Training Stand SC-DET 6025 is a running 6-cylinder turbocharged common-rail diesel engine for diagnostic training. It features a visible ECU, OBD-II access, sensor and actuator circuits, and 12 switchable faults on a heavy-duty stand.

View this product online: https://scienticoindia.com/product/experiment-unit-for-interactive-training-sc-exu-2b08/



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

Technical Specifications

Diesel Engine Training Stand SC-DET 6025 — Technical Specifications

Parameter	Value
Tender Item ID	11014
Model No.	SC-DET 6025
Item Code / CIC	TTS / EEE
Brand / Origin	Scientico / India
Engine	6-cylinder in-line, turbocharged
Displacement	2.5 to 3.0 litres
Emissions	Euro 4
Fuel	Diesel available in Jordan
Fuel System	Common rail
Cooling	Liquid cooled, radiator and thermostat
Lubrication	Oil sump with oil filter
Exhaust Extraction	100 mm hose, approx. 600 m³/h
Starting	Electric starter with battery
Throttle	Electronic, pedal simulation

Parameter	Value
Fault Simulation	12 switchable and resettable faults
Noise Level	Approx. 85 dB(A) at 1 m
Dimensions	Approx. 1,800 x 1,000 x 1,500 mm
Weight	Approx. 450 kg
Compliance	CE

Technical Data

Engine and Fuel System:

- 6-cylinder in-line, turbocharged, 2.5 to 3.0 litres
- Common rail injection with tank, fuel pump, and filter
- Intercooler, intake manifold, and air filter

Cooling and Lubrication:

- Liquid cooling with radiator, thermostat, and transparent reservoir
- Oil sump with drain plug and oil filter

Exhaust:

- Catalytic converter and silencer
- Workshop extraction outlet, 100 mm hose, approx. 600 m³/h

Sensors:

- MAP, MAF, ECT, CKP, CMP, IAT, O2, knock

Actuators:

- Injectors, throttle body, turbo actuator, EGR valve

Instrumentation:

- Engine speed, coolant temperature, oil pressure, boost pressure, voltmeter

Key Features

Key Features

- Fully Functional Engine: Running 6-cylinder turbocharged common-rail diesel
- Visible ECU: Colour-coded harness with banana-plug test points
- OBD-II Diagnostics: Live data and DTC reading
- Fault Simulation: 12 independently switchable and resettable faults
- Stand Safety: Guarding over rotating parts and emergency stop
- Workshop Extraction: 100 mm outlet for exhaust extraction

Experiments

- Engine start-up and running demonstration
- Common-rail fuel system operation
- Sensor testing (MAP, MAF, ECT, CKP, CMP, IAT, O2, knock)
- Actuator testing (injectors, throttle body, turbo actuator, EGR valve)
- OBD-II live data reading and DTC diagnosis
- Fault diagnosis using switchable sensor and actuator faults

Construction and Design

The SC-DET 6025 is mounted on a heavy-duty steel stand with lockable wheels. Guarding covers all rotating parts. The ECU is mounted in view, and the colour-coded harness routes to banana-plug test points. An instrument panel and fault-switch box sit on the stand.

Scope of Delivery

- 1 Running diesel engine on training stand
- 1 Battery
- 1 Instrument panel and fault-switch box
- 1 English workshop manual
- Wiring diagrams
- Sensor and actuator test values
- Fault list with symptoms

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: How many faults can be simulated on the SC-DET 6025?
A: Twelve sensor and actuator faults can be switched on and off independently and reset.

Q: What fuel does the SC-DET 6025 run on?
A: It runs on diesel fuel available in Jordan.

Q: How is diagnosis performed on the SC-DET 6025?
A: The OBD-II port provides live data and DTC reading, and the ECU is visible with banana-plug test points on the harness.

Q: What are the dimensions and weight of the SC-DET 6025?
A: Approximately 1,800 x 1,000 x 1,500 mm and 450 kg.

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