



Description: A robust, floor-mounted engine test stand with modular instrumentation and a control system designed for comprehensive testing of gasoline engines.

Key Features:

- **Dynamometer:** Regenerative type with both torque and speed control, featuring a direct-reading digital display. Suitable for engines up to 4 kW shaft power output.
- **Instrumentation:** Engine speed and all relevant temperatures are displayed on digital panel meters located on a remote instrumentation console.
- **Air Supply:** Engine air passes through an intake orifice and pulsation damper. Flow measurement is facilitated by a panel-mounted manometer for differential pressure readings.
- **Fuel Measurement:** Calibrated volumetric fuel gauge for precise fuel flow measurement.
- **Engine Mounting:** Optional engines pre-installed on a standard mounting plate for quick and easy installation on the test bed.
- **Fuel System:** Includes a suitable fuel tank and supply system with quick-release self-sealing fuel couplings.
- **Safety:** Equipped with interlocks and safety cut-out devices for operator safety.
- **Testing Capabilities:**
 - Measurement of torque-speed and power-speed relationships at various throttle settings.
 - Measurement of specific fuel consumption at constant speed and varying power output.
 - Measurement of air-fuel ratio and engine thermal efficiency at constant speed and a range of throttle settings.
 - Measurement of engine internal friction across different engine speeds.
 - Measurement of specific fuel consumption and air-fuel ratio at constant speed and varying injector settings.

Engine Specifications:

- **Type:** Air-cooled, four-stroke gasoline engine.
- **Maximum Output:** 3.5 HP (2.6 kW).
- **Rated Speed:** 3600 rpm.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- **Displacement:** 118 cc.
- **Bore and Stroke:** 60 x 42 mm.
- **Cylinders:** 1.
- **Fuel Type:** Unleaded gasoline.

Additional Features:

- **Test Bed Configuration:** Single-cylinder, four-stroke gasoline engine.
- **Investigation Range:** Allows investigation of torque-speed, power-speed, specific fuel consumption, mechanical, and thermal efficiency over a wide range of conditions.
- **Engine Installation:** Optional engines can be quickly installed with quick-connect couplings and braked wheels for ease of movement.
- **Operation:** Capable of testing from an adjacent room once the engine is set up and running.
- **Exhaust Extension:** High-quality, efficient exhaust extension provided.
- **Research Opportunities:** Suitable for investigating biofuels

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