

Product Name :
Computerized Variable Compression Ratio Diesel Engine Test Rig

Product Code :
TK954



Description :

Computerized Variable Compression Ratio Diesel Engine Test Rig

Technical Specification :

Computerized Variable Compression Ratio Diesel Engine Test Rig
Engine
Compression Ratio Variable: 5:1 to 20:1
Number of cylinder: Single
Cooling: Water cooled
Fuel: Diesel
Speed: 1400 – 1500 RPM
HP: 3 to 5HP
Starting: Manual crank start
Lubrication: Forced
Dynamometer
Eddy Current
Cooling: Air
Load measurement method: Strain gauge
Speed: 3000rv/m
HP: 5HP
Coupling type: Direct
Exhaust gas Calorimeter: Pipe in Pipe
Data Acquisition System, Sensors, Controls and Software
Sensors

Engine Combustion Pressure Sensor: Piezo-electric 0-100 Bar
Crank angle: Rotary 360 PPR
Air Measurement: DP Sensor 0-500 mm WC
Fuel Measurement: Optical constant volume, fully automatic (0.1 to 10 Kgs/hr)
Speed: Encoder 10000
Dynamometer Load: Strain Gauge Load cell
Temperature Sensor: "K" Type
Engine Cooling Water Rotameter
Exhaust Gas Calorimeter Cooling Water Rotameter
Data Acquisition System: High Speed DAC with 1 mega samples/sec
Controls: Fuel injection System with controls Software: Windows Based Engine Combustion Analysis and performance Software, Fuel injection and control software.
EGR System
A standalone EGR system with facility to electronically change the percentage of EGR to the Engine. The EGR system is provided with the below mentioned measuring instruments.
EGR Flow sensors
EGR Temperature
Turbo Charger
Turbo air charging and air preheating heating unit. The turbo air charging and air preheating heating unit has the facility to change the air flow rate and temperature with respective measuring instruments.
Digital Manometer.
Air Temperature.
Manifold Gas Injection
Intake gas pressure to the System is Greater than 1 Bar lesser than 1.5 Bar
Injection Timing Variable 0 to 720° Crank Angle (Controlled from Computer)

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