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GENERATING SET -> Diesel Water Cooled-> Single Phase -> Welding Generator

Diesel Engine(PETTER TYPE)

Diesel engines single/double cylinder air/water cooled high speed totally enclosed compression ignition cold starting vertical four stroke with bhp rating as per IS-10001 for general purposes All are of compact design to give non stop dependable service under exacting conditions thorough check of quality inputs and raw materials. present day advance manufacture in process and strict quality controll at each stage of production ensure trouble free operation of all 'VIDHATA" diesel engine

TYPE: Cold Starting,Single/Double Cylinder,vertical.Air & water cooled,totally enclosed,compression ignition,four stroke engine.

ROTATION: he standard rotation is clockwise facing the fly wheel.

COMBUSTION: Open type combustion chamber in an aluminum alloy piston.

BEARINGS: Main bearings are taper roller of finest quality, Large end bearing are of bimetal alloy lined steel backed shell. Bushes for valve rocker and small end of connecting rod are of phosphorus bronze.

GEARS & DRIVE: Standard Engine is fitted with best quality cast iron timings gears. Power take off is possible only from fly wheel end. Special engine is fitted with steel timing gear providing additional power take off from gear end at half or full speed of the engine.

FUEL SYSTEM: Fuel is supplied to the fuel pump by gravity feed through a ceramic filter infuel tank and a fabric filter. A filter is also provided at the inlet of nozzle holder.

LUBRICATING SYSTEM: Force feed by plunger type oil pump to large end bearing. Other working parts are splash lubricated. Filter is provided for cleaning the engine oil.

GOVERNING: Fixed speed centrifugal governor is mounted on the cam shaft gear

wheel.Speed variation is control within limits.

BALANCING: Engine is efficiently balanced with two balance weights bolted on crank shaft.Fly wheel is balance to give smooth operation to ensures long life of moving parts.

EXHAUST SYSTEM: A pepper pot type silencer gives adequate silencing.

AIR CLEANER: Oil washed type or FRITZ paper felt air cleaner is fitted for efficient cleaning.

STARTING: The engine is designed for starting by hand.

CYLINDER HEAD: Cast Iron,detachable type,to provide adequate cooling of parts. Water cooled is available in both front radiator and middle radiator type. Air cooled is available in ordinary fan type or blower type arrangement.

COOLING Air Cooled :- Air cooled are of two types.

Fan Type :- The fan is mounted on the flywheel side. Air circulates through cowling towards the cylinder and cylinder head.

Blower Type :- A blower mounted towards the gear cover is driven by V-belt and powered by the CAM Gear for forced cooling of the cylinder block and head.

Water Cooled :-Radiator Type

Loads

Resistive : - For simple lighting and power loads.

Direct AC Welding :- For welding

Starting Systems

Manual Start :- Handle is used to crank the engine.

Electric Start :- 12 Volt Battery operated starting system.

Mounting System

Mountings are Sturdy channelled base plates with any of the below
Anti-vibration padding /Trolley wheels

ARMATURE: Core of high quality silicon Steel Stampings for minimum energy losses.Core is rigidly keyed to a sturdy shaft and clamped with heavy end-rings.

WINDING AND INSULATION: .and A.C. Windinngs are made of highly conductive super- synthetics enamelled copper wire manufacturedd by top leading Companies in India.With highly varnished and dried field coils and armature windings is of class E insulation.



(MODEL - VWW – 220)

Double cylinder Water Cooled Welding Generator

WELDING GENERATOR	
Type	Direct online Welding
Fuel	H.S. Diesel
Rev. Speed	1500 RPM
Starting	Handle start (Optional- Electrical)
Frequency	50 Hz
Fuel tank	20 liters
Insulation	F Class



(MODEL - VWW – 220)

Double cylinder Water Cooled Welding Generator

WELDING GENERATOR	
Type	Direct online Welding
Fuel	H.S. Diesel
Rev. Speed	1500 RPM
Starting	Handle start (Optional-Electrical)
Frequency	50 Hz
Fuel tank	10 liters
Insulation	F Class

Technical Specification

Model	VWW - 220	VWW - 400
WELDING ROD SIZE (SWG.)	12 TO 8.0	12 TO 6.0
WELDING ROD SIZE (mm)	2.5 TO 4.0	2.5 TO 5.0
WELDING CURRENT (AMPS)	Max. 220	Max. 400
CURRENT CONTROLLING	4 STEPS	4 STEPS
SINGLE PHASE LOAD AT 230 V	2.0 KW(8.7 Amp)	3.0 KW(13 Amp)

Prime Mover		
DIESEL ENGINE RATING	12.0 H.P.	20.0 H.P.
NO. OF CYLINDER	ONE	TWO
COOLING	WATER	WATER
NET WEIGHT OF UNIT	343.0 Kg	425.0 Kg
GROSS WEIGHT OF UNIT	520.0 Kg	585.0 Kg
PACKING SIZE (LxWxH) CM.	135 X 56 X 119	159 X 66 X 123
USER SECTORS	DOMESTIC, COMMERCIAL AND INDUSTRIAL	
APPLICATION	DIRECT ONLINE WELDING	