

INDIA'S LEADING GENSET/ENGINES EXPORTED WORLD WIDE



**ENGINE
PUMPING SET
GENSET &
SPARES**



AN ISO 9001:2000
AN ISO 14001
CERTIFIED COMPANY



DIESEL ENGINE

INTRODUCTION : Diesel engines both in the indigenous market and abroad have received approbation for their reliability, economy in operation, durability longer life and exquisite performance. Specially designed to meet the needs of the agricultural sector and many various general uses.

TYPE : Vertical, Water cooled, Air cooled, Compression ignition, Four stroke cycle, Cold start, constant speed diesel engines.

ROTATION : The standard rotation is clock-wise facing the fly-wheel in High Speed engines and facing fuel pump in Slow Speed engines.

STARTING : Cold starting by manual cranking. A detachable pawl type starting handle is supplied.

FUEL SYSTEM : Fuel is supplied to the fuel pump by gravity feed from fuel tank through felt/fabric/paper element filter. A button filter is also provided at the inlet of Automizer.

LUBRICATION : Force feed by plunger type lubricating oil pump to large end bearing. Main bearing, cam shaft bush bearing, Rocker arm bushes etc, are Splash lubricated in High speed engines but in slow speed engines valve, Rocker bush are manually lubricated and all other parts are splash lubricated. In Double cylinder engines force feed by Gear type lubricating oil pump to main bearings, large end bearings and oil the parts are splash lubricated.

BEARINGS : Main bearings are taper roller bearing. Large-end bearings and main bearing of Double cylinder engines are white metal or aluminum alloy lined, steel backed thin walled bearings valve rocker, Small end connecting rod and cam shaft are provided with bush bearings.

GOVERNING : Constant Speed centrifugal governor is mounted on the cam shaft gear wheel. Speed variation is controlled within limits to comply with Indian Standard Specifications.

BALANCING : Engine is efficiently balanced with two balance weights bottles on Crank Shaft in high speed engine and in slow speed engine the balance weights are provided in fly wheel itself. Flywheel is statically balanced to give smooth operation and ensure long life of parts.

COOLING : Engines are water cooled and cooling is arranged by run through water supply or radiator or cooling tank. In Air cooled engines cooling fan is provided in the engine.

EXHAUST SYSTEM : To minimise the exhaust sound a pepper-pot type silencer is provided.

AIRCLEANER : Oil bath type air cleaner is fitted for efficient cleaning of inlet air.

STANDARD EQUIPMENT : 1. Starting Handle 2. Five Wrenches 3. Exhaust Silencer 4. Air Cleaner 5. Screw Driver

HIGH SPEED WATER COOLED SINGLE CYLINDER

H.P.	KW	R.P.M.	BORE mm	STOCK mm	S.F.C. g/kWh.
3.5	2.6	1500	85.0	80.0	249
4.0	2.9	1500	85.0	80.0	249
4.5	3.3	1500	85.0	110.0	249
5.0	3.7	1500	80.0	110.0	243
6.5	4.8	1500	85.0	110.0	249
7.5	5.5	1500	87.5	110.0	251

HIGH SPEED WATER COOLED SINGLE CYLINDER

8.0	5.9	1600	87.5	110.0	251
10.0	7.36	1500	95.0	115.0	251
12.0	8.8	1600	102.0	115.0	251

HIGH SPEED WATER COOLED SINGLE CYLINDER

14.0	10.3	1500	114.3	115.0	251
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HIGH SPEED AIR COOLED SINGLE CYLINDER

4.0	2.9	1500	80.0	80.0	249
5.0	3.7	1500	80.0	110.0	249
6.25	4.6	1500	85.0	110.0	249
7.0	5.15	1500	87.5	110.0	251
8.0	5.9	1500	95.0	115.0	251
10.4	7.64	1500	102.0	115.0	251

SLOW SPEED WATER COOLED SINGLE CYLINDER

8.0	5.9	850	120.0	139.7	268
10.0	7.36	1000	120.0	139.7	268

SLOW SPEED WATER COOLED SINGLE CYLINDER

12.0	8.8	1000	120.0	139.7	268
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HIGH SPEED AIR COOLED DOUBLE CYLINDER

12.0	8.8	1500	85.0	110.0	251
14.0	10.3	1500	87.5	110.0	251
15.76	11.6	1500	95.0	110.0	251
20.0	14.7	1500	102.0	115.0	251

HIGH SPEED WATER COOLED DOUBLE CYLINDER

12.0	8.8	1500	85.0	110.0	251
15.0	11.0	1500	87.5	110.0	251
17.0	12.5	1500	95.0	115.0	251
20.0	14.72	1500	102.0	115.0	251
26.0	19.14	1500	114.3	115.0	251





AGM 40 DIESEL ENGINE

Model	Capacity	Speed	Volts	Phase	Starting	Self Protection
70X70	4	2800	279	AIR	HAND STARTING	44

WATER COOLED WELDING GENERATING SET

SINGLE PHASE LOAD	WELDING ROD SIZE		BHP	RPM
	IN SWG	IN MM		
2.0kW / 220 V	12.0 TO 8.0	2.5 TO 4.0	10	1500
4.0kW / 220 V	10.0 TO 6.0	3.1 TO 5.0	20	1500
2.5kW / 220 V	12.0 TO 8.0	2.5 TO 4.0	13	1500

DIESEL GENERATING SET

INTRODUCTION : Our Generating sets are appropriate answer to frequent power failure and flickering of supply voltages to save all Household appliances and all type of Costly Gadgets.

SALIENT FEATURE : The Generating set consist of one Diesel Engine as Prime mover and one Alternator as power generating source and both are coupled through self aligning rubber coupling and mounted on a robust Mild Steel Channel frame fitted on rubber wheels which provides the sets easy movability and acts as damper to vibration. So the set can be installed either on ground floor or on roof top with provision of shielding against rain water.

DIESEL ENGINE : Our Engines are manufactured under able guidance of well experienced Engineers with Strict Control on quality of finished product and raw material through various testing processes of each component and engine. Crank shaft and connecting rods are made of EN8 steel by drop forging process and tempered properly and then ground to close tolerances. Aluminum pistons of reputed make are used. All other Components which ever are used are made by large and reputed concern of our Country.

ALTERNATORS : Our Alternators are made as per IS - 13364, robust in structure and sturdy in performance in both Single Phase and Three Phase type an are of Low Temperature Rise and High Efficiency in well machined Seal Casting body and Cast-Iron End Covers with proper ventilating ducts for efficient cooling.

Four equally spaced Pole Shoes are mounted on the body and perfectly machined to maintain uniform air gap for better efficiency.

Armature is made of Silicon Stampings Properly Keyed and Welded on a heavy duty shaft, Machined and ground on cylindrical grinding machine and dynamically balanced.

Field Coils and Armatures are with best electrolytic Super Enamelled Copper wire with 'E' class Insulations and preheated and dried in Oven after varnishing with Dr. Becks varnish in a VACUUM IMPREGNATING PLANT.

Best quality heavy duty Ball Bearings with high melting point prease, spark free gun metal, slip rigs, Brush holder with insulated fittings and copper brushes for efficient collection of current are used for longer life and highly efficient performance.



WATER COOLED SINGLE CYLINDER

KVA	KW	AMP.	BHP	PHASE
2.2	2.2	8	4	1
4	4	12	6.5	1
5	5	20	8(87.5)	1
5	5	24	8(95)	1
6	6	26	10(95)	1
6	6	30	10(102)	1
7	7	30	12(102)	1
7.5	7.5	34	14(114.3)	1
6.25	5	7	8(95)	3
7.5	6	9	10(102)	3
8.75	7	11	12(102)	3
10	8	13	14(114)	3

AIR COOLED SINGLE CYLINDER

KVA	KW	AMP.	BHP	PHASE
2.2	2.2	6	4	1
4	4	10	6.5(85)	1
5	5	18	8(87.5)	1
5	5	20	8(95)	1
6	6	24	10(95)	1
6	6	24	10(102)	1
7	7	28	12(102)	1
7.5	7.5	30	14(114.3)	1
6.25	5	7	8(95)	3
7.5	6	9	10(102)	3
8.75	7	11	12(102)	3
10	8	13	14(114)	3

WATER COOLED DOUBLE CYLINDER

KVA	KW	AMP.	BHP	PHASE
8	8	40	15(87.5)	1
10	10	48	18(95)	1
12	12	56	20(102)	1
15	15	64	28(114)	1
10	8	16	15(87.5)	3
12	10	18	18(95)	3
15	12	22	20(102)	3
20	16	28	28(114)	3

AIR COOLED DOUBLE CYLINDER

KVA	KW	AMP.	BHP	PHASE
8	8	40	15(87.5)	1
10	10	48	18(95)	1
12	12	56	20(102)	1
15	15	64	28(114)	1
10	8	16	15(87.5)	3
12	10	18	18(95)	3
15	12	22	20(102)	3
20	16	28	28(114)	3





PUMPING SET

CONSTRUCTIONAL FEATURES :

- CASTING:**
Volute casting is made of close grained cast iron, designed with smooth spiral passage to Convert kinetic energy into pressure energy with low resistance to flow.
- IMPELLER:**
The impeller made of close grained cast iron has well designed vanes to convert most of the velocity into pressure with a high degree of efficiency.
- SHAFT:**
Made of ground EN 9 Steel for minimum wear and tear and long life.
- BALL BEARING:**
Grease lubricated ball bearing is of the highest quality to give noise and trouble free operation.
- SUPPORTING FRAME:**
Sturdy cast iron construction to with stand axial thrust.
- STUFFING BOX:**
Well designed with high quality graphited gland packing to provide effective water, seal and cool and friction less operation.
- SUCTION DELIVERY PIPE FLANGES:**
Faced and drilled for leak proof mounting.
- QUALITY CONTROL & TESTING:**
Each component of the pump is subjected to rigorous inspection at various stage of manufacture and assembly resulting in a high quality standard of the pump. Full performance testing of the pumps is done as per statistical quality control plan.

Note : Specifications Are Subject To Change Without Prior Notice.



GLAND TYPE WATER PUMPS

Size In inch	R.P.M.	Head Meter	Disch. LPS	Recommended Engine H.P
80 x 65	1500	15	15	5.0
80 x 80	1500	15	16	5.0
100 x 80	1500	12	17	6.5
100 x 100	1500	12	17	8.0

OIL SEAL TYPE WATER PUMPS

65 x 50	1450	9.5	11	3.5
80 x 65	1500	9.5	14	4.5
80 x 65	1500	15	17	5.0
100 x 100	1500	12	22	6.5

SPLIT CASING GLAND TYPE WATER PUMPS

100 x 80	1500	11	24	6.5
100 x 100	1500	10	25	6.5
125 x 125	1500	9	28	6.5
150 x 125	1500	8	30	6.5
150 x 150	1500	9	32	6.5
150 x 150	1500	9	40	8.0
80 x 65	1500	30	17	12.6
100 x 80	1500	30	24	15.0
65 x 50	1500	27	13	9.0
125 x 100	1500	20	40	20.0
125 x 100	1500	17.5	48	20.0
125 x 100	1500	17.5	65	25.0

ASSOCIATED COMPANY OF GROUP



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