



ENGINES FOR CONSTRUCTION EQUIPMENTS



New

Available in 2 colours

New



PARAMMVEER

**3 HP lightweight
Diesel Engine**

V12

**1.5 HP lightweight
Petrol / kerosene
Engine**

C12

**1.5 HP sturdy
Petrol / kerosene
Engine**

**THE ONLY COMPANY IN INDIA WITH
VILLIERS (U.K.) COLLABORATION**

TECHNICAL SPECIFICATIONS - Engines

MODEL SPECIFICATION	V12	PARAMMVEER	C12
Type	4 Stroke, Air cooled, Single Cylinder, (Aluminum Crankcase) Horizontal Shaft & Side Valved	Single Cylinder, Vertical, 4-Stroke	4 Stroke, Air cooled, Single Cylinder, Horizontal Shaft & Side Valved, Constant Speed, Spark Ignited Engine
Bore X Stroke	55mm X 50mm	70 mm X 55 mm	55 mm X 50 mm
Piston Displacement	120 cc	211 CC	120 CC
Power – Rated	1.1 Kw / 1.5 Hp @ 3000 RPM / HSPP / HSD 1.4 Kw / 1.9 Hp @ 3000 RPM (HSP)	2.2Kw / 3.0 Hp @ 3000 RPM	1.1Kw / 1.5 Hp@3000 RPM HSPP/HSD 1.4 Kw/ 1.95 Hp@3000 RPM (HSP)
Maximum Output	2 HP	3.0(2.24) HP(KW)	2.0 HP
Cooling system	Forced Air Cooling	Forced Air Cooling by Flywheel Fan	Forced Air Cooling
Starting system	Recoil Starting & Rope	Rope & Pulley	Rope Start (Recoil start optional)
Ignition system	Flywheel Magneto	Direct Injection system	Flywheel Magneto
Combustion system			
Fuel Tank capacity	Petrol : 0.50 Lts, Kerosene : 3.5 Lts	2.5 Lts	Petrol : 0.5 Lts, Kerosene : 2.25 Lts (HSPP), Petrol : 2.75 Lts - (HSP), Diesel : 0.5 Lts, Diesel : 2.25 Lts - (HSD)
Fuel	Petrol , Kerosene, Diesel	Diesel	HSPP - Petrol start Kerosene run HSP - Petrol, HSD - Petrol start / Diesel run
Consumption rate of fuel	700 gm/Kw.Hr.	300 g/Kw.Hr.	
Oil capacity	700 ml	750 ml	570 ml
Lubricant	SAE 20W 40	SAE 20W 40	SAE 20W 40
Lubricating system	Splash Type	Forced Lubrication via Trochoidal pump, Splash lubrication for valve rocker arm chamber	Splash system
Direction of PTO Shaft Rotation	Anti Clockwise	Anticlockwise viewed from PTO side	Anti Clockwise
Spark Plug Petrol	Petrol / Kerosene MICO W8DC Diesel / MICO, W8DC		HSPP & HSD -M45Z8 HSP - W95T1
Governor	Centrifugal Fly Weight		Centrifugal Fly Weight
Compression Ration	4.5:1 (HSPP) 5.6:1 (HSP)	19.9	4.5:1 (HSPP & HSD), 5.6:1 (HSP)
Carburettor	B10/2 (Down Draft)		B10/2 (Downdraft)
Air Cleaner	Oil Wetted	Oil Wetted	Oil Wetted
Engine dry weight	14 kgs	26 Kgs	17kgs (HSPP & HSD), 16.5(HSP)
Intake & Exhaust Valve Clearance	15 mm - 20 mm 20 mm - 25 mm	0.10 – 0.15mm (Cold state)	15 mm - 20 mm 20 mm - 25 mm

Manufactured & Marketed By:

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DEALER ADDRESS