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**Product Name :**  
Four Cylinder Diesel Engine

**Product Code :**  
LBNY-0005-12500015



#### **Description :**

In conjunction with the load unit, the test engine is a complete engine test stand. The connection to the brake is made via a rotationally elastic coupling with a jointed shaft. The engine is attached to the load unit by fasteners. The engine used here is a four-cylinder diesel engine. It has its own closed cooling water circuit. A solid welded frame on rollers, with a vibration-insulated base plate, carries the entire setup. Hazardous areas such as hot surfaces and rotating parts are covered with perforated plates.

#### **Learning Objectives/Experiments:**

In conjunction with load unit  
Energy balances  
Overall engine efficiency  
Plotting of torque and power curves  
Determination of volumetric efficiency and lambda (fuel-air ratio)  
Determination of specific fuel consumption.

#### **Technical Specification :**

Engine complete with fuel supply (tank, pump, line) and cooling water circuit  
Sensors for cooling water flow rate and temperatures (exhaust gas, cooling water, fuel, oil)  
Transfer of measured data via data cable from switch cabinet to control cabinet  
Water-cooled four-cylinder diesel engine for setup an engine test stand in conjunction with CT 400 load unit  
Engine flexibly mounted on mobile frame with vibration-insulated base plate  
Power transmission to brake unit via elastic coupling and a jointed shaft  
Switch cabinet with warning lamps (oil pressure, alternator failure, preheat), operating time counter and ignition

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