



powering **marine** safety

D4-175

BUKH SOLAS MARINE DIESEL ENGINE
175 HP (129 KW)



The BUKH 4-cylinder D4-175 is developed from the latest design in modern diesel technology. The engine has common rail fuel injection system, double overhead camshafts, 4 valves per cylinder, turbocharger and aftercooler.

Together with a large swept volume and the EVC system (Electronic Vessel Control), this results in world-class diesel performance.



TECHNICAL DESCRIPTION:

ENGINE BLOCK AND HEAD

- Cast iron cylinder block and cylinder head
- Ladder frame fitted to engine block
- 4 valve technology with hydraulic lash adjusters
- Double overhead camshafts
- Oil cooled pistons with two compression rings and one oil scraper ring
- Integrated cylinder liners
- Replaceable valve seats
- Five bearing crankshaft
- Rear end camshaft transmission

ENGINE MOUNTING

- Flexible engine mounting

LUBRICATION SYSTEM

- Easily replaceable separate full-flow and by-pass oil filter
- Seawater cooled tubular oil cooler
- Oil level and oil temperature sensors
- Crankcase oil separator, maintenance free unit

FUEL SYSTEM

- Common rail fuel injection system, 2000 bar
- Electronically controlled central processing system
- Fuel pressure sensor that indicates clogging in fuel filters
- Single fine filter with water separator and water in fuel alarm

AIR INLET AND EXHAUST SYSTEM

- Air filter with replaceable insert
- Crankcase gases vented into the air inlet
- Exhaust elbow or exhaust riser
- Freshwater cooled turbocharger
- Loss of sea water alarm

COOLING SYSTEM

- Thermostatically regulated freshwater cooling
- Seawater tubular heat exchanger
- Coolant system prepared for hot water outlet
- Seawater impeller pump
- Engine mounted seawater strainer

ELECTRICAL SYSTEM

- Marine alternator (12V/150A or 24V/80A)
- Automatic fuses for engine, transmission and EVC
- Auxiliary stop button
- Power connections and fuses co-located in one connection box on engine

INSTRUMENTS/CONTROLS

- Complete instrumentation/display packages, including e-key
- Electronic shift and throttle available as extras
- Plug-in connections

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D4-175 Specifications

Engine type	D4
Engine duty rating	C9 - Special Light Duty Commercial_4
Crankshaft power [hp(kW)]	175 (129)
Rpm@full load	2800
Cylinders	In-line 4
Displacement [L]	3,67
Bore [mm]	103
Stroke [mm]	110
Compression ratio	18.0:1
Injection system	Common Rail fuel injection system
Alternator [V -A]	12V - 150A / 24V - 80A
Electronic engine diagnostic	YES
Max. Fuel consumption [L/h]	33,5
Dry Weight bobtail [kg]	510
Propulsion system	Shaft Drive / Waterjet

As BUKH is always endeavouring to improve the engines, specifications mentioned are subject to alterations without previous notice.

D4-175 Dimensions

Not for installation

