Single Cylinder Optical Access Compression Ignition Research Engine Test Bed	Product Code : TK499
Description :	
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Dynamometer: The Engine Is coupled with 5 HP Eddy Current Dynamometer Eddy current adjustable dynamometer Features Benefits: Torque is transmitted by a magnetic field without friction or wear Simple Design - Dynamometer and small solid state controller Fewer wearing parts - have only four permanently lubricated bearings Stationery coupling coil Controller operates on less than 2% of input power At least One-year warranty **Dynamometer** TORQUE: 4.7Nm to 549Nm 0.48Kg-M to 56Kg-M Standard: Open ventilated Standard: Stationery coil Standard: Class â€⁻Fâ€⁻ Insulation Standard: Epoxy protection on coil 0-80 V DC Standard: Coil Voltages 0% - 100% constant or variable torgue loads: Standard Continuous (S1) Duty AC Tachometer generator: Optional RPM: Up to 3500 RPM (Max) Overload: Up to 250% Short time **Torque Converter** Input Power: 230 V AC 50 Hz Single Phase Standard: Wall mounted enclosure 0 to 80V DC 2.5 Amps/5Amps: Output voltage, current of dynamometer stationery field coil To vary 0% - 100% torque load in Kg-M Standard: Adjustable Potentiometer Power ON/Off selector switch with Indication: Standard Input fuses, low line voltage, line transients, isolated signal circuits, torque limit – standard: Protective features 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 Fuel Measurement: Optical constant volume, fully automatic Speed: Encoder Dynamometer Load: Strain Gauge Load cell Intake Air Temperature Sensor Exhaust Air temperature Intake and exhaust camshaft encoder. Flow and Temperature Sensors for Turbo Air charging unit. Data Acquisition System: High Speed DAC with 1 mega samples/sec Controls: Fuel injection System with controls.

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