



## 4 STROKE GASOLINE ENGINE, SINGLE CYLINDER C100A



Year 1  
study

### Features

- Optional Four Stroke Gasoline Engine test set..
- Pre-installed on a standard mounting plate that is designed to allow quick and easy installation on the test bed.
- All fuel and electrical connectors factory fitted to connect to an existing C100.
- Research opportunity to investigate BIO fuels.

### Description

Optionally available Four Stroke Gasoline Engine for use with the C100 Internal Combustion Engine Test Stand.

### Related laws

- Research
- Thermodynamics
- Energy Conservation
- Mechanical Engineering

- Plant and Process Engineering
- Automotive Engineering
- Fluid Mechanics
- BIO Fuels

### Learning capabilities

- Measurement of the Torque - Speed and Power - Speed for an Internal Combustion Petrol Engine at a Range of Throttle Settings.
- Measurement of the Specific Fuel Consumption at Constant Speed and Varying Power Output.
- Measurement of Air-Fuel Ratio and Engine Thermal Efficiency at Constant Speed and Range of Throttle Settings.
- Measurement Of Engine Internal Friction At A Range Of Engine Speeds

### Technical Specification

- Air-cooled Four Stroke Gasoline Engine
- Engine Maximum output 3.5HP (2.6kW)
- Engine rated speed: 3600rpm
- Engine Displacement: 118cc
- Engine Bore and Stroke: 60 x 42mm
- Engine Cylinders: 1
- Gasoline – Unleaded RON 91 –US-PON 86

#### **Essential Ancillaries**

- C100/415/B
- (or C100/220/B)

#### **Recommended Ancillaries**

- C100A

#### **What's in the Box?**

- 1 x Gasoline Engine
- 1 x Pulley
- 1 x Engine mount and coupling
- 1 x fuel tank
- 1 x spare V belt
- 1 x spare oil
- Packing List
- Test Sheet

#### **You might also like**

- C100B

#### **Essential Services**

- C100/415/A or C100/220/A
- Gasoline Engine Fuel Type: Unleaded RON 91 –US-PON 86
- SAE 10W-30 Automotive Oil is recommended.

#### **Ordering information**

To order this product, please call PA Hilton quoting the following code:

C100A

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