

## MT 503G SINGLE CYLINDER ENGINE TEST BED, Electric Generator Absorber

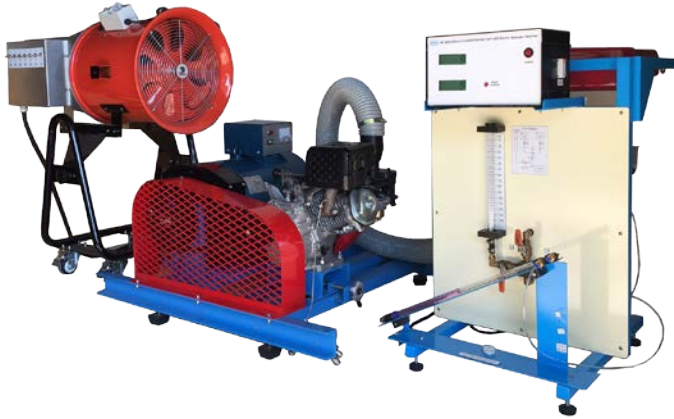
### GENERAL DESCRIPTION

This is a small test bed for a small gasoline or diesel engine.

The engine is connected by V-belt with a safety guard to an electric generator absorber dynamometer on the test bed. Heat from the generator is dissipated by heaters with a fan. Generator load and engine throttle are manually controlled.

A fuel tank and air box are on a stand next to the engine.

Instruments are provided for measurement of engine speed, generator speed and torque, fuel flow rate, air flow rate, and temperatures.



*Photograph includes optional equipment*

### TYPICAL TESTS

- Torque vs engine speed at various throttle setting.
- Engine brake horsepower and efficiency vs speed.
- Specific fuel consumption.
- Air/fuel ratio.
- Volumetric efficiency.

### TECHNICAL DATA

- Generator : 1 ea. 220 V.
- Load : Heaters.
- Engine : Single cylinder gasoline or diesel engine up to 5kW or as required.
- Measuring instruments
  - Fuel flow rate : Graduated cylinder and stopwatch.
  - Air flow rate : Air box with orifice plate, and inclined water manometer.
  - Sensors with digital display : Temperatures for ambient air and exhaust gas.
- Power supply : Generator torque, Engine and Generator speeds.
- Power supply : 220 V, 1 Ph, 50 Hz. Other power supply is available on request.

### OPTIONAL EQUIPMENT

- Torque arm with standard weights for torque calibration.
- Water manometer for differential pressure calibration.
- P-V diagram set for selected engine.
- MT 502-050 Computer Interface  
This includes sensors, computer interface unit, and software for data display and analysis by computer (separately supplied).

**Net (unpacked) shipping dimensions WxLxH** : 110 x 140 x 110 cm.  
**Net weight** : Approx. 190 kg.