



The air-cooled single-cylinder four-stroke petrol engine is identical in design to the four cylinder engine. A modified cylinder head permits additional experiments with various combustion chamber inserts. To adjust the mixture composition, the carburetor was modified.

Order Code : 32646 is fitted with a special device to adjust the ignition timing - from advanced to retarded. The engine includes a sensor to measure the exhaust gas temperature. The sensor, ignition cut-off and fuel supply are connected to the AM501 test stand.

Specifications

- Air-cooled single-cylinder four-stroke petrol engine for installation in the AM 501 test stand
- 5 variable compression ratios, adjustable by varying the combustion chamber geometry
- Adjustable ignition point
- Mixture composition adjustable
- Engine mounted on vibration-insulated base plate
- Force transmission to brake via pulley
- Engine complete with fuel hose and exhaust gas temperature sensor
- Fuel hose with self-sealing quick-release coupling

Technical Specifications

- Air-cooled single-cylinder petrol engine
- Power output: 1,2kW at 3200min⁻¹
- Bore: 65,1mm
- Stroke: 44,4mm
- Compression ratios: 1:10; 1:8,5; 1:7 (original Compression ratio), 1:5,5; 1:4
- Ignition timing adjustable in 11 stages:
- 10° after TDC to 40° before TDC
- Belt pulley: diameter=125mm

• Experiments

- In conjunction with AM 501 test stand and loading unit, in addition to the standard basic experiments
- Influence of compression ratio, mixture composition, ignition timing on engine characteristics and exhaust gas temperature

Scope of Delivery

- 1 engine, complete with all connections and supply lines
- 5 combustion chamber inserts
- 1 pin type face wrench
- 1 manual

Note: Specifications are subject to change.

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