

Product Name :
Gasoline Engine

Product Code :
NLAB-TECHNICALAB28003

Description :

Gasoline Engine

Technical Specification :

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

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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