

CT 151 Four-stroke diesel engine for CT 159



Description

 engine for installation in the CT 159 test stand
part of the GUNT FEMLine

In conjunction with the CT 159 test stand and the HM 365 load unit, the aircooled four-stroke diesel engine is highly suitable for use in teaching the fundamentals of engine functioning and measurement.

The engine used here is an air-cooled single-cylinder four-stroke diesel engine with direct injection. The engine is started by an electric motor mounted in the HM 365 unit. The air cooling is effected by a flywheel fan. The HM 365 load unit is coupled by way of a pulley on the drive shaft. The engine includes a sensor to measure the exhaust gas temperature. The sensor, ignition cut-off as well as air and fuel supply are connected to the CT 159 test stand.

The full load and partial load characteristic curves of the engine are plotted in experiments.

Learning objectives/experiments

- in conjunction with CT 159 test stand and HM 365 load unit
 - ► familiarisation with a four-stroke diesel engine
 - plotting of torque and power curvesdetermination of specific fuel con-
 - sumption
 - determination of volumetric efficiency and lambda (fuel-air ratio)
 - determination of the frictional power of the engine

Specification

- [1] air-cooled single-cylinder four-stroke diesel engine for installation in the CT 159 test stand
- [2] engine mounted on vibration-insulated base plate
- [3] force transmission to brake via pulley
- [4] engine complete with fuel hose and exhaust gas temperature sensor
- [5] fuel hose with self-sealing quick-release coupling

Technical data

Air-cooled single-cylinder diesel engine

- power output: 3kW at 3000min⁻¹
- bore: 69mm
- stroke: 62mm

V-belt: Ø 125mm

LxWxH: 430x350x530mm Weight: approx. 38kg

Required for operation

ventilation, exhaust air (CT 159)

Scope of delivery

- 1 engine, complete with all connections and supply lines
- 1 manual



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Required accessories

063.15900 070.36500	CT 159 HM 365	Modular test stand for single-cylinder engines, 3kW Universal drive and brake unit
Optional accessories		
063.15902 063.15901 with 063.15904	CT 159.02 CT 159.01 CT 159.04	Exhaust gas analysing unit Electronic engine indicating system for CT 159 Pressure transducer and TDC sensor for CT 151

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