

TD201 FOUR-STROKE PETROL ENGINE

Four-stroke, single-cylinder petrol engine for use with TecQuipment's Small Engine Test Set (TD200).





- For safe and effective studies and demonstrations of a four-stroke, single-cylinder petrol engine
- For use with TecQuipment's small engine test set (TD200)
- High-quality yet cost-effective engine specially modified for educational use
- Wide range of investigations possible
- Quickly and accurately mounts on the test bed
- Includes colour-coded fuel tank with quick-release couplings





TD201 FOUR-STROKE PETROL ENGINE

DESCRIPTION

High-quality and cost-effective four-stroke, single-cylinder petrol engine for use with TecQuipment's Small Engine Test Set (TD200). Adapted specially for education to enable effective laboratory testing and demonstrations, the engine includes an exhaust thermocouple, a half-coupling to link to the test set dynamometer and all essential hoses and fittings. In addition, each engine includes a colourcoded fuel tank with self-sealing couplings. The couplings ensure the engine can be connected and disconnected quickly and efficiently with minimum loss or spillage of fuel. For convenience and safety, the fuel tank can be removed for filling or for storage in a fuel locker when not in use. Removing the fuel tank also prevents unauthorised use of the equipment.

The engine is mounted on a sturdy precision bed plate. The bed plate has dowels and slots which align and locate it accurately with the dynamometer test set. This minimises the time spent replacing one engine with another.

This engine starts using a simple pull cord, however TecQuipment can supply an electric start version (TD201ES). Please note the starter battery is not supplied by TecQuipment and will need to be sourced locally. Contact our sales team for details.

STANDARD FEATURES

- Supplied with comprehensive user guide
- Five-year warranty
- Made in accordance with the latest European Union directives

ESSENTIAL BASE UNIT

• Small Engine Test Set (TD200)

LEARNING OUTCOMES

When used with TecQuipment's Small Engine Test Set (TD200), investigations into the performance and characteristics of a four-stroke petrol engine, including:

- Torque, speed and power relationship
- Brake mean effective pressure
- Engine performance curves
- Air and fuel consumption
- Volumetric and thermal efficiencies

OPERATING CONDITIONS

OPERATING ENVIRONMENT:

Well ventilated laboratory

STORAGE TEMPERATURE RANGE:

-25°C to +55°C (when packed for transport)

OPERATING TEMPERATURE RANGE:

+5°C to +40°C

OPERATING RELATIVE HUMIDITY RANGE:

80% at temperatures < 31°C decreasing linearly to 50% at 40°C

NOISE LEVELS:

The noise level produced by this engine may exceed 70 dB, therefore TecQuipment strongly recommends the use of suitable ear defenders.

SPECIFICATIONS

DIMENSIONS:

Nett: height 430 mm x width 500mm x depth 400 mm

Packed: 0.13 m³

WEIGHT:

Nett: 22 kg

Packed: 27 kg

FUEL:

Gasoline up to 10% Ethyl Alcohol and 90% unleaded

ENGINE CAPACITY:

208 сс

NET POWER:

4.5 kW at 3600 rev.min⁻¹

NET TORQUE:

12.5 Nm at 2800 rev.min⁻¹

SPEED:

Governed to approximately 3600 rev.min⁻¹

COOLING:

Air cooled

NOTE: All values stated are approximate and subject to variation