

Product Name :

Gasoline Engine

Product Code :

ALABS-A151-001

**Description :****Gasoline Engine**

- A modern, automotive, high efficiency, three cylinder, 1.2 litre, water cooled, normally aspirated engine complete with all services and ancillaries required to run the engine in a laboratory environment.
- Biofuel Compatible
- Variable load, eddy current dynamometer which acts as a brake, enabling direct measurement of engine torque
- Dynamometer completely integrated with the engine, mounted within the same frame
- Ignition and Injection Control system as standard, enables user to investigate the effects of alterations to fuel injection and ignition timing
- Supported on strong tubular steel framework via flexible mounts. Frame houses fuel tanks, battery, electrical enclosures, etc
- Protected by guards around all moving parts, and around key hot surfaces

- Throttle and brake load can be controlled remotely
- Standard instrumentation includes sensors for:

- Engine speed
- Torque
- Air flow
- Cooling water temperature (inlet and outlet of heat exchanger)
- Cooling water flow
- Exhaust gas Lambda sensor

Features:

- Modern high efficiency, three cylinder automotive engine
- Integrated eddy current dynamometer to vary engine load
- Plotting of characteristic torque and power curves against engine speed
- Full software control of system, including load and throttle settings
- Closed loop software control of brake loading to maintain constant engine speed during measurements
- User control of ignition timing and fuel injection now standard
- Secondary water cooling by heat exchanger, with measurement of temperature change and flow rate
- Version fitted with wideband Lambda sensor for improved performance
- Engine manufacturer's diagnostic software, also displays ignition timing and injection characteristics
- Measurement of exhaust oxygen content by Lambda sensor
- Remote emergency stop, and facility for safety interlocks
- Optional operation on LPG as well as gasoline and Biofuel

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