

**Product Name :**  
Single Cylinder Four Stroke Diesel Engine Test Bench**Product Code :**  
THEM0012**Description :**

Single Cylinder Four Stroke Diesel Engine Test Bench

**Technical Specification :**

The experimental test stand, which includes a drive and brake unit, the four-stroke diesel engine is highly suitable for use in teaching the fundamentals of engine functioning and measurement. The engine used here is an air-cooled single-cylinder four-stroke diesel engine with direct injection. The diesel engine is started and slowed down by an electric motor mounted in the unit. A flywheel fan affects the air-cooling. The brake unit is connected by way of a elastic claw coupling. The engine is prepared for measurement of the cylinder pressure for indication. It includes a sensor to measure the exhaust gas temperature and a connection to measure the intake pressure. Both sensors, ignition cut-off and fuel supply are connected to the test stand.

**FEATURES:**

The full load and partial load characteristic curves of the engine are plotted in experiments.

Familiarization with a four-stroke diesel engine

Engine mounted on base plate

Force transmission to brake via elastic claw coupling

Fuel hose with self-sealing quick-release coupling

Plotting of torque and power curves

Determination of specific fuel consumption

Determination of volumetric efficiency and lambda (fuel-air ratio)

Determination of engine friction loss

**SPECIFICATION:**

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Air-cooled single-cylinder diesel engine with direct injection  
Power output: 4,5kW at 2700min-1  
Stroke: 69mm  
Compression ratio: 22:1  
Bore: 80mm

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