BUKH powering marine safety

D13-600 BUKH SOLAS MARINE DIESEL ENGINE 600 HP (441 KW)

The BUKH D13 in-line 6 cylinder diesel is developed from the latest design in modern diesel technology. The engine has a robust block with ladder frame, high pressure unit injector system, 4 valves per cylinder, "twin entry" waste gate turbo and after cooler, as well as electronic engine management system. The result is a very smooth-running engine with world-class diesel performance, combined with low fuel consumption and emissions.

TECHNICAL DESCRIPTION:

ENGINE BLOCK AND HEAD

- Cast iron cylinder block
- One-piece cast iron cylinder head
- Ladder frame fitted to engine block
- Replaceable wet cylinder liners and valve seats/ guides
- Drop forged crankshaft with induction hardened bearing surfaces and fillets with 7 main bearings
- 4 valve per cylinder layout with overhead camshaft and center position of unit injectors
- Each cylinder features cross-flow inlet and exhaust ducts
- Gallery oil cooled cast aluminium alloy pistons with three piston rings
- Rear-end transmission

ENGINE MOUNTING

Flexible engine mounting

LUBRICATION SYSTEM

- Integrated oil cooler in cylinder block
- Rear positioned twin full flow oil filter of spin-on type
 and by-pass

FUEL SYSTEM

- Electronic high pressure unit injectors
- Gear-driven fuel pump and injection timing
- Electronically controlled central processing system
 (EMS Engine Management System)
- Single fine fuel filter of spin-on type

AIR INLET AND EXHAUST SYSTEM

- Mid-positioned twin entry turbocharger and charge air cooler
- Air filter with replaceable inserts
- Wet exhaust elbow/riser (option)

COOLING SYSTEM

- Freshwater-cooled charge air cooler
- Seawater cooled plate heat exchanger
- Coolant system prepared for hot water outlet
- Easily accessible seawater pump in rear end of flywheel housing

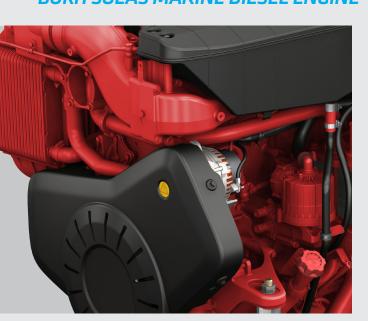
ELECTRICAL SYSTEM

24V/110A alternator

INSTRUMENTS/CONTROLS

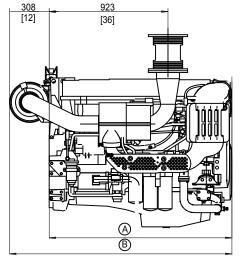
- Complete instrumentation including key switch and interlocked alarm
- EVC monitoring panels for single or twin installations
- Electronic shift and throttle
- Plug-in connectors
- EVC system color display (optional)

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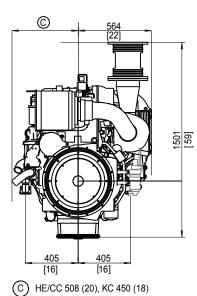
D13-600 Dimensions

Not for installation



HE/CC 1420 (56), KC 1465 (58) (A)

HE/CC 1728 (68), KC 1773 (70) (B)



550

500

450

400

350

300-

250

200

150

100

D13-600 Specifications

D13 Power 1. Crankshaft power 2. Calculated propeller load exp. 3

1400

1200 Rpm

D13-400 D13-450 D13-500 D13-550 D13-600

Engine type	D13 00 9/1
Engine duty rating	C2 - Continuous Duty Commercial_2
Crankshaft power [hp(kW)]	600 (441)
Rpm@full load	1900
Cylinders	In-line 6
Displacement [L]	12.78
Bore [mm]	131
Stroke [mm]	158
Compression ratio	16.5:1
Injection system	Electronic high pressure unit injectors
Alternator [V -A]	24V – 110A
Electronic engine diagnostic	YES
Max. torque, NM @ 1400 rpm	2399
Dry Weight Bobtail [kg]	1520
Propulsion system	Shaft drive

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

Nm

1200

1000

an

metric

600

550

-500

450

-400 -350 -300 -250 -200

1800

D13 Torque Torque measured at crankshaf 2600 2400 2200 2000 1800 1600 1400

kpm

242

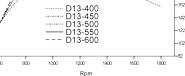
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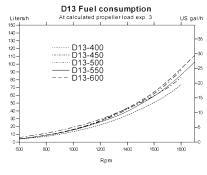
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SOLAS approved by Det Norske Veritas Notified Body: No. 0575

