Baltic Workboats wave-piercing series

PILOTS:

PILOT 20 WP

PATROLS:

PATROL 17 WP

PATROL 22 WE

PATROL 45 W

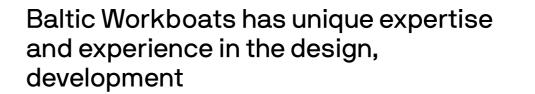
CREW TRANSFER VESSELS

BALTIC 20 WP CT\

BALTIC 30 WP CAT

BALTIC 40 WP CTV





Baltic Workboats is a growing shipyard with modern facilities and a highly skilled workforce of more than 200 people. Over the last 16 years, we have designed, built and delivered more than 160 highly versatile vessels, which are in service with governments, companies and research institutions in twelve countries around the world. We have been granted both ISO 9001 and ISO 14001 sertificates, and are continuously improving production quality and efficiency through the development of enhanced standards and management processes. Out stateof-the-art covered facilities are located in the Baltic Sea on the island of Saaremaa, which is renowned for its shipbuilding heritage stretching back thousands of years. At Baltic Workboats, we

have brought ship-building into the 21st Century with a major modernization program, complete with considerable new investments in facilities, equipment and skills. Customers around the world now depend on us to deliver highly capable and durable vessels that connect communities, supportbusinesses, protect maritime borders, promote security, carry out search and rescue operations and deliver cutting edge scientific research. Our vessels and their management systems are carefully modified to the unique requirements of customers in different countries, including harbours, pilots, coast guards, police forces, fishery inspections teams and research institutions.



Wave-Piercing Bow

The new hull concept combines the wave-piercing bow's slender waterlines with the flare of a traditional high-speed bow with a falling stem and the smooth ride of the double chine hull design. The special bow shape offers long slender waterlines in calm to moderate water whilst preventing pitch motion in high seas.

All of our series wave piercing boats can be customized according to the customer's specific needs and requirements.

Hull Design

The hull is specially designed for higher sea states. The hull shape is developed to minimize vertical accelerations at high speeds in rough weather conditions. Extra attention is also paid to assure excellent control and maneuverability in demanding sea conditions.

Performance

The design has been thoroughly tested in both head sea and rough sea states to deliver exceptional performance and helm control in the most challenging marine environments. The bow is deep and slender for high speed and fuel efficiency, yet the propeller tunnels are designed to support large, highly effective rudders to maintain control and stability in all conditions. The vessel can turn completely around in just four boat lengths at high speed, while maximum maneuverability is obtained at low speed for safe and efficient docking operations.

Propulsion concept

The vessel's formidable power is delivered by best alternative choice for the customer needs.

The vessel has incredibly low levels of

Vibration

noise and vibration despite the considerable size and power of its engine, as Baltic Workboats has developed an advanced expertise in insulation and interior assembly. The maximum noise levels have been tested in all sailing conditions. Noise level at 25kn was recorded 58db.

Fuel Consumption

The fuel consumption with xed pitch propellers is up to 20% lower compared to similar vessels operating at the same speed with the same propulsion. The measured fuel consumption of similar vessels designed and built by Baltic Workboats and already in operation has been impressively low in 15m wave piercing pilot boat: 115 l/h at 21 knots and 168 l/h at 27 knots.

Double Chine

Double chine maintains supreme seakeeping and soft ride with minimum water spray on deck. The specially designed chine prevents the water spray and minimizes 'green water' on deck. Despite its light weight, the hull is strengthened for safe operations in heavy seas. All of the structural elements are designed to take into account a minimum of 10,000 hull contacts per year. In order to manage safe hull contacts, the vessel's hull is also heavily fendered at two different heights. The structure is designed according to the requirements of LRS Special Service Craft rules. Up to 20% lower fuel consumption with FPP compared to similar vessels making the same speed with the same propulsion.

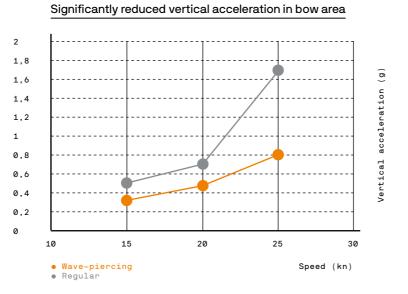
The new design concept has been successfully developed and tested in both model test and full-scale sea trials. Baltic Workboat's unique experience and knowhow in building lightweight high performing vessels raise this boat to a new standard of fuel economy, manoeuvrability and seaworthiness.

During the sea trials in head waves, with a reference boat of equal size running parallel at the same speed, the hull concept proved to have much lower accelerations and lower frequency of slamming. The significant single acceleration amplitude was only 2/3 compared to the reference boat, which is in line with the model test results. Compared to the regular hull, slamming occasions above 2 g where 5 times less frequently detected.

54% lower significant vertical accelerations in bow area at 25 knots compared to conventional hulls. Even more at 30 knots.







Wave-piercing









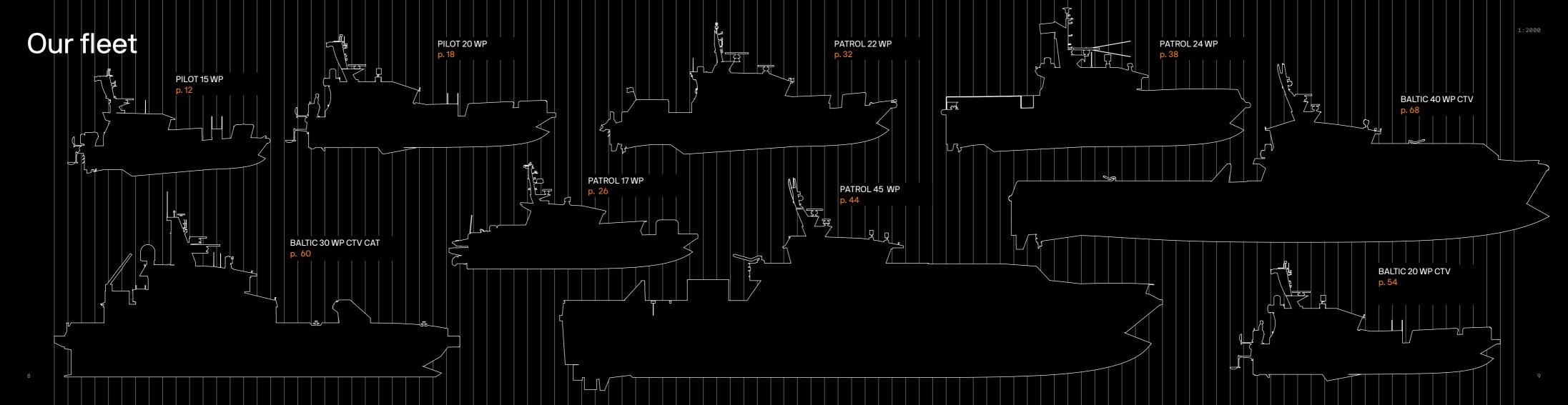
Vessels are designed to be self-righting.
This capability has been successfully verified in real life tests.













WAVE PIERCING PILOT BOATS

are developed for tasks that require high speed, maneuverability, comfort ride and fuel efficiency in most challenging conditions. Excellent for pilot, patrol or SAR duties.

PILOT 15 WP

Lenght overall

Breath

14,95 m

Power

2x368 kW

Speed

27 kn

Range (estimated)

~270 NM

Displacement

0,8 m

4,5 m

Draught max

~22.9 t

Crew/passengers

2/6

Noise level

58 dB at 25 kn

Fuel consumption at 25kn

150 L/h

Ambient conditions

Air temperature: -25 /+35 °C Seawater: 0/+27 °C Up to 5cm crushed ice

Material

Marine Aluminium

Tank capacities

Fuel: 1600 L Gray water: 150 L Water: 50 L Black water: 150 L

Propulsion concept

Main engine: 2xVolvo-Penta D13 MH Propulsion: 2xPTI and Shaft driven FPP

Gearboxes: 2xZF325-1



PILOT 20 WP

Lenght overall

Breath

6 m

Draught max

20,3 m

956 kW

Material

Marine Aluminium

Propulsion concept

Ambient conditions

Seawater

Main engine: 2xVolvo-Penta D16

Air temperature -25 /+40 C°

0/+32 C°

Propulsion: 2xFPP

Gearboxes: 2xZF665 or equalent

Tank capacities

Fuel: 3000 L Water: 500 L Gray water: 300 L Black water: 500 L

31 kn

Range (estimated)

~400 NM

Power

Speed

Displacement

1,4 m

~33 t

Crew/passengers

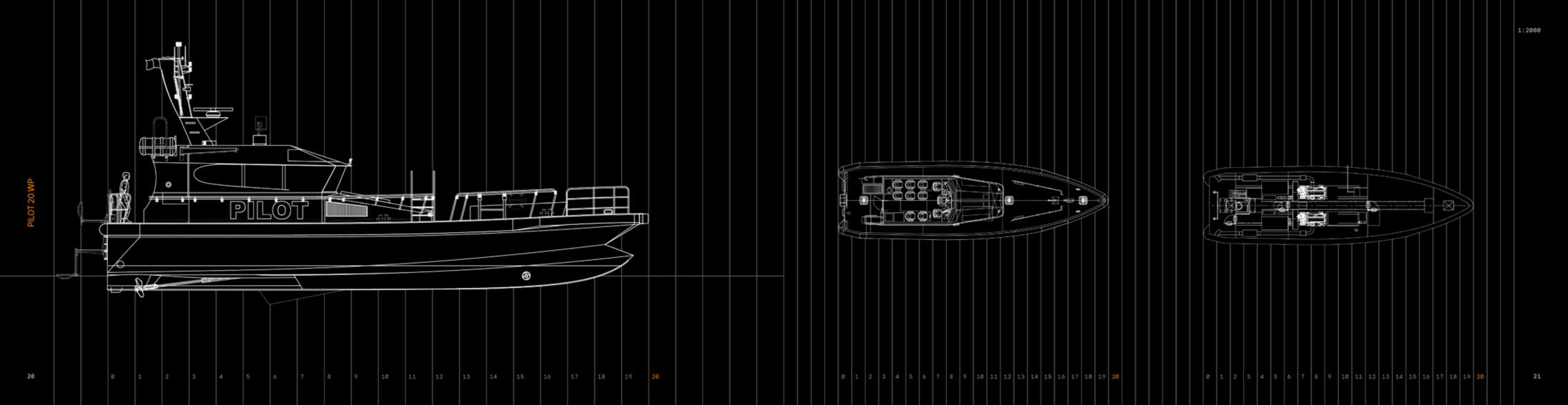
2/8

Noise level

63 dB at 28 kn

Fuel consumption at 28kn

220 L/h







WAVE PIERCING PATROL BOATS

are designed for patrol duties in harbors', coastal and offshore areas for maritime surveillance, border control, customs, police, fisheries protection, fire fighting, SAR and crew transfer purposes. Baltic Workboats boats have already proven the design for excellent sea keeping, extremely low fuel consumption and low noise levels.

. 22 WP . 24 WP . 45 WP

PATROL 17 WP

Lenght overall

Breath

Draught max

17,0 m

4,67 m

0,96 m

2x662 kW

Speed

Power

35 kn

Range (estimated)

min 300 NM

Displacement

~28 t

Crew/passengers

up to 4

Noise level

65 dB at 30 kn

Fuel consumption at 25kn

150 L/h

Ambient conditions

Air temperature: -15 /+35 °C Seawater: 0/+25 °C Up to 5 cm crushed ice

Material

Marine Aluminium

Tank capacities

Fuel: 3000 L Water: 300 L

Black & grey water: 300 L

Propulsion concept

Main engine: 2 x Volvo Penta D13-900 Propulsion: 2 x Rolls-Royce Kamewa

S36-3/CA waterjets

Gearboxes: 2 x ZF500



PATROL 22 WP

Lenght overall

Breath

Draught max

21,97 m

6,40 m

Power

Speed

2x405 kW

22 kn

Range (estimated)

1,75 m

Displacement

~40 t

Crew/passengers

2/6

300 NM

Noise level

62 dB at 22 kn

Fuel consumption at 20kn

150 L/h

Marine Aluminium

Ambient conditions

Seawater

Material

Air temperature -10 /+30 C°

0/+25 C°

Tank capacities

Fuel: 3000 L Waste: 500 L Bilge: 300 L Water: 500 L

Propulsion concept

Main engine: 2x Volvo Penta D-16 MH Propulsion: 2x Fixed pitch, 5 blade Gearboxes: ZF 665V ratio 2,517:1

Classification

LRS Service Craft Rules +100A1 SSC Patrol, Mono, HSC, G6 (hull) and G4 MCH, UMS



PATROL 24 WP

Lenght overall

24 m

Power

Speed

24 kn

Range (estimated)

2x720 kW

Material

Marine Aluminium

Ambient conditions

Air temperature: -15 /+35 C°

0/+25 C°

Tank capacities

Fuel: 4000 L Water: 1000 L

Black & grey water: 1100 L

Propulsion concept

Main engine: 2 x MTU 8V 2000 M72

Propulsion: 2 x fixed-pitch propeller (FPP)

Gearboxes: 2 x ZF2000

Breath

6,49 m

Draught max

1,50 m

Displacement

~55 t

Crew/passengers

up to 6

Noise level

65 dB at 24 kn

min 345 NM

Fuel consumption at 22 kn

240 L/h

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PATROL 45 WP

Lenght overall

Power

2x2000 kW

Material

Seawater

Marine Aluminium

Ambient conditions

Up to 5cm crushed ice

Air temperature -35/+35 C°

Tank capacities

Water: 1800 L Black water: 1800 L Gray water: 2000 L

0/+25 C°

Propulsion concept

Main engine: 2xMTU16V4000

Propulsion: 2xPTI and Shaft driven FPP, Gearboxes: 2xZF9300 with PTI optional pumpjet, Volvo-Penta D11 genset with 375 kW generator for hybrid propulsion

Multifunctions

Offshore patrol, SAR, combat pollution, fire fighting, hydrographic tasks and buoy servicing.

Classification

LRS 100A1 SSC Patrol Mono HSC G3 MCH UMS or equivalent

44,6 m

Breath

8,8 m

Draught max

2,6 m

Displacement

~220 t

Crew/passengers

10/35

Range (estimated)

27 kn

3000 NM

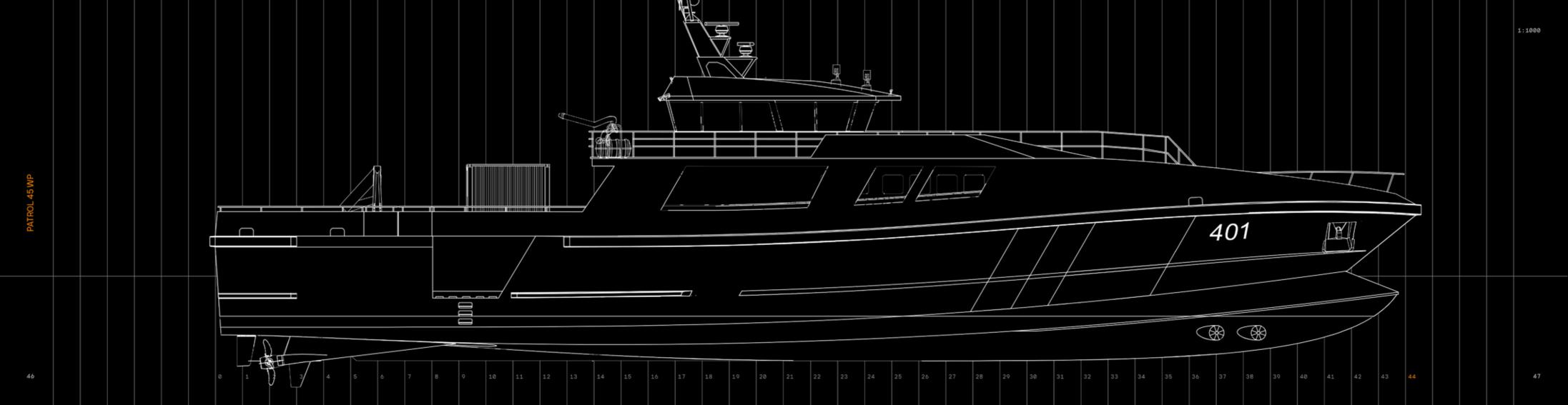
Fuel Capacity:

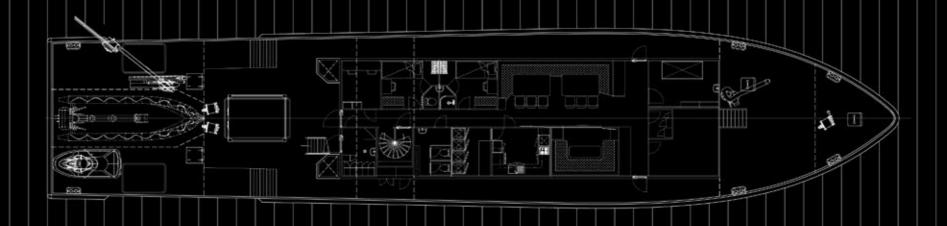
Speed

30000 L

Fuel consumption at 25kn

800 L/h





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48 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42





WAVE PIERCING CREW TRANSFER VESSELS

for servicing new growing industry alternative green energy wind farms. These wave-piercing boats are designed for the crew to transfer to the wind farm with exceptional comfort and safety even with high sea conditions.

C 20 WP CTV C 30 WP CAT C 40 WP CTV

BALTIC 20 WP CTV

Lenght overall

20,3 m

Power

Speed

31kn

Range at 20kn

Noise level

400 NM

63 dB at

2x552 kW

Material

Seawater

Marine Aluminium

Ambient conditions

Propulsion concept

Main engine: Volvo D16 1104kW

Air temperature -25/+30 C°

0/+27 C°

Gearboxes: ZF665

Tank capacities

Fuel: 3000 L Water: 500 L

Bilge: 200 L

Propulsion: 2x FPP 5 blade

Waste: 300 L

Breath

6 m

Draught max

1,4 m

Displacement

34 t

Crew/passengers

2/13

Fuel consumption at 28kn

31 kn

220 L/h



BALTIC 30 WP CAT

Lenght overall

29.9 m

Crew/passengers

6/54

Deadweight

40 t

Speed

27 kn

Propulsion concept

Marine Aluminium

Tank capacities

Fuel: 32.000 L

Water: 3,000 L

Ambient conditions

Internal air

Material

Main engine: 4 x Volvo D13-700 High

Speed Diesel Engines

Propulsion: 4 x Volvo Penta Quad IPS

Black/Gray water:

3,500 L

-10 /+35 C° +20 to + 25C°

900 Thrusters

Generator: 2 x 30kw 230 VAC 50 Hz box

cooled, sound shielded

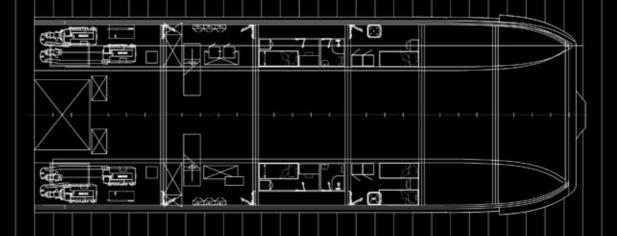
Equipment

Forward Deck Crane: 1 x Palfinger PK320002M (or analog) - hydraulic fold-

Aft Deck crane: marine crane 1xSteelhead E series electro-hydraulic

telescopic crane

Fuel Capacity: Draught max 1.75 m 32,000 L



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30





BALTIC 40 WP CTV

Length LOA

Draugth max

40,08 m

Speed

20-25 kn

Crew/passengers

2,33 m 10/101

Marine Aluminium

Ambient conditions

Internal air

Material

-10 /+35 C° +20 to + 25C°

Tank capacities

Fuel: 70.0 m3

Water: 20,0 m3

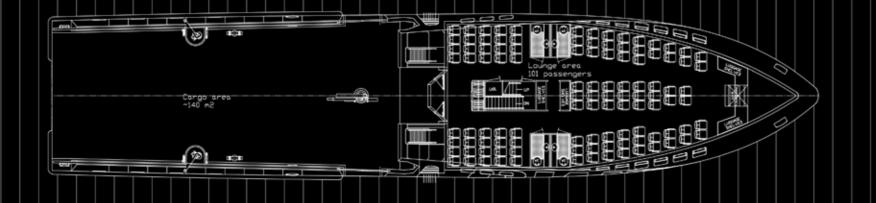
Cargo

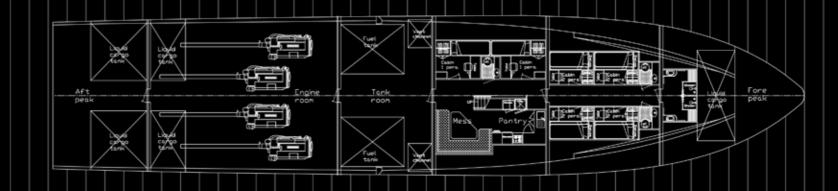
Fresh water cargo 71,0 m3 Cargo deck area 140 m2

Propulsion concept

Main engine: 4 x MTU or equivalent

1:1000







Contact us for any enquiry.

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