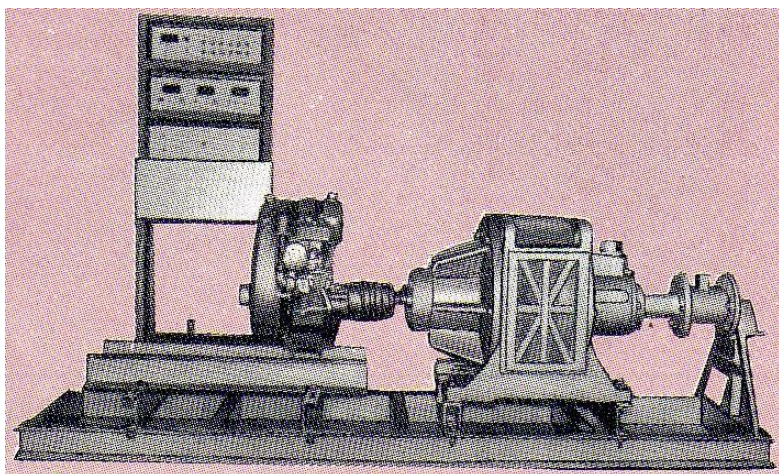




PETROL AND DIESEL ENGINE TEST RIGS BASIC & COMPUTERIZED

IEICOS Engine Test Rigs are specially designed for use in engineering and technical educational institutions for evaluation and performance studies of petrol and diesel engines. IEICOS IC Engine Test Rig is a complete setup for evaluating diesel engine performance by means of loading the engine upto and over the rated load using a eddy current type dynamometer (other dynamometer type options are also available) for loading. IEICOS Engine Test Rigs are available for various combinations of stroke, number of cylinders, cooling, fuel etc., as mentioned below. The setup includes necessary equipment and instrumentation for measurement of torque, speed, airflow, fuel flow, water flow, temperatures, crank-angle, combustion pressure etc as mentioned in the specifications.

The IEIOS IC Engine test rigs are designed for study and evaluation of engine performance for various parameters such as power, efficiency, fuel consumption, torque –speed characteristics etc. The test rigs can provide information on Brake Horse Power, Frictional Horse Power, Indicated Horse Power, Thermal Efficiency, Mechanical Efficiency, Air/Fuel Ratio etc.



IEICOS Computerized Engine Test Rigs include necessary electronic type instrumentation with additional computer interface facility for each of the measurements for interfacing data on to the computer and a state-of-the-art engine analysis software “IEAS” which is a graphical menu driven software with graphical user interface, mimic diagram, real-time data display, monitoring, logging and archival facilities. The software allows for online evaluation and display of power, efficiencies, fuel consumption etc. A menu driven configuration screen ensures data pertaining to engine can be entered by the user for identification of test results, report generation and storage of data.

Data is displayed in real-time online using displays and/or by online graph during testing allowing the user to have better understanding of the changes in various parameters during test. Data is stored in csv file format which is easily read by commonly available spreadsheets such as Excel for further data analysis.

Data, test results, Reports and graphs can be printed for further use and discussion.



1. IEICOS Diesel Engine Test Rig – Single Cylinder, Four Stroke

Model IDET-1C4S Series

Specifications for Computerized Model:

Engine: Single Cylinder Four Stroke Diesel Engine

Cooling: Air Cooled or Water Cooled

Power Rating: 5 HP, 7.5 HP, 10 HP, 15 HP

Loading Arrangement: Eddy Current Dynamometer of suitable size as per engine power rating provided with eddy current controller with digital displays for excitation voltage and current.

Coupling: Flexible Love Joy couplings

Air Flow Measurement: Powder Coated box with orifice type flow meter with Digital manometer Range 0 – 1000mm WC

Fuel Flow Measurement: Powder Coated fuel tank (capacity 15 lts) with glass metering column and scale along with digital manometer Range 0 – 1000mm WC

Torque measurement: Strain Gauge based sensor with Digital Indicator calibrated to read torque range suitable to power rating of engine.

Speed measurement: Non-contact optical sensor with Digital Speed Sensor Range

Calorimeter: Type Pipe in pipe with temperature sensors for exhaust gas inlet/outlet, cooling water inlet/outlet and cooling water flowmeter for flow measurement Range 250 LPH.

Compression Pressure Sensor: Piezo Electric Pressure Sensor Range 5000 PSI, with low noise cable

Crank angle Measurement: Crank Position sensor with 1-degree resolution, Speed 5500 RPM with TDC pulse.

Data acquisition: High Speed Data Acquisition USB based, 16-bit, 250kS/s.

Temperature sensor: RTD, PT100 sensor for temperatures upto 0 – 200°C and K Type Thermocouple sensor for temperatures upto 1200 °C

Temperature Indicators: Suitable for use with RTD PT100, Range 0–200 DegC and K Type Thermocouple Range 0 – 1200 DegC

Software “IEAS” Engine performance and analysis software

Engine cooling: Water Flow Measurement Range 400 LPH (Water Cooled Versions only)

Dimensions 2m W x 2.5m L x 1.5m H (Nominal)



Services Required from your end:

Electricity: 230V +/- 10 VAC, 50 Hz, Single phase with good grounding.

Water: Required through 1” BSP size tap connection and should be continuous, clean and soft at flow rate of 1000 LPH with atleast 10 m head.

Foundation: To be prepared by you as per drawing provided.

IEICOS Computerized Diesel Engine Test Rig – Single Cylinder, Four Stroke Models:

Air Cooled:

5 HP: Model IDETC-1C4S-5HAC

7.5 HP: Model IDETC-1C4S-7.5HAC

10 HP: Model IDETC-1C4S-10HAC

Water Cooled

5 HP: Model IDETC-1C4S-5HWC

7.5 HP: Model IDETC-1C4S-7.5HWC

10 HP: Model IDETC-1C4S-10HWC

15 HP: Model IDETC-1C4S-10HWC

Note: All computerized models supplied by us include computer and software

IEICOS Diesel Engine Test Rig – Single Cylinder, Four Stroke – Basic Models:

Air Cooled:

5 HP: Model IDET-1C4S-5HAC

7.5 HP: Model IDET-1C4S-7.5HAC

10 HP: Model IDET-1C4S-10HAC

Water Cooled

5 HP: Model IDET-1C4S-5HWC

7.5 HP: Model IDET-1C4S-7.5HWC

10 HP: Model IDET-1C4S-10HWC

15 HP: Model IDET-1C4S-10HWC

2. IEICOS Diesel Engine Test Rig – Twin Cylinder, Four Stroke

Model IDET-2C4S Series

Specifications for Computerized Model:

Engine: Twin Cylinder Four Stroke Diesel Engine

Cooling: Water Cooled

Power Rating: 15HP, 20HP, 28 HP

Loading Arrangement: Eddy Current Dynamometer of suitable size as per engine power rating provided with eddy current controller with digital displays for excitation voltage and current.

Coupling: Flexible Love Joy couplings

Air Flow Measurement: Powder Coated box with orifice type flow meter with Digital manometer Range 0 – 1000mm WC

Fuel Flow Measurement: Powder Coated fuel tank (capacity 15 lts) with glass metering column and scale along with digital manometer Range 0 – 1000mm WC

Torque measurement: Strain Gauge based sensor with Digital Indicator calibrated to read torque range suitable to power rating of engine.

Speed measurement: Non-contact optical sensor with Digital Speed Sensor Range

Calorimeter: Type Pipe in pipe with temperature sensors for exhaust gas inlet/outlet, cooling water inlet/outlet and cooling water flowmeter for flow measurement Range 250 LPH.

Compression Pressure Sensor: Piezo Electric Pressure Sensor Range 5000 PSI, with low noise cable

Crank angle Measurement: Crank Position sensor with 1-degree resolution, Speed 5500 RPM with TDC pulse.

Data acquisition: High Speed Data Acquisition USB based, 16-bit, 250kS/s.

Temperature sensor: RTD, PT100 sensor for temperatures upto 0 – 200°C and K Type Thermocouple sensor for temperatures upto 1200 °C

Temperature Indicators: Suitable for use with RTD PT100, Range 0–200 DegC and K Type Thermocouple Range 0 – 1200 DegC

Software “IEAS” Engine performance and analysis software

Engine cooling: Water Flow Measurement Range 1000 LPH

Dimensions 2.0m W x 3.0m L x 2.0m H (Nominal)



Services Required from your end:

Electricity: 230V +/- 10 VAC, 50 Hz, Single phase with good grounding.

Water: Required through 1” BSP size tap connection and should be continuous, clean and soft at flow rate of 5000 LPH with atleast 10 m head.

Foundation: To be prepared by you as per drawing provided.

IEICOS Computerized Diesel Engine Test Rig – Four Cylinder, Four Stroke Model:

Water Cooled

15 HP: Model IDETC-2C4S-15HWC

20 HP: Model IDETC-2C4S-20HWC

28 HP: Model IDETC-2C4S-28HWC

Note: All computerized models supplied by us include computer and software

IEICOS Diesel Engine Test Rig – Four Cylinder, Four Stroke – Basic Model:

Water Cooled

15 HP: Model IDET-2C4S-15HWC

20 HP: Model IDET-2C4S-20HWC

28 HP: Model IDET-2C4S-28HWC

3. IEICOS Diesel Engine Test Rig – Four Cylinder, Four Stroke

Model IDET-4C4S Series



Specifications for Computerized Model:

Engine: Four Cylinder Four Stroke Diesel Engine

Cooling: Water Cooled

Power Rating: 50 HP

Loading Arrangement: Eddy Current Dynamometer of suitable size as per engine power rating provided with eddy current controller with digital displays for excitation voltage and current.

Coupling: Flexible Love Joy couplings

Air Flow Measurement: Powder Coated box with orifice type flow meter with Digital manometer Range 0 – 1000mm WC

Fuel Flow Measurement: Powder Coated fuel tank (capacity 15 lts) with glass metering column and scale along with digital manometer Range 0 – 1000mm WC

Torque measurement: Strain Gauge based sensor with Digital Indicator calibrated to read torque range suitable to power rating of engine.

Speed measurement: Non-contact optical sensor with Digital Speed Sensor Range

Calorimeter: Type Pipe in pipe with temperature sensors for exhaust gas inlet/outlet, cooling water inlet/outlet and cooling water flowmeter for flow measurement Range 250 LPH.

Compression Pressure Sensor: Piezo Electric Pressure Sensor Range 5000 PSI, with low noise cable

Crank angle Measurement: Crank Position sensor with 1-degree resolution, Speed 5500 RPM with TDC pulse.

Data acquisition: High Speed Data Acquisition USB based, 16-bit, 250kS/s.

Temperature sensor: RTD, PT100 sensor for temperatures upto 0 – 200°C and K Type Thermocouple sensor for temperatures upto 1200 °C

Temperature Indicators: Suitable for use with RTD PT100, Range 0–200 DegC and K Type Thermocouple Range 0 – 1200 DegC

Software “IEAS” Engine performance and analysis software

Engine cooling: Water Flow Measurement Range 1000 LPH

Dimensions 2.0m W x 3.0m L x 2.0m H (Nominal)

Services Required from your end:

Electricity: 230V +/- 10 VAC, 50 Hz, Single phase with good grounding.

Water: Required through 1” BSP size tap connection and should be continuous, clean and soft at flow rate of 5000 LPH with atleast 10 m head.

Foundation: To be prepared by you as per drawing provided.

IEICOS Computerized Diesel Engine Test Rig – Four Cylinder, Four Stroke Model:

Water Cooled

50 HP: Model IDETC-4C4S-50HWC

Note: All computerized models supplied by us include computer and software

IEICOS Diesel Engine Test Rig – Four Cylinder, Four Stroke – Basic Model:

Water Cooled

50 HP: Model IDET-4C4S-50HWC

4. IEICOS Petrol Engine Test Rig – Single Cylinder, Two Stroke

Model IPET-1C2S Series

Specifications for Computerized Model:

Engine: Single Cylinder Two Stroke Petrol Engine

Cooling: Air Cooled

Power Rating: 3, 5, 10, 12 HP

Loading Arrangement: Eddy Current Dynamometer of suitable size as per engine power rating provided with eddy current controller with digital displays for excitation voltage and current.

Coupling: Flexible Love Joy couplings

Air Flow Measurement: Powder Coated box with orifice type flow meter with Digital manometer Range 0 – 1000mm WC

Fuel Flow Measurement: Powder Coated fuel tank (capacity 15 lts) with glass metering column and scale along with digital manometer Range 0 – 1000mm WC

Torque measurement: Strain Gauge based sensor with Digital Indicator calibrated to read torque range suitable to power rating of engine.

Speed measurement: Non-contact optical sensor with Digital Speed Sensor Range

Calorimeter: Type Pipe in pipe with temperature sensors for exhaust gas inlet/outlet, cooling water inlet/outlet and cooling water flowmeter for flow measurement Range 250 LPH.

Compression Pressure Sensor: Piezo Electric Pressure Sensor Range 5000 PSI, with low noise cable

Crank angle Measurement: Crank Position sensor with 1-degree resolution, Speed 5500 RPM with TDC pulse.

Data acquisition: High Speed Data Acquisition USB based, 16-bit, 250kS/s.

Temperature sensor: RTD, PT100 sensor for temperatures upto 0 – 200°C and K Type Thermocouple sensor for temperatures upto 1200 °C

Temperature Indicators: Suitable for use with RTD PT100, Range 0–200 DegC and K Type Thermocouple Range 0 – 1200 DegC

Software “IEAS” Engine performance and analysis software

Engine cooling: Water Flow Measurement Range 1000 LPH

Dimensions 2.0m W x 3.0m L x 2.0m H (Nominal)



Services Required from your end:

Electricity: 230V +/- 10 VAC, 50 Hz, Single phase with good grounding.

Water: Required through 1” BSP size tap connection and should be continuous, clean and soft at flow rate of 5000 LPH with atleast 10 m head.

Foundation: To be prepared by you as per drawing provided.

IEICOS Computerized Petrol Engine Test Rig – Single Cylinder, Two Stroke Model:

Air Cooled

3 HP: Model IPETC-1C2S-3HAC

5 HP: Model IPETC-1C2S-5HAC

10 HP: Model IPETC-1C2S-10HAC

12 HP: Model IPETC-1C2S-12HAC

Note: All computerized models supplied by us include computer and software

IEICOS Petrol Engine Test Rig – Single Cylinder, Two Stroke – Basic Model:

Air Cooled

3 HP: Model IPET-1C2S-3HAC

5 HP: Model IPET-1C2S-5HAC

10 HP: Model IPET-1C2S-10HAC

5. IEICOS Petrol Engine Test Rig – Single Cylinder, Four Stroke

Model IPET-1C4S Series

Specifications for Computerized Model:

Engine: Single Cylinder Two Stroke Petrol Engine

Cooling: Air Cooled

Power Rating: 3 HP, 5 HP, 10 HP, 12 HP

Loading Arrangement: Eddy Current Dynamometer of suitable size as per engine power rating provided with eddy current controller with digital displays for excitation voltage and current.

Coupling: Flexible Love Joy couplings

Air Flow Measurement: Powder Coated box with orifice type flow meter with Digital manometer Range 0 – 1000mm WC

Fuel Flow Measurement: Powder Coated fuel tank (capacity 15 lts) with glass metering column and scale along with digital manometer Range 0 – 1000mm WC

Torque measurement: Strain Gauge based sensor with Digital Indicator calibrated to read torque range suitable to power rating of engine.

Speed measurement: Non-contact optical sensor with Digital Speed Sensor Range

Calorimeter: Type Pipe in pipe with temperature sensors for exhaust gas inlet/outlet, cooling water inlet/outlet and cooling water flowmeter for flow measurement Range 250 LPH.

Compression Pressure Sensor: Piezo Electric Pressure Sensor Range 5000 PSI, with low noise cable

Crank angle Measurement: Crank Position sensor with 1-degree resolution, Speed 5500 RPM with TDC pulse.

Data acquisition: High Speed Data Acquisition USB based, 16-bit, 250kS/s.

Temperature sensor: RTD, PT100 sensor for temperatures upto 0 – 200°C and K Type Thermocouple sensor for temperatures upto 1200 °C

Temperature Indicators: Suitable for use with RTD PT100, Range 0–200 DegC and K Type Thermocouple Range 0 – 1200 DegC

Software “IEAS” Engine performance and analysis software

Engine cooling: Water Flow Measurement Range 1000 LPH

Dimensions 2.0m W x 3.0m L x 2.0m H (Nominal)



Services Required from your end:

Electricity: 230V +/- 10 VAC, 50 Hz, Single phase with good grounding.

Water: Required through 1” BSP size tap connection and should be continuous, clean and soft at flow rate of 5000 LPH with atleast 10 m head.

Foundation: To be prepared by you as per drawing provided.

IEICOS Computerized Petrol Engine Test Rig – Single Cylinder, Four Stroke Model:

Air Cooled

3 HP: Model IPETC-1C4S-3HAC

5 HP: Model IPETC-1C4S-5HAC

10 HP: Model IPETC-1C4S-10HAC

12 HP: Model IPETC-1C4S-12HAC

Note: All computerized models supplied by us include computer and software

IEICOS Petrol Engine Test Rig – Single Cylinder, Four Stroke – Basic Model:

Air Cooled

3 HP: Model IPET-1C4S-3HAC

5 HP: Model IPET-1C4S-5HAC

10 HP: Model IPET-1C4S-10HAC

12 HP: Model IPET-1C4S-12HAC

6. IEICOS Petrol Engine Test Rig – Three Cylinder, Four Stroke

Model IPET-3C4S Series



Specifications for Computerized Model:

Engine: Three Cylinder Four Stroke Petrol Engine

Cooling: Water Cooled

Power Rating: 35 HP

Loading Arrangement: Eddy Current Dynamometer of suitable size as per engine power rating provided with eddy current controller with digital displays for excitation voltage and current.

Coupling: Flexible Love Joy couplings

Air Flow Measurement: Powder Coated box with orifice type flow meter with Digital manometer Range 0 – 1000mm WC

Fuel Flow Measurement: Powder Coated fuel tank (capacity 15 lts) with glass metering column and scale along with digital manometer Range 0 – 1000mm WC

Torque measurement: Strain Gauge based sensor with Digital Indicator calibrated to read torque range suitable to power rating of engine.

Speed measurement: Non-contact optical sensor with Digital Speed Sensor Range

Calorimeter: Type Pipe in pipe with temperature sensors for exhaust gas inlet/outlet, cooling water inlet/outlet and cooling water flowmeter for flow measurement Range 250 LPH.

Compression Pressure Sensor: Piezo Electric Pressure Sensor Range 5000 PSI, with low noise cable

Crank angle Measurement: Crank Position sensor with 1-degree resolution, Speed 5500 RPM with TDC pulse.

Data acquisition: High Speed Data Acquisition USB based, 16-bit, 250kS/s.

Temperature sensor: RTD, PT100 sensor for temperatures upto 0 – 200°C and K Type Thermocouple sensor for temperatures upto 1200 °C

Temperature Indicators: Suitable for use with RTD PT100, Range 0–200 DegC and K Type Thermocouple Range 0 – 1200 DegC

Software “IEAS” Engine performance and analysis software

Engine cooling: Water Flow Measurement Range 1000 LPH

Dimensions 2.0m W x 3.0m L x 2.0m H (Nominal)

Services Required from your end:

Electricity: 230V +/- 10 VAC, 50 Hz, Single phase with good grounding.

Water: Required through 1” BSP size tap connection and should be continuous, clean and soft at flow rate of 5000 LPH with atleast 10 m head.

Foundation: To be prepared by you as per drawing provided.

IEICOS Computerized Petrol Engine Test Rig – Three Cylinder, Four Stroke Model:

Water Cooled

35 HP: Model IPETC-3C4S-35HWC

Note: All computerized models supplied by us include computer and software

IEICOS Petrol Engine Test Rig – Three Cylinder, Four Stroke – Basic Model:

Water Cooled

35 HP: Model IPET-3C4S-35HWC

7. IEICOS Petrol Engine Test Rig – Four Cylinder, Four Stroke

Model IPET-4C4S Series



Specifications for Computerized Model:

Engine: Three Cylinder Four Stroke Petrol Engine

Cooling: Water Cooled

Power Rating: 35 HP

Loading Arrangement: Eddy Current Dynamometer of suitable size as per engine power rating provided with eddy current controller with digital displays for excitation voltage and current.

Coupling: Flexible Love Joy couplings

Air Flow Measurement: Powder Coated box with orifice type flow meter with Digital manometer Range 0 – 1000mm WC

Fuel Flow Measurement: Powder Coated fuel tank (capacity 15 lts) with glass metering column and scale along with digital manometer Range 0 – 1000mm WC

Torque measurement: Strain Gauge based sensor with Digital Indicator calibrated to read torque range suitable to power rating of engine.

Speed measurement: Non-contact optical sensor with Digital Speed Sensor Range

Calorimeter: Type Pipe in pipe with temperature sensors for exhaust gas inlet/outlet, cooling water inlet/outlet and cooling water flowmeter for flow measurement Range 250 LPH.

Compression Pressure Sensor: Piezo Electric Pressure Sensor Range 5000 PSI, with low noise cable

Crank angle Measurement: Crank Position sensor with 1-degree resolution, Speed 5500 RPM with TDC pulse.

Data acquisition: High Speed Data Acquisition USB based, 16-bit, 250kS/s.

Temperature sensor: RTD, PT100 sensor for temperatures upto 0 – 200°C and K Type Thermocouple sensor for temperatures upto 1200 °C

Temperature Indicators: Suitable for use with RTD PT100, Range 0–200 DegC and K Type Thermocouple Range 0 – 1200 DegC

Software “IEAS” Engine performance and analysis software

Engine cooling: Water Flow Measurement Range 1000 LPH

Dimensions 2.0m W x 3.0m L x 2.0m H (Nominal)

Services Required from your end:

Electricity: 230V +/- 10 VAC, 50 Hz, Single phase with good grounding.

Water: Required through 1” BSP size tap connection and should be continuous, clean and soft at flow rate of 5000 LPH with atleast 10 m head.

Foundation: To be prepared by you as per drawing provided.

IEICOS Computerized Petrol Engine Test Rig – Four Cylinder, Four Stroke Model:

Water Cooled

35 HP: Model IPETC-4C4S-35HWC

Note: All computerized models supplied by us include computer and software

IEICOS Petrol Engine Test Rig – Four Cylinder, Four Stroke – Basic Model:

Water Cooled

35 HP: Model IPET-4C4S-35HWC

8. IEICOS Variable Compression Ratio Diesel Engine Test Rig – One Cylinder, Four Stroke

Model IVDET-1C4S Series

Specifications for Computerized Model:

Engine: Variable Compression Ratio Single Cylinder Four Stroke Diesel Engine

Cooling: Air Cooled

Power Rating: 5 HP

Variable Compression Ratio: 12 to 18

Loading Arrangement: Eddy Current Dynamometer of suitable size as per engine power rating provided with eddy current controller with digital displays for excitation voltage and current.

Coupling: Flexible Love Joy couplings

Air Flow Measurement: Powder Coated box with orifice type flow meter with Digital manometer Range 0 – 1000mm WC

Fuel Flow Measurement: Powder Coated fuel tank (capacity 15 lts) with glass metering column and scale along with digital manometer Range 0 – 1000mm WC

Torque measurement: Strain Gauge based sensor with Digital Indicator calibrated to read torque range suitable to power rating of engine.

Speed measurement: Non-contact optical sensor with Digital Speed Sensor Range

Calorimeter: Type Pipe in pipe with temperature sensors for exhaust gas inlet/outlet, cooling water inlet/outlet and cooling water flowmeter for flow measurement Range 250 LPH.

Compression Pressure Sensor: Piezo Electric Pressure Sensor Range 5000 PSI, with low noise cable

Crank angle Measurement: Crank Position sensor with 1-degree resolution, Speed 5500 RPM with TDC pulse.

Data acquisition: High Speed Data Acquisition USB based, 16-bit, 250kS/s.

Temperature sensor: RTD, PT100 sensor for temperatures upto 0 – 200°C and K Type Thermocouple sensor for temperatures upto 1200 °C

Temperature Indicators: Suitable for use with RTD PT100, Range 0–200 DegC and K Type Thermocouple Range 0 – 1200 DegC

Software “IEAS” Engine performance and analysis software

Engine cooling: Water Flow Measurement Range 1000 LPH

Dimensions 2.0m W x 3.0m L x 2.0m H (Nominal)



Services Required from your end:

Electricity: 230V +/- 10 VAC, 50 Hz, Single phase with good grounding.

Water: Required through 1” BSP size tap connection and should be continuous, clean and soft at flow rate of 5000 LPH with atleast 10 m head.

Foundation: To be prepared by you as per drawing provided.

IEICOS Computerized Diesel Engine Test Rig – Single Cylinder, Four Stroke Model:

Air Cooled

5 HP: Model IDETC-1C4S-5HWC

Note: All computerized models supplied by us include computer and software

IEICOS Diesel Engine Test Rig – Single Cylinder, Four Stroke – Basic Model:

Air Cooled

5 HP: Model IDET-1C4S-5HWC

Specifications for Basic Models for above Engine Test Rig:

Engine: As selected above

Dynamometer: Eddy Current Dynamometer

Coupling: Flexible Love Joy couplings Propeller shaft With universal joints

Air flow measurement: Powder Coated box with orifice and manometer

Fuel Flow Measurement: Powder Coated fuel tank (capacity 15 lts) with glass metering column and scale

Calorimeter: Pipe in pipe type with temperature sensors for exhaust gas inlet/outlet, cooling water inlet/outlet and cooling water flowmeter for flow measurement Range 250 LPH.

Temperature sensor: RTD, PT100 sensor for temperatures upto 0 – 200°C and K Type Thermocouple sensor for temperatures upto 1200 °C

Temperature Indicators: Suitable for use with RTD PT100, Range 0–200 DegC and K Type Thermocouple Range 0 – 1200 DegC

Torque measurement: Strain Gauge based sensor with Digital Indicator calibrated to read torque range suitable to power rating of engine.

Speed measurement: Non-contact optical sensor with Digital Speed Sensor Range

Engine cooling water flow measurement (Water Cooled versions only): Using Rotameter 100 LPH

9) Dynamometer Options

IEICOS Engine Test Rigs are supplied with Eddy Current Dynamometers as standard. Other dynamometers available are:

- a) DC Generator with loading arrangement
- b) Pony Brake Dynamometer
- c) Hydraulic Dynamometer

10) IEICOS ENGINE TESTING ENGINEERING RESEARCH EXPERTISE

We have necessary expertise and facility to undertake any high end research work in the field of engine testing engineering instrumentation and measurement as required by you or by your organization. If you or your staff are working towards research as part of their interest or towards their post graduate/Ph.D degree, we can provide necessary instrumentation, consultancy, guidance in development of equipment etc.

Please feel free to contact us with your requirements.

Mechanical Dimensions, location of Components, Controls and Panel Meters may be changed without notice to incorporate latest state of the Art of Technology.

MANUFACTURERS OF:

ELECTRONIC MICROPROCESSOR BASED DIGITAL INSTRUMENTS, SYSTEMS AND TRANSDUCERS FOR MEASURING, RECORDING, PRINTING, TESTING, PROCESS AND QUALITY CONTROL, ANALYSIS, EVALUATION, SIMULATION OF TORQUE SPEED, POWER, PRESSURE, STRESS, STRAIN LOAD, FLOW LEVEL, DISPLACEMENT, VIBRATION, SOUND TEMPERATURE, HUMIDITY, ELECTRICAL PARAMETERS, DYNAMOMETERS FOR TESTING AND EVALUATION OF MACHINE TOOLS, ROTATING MACHINERY, LOADING FRAME WITH ELECTRONIC DATA LOGGERS FOR STRUCTURAL STUDIES IN THE FIELDS OF : INSTRUMENTATION, MECHANICAL ENGINEERING, PRODUCTION TECHNOLOGY, FLUID MECHANICS/HYDRAULIC LABORATORY, CIVIL/STRUCTURAL ENGINEERING, ELECTRICAL/ELECTRONICS ENGINEERING IN EDUCATION, R & D, INDUSTRY AND DEFENCE INSTITUTIONS.

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