

**Product Name :**  
SINGLE CYLINDER FOUR STROKE DIESEL ENGINE  
WITH HYDRAULIC DYNAMOMETER

**Product Code :**  
Heat Engine0003



### Description :

SINGLE CYLINDER FOUR STROKE DIESEL ENGINE WITH HYDRAULIC DYNAMOMETER

### Technical Specification :

Engine : Single-cylinder 4-stroke diesel Engine, Natural aspirated type (Comet make)  
Maximum power (P) : 6.0 HP. (Appx. after modification of engine)  
Rated speed (N) : 1500 R.P.M.  
Speed measurement : Digital RPM Indicator OR Tachometer at Extra Cost  
Temperature : Multi - Channel digital Temperature Indicator  
Compression Ratio (CR) : 6 to 18 (Variable by crank displacement setup)  
Clearance Volume ( $V_c$ ) : 35  $\text{Cm}^3$   
Swept Volume ( $V$ ) : 256  $\text{Cm}^3$   
Piston Stroke (L) : 66 mm  
Bore (D) : 70 mm  
Starting : manual cranking  
Loading (BHP, Maximum) : Hydraulic Dynamometer  
Water cooling : Water cooling for auxiliary Head  
Exhaust gas calorimeter : Shell and Tube Type Calorimeter  
(For Heat balance sheet)  
Engine Output (Kg.) : Digital Load Indicator for dynamometer  
Air flow : By M/S tank, Orifice plate, a Manometer

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Fuel flow rate : Glass Burette with cover  
Required Service : 15 amp single phase electrical connection  
1/2" Continuous water supply  
Proper Rigid Concrete foundation

The whole setup is fitted on M.S. Frame & Control panel.

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