



Computerized Twin Cylinder Four Stroke Diesel Engine Test Rig without CRDI Open ECU and EGR
(Product Code: ICC06)

Features

- Engine performance enhancement for diesel and alternative fuels
- Engine performance and combustion studies
- High Quality instrumentation
- Calculates BP, IP, FP, sfc, bsfc, BTE , Volumetric η & mechanical η
- PV and P- θ diagrams
- Mass Fraction Burnt
- Estimated End of Combustion Angle (EEOC)
- Calculates Gross IMEP
- Calculates Maximum Heat Release Rate
- Calculates Start of Combustion
- Calculates Combustion Duration and many more parameters

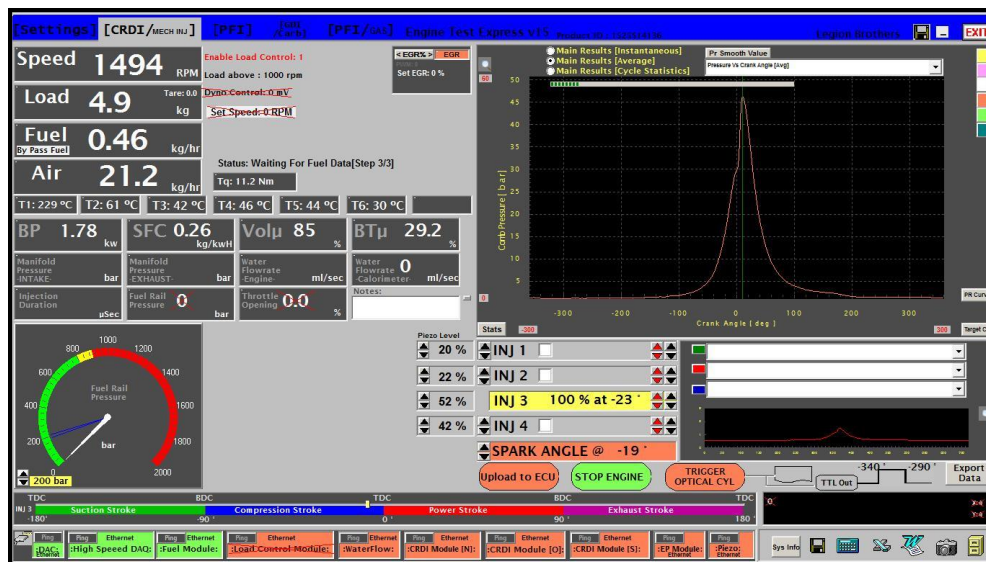
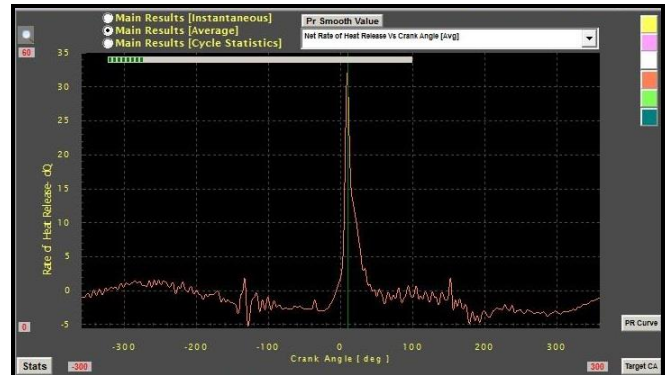
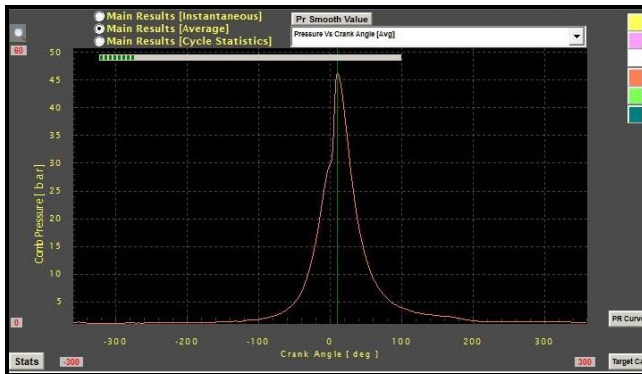
Product Description

The engine is mounted on Sturdy base frame. The base frame is fabricated with mild steel "C" channel. The engine and the dynamometer are coupled using standard tyre coupling. The air tank is fitted with a differential pressure sensor for measuring the Actual volume of air drawn into the cylinder. The thermocouple and necessary signal conditioner for the measurement of temperature at various points in the calorimeter are suitably provided. Liquid Level Sensor is used to measure the fuel flow consumption of the engine. Rota meter is used to measure the water flow of the engine and exhaust gas calorimeter. The load of the engine is measured using a load cell. The panel is fabricated with suitable SWG CR sheet and as per IS standard; the front portion of the panel is provided with provision for mounting computer, Printer, UPS and all instrumentations and signal conditioner related components. Power and control wiring are suitably marked using ferule for easy troubleshooting. The panel is finished with powder coating.



Software (Engine Test Express)

Windows based powerful software for real time data measurement, auto zoom graphs, analog and digital display of data in the computer, store indefinite no of graphs for analysis. Facilities to export data to Microsoft excel. The data acquisition software is developed by legion brothers.





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Product / Component Specification

Product	Computerized Twin cylinder four stroke diesel engine test rig without CRDI open ECU and EGR	
Product code	ICC06	
Engine	Make	: Kirloskar
	No of cylinder	: Two
	Cooling	: water
	Speed	: 1450-1550 Rpm
	Power	: 10 HP
	Starting	: Electric Start
Dynamometer	Type	: Eddy Current
	Cooling	: Air cooled
	Capacity	: 10 HP
Coupling	Tyre Coupling	
Calorimeter	Single shell and tube-Mild Steel	
Air tank	500mm cubic-Mild steel	
Panel	Mild steel powder coated with provision for mounting computer, ups, printer and instrumentation	
Base frame	C channel-Mild steel	
Combustion pressure sensor	Piezo-electric 0-100 bar	
Crank angle encoder	360 ppr, 1 Deg resolution with TDC pulse	
Air measurement	DP sensor with inline transmitter	
Fuel measurement	Optical liquid level sensor constant volume, fully automatic	
Dynamometer load	Strain gauge load cell with inline transmitter	
Temperature	"k" type with inline signal transmitter	
Water flow	Rota meter-Acrylic	
Daq	200 Ks/s	
Software	Engine test express for engine combustion analysis and performance software	