

ICE-1 SINGLE-CYLINDER FOUR-STROKE DIESEL ENGINE TEST RIG

Objective:

To study the performance of a single cylinder four stroke diesel engine.

Aim:

To determine

- Brake power
- Fuel consumption
- Specific fuel consumption
- Brake thermal efficiency
- Swept volume
- Air consumption
- Volumetric efficiency

Description:

Test rig consists of:

1. Single Cylinder, Four Stroke, Kirloskar diesel engine,
2. Eddy Current Dynamometer with Loading Unit,
3. Fuel Consumption measuring arrangement,
4. Air intake measuring arrangement.

Single-Cylinder Diesel Engine:

A medium capacity Kirloskar diesel engine is selected for experimental purposes. The specification for the Engine is as follows:

Engine	:	Single cylinder, 4 stroke, water cooled.
Bore diameter	:	87.5mm
Stroke	:	110mm

Fuel Input Measuring Arrangement:

Consist of self-mounting type fuel tank of about 15 liters capacity suitably mounted on a stand. The stand is fixed on the air tank and fuel goes from the reservoir to fuel filter through a burette. The burette facilitates the measurement of the fuel consumption for a definite period of time with the help of a stopwatch.

Air Intake Measuring Arrangement:

Test rig consists air tank fitted with an orifice plate having diameter of 20mm. Inclined manometer is used to measure the flow rate of air sucked by the engine. The co-efficient of discharge of orifice is about 0.67.

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