

**Product Name :**  
Astra Scientific Four Stroke Four Cylinder Petrol Engine Test Bench

**Product Code :**  
ThermalLab0006



**Description :**

Astra Scientific Four Stroke Four Cylinder Petrol Engine Test Bench

**Technical Specification :**

The experimental engine test stand. The engine used here is a four-cylinder petrol engine with a controlled catalytic converter. It has its own closed cooling water circuit.

A solid welded frame on rollers carries the entire setup. Hazardous areas such as hot surfaces and rotating parts are covered with perforated plates. The connection to the brake is made via a rotationally elastic coupling with a jointed shaft. The engine is attached to the load unit by fasteners.

For safety reasons, the engine has been modified in a way that it only starts when it is connected to the load unit both mechanically and electrically.

The engine software runs on a personal computer, requiring only a single USB interface between the electronic console and the PC.

**FEATURES:**

- Engine flexibly mounted on mobile frame

- Plotting of torque and power curves
- Determination of specific fuel consumption
- Determination of volumetric efficiency and lambda (fuel-air ratio)
- Energy balances
- Overall engine efficiency
- Closed cooling water circuit
- Switch cabinet with warning lamps (oil pressure, alternator failure), operating time counter and ignition key

**SPECIFICATIONS:**

Engine	: Branded MPFI Version
Max.Power	: 63 BHP @ 5500 rpm
Max.Torque	:89 Nm @ 3000 rpm
Fuel	: Petrol
No of cylinders	: Four
Bore	: 66 mm
Stroke length	: 77 mm
Starting	: Self-start
Working stroke	: Four strokes
Cooling	: Water-cooled
Ignition	: Spark ignition
Capacity	: 1086 cc
Battery	: 12V, 45A
Alternator	: 12V, 45A
Engine oil	: SAE 5W-30
Power required	:230V, 50Hz, 1 phase



## **Astra Scientific**

www.astrascientific.com, **Email:** info@astrascientific.com

**Address:** K-88, 20th Street, Annanagar, Chennai, India – 600040 **Phone:** +91-8860605265