

Product Name :

Computerized Indirect Injection Diesel Engine Test Rig

Product Code :

TK621

**Description :**

Computerized Indirect Injection Diesel Engine Test Rig

Technical Specification :

Computerized Indirect Injection Diesel Engine Test Rig
Engine

Number of cylinder: Single

Cooling: Air cooled

Fuel: Diesel

Single Cylinder

Cubic Capacity: 318cc

HP: 4HP @ 1800rpm,

Dynamometer

Eddy Current

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: • 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)

Naugralabequipments

Website: www.naugralabequipments.com, **Email:** sales@naugralabequipments.com

Address: 6148/6, Guru Nanak Marg, Ambala Cantt, Haryana, India. **Phone:** +91-9896600003