

WATER COOLED DIESEL ENGINE FOR MULTI AGRICULTURAL APPLICATIONS

Irrigating Smiles

IMS 1

IMK 1



INDRA MARSHAL POWER PVT. LTD.

IS : 11170-1985



CM/L : 1926867

FOR EARTH, FOR LIFE

ENGINE SPECIFICATION

▶ **TYPE :**

Vertical, single cylinder, water-cooled, totally enclosed, compression ignition, four-stroke cycle, cold starting diesel engine.

▶ **COMBUSTION :**

Open type combustion chamber in an aluminium alloy piston, in combination with long-stem nozzle, resulting in low fuel consumption and easy starting.

▶ **FUEL SYSTEM :**

Fuel is supplied to the fuel pump by gravity feed from the fuel tank & through efficient fuel filter.

▶ **FUEL TANK CAPACITY :**

11.5 Ltr.

▶ **LUBRICATION :**

Engine moving parts are lubricated partly by force feed and partly by splash lubrication. By-pass filter is provided to clean the lubricating oil. Lube oil is supplied under pressure by a gear type lub .oil pump.

▶ **LUBE OIL SUMP CAPACITY :**

3.75 Ltr. at higher level mark on dipstick.

▶ **COOLING :**

Engine cooling is arranged by run-through water supply or radiator/tank cooling.

▶ **GOVERNING :**

Class 'B1' type.

▶ **ROTATION :**

Standard rotation is clockwise from the flywheel end. Engines with anti-clockwise rotation can be built against specific requirement.

▶ **STARTING :**

Hand start.

▶ **DRIVE :**

Standard power take off is from flywheel side. In case of special requirement, power take off from gear end at half or full engine speed, can be provided.

▶ **STANDARD EQUIPMENT :**

Starting handle, exhaust silencer, air cleaner, set of tools.

TECHNICAL DATA

Engine Model	IMS1	IM K1
No. of Cylinders	1	1
Bore x Stroke (mm)	87.5x110	95X110
Cubic Capacity (Ltr.)	0.661	0.780
Compression ratio	17.5:1	17.5:1
Rated output Kw (HP) @RPM as per IS:11170:1985	5.9(8.0)@1800 RPM	5.9(8.0)@1500 RPM
SFC (gm/kw-h)	251	251
Overall dimensions of standard engine		
length (mm)	617	617
width (mm)	532	532
height (mm)	877	877
Crankshaft center height (mm)	203.2	203.2
Dry weight of engine with flywheel (kg)	178	180

Manufactured By : Indra Marshal Power Pvt. Ltd

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