



Specifications:-

A. ENGINE -

Make: TATA SUPER ACE MINT,

BS IV Type: 4 stroke cycles, water cooled, CRDI

Number of cylinders: 4

Type of Fuel: Diesel

Piston displacement: 1396 cc Maximum

Torque: 140 Nm @1800-3000 rpm Max Engine Output: 70 bhp @ 4000rpm

B. EDDY CURRENT DYNAMOMETER:

Model: TME - 100 Cooling: By Water

Maximum Power Output: 100 BHP @ 1750 RPM to 6000 RPM Maximum RPM: 0-6000 RPM

Maximum Torque: 200Nm@2500 RPM

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.

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Loading Unloading: By Solid state Microprocessor

Controller Water Pressure Required: 3 Kg/cm sq.

Water Required : 200 Lit/min.

• Water Pipe line: 1 1/2" BSP

• Water Inlet: 1 1/2" BSP

Water Outlet : Open to tank

Water Outlet Temperature : Max.60°C

• Overall Dimension: 400 (D) x 660 (L) x 620 (H) mm, +/- 1 mm Mounting

Dimension: 285(D) x 605 (L) mm CTC, +/-1mm Mounting Bolt Size: M16 x 150 mm

Weight: 300 Kg Approx.

Direction of Rotation : Bi - directional

Power Supply: 0-75VDC 5A,

Continuously Adjustable For Field Coil Excitation

Torque Controller: 4 1/2 Digits,

Load Controller cum Indicator

Calibration Setup: 2 Nos. Cali. Arms with Weights

Load Measurement system

• 50 Kg "S" type Load cell will be provided to measure Dyno load and indicate Using

Load Indicator

Load test will be done by manual mode only.

NOTE: - The Dyno will be constant torque type though RPM is variable.

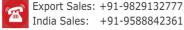
C. Panel with instruments

- Temperature measurement:
- 7 No's of "K" type thermocouples provided to measure temperature at various points
- 8 Channel digital indicator provided to display the temperatures of various point
- Fuel measurement system -Burette with digital stop watch will be provided to measure the fuel consumption with 4 liter fuel tank capacity.
- Air intake measurement system-Air intake measure using 'U' Tube manometer and air
- tank through manual mode Using Air tank, 2 meter length Air duct hose.
- Differential Pressure transmitter will be provided to measure the air flow through digital mode.

D.ENGINE COMBUSTION ANALYZER KIT

Model : Engine Analyzer soft Make : MMI

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MMI V4.5engine combustion analyzer consisting of Software package for Data Acquisition and Analysis with the following specification.

Make: National Instruments

Model: NI USB-6210

Analog Input: 16 Single Ended, 8 Differential Ground reference: AI GND For Analog Input

Digital Input/output: 8 Digital I/O Ground reference: D GND For Digital

Counter Input: 2

Timing accuracy: 50 ppm of sample rate

Timing resolution: 50 ns Output range: ±10 V Output coupling: DC

Input high voltage (VIH): 2.2 V -5.25 V

Input low voltage (VIL): 0 V 0.8 V

Frequency: 250 KHZ

Rotary Encoder with Mounting Arrangement

ü Model: 8.5020.885A.0360.0030

ü Make: KUBLER Germen ü Operating Volt: 10-30VDC

ü Revolution: 360PPR

With coupling adapter for mounting on Dyno Shaft

Combustion Pressure Sensor 1 No

Make: Kistler

ü Pressure range: 0 to 250 Bar

ü Sensitivity (±0,5 %): 0.05 mV/bar

ü Linearity : ≤±0.5

ü Operating temperature range: -50 to 350°C

ü Supply voltage: 18 to 32 VDC

Combustion Analyzer Software Specification This Software is suitable for

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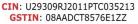


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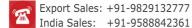


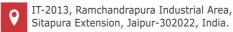
- ü Single Cylinder / Multi Cylinder
- ü Fuel Test for Diesel/ Petrol/ Dual Fuel
- ü Any type of Load(Electrical, Eddy current, Hydraulic)
- ü Read the Engine Cylinder Pressure
- The Following Graphs are generated using this Software
- ü Crank Angle Vs Pressure
- ü Crank Angle Vs Rate of Pressure Rise
- ü Volume Vs Pressure
- ü log (volume) Vs log(pressure)
- ü Crank Angle Vs Heat Release Rate
- ü Crank Angle Vs Cumulative Heat Release Rate
- ü All the Output Result are Stored in one Excel Sheet

2. FIVE GAS ANALYSER

- Make : AVL Model : AVL444N
- Low Maintenance
- Low Warm Up & Response Time
- Wide Range Ac/Dc Operation: With Power Save And Auto Switch Off Mode Rs 232 Interface provision With Special Adaptation Can Be Used For Diesel Engine
- Technical Specifications :
- Display : LCD display
- Interface : RS 232
- Operating voltage: 100....300vac,50-60Hz
- Power consumption : MAX 25w
- Dimensions: 270X85X320mm(wxhi)
- Weight: 4.5KG
- Approval(India): ARAI, PUNE
- Approvals (international): OIML Class 1/CE/ISO 3930:2000/PTB (Europe)
- MEASUREMENT DATA
- GAS Measurement Resolution CO 0....10% VOL 0.01% VOL
- HC 0....20000 PPM VOL 1PPM/10PPM (0- 2000PPM)/(>2000PPM)
- CO2 0....20% VOL 0.1 % VOLO2 0....22% VOL 0.01 % VOL

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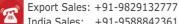
Tesca Technologies Pvt. Ltd.



Order Code - 22236008.1 COMPUTERIZED FOUR STROKE FOUR CYLINDER CRDI DIESEL ENGINE

- NO* 0....5000 PPM VOL 1 PPM VOL
- Equipment (5 Gas Analyzer) -Accessories :
- **Power Supply**
- Adaptor
- Carry Case Probe & Hoses
- Allen Key Size 8 Mains Cord
- RS 232 CABLE
- 2 tube filter
- Pre filter 5
- Round filter100

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