



INDRAMARSHAL[®]

WATER COOLED DIESEL ENGINES FOR PUMPSETS

IM 1

IM 65

IM T1



Improving Agriculture, Improving Lives.

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 fuel filter.

▶ **FUEL TANK CAPACITY :**

6.5 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 SUMP CAPACITY :**

3.3 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.

▶ **OPTIONAL :**

Flexible coupling, pulley key type or drum type, wate

TECHNICAL DATA

Engine model		IM1	IM65	IM T1
No. of Cylinders		1	1	1
Bore x stroke (mm)		80 x 110	85 x 110	87.5 x 110
Cubic capacity (Ltr.)		0.553	0.624	0.661
Compression ratio		16.5:1	16.5:1	17.5:1
Rated output kW(hp) as per IS:11170-1985	1500 rpm	3.7 (5.0)	4.8 (6.5)	5.2 (7)
SFC (gm/kw-h)		245	251	251
Overall dimensions of standard engine	length (mm)	617	617	617
	width (mm)	504	504	504
	height (mm)	843	843	877
Crankshaft center height (mm)		203.2	203.2	203.2
Dry weight of engine with flywheel (kg)		130	130	136