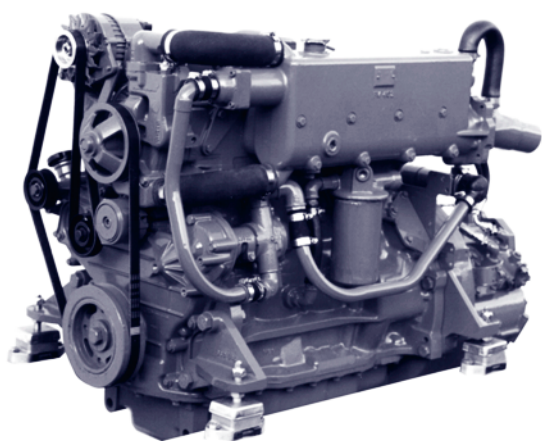


New Holland Diesel 4 cylinder



NHD450L - 85 HP at 2000 RPM
NHD450 - 105 HP at 2500 RPM

New Holland parts support throughout Europe, the Americas and countries worldwide

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 5 main bearings, piston cooling, thick wall parent bore. Balancer shaft for smooth running. 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. Automatic excess fuel and timing retard for excellent cold starting, and thermostart for -20° operation. Tight governor control available for heavy duty PTO applications.

Reliability

A robust designed engine for long life. Cast iron crankcase for maximum rigidity.

Serviceability

Piston jet oil cooling for extended life. Long filter and oil change intervals (300 hours). 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

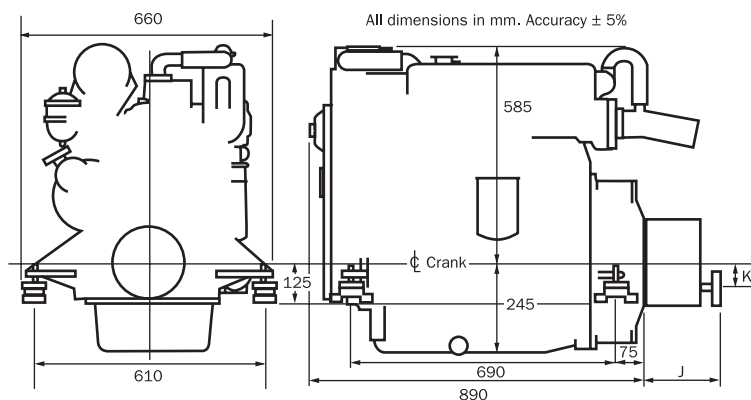
Additional standard items

Electric run/stop control
 Full power dynamometer test on 105HP engine

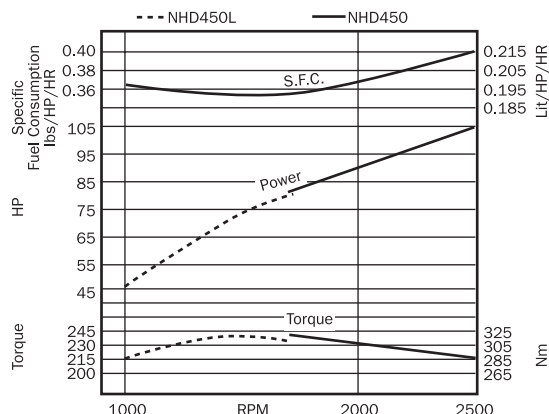
Optional items

Aluminium sump
 Continuous run bilge pump
 Power take-off pulley or shaft

Keel cooling and dry exhaust in lieu of heat exchanger system
 24v electrics
 Electronic speed control



Dimensions J & K can be found in the gearbox specification pages 12 - 16



Detailed specification

Engine model	NHD450L	NHD450	Engine model	NHD450L	NHD450
Power Maximum H.P.	85	105	Max Fuel Consumption, lit/hour	16	22
RPM Maximum	2000	2500	Fuel feed diameter, ins (mm)	5/16 (8)	
Torque Maximum Nm	337		Fuel return diameter, ins (mm)	5/16 (8)	
Cubic capacity, litres	5		Exhaust diameter, ins (mm)	3 (75)	
Bore, mm	112		Water intake diameter, (mm)	22	
Stroke, mm	127		Coolant capacity, lit	14	
Aspiration	Natural		Oil capacity, lit	12	
Engine rotation	Anti-clockwise viewed from rear		Weight, Engine, Kg	434	436
Compression ratio	17.5:1		Guide to sterngear		
Electrics 12v earth return Alt, Amps	70		Max. Prop. dia. for gear ratio 1.5:1 ins	23"	17"
optional 12v insulated Alt, Amps	70 or 105		Min. Shaft Dia. St. St. ins (mm)	1 3/8 (35)	1 3/8 (35)
optional 24v insulated Alt, Amps	40		Speed range for this ratio (knots)	7-14	14-24
Minimum battery size	1X143 AH 12 volt		Max. Prop. dia. for gear ratio 2:1	29"	23"
Minimum starter cable, length=size	0.6M = 70mm ² /1.2M = 95mm ²		Min. Shaft Dia. St. St. ins (mm)	1 5/8 (45)	1 1/2 (40)
Engine operating angles			Speed range for this ratio (knots)	5-10	7-14
Engine front down (degrees)	5		Max. Prop. dia. for gear ratio 3:1	36"	35"
Sideways (degrees)	35		Min. Shaft Dia. St. St. ins (mm)	2 (50)	2 (50)
Engine front up (degrees)	30		Speed range for this ratio (knots)	3-10	3-10