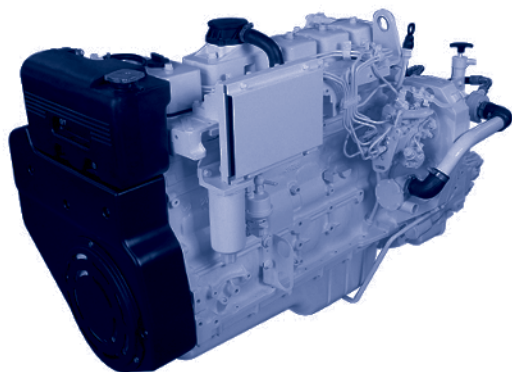


# N-Series Diesels



**N45-100 - 100 HP at 2800 RPM**

**N67-150 - 150 HP at 2800 RPM**

**'FPT by Lancing Marine', based upon a proven base engine by one of the World's leading engine manufacturers and supported by Lancing Marine giving worldwide parts availability.**

Engine specifications may vary as improvements are introduced  
Specifications are subject to change without notice and are not for engineering purposes  
See the Lancing Marine Price Book for Complete Installation Kit  
Lancing Marine reserve the right to alter specifications without notice

## Design Features

### Engine

Low noise, high strength, rugged bottom end with 7 main bearings, piston cooling, thick wall parent bore. Large diameter valves to improve volumetric efficiency. High compression ratio for faster starts and warm ups with reduced white smoke.

### Fuel system

High nozzle opening pressures for high fuel efficiency and low smoke. Self air purge fuel pump, automatic excess fuel and timing retard for excellent cold starting.

### Reliability

The 'FPT by Lancing Marine' range is derived from a partner collaboration of major manufacturers, extensively used in automotive, industrial and agricultural tractor applications.

### Serviceability

Piston jet oil cooling for extended life. Long filter and oil change intervals (600 hours pleasure). Self adjusting poly vee drive belt for alternator and fresh water pump for low slippage with minimal power loss and longer bearing life.

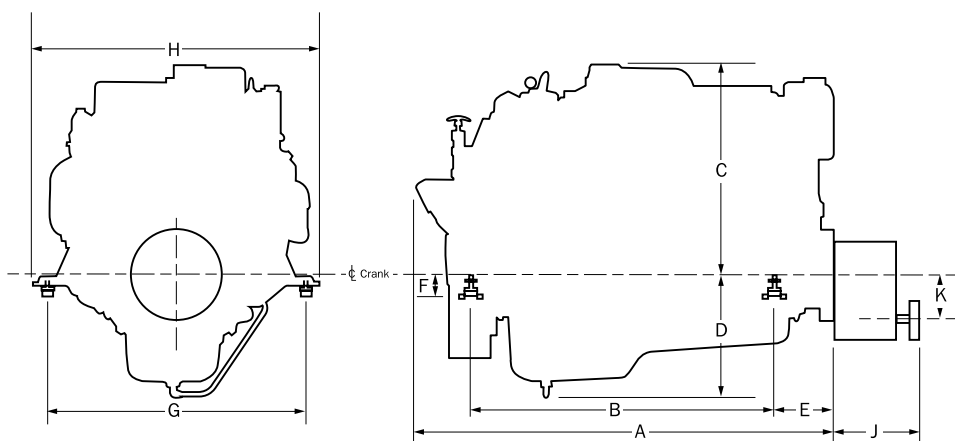
## Variation to standard specification (see inside front cover) and extra optional items for this engine type

### Additional standard items

Electric run/stop control  
Full power dynamometer test  
Oil sump drain pump

### Optional items

Drive belt guard  
Power take-off pulley or shaft  
Keel cooling and dry exhaust in lieu of heat exchanger system



Dimensions J & K can be found in the gearbox specification pages 9 - 15

### Dimensions in mm

	N45-100	N67-150
A	811	1071
B	648	888
C	585	585
D	257	335
E	60	60
F	115	115
G	610	610
H	700	705

## Detailed specification

Engine model	N45-100	N67-150	Engine model	N45-100	N67-150
Power Maximum H.P. pleasure	100	150	Max Fuel Flow required, lit/hour (includes return)	140	
RPM Maximum	2800	2800	Fuel feed diameter, mm	9	
Torque Maximum Nm	310	465	Fuel return diameter, mm	9	
Cubic capacity, litres	4.5	6.7	Exhaust diameter, ins (mm)	4 (102)	
Bore, mm	104		Water intake diameter, mm	35	
Stroke, mm	132		Coolant capacity, lit	21	22.5
Aspiration	Normally aspirated		Oil capacity, lit	11.5	16.5
Engine rotation	Anti-clockwise viewed from rear		Weight, Engine, Kg	430	530
Compression ratio	17.5:1		Guide to sterngear		
Electrics 12v earth return Alt, Amps	90		Max. Prop. dia. for gear ratio 1.5:1 ins	19"	21"
Minimum battery size	1X180 AH 12 volt		Min. Shaft Dia. St. St. mm	35	35
Minimum starter cable, length=size	0.6M = 70mm <sup>2</sup> /1.2M = 95mm <sup>2</sup>		Speed range for this ratio (knots)	14-30	18-31
Engine operating angles			Max. Prop. dia. for gear ratio 2:1	24"	26"
Engine front down (degrees)	0		Min. Shaft Dia. St. St. mm	40	45
Sideways (degrees)	22		Speed range for this ratio (knots)	9-25	11-28
Engine front up (degrees)	20		Max. Prop. dia. for gear ratio 3:1	31"	33"
			Min. Shaft Dia. St. St. mm	50	55
			Speed range for this ratio (knots)	6-20	7-22