Baltic Workboats wave-piercing series

PILOTS: BWB PILOT 1500WP BWB PILOT 2000WP PATROLS: BWB PATROL 2200WP BWB PATROL 4500WP CREW TRANSFER VESSELS: BWB CTV 2000WP BWB CTV 3000WP CATAMARAN BWB CTV 4000WP 'Baltic Workboats

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 state-of-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.

Baltic Workboats has unique expertise and experience in the design, development

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, support businesses, 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 highspeed 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 following 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.

Vibration

The vessel has incredibly low levels of 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 fixed pitch propellers is up to 30% 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.

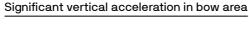
The new design concept has been successfully developed and tested in both model test and full-scale sea trials. Baltic Workboat's unique experience and knowhow in building lightweight high performing vessels raise this boat to a new standard of fuel economy, manoeuvrability and seaworthiness.

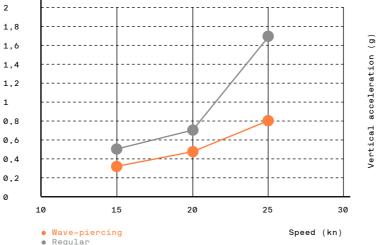
During the sea trials in head waves, with a reference boat of equal size running parallel at the same speed, the hull concept proved to have much lower accelerations and lower frequency of slamming. The significant single acceleration amplitude was only 2/3 compared to the reference boat, which is in 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.













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

WAVE PIERCING **PILOT BOATS**

BWB PILOT 1500WP

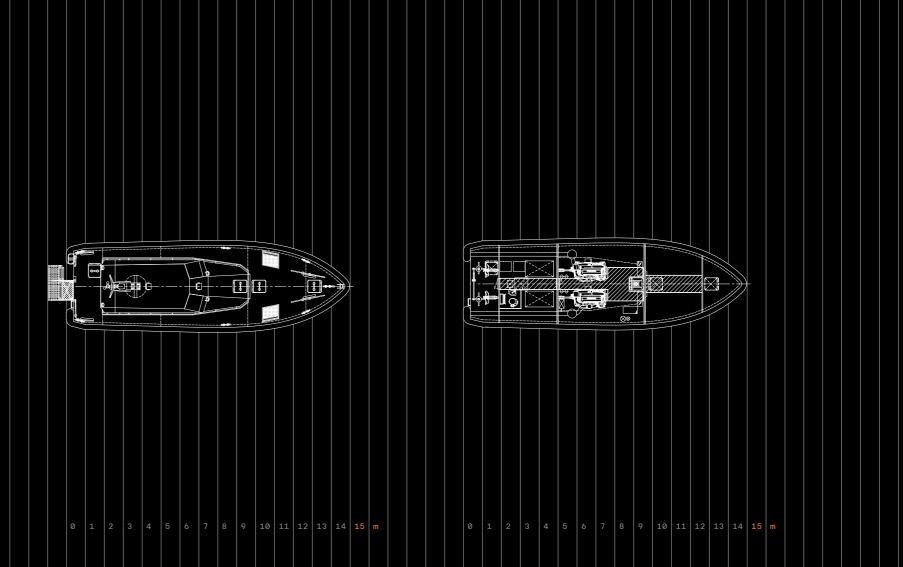
Lenght overall		Power		Ambient conditions	
14,95 m	50 ft	2x368 kW	2x500 hp	Air temperature:	–25 /+35 °C -13 / +95 °F
D				Seawater:	0 /+27 °C
Breath		Speed			32 / +80 °F
4,5 m	14 ft	27 kn		Up to 5cm crushed ice	
-, o m		27 101		Material	
Draught max		Range (estimated)		Marine Aluminium	
0,8 m	2 ft 7	~270 NM		Tank capacities	
				Fuel:	1600 L / 422 gal
Displacement		Noise level		Water:	50 L / 13 gal
~22.9 t		58 dB at 25 kr	1	Gray water: Black water:	150 L / 39 gal 150 L / 39 gal
				Propulsion concept	
Crew/passangers		Fuel consumption at 25kn			
2/6		150 L/h	39 gal/h	Main engine: Propulsion: Goorboxoo:	2xVolvo-Penta D1 2xPTI

3 M⊦

Gearboxes:

2xZF325-1

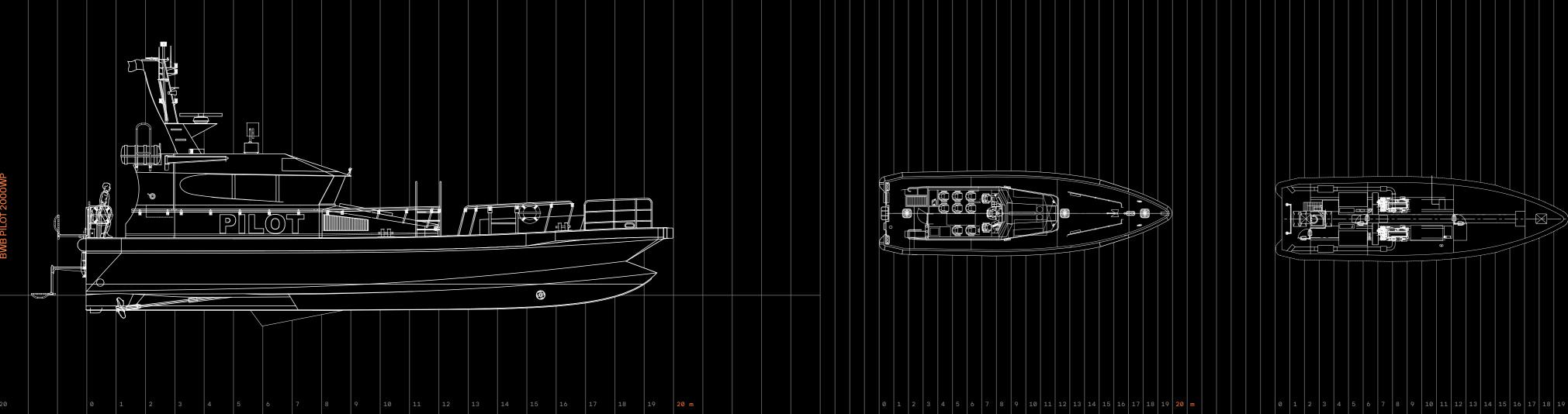






BWB PILOT 2000WP

Lenght overall		Power		Ambient conditions	
20,3 m	67 ft	2x478 kW	2x650 hp	Air temperature:	–25 /+40 °C -13 / +104 °F
				Seawater:	0 /+32 °C
Breath		Speed			32 / +89.6 °F
6 m	19 ft 8	28 kn		Material	
				Marine Aluminiu	n
Draught max		Range (estimated)			
1,4 m	4 ft 7	~400 NM		Propulsion concept	
				Main engine:	2xVolvo-Penta D16
Diaplacement		Natao laval		Propulsion:	2xFPP
Displacement		Noise level		Gearboxes:	2xZF665 or equalent
~33 t		63 dB at 28 kn		Tank capacities	
				Fuel:	3000 L / 792 gal
Crew/passangers		Fuel consumption at 28kn		Water:	500 L / 132 gal
2/8		220 L/h	58 gal/h	Gray water: Black water:	300 L / 79 gal 500 L / 132 gal







WAVE PIERCING PATROL BOATS

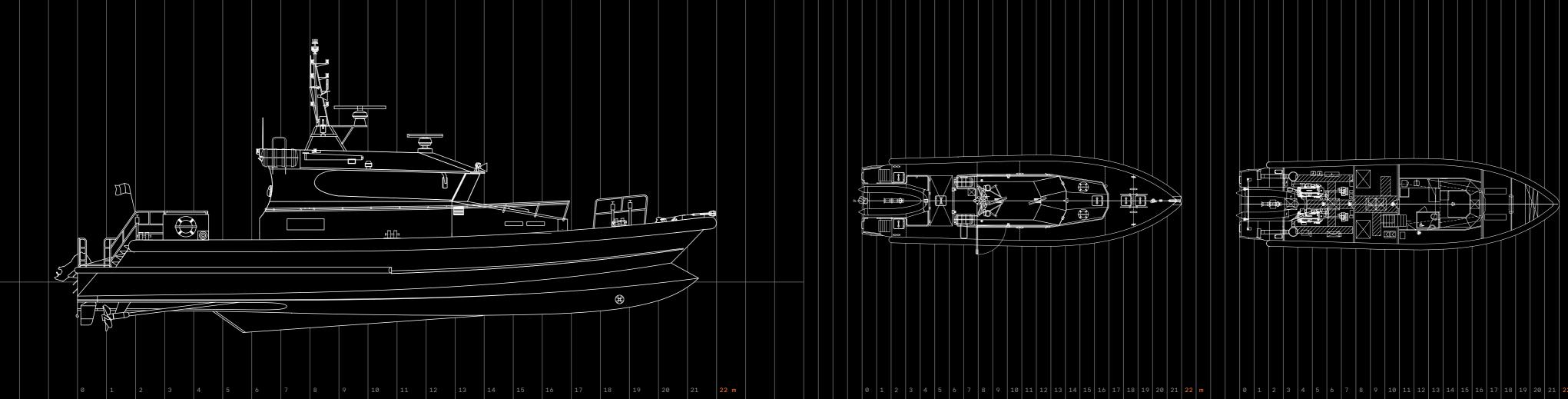
are designed for patrol duties in harbors', coastal and offshore areas for maritime surveillance, border control, customs, police, fisheries protection, fire fighting, SAR and crew transfer purposes. Baltic workboats have already proven the design for excellent sea keeping, extremely low fuel consumption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

BWB PATROL 2200WP

Lenght overall		Power		Ambient conditions	
21,97 m	72 ft	2x405 kW	2x550 hp	Air temperature:	–10 /+30 °C -13 / +86 °F
				Seawater:	0 /+25 °C
Breath		Speed			32 / +77 °F
6,40 m	21 ft	22 kn		Material	
				Marine Aluminiu	m
Draught max		Range (estimated)			
1,75 m	5 ft 8	300 NM		Tank capacities	
·				Fuel:	3000 L / 792 gal
				Water:	500 L / 132 gal
Displacement		Noise level		Waste:	500 L / 132 gal
~40 t		62 dB at 20 kr	١	Bilge:	300 L / 79 gal
				Propulsion concept	
Crew/passangers					
2/6		Fuel consumption at 20kn		Main engine:	2x Volvo Penta D-16
2/0		150 L/h	39 gal/h	Propulsion: Gearboxes:	2x Fixed pitch, 5 bla ZF 665V ratio 2,517:1

Classification

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





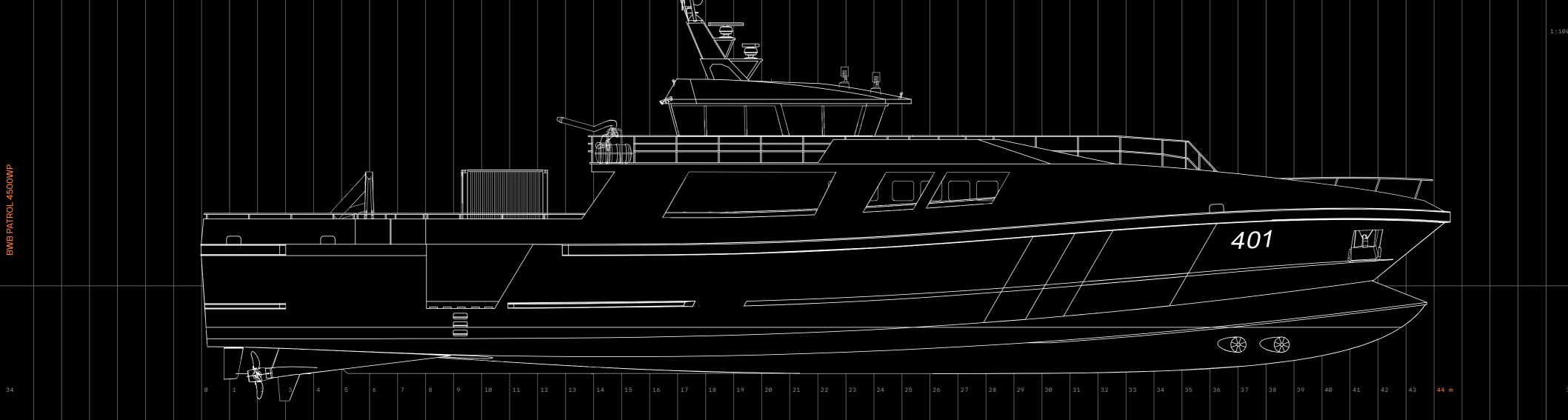
BWB PATROL 4500WP

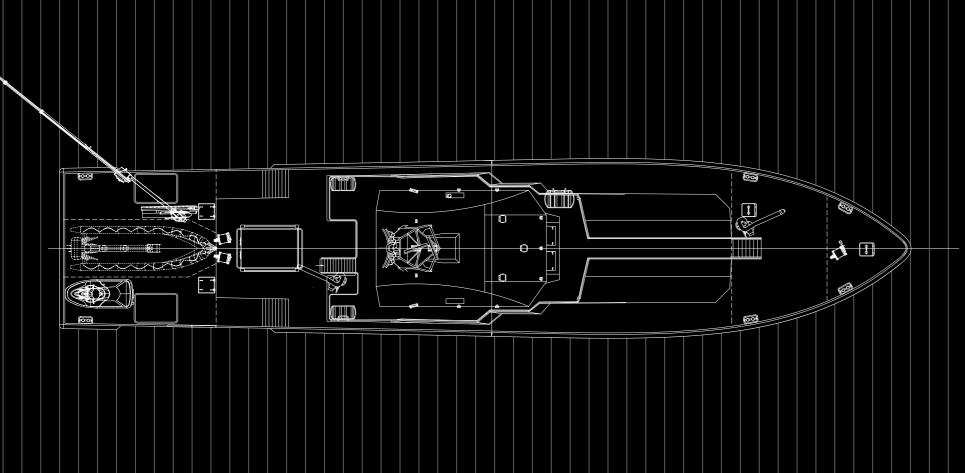
Lenght overall		Power		Ambient conditions	
44,6 m	146 ft	2x1860 kW	2x2500 hp	Air temperature:	–35 /+35 ℃ –31 / +95 °F
Breath		Speed		Seawater:	0 /+25 °C 32 / +77 °F
8,8 m	28 ft 10			Up to 5cm crush	ed ice
0,0 111	201110	20 111		Material	
Draught max		Range (estimated)		Marine Aluminiu	m
2,6 m	8 ft 6	2500 NM		Tank capacities	
Displacement		Fuel Capacity:		Water: Gray water:	1800 L / 475 gal 1800 L / 475 gal
~220 t		15000 L	3962 gal	Black water:	1800 L / 475 gal
			5	Propulsion conce	ept
Crew/passangers		Fuel consumption at 25kn		Main engine: 2xMTU16V4000 Propulsion: 2xPTI and Shaft driven F Gearboxes: 2xZF5360 with PTI op pumpjet, Volvo-Penta D13 genset 400kW generator for hybrid propuls	
10/35		800 L/h 211 gal/h			
Classification				Poorter generate	

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

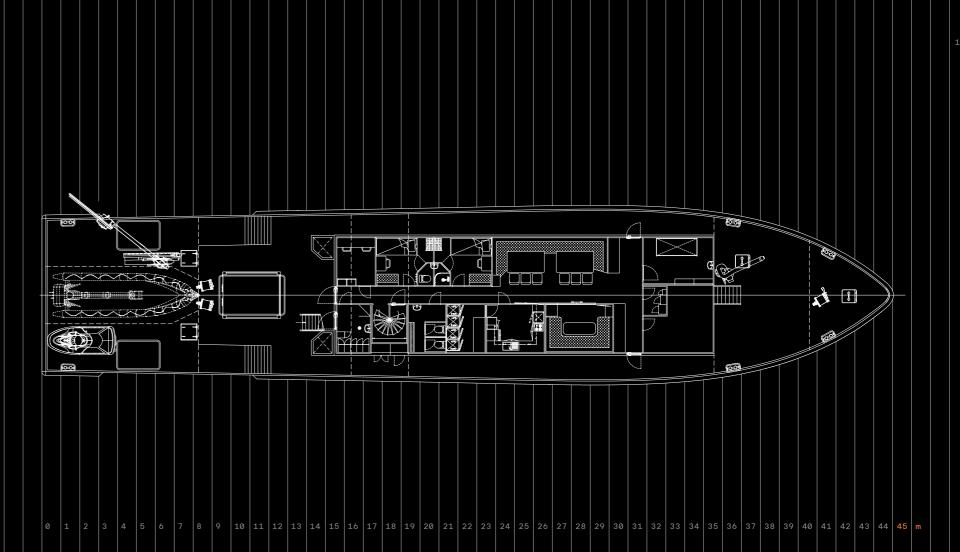
Offshore patrol, SAR, combat pollution, fire fighting, hydrographic tasks and buoy servicing.

Multifunctions





0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43







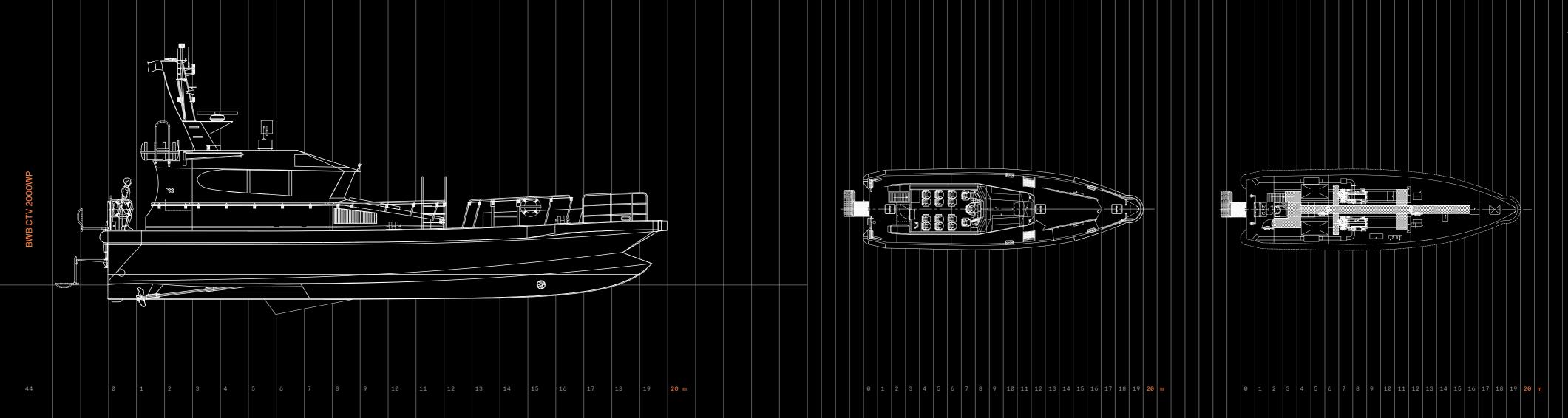
WAVE PIERCING CREW TRANSFER VESSELS

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.

WB CTV 2000WP WB CTV 3000WP CATAMARAN WB CTV 4000WP

BWB CTV 2000WP

Lenght overall		Power		Ambient conditions	
20,3 m	67 ft	2x551 kW	2x750 hp	Air temperature:	–25 /+30 °C –13 / +86 °F
				Seawater:	0 /+27 °C
Breath		Speed			32 / +80.6 °F
6 m	19 ft 8	31 kn		Material	
				Marine Aluminiur	n
Draught max		Range at 20kn			
1,4 m 4 ft 7		400 NM		Propulsion concept	
				Main engine:	Volvo D16 1104kW
				Propulsion:	2x FPP 5 blade
Displacement		Noise level		Gearboxes:	ZF665
34 t		63 dB at 31 kn		Tank capacities	
				Fuel:	3000 L / 792 gal
Crew/passangers		Fuel consumption at	28kn	Water:	500 L / 132 gal
2/13		220 L/h	58 gal/h	Waste: Bilge:	300 L / 79 gal 200 L / 52 gal

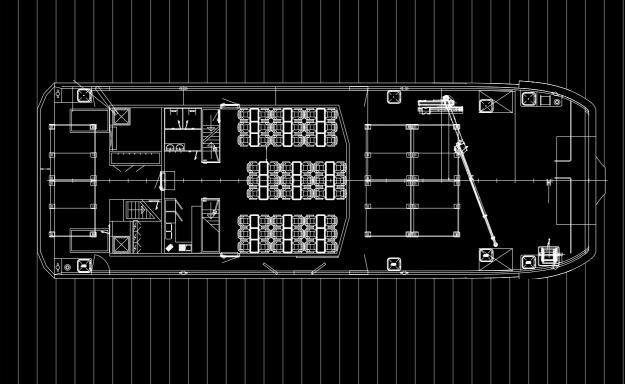


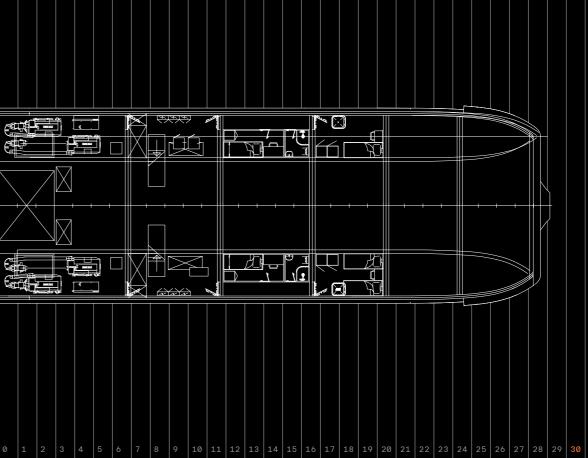


BWB CTV 3000WP CATAMARAN

Lenght overall		Power		Ambient conditions		
29.9 m	98 ft	4x515 kW	4x700 hp	External air:	 _10 /+35 °C +14 / +95 °F	
Deadweight		Crew/passangers		Internal air:	+20 / +27 °C +68 / +80.6 °F	
40 t		6/54		Material		
Draught max		Speed		Marine Alumini	um	
1.75 m	5 ft 8	27 kn		Tank capacitie	Tank capacities	
1.75111	5110			Water: Black water:	3,000 L / 792 gal 3,500 L / 924 gal	
		Fuel Capacity:		Gray water:	3,500 L / 924 ga	
		32,000 L	8453 gal	Propulsion concept		
				Propulsion: 4 x Thrusters	x Volvo D13-700 Volvo Penta Quad IPS 9 30kw 230 VAC 50 Hz b shielded	
				Equipment		
				hydraulic folda Aft Deck crane	320002M (or analogue) ble :: marine crane : series electro hydraulic	











BWB CTV 4000WP

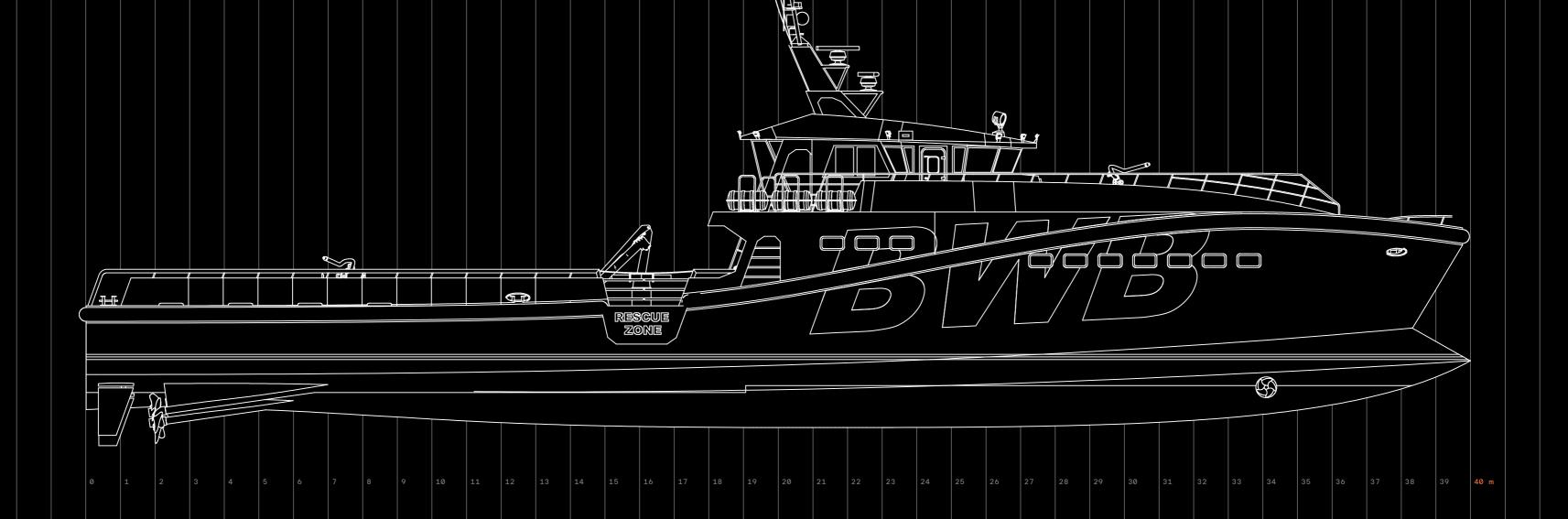
Length LOA		Speed	Ambient conditions	
40,08 m	131 ft	20-25 kn	External air:	–10 /+35 °C +14 / +95 °F
Draugth max		Crew/passangers	Internal air:	+20 /+25 °C +68 / +77 °F
2,33 m	7 ft 7	10/101	Material	
			Marine Alumini	um
			Tank capacities	8
			Fuel: Water:	70,0 m3 20,0 m3

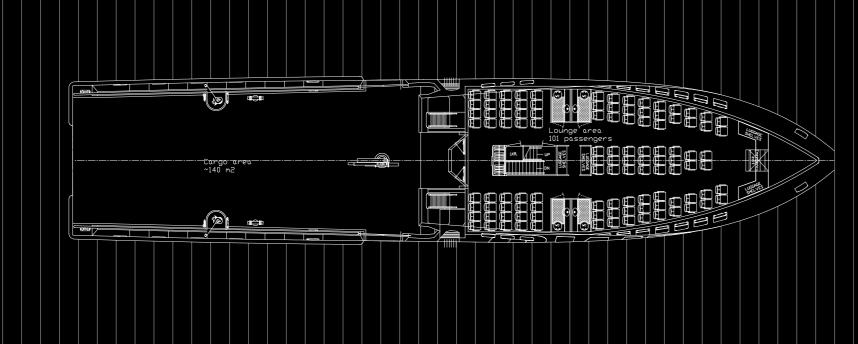
Cargo

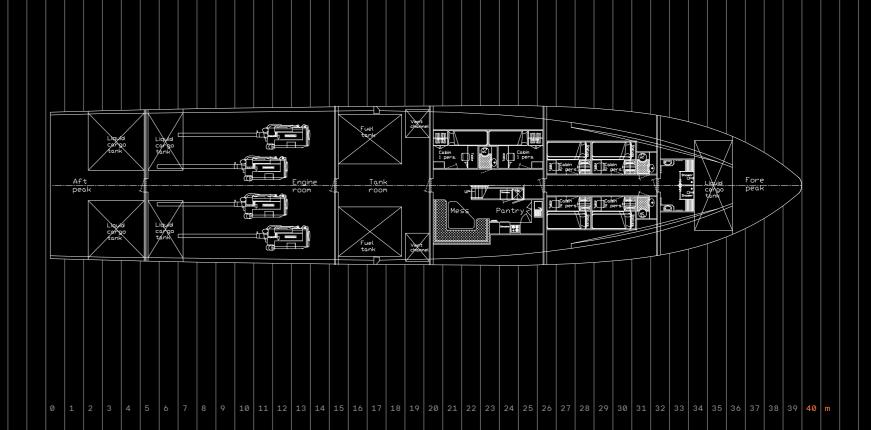
Fresh water cargo 71,0 m3 Cargo deck area 140 m2

Propulsion concept

Main engine: 4 x MTU or equivalent









Contact us for any enquiry.

Baltic Workboats AS

Location: Nasva Harbour Address: Nasva, Lääne-Saare v., 93872 Saare mk, Estonia

Phone: +3/2 45 21 140 Fax: +372 45 21 145 E-mail: info@bwb.ee