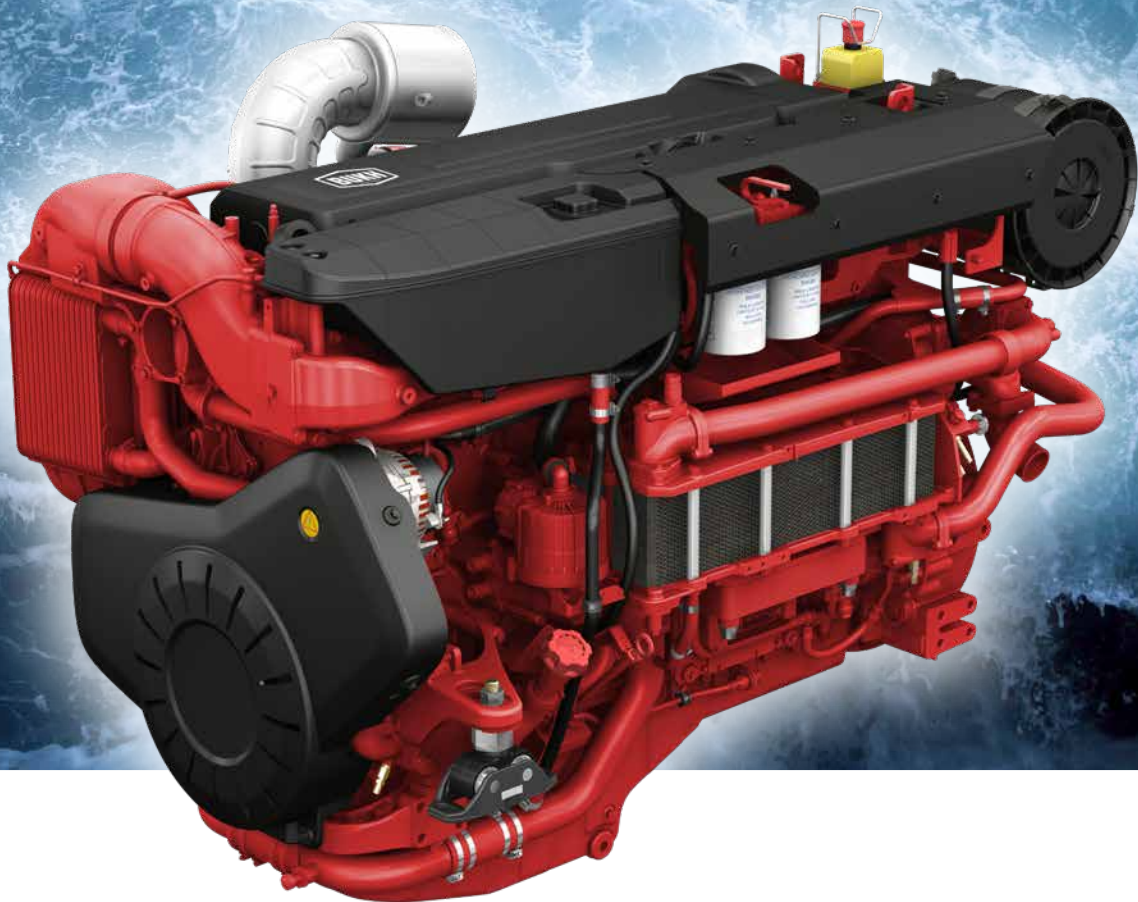




COMMERCIAL AND SOLAS APPLICATIONS

MARINE DIESEL ENGINES

BUKH 24-1000HP



www.bukh.dk



120 Years

of experience with diesel engines

“Our goal is not short-term profit but long-term success”

Søren Christiansen, CEO/Owner of BUKH A/S



BUKH – the most reliable marine engines in the world.

With **120 years of experience** BUKH A/S is one of the world's leading OEM manufacturers of Marine Diesel Engines for lifeboats, fast rescue boats and work boats.

Dedication to life and safety at sea is our number one priority

In 1995 we decided to merge our two companies **Motorfabriken BUKH A/S** and **Aabenraa Motorfabrik Heinrich Callesen A/S**. At first into the name of Aabenraa Motorfabrik – a name we changed to **BUKH A/S** in 2010.

Lifeboat engines are our main product range. But the selection of engines has been extended to cover other power ranges and segments through close co-operation with acknowledged global partners who all share our vision of commitment and quality. The quality of our products is ensured by type approval of the engines and ISO certification of BUKH A/S.

From tractors and generators to lifeboat engines

Founded in 1899, Aabenraa Motorfabrik launched their **first marine engine in 1904**, the same year as Motorfabriken BUKH was founded. While Aabenraa Motorfabrik focused entirely on supplying fishing boats and freighters worldwide with heavy-duty Callesen engines, Motorfabriken Bukh engaged successfully in the tractor and emergency power generating segments and developed engines for small work boats and pleasure boats.

This kind of engine turned out to be very suitable for lifeboats, so Motorfabriken Bukh phased out the production of tractors and generators to focus on lifeboat engines.

Today we continue to improve our engines and extend our range to meet the markets' demands.



BUKH LIFEBOAT ENGINES

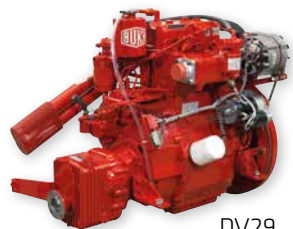
& Commercial Applications

24-75HP

- Lifeboats/Work Boats/Small Fishing Vessels etc.
- Up to 6 different starting systems
- Hand start
- Cold Start certified down to minus 40° C
- 24-48HP
- SOLAS approved
- Heavy Duty Continuous rating
- 100,000+ manufactured



DV24



DV29



DV32



DV36



DV48

BUKH DV24 / DV29 / DV32 / DV36 / DV48

2 or 3 cylinders - 24/29/32/48 HP at 3600 rpm

The classic SOLAS approved BUKH DV is a genuine marine engine designed for a rough life at sea. It is a robust heavy-duty engine that meets the authorities' – and users' – uncompromising demands for operational reliability. The engine withstands idle life in the lifeboat under extreme weather conditions. All these features establish the BUKH DV engines as the first choice of many lifeboat builders.

SOLAS approved starting systems

The traditional electric start can be combined with

- Hand start
- Hydraulic start
- Spring start

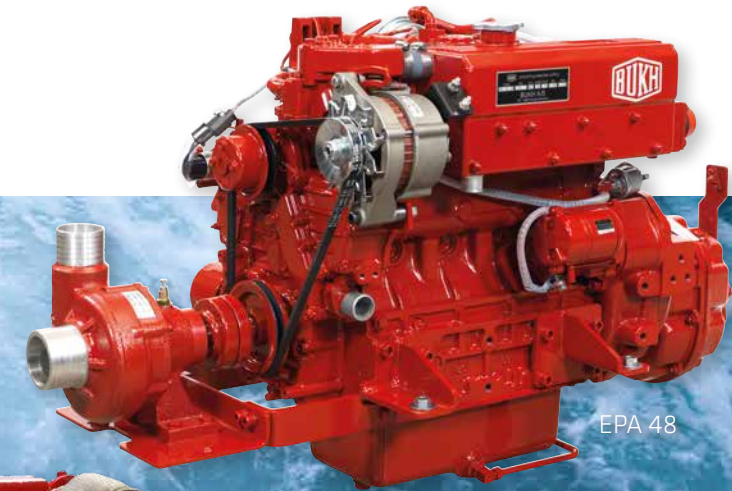
For working in polar environments, we can install DNV certified cold starting system that operates down to -40°Celsius/-40°Fahrenheit.

More than 100,000 BUKH DV engines have been manufactured since the model was introduced.

A solid proof of durability and simplicity for any work environment!



EPA 28



EPA 48



D2-75

BUKH EPA LIFEBOAT ENGINES

BUKH EPA 28 / EPA 36 / EPA 48 / D2-75

3 or 4 cylinders - 28/36/48/75 HP at 2800-3600 rpm

The BUKH EPA engine sets new standards for low exhaust emissions. It features pre-combustion chamber injection with glow plugs, which eliminates the need for vulnerable electronic devices for control of fuel volumes. The design meets the Tier 3 standards and all models have obtained US Coast Guard approval for use in lifeboats.

SOLAS approved starting systems

The traditional electric start can be combined with

- Hydraulic start
- Spring start

Standard and optional equipment for DV and EPA engines

There is a wide range of standard and optional equipment for DV and EPA engines. Reverse-reduction gear, wet sump lubrication system, operating remote panel and other kinds of features are standard on both types.

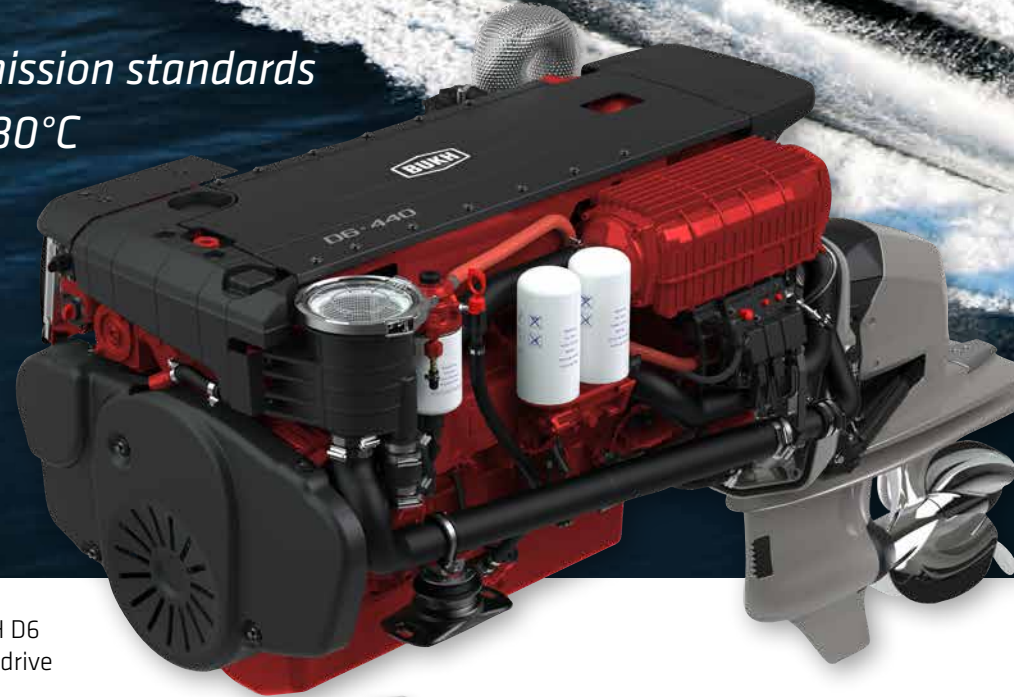
You can choose among different optional equipment such as spray pump, instrument panel, remote control, propeller or waterjet system and other accessories. For more details, see the leaflet on each model or www.bukh.dk.



HIGH-SPEED CRAFTS & Commercial Applications

110-550 HP

- Wide power range to suit all customer demands
- Light, quiet and fuel efficient
- Compliant with strictest exhaust emission standards
- Cold start available down to minus 30°C
- SOLAS approved/other commercial applications
- D4/D6 DNVGL-ST-E406 certificate



BUKH D6
Sterndrive



BUKH S270



BUKH R210



BUKH D3



BUKH D4

BUKH R210 / S270 / D3 / D4 / D6

BUKH is your number one marine diesel engine supplier

BUKH offers an extensive range of tailor-made engines for fast rescue craft and a wide range of engines for other commercial applications, giving you the benefit of the experience that comes from being a high quality engine supplier since 1899.

With our range of modern marine diesel engines and our focus on high power, fuel efficiency and compliant with strictest exhaust emission standards. We give our clients the perfect platform to make the right decision for the right engine from one supplier.

Emissions / Ratings

All models are with the newest injection and optimized combustion system ensuring that the engines satisfy the world's strictest exhaust emission standards.

The power range offers ratings from High Speed Craft rating to Medium Continuous Commercial rating, giving you a choice of engines suitable for >300 hours/year up to <2000 hours/year. See chart for more information.

For more details, see the leaflet for each model or www.bukh.dk.

*The best choice for your fast
rescue boat application!*



Photo: Norsafe Magnum 750 rescue boat

V8 DIESEL PERFORMANCE

300-550 HP

- V8 6.6L
- Combat mode, dual mapping or other custom upgrades available.
- Unique hp to weight ratio
- Compact lightweight diesel engine
- Suits both commercial & leisure applications
- Strong Duramax base engine
- High performance
- Compact design



BUKH V8



LIFEBOATS
RESCUE
MILITARY
WORK BOATS
LEISURE
MULTI PURPOSE BOATS

V8 POWER RANGE 300-550 HP

Unique hp to weight ration

The BUKH V8 has a unique hp to weight ratio that is one of the best in the market. With the V8-550 HP you get 1.07 hp per kg and also the advantage of a compact box-like design. A perfect match for high speed craft where performance is the number one priority. Simply performance and reliability – which BUKH is well known for.

Danish Engine Design

BUKH has been manufacturing diesel engines for 120 years. With more than a century of building engines we have put all our knowledge into the BUKH V8 engine. In the Danish production of the BUKH V8 our team of professional engineers has constantly been improving the engine. This makes the BUKH V8 one of the most innovated diesel engines in the market.

Custom design or ECU software solutions - made easy with BUKH V8

BUKH offers a unique custom solution where the engine design can be tailored to the individual custom vessel projects.

Custom ECU software is also available as an option. BUKH already offers unique features like Combat mode, Dual mappings and more.

Multi purpose diesel engine

The BUKH V8 6.6L is a powerful and compact light weight diesel engine that is designed to suit all commercial and leisure applications. With the strong Duramax base engine and marinization done by BUKH in Denmark, the BUKH V8 is the right choice when reliability, performance, compact and quality are the keywords for your project.



HEAVY DUTY SOLAS ENGINES

& Commercial Applications

ACCESSORIES AVAILABLE

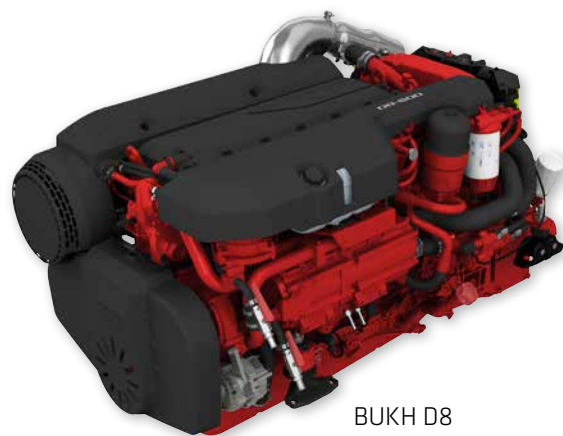
Advanced Technology Equipment

400-1000 HP

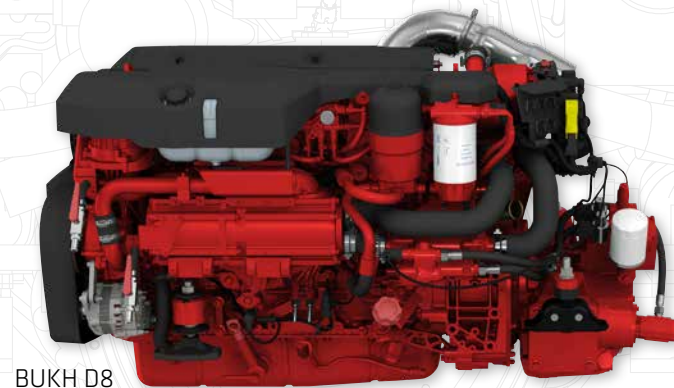
- Compliant with strictest exhaust emission standards
- In-line 6 cylinder
- Light Duty to Continuous Duty ratings
- Designed for a rough life at sea
- Low fuel consumption



BUKH D13



BUKH D8



BUKH D8

BUKH D8 / BUKH D13

With the next generation BUKH SOLAS engines, BUKH meets the rising demand for more HP within the SOLAS segment with the brand new series from 400 to 1000 HP. The engines are specially designed for commercial use and adapted to marine applications. The engine is solid built, with one full cast cylinder head, lower stiffening frame to reduce vibrations/noise and the long life timing gears that ensure the commercial endurance of these engines.

For more details, see the leaflet for each model or www.bukh.dk.



EVC - ELECTRONIC VESSEL CONTROL

- Single Lever Mode
- Cruise Control
- Trip Computer
- 7" Color Display
- E-key

CRUISE CONTROL

- Fingertip control
- Fine tune the speed
- Optimize fuel-efficiency
- Deactivates on throttle movement
- Perfect match with EVC
- Low Speed

BUKH engine model	kW	HP	Rated speed RPM	Cyl No.	kg Dry bobtail	Power to weight ratio	Rating Max Hours	Rating	Rating Max Hours per year	SOLAS DNVGL-ST-E406	SOLAS	Other commercial application	Multi Fuel	2-Pole system	Spraypump	Double starter (2 x electrical)	Coolant heater	Extra Alternator (12 / 24 V)
BUKH DV24	18	24	3600	2	210	0,114	24 of 24	C1	8		O	O			O	O	O	
BUKH EPA 28	21	28	3600	3	139	0,201	24 of 24	C1	8		O	O			O	O	O	
BUKH DV29	21	29	3600	2	210	0,138	24 of 24	C1	8		O	O			O	O	O	
BUKH DV32	24	32	3600	2	210	0,152	24 of 24	C1	8		O	O			O	O	O	
BUKH EPA 36	26	36	3600	4	168	0,214	24 of 24	C1	8		O	O			O	O	O	
BUKH DV36	26	36	3600	3	265	0,136	24 of 24	C1	8		O	O		O	O	O	O	O
BUKH DV48	35	48	3600	3	275	0,175	24 of 24	C1	8		O	O		O	O	O	O	O
BUKH EPA 48	35	48	2800	4	260	0,185	24 of 24	C1	8		S	O			O			
BUKH D2-75	55	75	3000	4	258	0,291	1 of 12	C12	300		S	O			O	O	O	O
BUKH D3-110	81	110	3000	5	260	0,424	1 of 12	C12	300		S	O		O				O
BUKH D3-150	110	150	3000	5	260	0,575	1 of 12	C12	300		S	O		O				
BUKH D3-170	125	170	4000	5	260	0,654	1 of 12	C12	300		S	O		O				
BUKH D4-175	129	175	2800	4	510	0,343	1 of 12	C9	800	O	S	O			O		O	O
BUKH R210	154	210	3800	4	280	0,750	1 of 12	C6	1000		S	O					O	
BUKH D3-200	147	200	4000	5	260	0,769	1 of 12	C12	300		S	O		O			O	
BUKH D3-220	162	220	4000	5	260	0,847	1 of 12	C12	300		S	O		O			O	
BUKH D4-230	169	230	3400	4	510	0,451	1 of 12	C9	800	O	S	O			O		O	O
BUKH D4-270	199	270	3500	4	525	0,514	1 of 12	C12	300	O	S	O			O		O	O
BUKH S270	199	270	3800	6	334	0,808	1 of 12	C6	1000		S	O		O			O	
BUKH D4-300	221	300	3500	4	525	0,572	1 of 12	C12	300	O	S	O			O		O	O
BUKH D6-300	221	300	3300	6	610	0,493	1 of 12	C9	800	O	S	O			O		O	O
BUKH V8 300	221	300	3600	8	500	0,600	4 of 12	C3	2000		O	O	O	O		O	O	O
BUKH D4-320	235	320	3600	4	525	0,610	1 of 12	C12	300	O	S	O			O		O	O
BUKH D6-340	250	340	3400	6	610	0,557	1 of 12	C9	800	O	S	O			O		O	O
BUKH V8 350	257	350	3600	8	500	0,700	4 of 12	C3	2000		O	O	O	O		O	O	O
BUKH D6-380	280	380	3500	6	610	0,623	1 of 12	C12	300	O	S	O			O		O	O
BUKH V8 400	294	400	3600	8	500	0,800	2 of 12	C7	1000		O	O	O	O		O	O	O
BUKH D13-400	294	400	1800	6	1520	0,263	24 of 24	C1	8		S	O					S	O
BUKH D6-440	353	440	3700	6	645	0,682	1 of 12	C12	300	O	S	O			O		O	O
BUKH V8 450	331	450	3600	8	515	0,874	2 of 12	C7	1000		O	O	O	O		O	O	O
BUKH D8-450	331	450	2700	6	840	0,536	2 of 12	C4	2000		S	O						O
BUKH D13-450	331	450	1800	6	1520	0,296	24 of 24	C1	8		S	O					S	O
BUKH D6-480	353	480	3700	6	645	0,744	1 of 12	C12	300	O	S	O			O		O	O
BUKH D13-500	368	500	1800	6	1520	0,329	24 of 24	C1	8		S	O					S	O
BUKH V8 500	368	500	3600	8	515	0,971	0,5 of 10	C10	700		O	O	O	O		O	O	O
BUKH D8-510	375	510	2850	6	840	0,607	1 of 12	C9	1000		S	O						O
BUKH V8 550	404	550	3600	8	525	1,048	0,5 of 10	C10	700		O	O	O	O		O	O	O
BUKH D8-550	404	550	2900	6	840	0,655	1 of 12	C9	1000		S	O						O
BUKH D13-550	404	550	1900	6	1520	0,362	24 of 24	C1	8		S	O					S	O
BUKH D13-600	411	600	1900	6	1520	0,395	8 of 12	C2	5000		S	O					S	O
BUKH D13-700	515	700	2300	6	1450	0,483	2 of 12	C4	2000		S	O					S	O
BUKH D13-800	588	800	2300	6	1560	0,513	1 of 12	C9	800		S	O					S	O
BUKH D13-1000	735	1000	2400	6	1635	0,612	1 of 12	C12	300		S	O					S	O

Rating type	Rating definition	Rated power [Hour]	Hours per year
C1	Continuous Duty Commercial_1	24/24	Unlimited
C2	Continuous Duty Commercial_2	8/12	<5000
C3	Medium Continuous Commercial_1	3/12	<2000
C4	Light Duty Commercial_1	2/12	<2000
C5	Light Duty Commercial_2	2/12	<1500
C6	Special Light Duty Commercial_1	1/12	<1000
C7	Special Light Duty Commercial_2	2/12	<1000
C8	Special Light Duty Commercial_3	1/12	<1000
C9	Special Light Duty Commercial_4	1/12	<800
C10	High Speed Craft Commercial_1	0,5/10	<700
C11	High Speed Craft Commercial_2	1/12	<400
C12	High(& Low) Speed Craft Commercial_3	1/12	<300

BUKH engine model	Keel cooling	Spring start	Hydraulic Start	Handstart	EPA Tier	IMO Tier	Combat mode	Front Mounted PTO	Minus 30 degrees celsius	Minus 40 degrees celsius	Gearbox parallel offset	Gearbox down angle	Gearbox V-drive	Water jet adaptor	Stern drive	Extra engine data displays	E-controls
BUKH DV24	O	O	O	O				O	C	C	S					O	
BUKH EPA 28	S	O	O		C			O	O		S					O	
BUKH DV29	O	O	O	O				O	C	C	S					O	
BUKH DV32	O	O	O	O				O	C	C	S					O	
BUKH EPA 36	S	O	O		C			O	O		S					O	
BUKH DV36	O	O	O	O				O	C	C	S					O	
BUKH DV48	O	C	O	O				O	C	C	S					O	
BUKH EPA 48	S				C			O			S					O	
BUKH D2-75	S	O			C			O	C		S	O				O	
BUKH D3-110						C					O	O	O	O		O	O
BUKH D3-150						C					O	O	O	O	O	O	O
BUKH D3-170						C					O	O	O	O	O	O	O
BUKH D4-175	O				C	C		O	C		O	O	O	O	O	O	O
BUKH R210						C			C		O	O	O	O	O	O	
BUKH D3-200						C					O	O	O	O	O	O	O
BUKH D3-220						C					O	O	O	O	O	O	O
BUKH D4-230	O				C	C		O	C		O	O	O		O	O	O
BUKH D4-270	O					C		O	C		O	O	O		O	O	O
BUKH S270					C	C			C		O	O	O	O	O	O	
BUKH D4-300	O					C		O	C		O	O	O		O	O	O
BUKH D6-300	O				C	C		O	C		O	O	O		O	O	O
BUKH V8 300					C	C	O	O			O	O	O	O	O	O	
BUKH D4-320	O					C		O	C		O	O	O		O	O	O
BUKH D6-340	O				C	C		O	C		O	O	O		O	O	O
BUKH V8 350					C	C	O	O			O	O	O	O	O	O	
BUKH D6-380	O					C		O	C		O	O	O		O	O	O
BUKH V8 400					C	C	O	O			O	O	O	O	O	O	
BUKH D13-400						C		O	C		O	O	O	O		O	
BUKH D6-440	O					C		O	C		O	O	O		O	O	O
BUKH V8 450					C	C	O	O			O	O	O	O	O	O	
BUKH D8-450						C					O	O				O	O
BUKH D13-450						C		O	C		O	O	O			O	O
BUKH D6-480	O					C		O	C		O	O	O			O	O
BUKH D13-500						C		O	C		O	O	O			O	O
BUKH V8 500					C	C	O	O			O	O	O	O	O	O	
BUKH D8-510						C					O	O				O	O
BUKH V8 550					C	C	O	O			O	O	O	O	O	O	
BUKH D8-550						C					O	O				O	O
BUKH D13-550						C		O	C		O	O	O			O	O
BUKH D13-600						C		O	C		O	O	O			O	O
BUKH D13-700					C	C		O	C		O	O	O			O	O
BUKH D13-800					C	C		O	C		O	O	O			O	O
BUKH D13-1000					C	C		O	C		O	O	O			O	O

S=Standard / O=Option / C=Certified



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



"Building on more than a century of experience and dedication to life and safety at sea."

Why choose a BUKH engine?

- *High quality*
- *Robust and reliable*
- *SOLAS approved*
- *World wide service network*
- *Compliant with strictest exhaust emission standards*
- *Marine engines - designed for a rough life at sea*
- *120 years of experience with diesel engines*

Certificates and approvals

Det Norske Veritas/GL Offshore SOLAS DNVGL-ST-406

Det Norske Veritas Management System Certificate

Det Norske Veritas EC Type-Examination Certificate

Det Norske Veritas QS Certificate of Assessment - EC

Det Norske Veritas Cold Start Test at Minus 40°C Certificate

Det Norske Veritas Double Start Application

United States Coast Guard Accepted Lifeboat/Rescue Boat Engines meeting US EPA emission requirements

Russian Maritime Register of Shipping Type Approval Certificate



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

www.bukh.dk

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24-75 HP

LIFEBOATS
& Commercial Applications



110-550 HP

HIGH-SPEED CRAFT
& Commercial Applications



400-1000 HP

HEAVY DUTY SOLAS
& Commercial Applications



BUKH PRODUCT RANGE

MARINE DIESEL ENGINES

COMMERCIAL AND SOLAS APPLICATIONS

MARINE DIESEL ENGINES

BUKH 24-1000HP

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Please find your local distributor on our website.

BUKH 009A5020 - R07



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