



RĪGAS KUĢU BŪVĒTAVA 2017

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INTRODUCTION

RĪGAS KUĢU BŪVĒTAVA is the leading enterprise of the Latvian engineering industry and one of the leaders in ship repair and modernization in the Baltic region.

- Rīgas kuģu būvētava is repairing more than 100 seagoing vessels per year providing dry-docking as well as afloat repairs.
- Rīgas kuģu būvētava performs conversion including lengthening, modernization, refurbishment etc. of different types of vessels.
- Since 1997 more than 170 hulls, including hulls with partial out-fitting, have been built and delivered to Scandinavian and European customers.





INTRODUCTION

RĪGAS KUĢU BŪVĒTAVA co-operates with all Classification Societies, major equipment and paint manufacturers, logistics and shipping companies.

The integrated management system of the Yard has been certified as complying with the international standards

ISO 9001 : 2015 *Quality Management Systems*,

ISO 14001 : 2015 *Environmental Management Systems*

and **OHSAS 18001 : 2007** *Occupational Health and Safety Management Systems*.

**ISO 9001
ISO 14001
OHSAS 18001**

**BUREAU VERITAS
Certification**



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INSIGHT IN HISTORY



The enterprise founded in 1913 by the famous German shipbuilding firm F.Schichau and became a good example for successful capital investment in the engineering industry and shipyard was named «Milgraben (Mīlgrāvis) Shipyard»

During the first years the «Mīlgrāvis Shipyard» could provide repairs for 20 vessels per year and build small vessels (50 – 300 tonnage). Shipyard employed up to 200 people. Its technological equipment included 59 various metal cutting and wood-working machines



INSIGHT IN HISTORY

In the middle of 1960s the enterprise gained considerable success becoming the leading enterprise in the industry within the boundaries of whole western basin. The further development of navy including transport, fishing vessels, reefers, tankers and passenger fleet needed an increase in the capacity of ship repair operations.





INSIGHT IN HISTORY

In 1995 the Riga Shipyard underwent privatisation and the enterprise turned into a joint-stock company under name of AS «Rīgas Kuģu Būvētava» (AS Riga Shipyard)

Present AS Rīgas Kuģu Būvētava is listed in the second list of the NASDAQ-QMX Riga (the former name – the Riga Stock Exchange)

The AS Rīgas Kuģu Būvētava is one of the largest taxpayers in Latvia



- **RĪGAS KUĢU BŪVĒTAVA** has 3 floating docks, including the largest floating dock in the Baltic States PANAMAX size, which can accommodate vessels up to 240 meters
- **RĪGAS KUĢU BŪVĒTAVA** can perform afloat repairs of the vessels up to 245 meters long and 45 meters wide - AFRAMAX type
- Total length of berth – 2000 meters, equipped with gantry cranes with lifting capacity up to 30 tons and the draft up to 8 meters



DOCKS DATA	JCS RĪGAS KUĢU BŪVĒTAVA		
	1	2	3
Lifting Capacity t	30 000	27 000	4 600
Length of the keel way (m)	225.0	200.1	132.0
Inner width of the dock (m)	36.6	30.5	21.5
Max draft of the vessel (m)	8.00	7.00	5.00
Cranes capacity in docks (t)	2 x 15	2 x 15	2 x 5



SHIPREPAIR

RĪGAS KUĢU BŪVĒTAVA has sufficient capacity and capabilities to perform:

- painting
- machinery
- piping
- electrical
- mechanical
- carpentry

as well as unique works according to our Customers specific requirements

RĪGAS KUĢU BŪVĒTAVA has all required recourses to perform installation of the ballast systems



RĪGAS KUĢU BŪVĒTAVA is represented all over the world through worldwide agency network:

- **ESMA MARINE AGENCIES** – *Netherlands, Belgium, Luxemburg*
- **Banchero Costa** – *Italy, Switzerland, Monaco*
- **JML Shipyards** – *Sweden, Norway, Denmark*
- **Banchero Costa** – *Italy, Switzerland, Monaco*
- **Neptune Technical Agencies** – *Greece*
- **Peter Gast** – *Germany*
- **GLOBETECH** – *India, UAE*
- **Marine Plus** – *Singapore*
- **ORCA Marine** - *Poland*
- **WSR** – *Cyprus*



RĪGAS KUĢU BŪVĒTAVA has longlasting ship repair fleet agreements:

- InterOrient Marine Services
- Scoprio Ship Management
- NORDEN A/S
- Maestro Shipmanagement
- SCF Management Services
- DEME NV
- Navigation Maritime Bulgare
- Ost West Handel GmbH
- Tallink
- TechnoTeamMarine
- INOK NV



Rīgas Kuģu Būvētava performs conversion including lengthening, modernizations, refurbishment etc of different types of vessels.

Rīgas Kuģu Būvētava has an extensive experience in carrying out of ship conversion works of different complexity and volume.



WELDING

- Workshop of **2736 m²** equipped with:
 - 1) Steel sheet plasma cutting equipment;
 - 2) Turning machines with extended leg;
 - 3) Bridge cranes capacity of which is 20t and 80t,
 - 4) Doorway gate with dimensions of 13m x 10m.
- «LINCOLN», «ESAB», and «KEMPPI» welding equipment provides high-quality welds.



Interesting Conversion Projects

- Lengthening of Finnish multi-functional vessel “**Hylje**” for 10,5 meters, including pipelines, wiring and all necessary communications;
- Fabrication and fitting of entire bow section for m/v “**Fedor Varaksin**” weighting over 250 tons;
- Conversion of Swedish cement carrier “**Cementina**”, included lengthening with 2 hull inserts 7,5 and 4,5 meters;
- Conversion of Icelandic stern trawler “**Hannover**” - with hull insert 18 meters weighting 450 tons;
- Conversion of Finnish Ro-Ro vessel “**Ahtela**”, included rebuilding of cargo ramps with total weight of 270 tons.



MULTIFUNCTIONAL VESSEL “HYLJE”

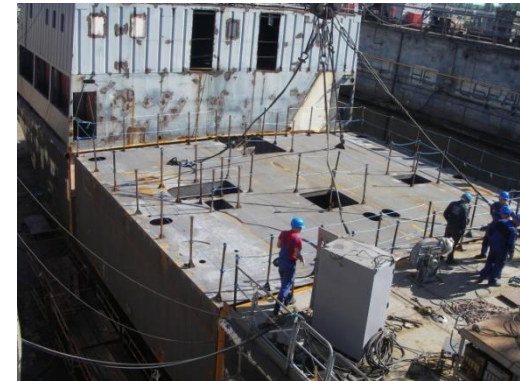
CONVERSION

- A major renovation was carried out on the **OPV HYLJE**. During the project, the ship was lengthened and most the ship systems upgraded, including the entire wheelhouse, interior, navigation equipment etc.
- The objective for the renovation was to expand the operational lifetime of the vessel as well as improve it's automation and oil collecting capability.



MULTIFUNCTIONAL VESSEL "HYLJE"

- Vessel lengthening by 10,5 meters.
- Processes:
 - 1) Vessel was cut in half;
 - 2) Intersection of 10,5 meters in length was produced;
 - 3) Pipeline, wire and other communications were installed;
 - 4) Newly made section was inserted;
 - 5) Section was welded to both halves;
 - 6) Processed, painted.





MULTIFUNCTIONAL VESSEL "HYLJE"

BEFORE



AFTER



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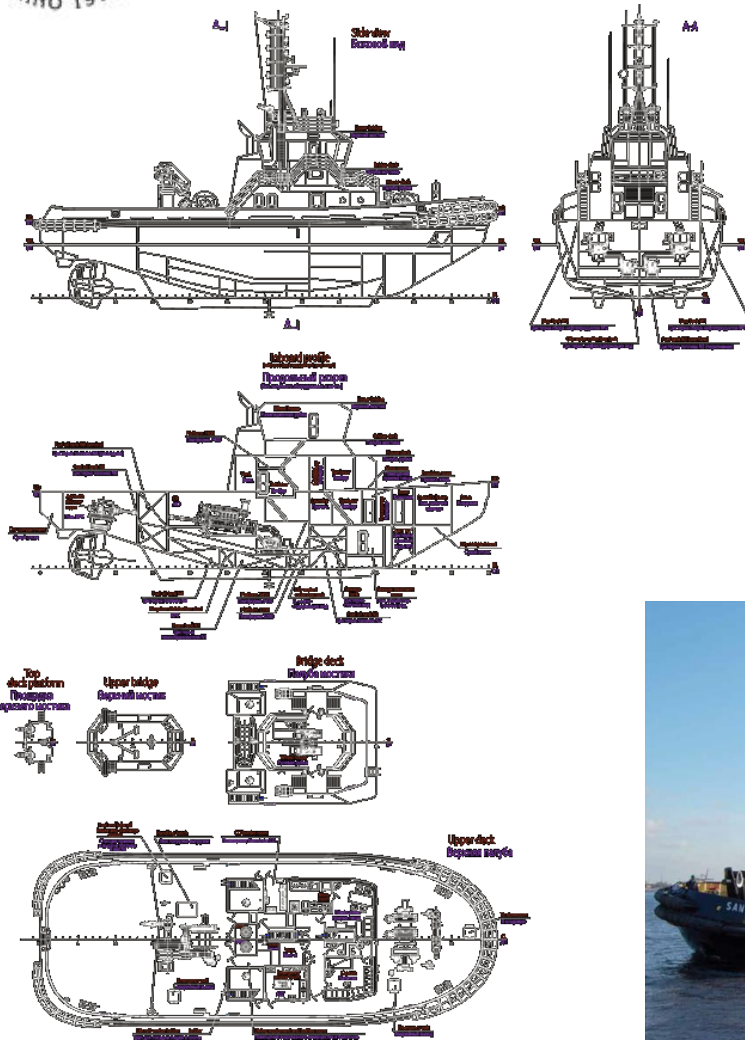
- Shipbuilding offers construction of a wide range of products: fishing vessels, tankers, coastal ferries, tugs, etc.;
- Operating **2** slipways:
 - 1) **95 x 16** meters,
 - 2) **115 x 16** meters;
- Maximum launching weight – **1000 t**;
- Slipway equipped with cranes with a lifting capacity of **32** tons.

TUGBOATS “SANTA” & “STELLA”

Applications: Towing, Mooring, Escort, Fire Fighting, Oil-Recovery

Classification: Bureau Veritas

Notation: 1⚡ HULL, ⚡MACH, Coastal Area – Temporary Unrestricted Navigation, Escort Tug, Ice Class 1A, Fi-Fi 1, AUT-UMS, Oil Recovery Ship



TUGBOATS “SANTA” & “STELLA”

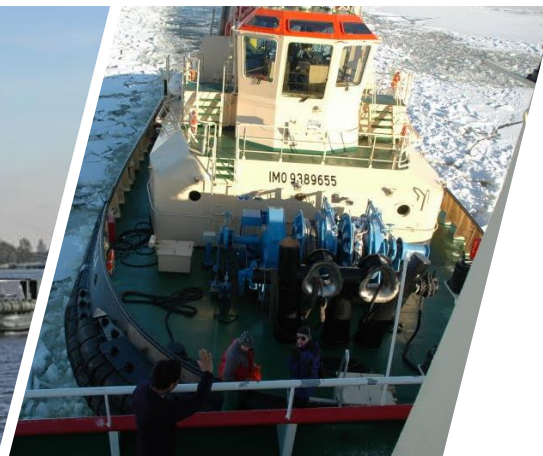
■ Main Characteristics

- LOA: 34.20 m
- Breadth: 12.70 m
- Draft: 3.90 m
- Crew: 8 per.
- Bollard Pull: 60 t
- Speed: 13.2 kn
- Hull material: Steel

■ Propulsion

- Main engines: 2x Caterpillar 3516B, rating A 3650kW
- Azimuth Thrusters: 2 x Rolls-Royce US255CP
- Propeller dia.: 2600 mm

CAN BREAK ICE UP TO 70 CM



TUGBOATS “SANTA” & “STELLA”

■ Equipment

- Fore winch: Rolls-Royce TW 1800/450/AW 20.5
- Aft winch: Rolls-Royce TW1800/200H
- Hook: Mampaey 65t SWL
- Oil recovery equipment: Ro-Clean Desmi
- Fi-Fi system: water/foam, fi-fi pumps 2x1500 m³/h (driven by main engine)





TUGBOATS “SANTA” & “STELLA”





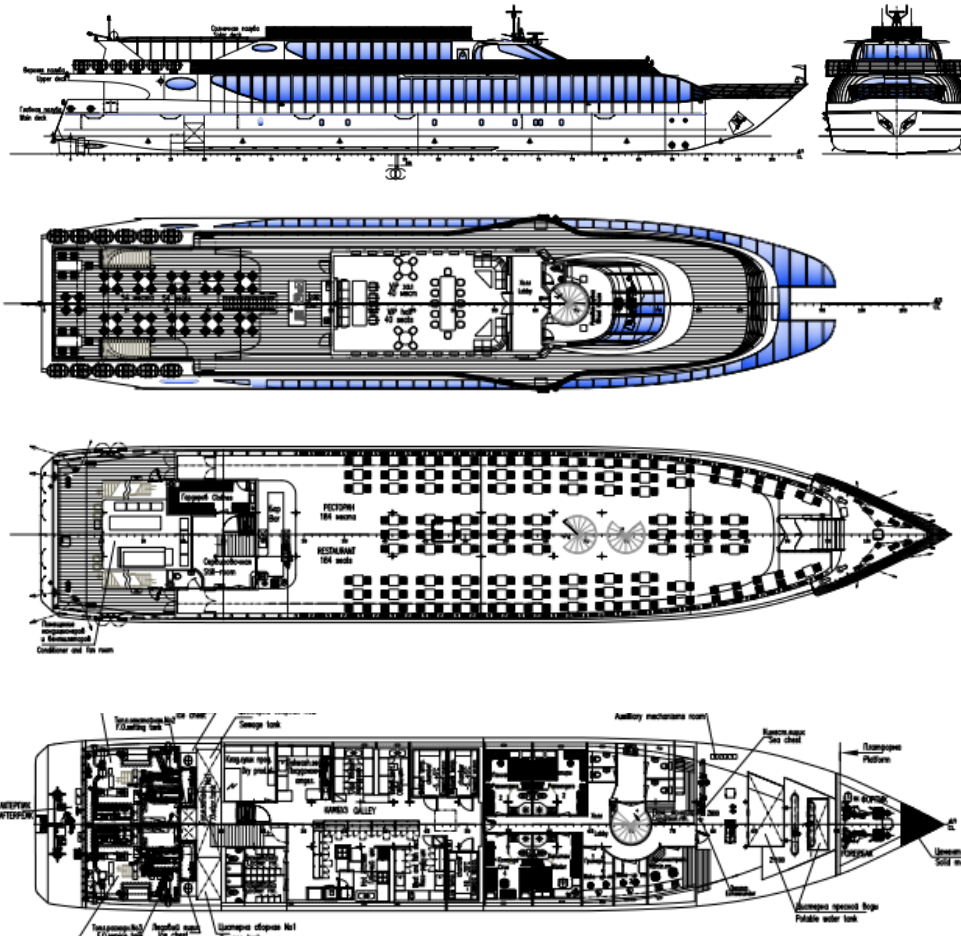
RIVER CRUISE VESSELS



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RIVER CRUISE VESSELS

FIVE RIVER CRUISE VESSELS FOR MOSCOW: "PRIMAVERA" "BUTTERFLY" "BEAUTY" "MONTANA" "FELICITA"



Applications: River cruise vessel,
floating restaurant and nightclub

Classification: Bureau Veritas

Ship type: I5 IN(1,2) MC Z ICE, AUT-
UMS Passenger Vessel



RIVER CRUISE VESSELS

■ Main Characteristics

- LOA: 60,83 m
- Breadth: 12,12 m
- Draft: 1,60 m
- Crew: 3 per.
- Passengers: 300 per.
- Speed: 21 km/h
- Hull material: Steel

■ Propulsion

- Main engine: 2x Volvo Penta D16C-CMH (2x404kW)

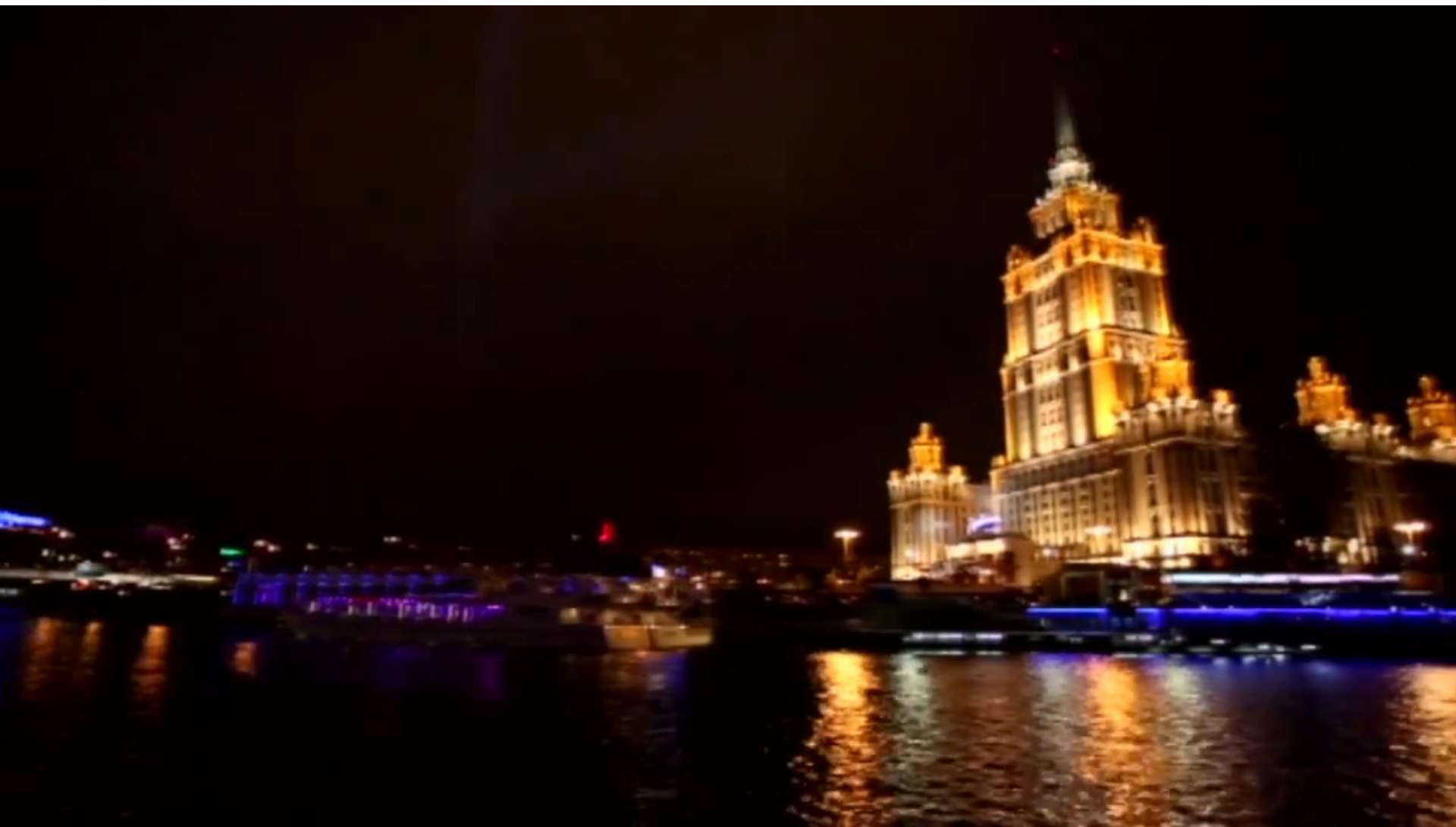
Features

- Luxury design
- Operating all year
- Wide view from restaurant section
- High quality Air-conditioner system
- Special light effects, etc





RIVER CRUISE VESSELS



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SAILING YACHT MARIANN



S/Y MARIANN, DONSO, SWEDEN

Vessel type: Sailing Yacht

Length: 26.0 m

Width: 6.90 m

Draft: 2.70 m

Hull material: Steel

Main engine: Volvo Penta D12 550Hk

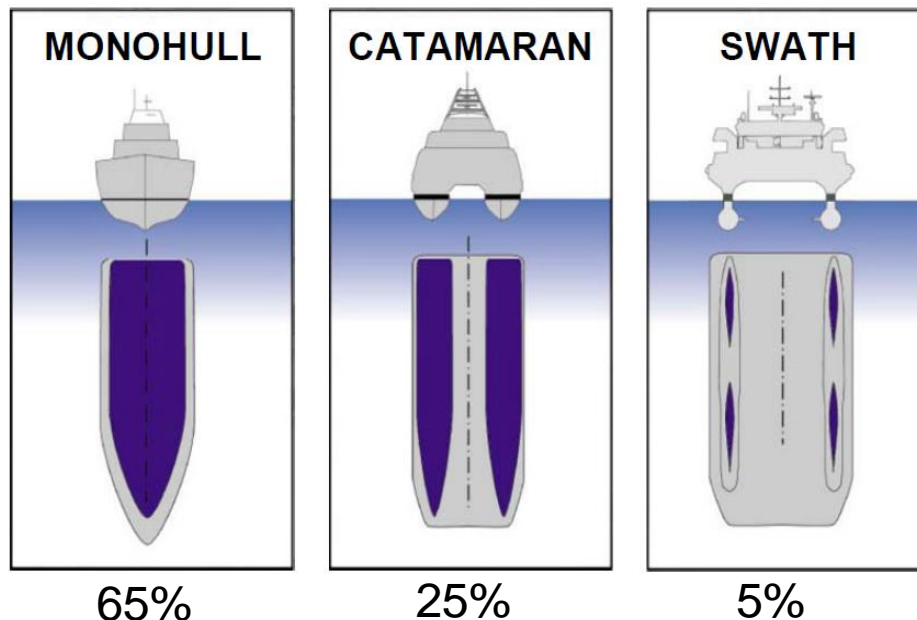




SWATH PATROL VESSELS



- A ***Small Waterplane Area Twin Hull (SWATH)***, is a twin-hull ship design that minimizes hull cross section area at the sea's surface.

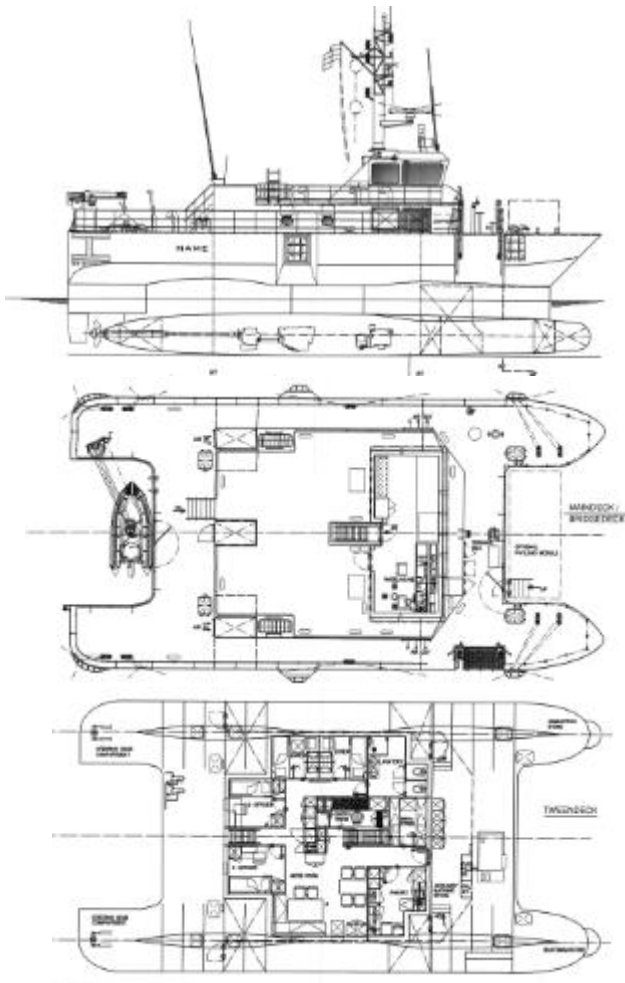


The waterline of a SWATH ship is the main difference to a catamaran
Two design justifications for reducing the waterplane area are:

- *to reduce the wave-making resistance*
- *to reduce sea-induced ship motions*

SWATH PATROL VESSELS

FIVE SWATH PATROL VESSELS FOR LATVIAN NAVY: "SKRUNDA" «CĒSIS» "VIESĪTE" "JELGAVA" "RĒZEKNE"



Applications: Search and rescue, fisheries inspections, environmental protection, sovereignty enforcement, participating in NATO and EU operations

Classification: DNV GL

Ship type: class (SWATH) patrol vessels

■ Main Characteristics

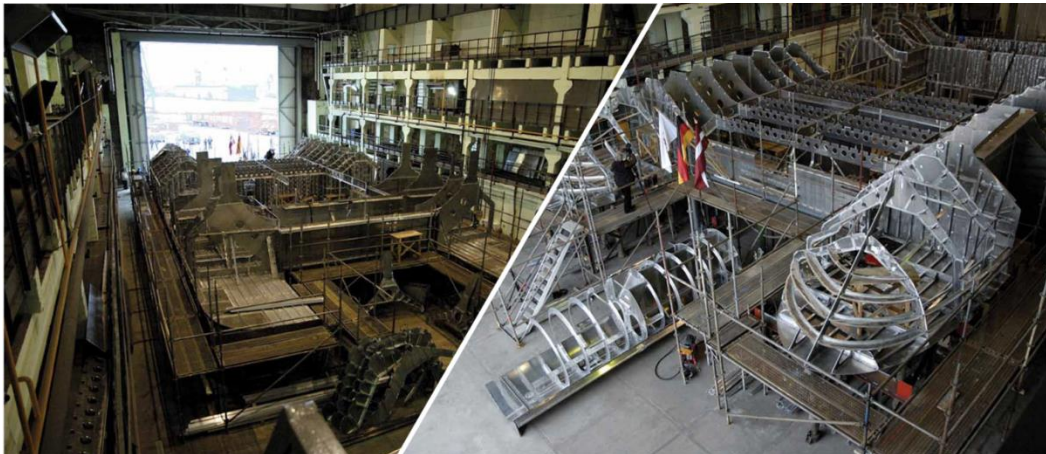
- LOA: 26,65 m
- Breadth: 13,00 m
- Draft: 2,70 m
- Crew: 8 per.
- Speed: 20 kn
- Hull material: Aluminium

■ Propulsion

- Main engine: 2x MAN D 2842 809kW at 2100

Features

- An innovative design
- Wheelhouse offers 360° visibility
- Ride-control system
- Autonomy up to 7 days
- Modular mission containers



WHEELHOUSE 360° VISIBILITY



MODULAR MISSION CONTAINERS

Between the two bows of the SWATH a Modular Mission Module in the size of a 20ft ISO container can be fitted. Modules may contain different weapon systems, equipment for hydrographical survey, environmental protection, divers or MCM tasks



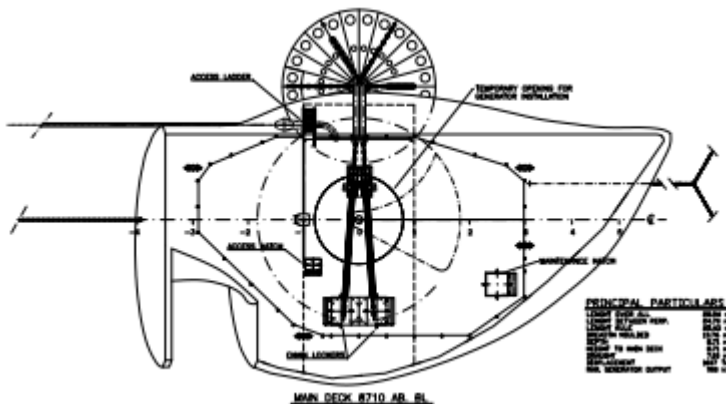
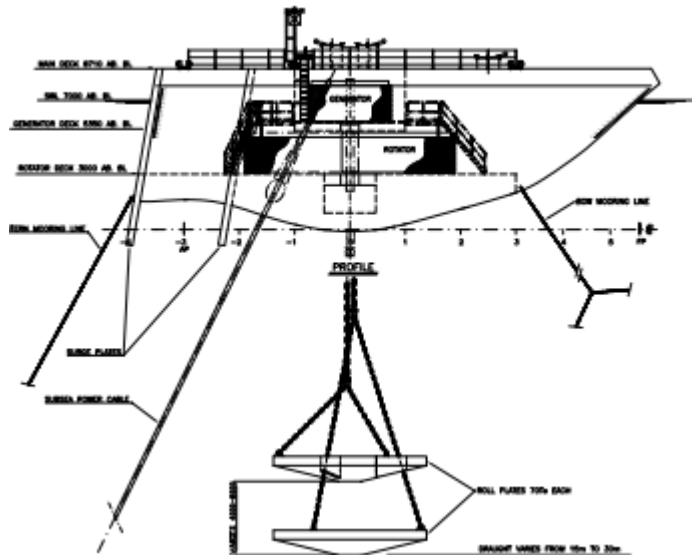


WAVE ENERGY CONVERTER



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THE PENGUIN WAVE ENERGY CONVERTER

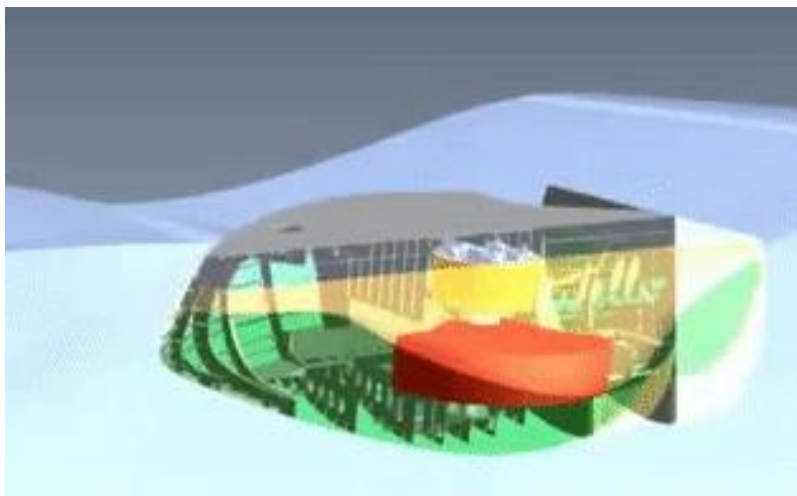


The Rīgas Kuģu Būvētava was commissioned to make a unique wave converter – a floating electric power plant using sea wave power to generate electricity. The project of the alternative energy source was formulated by the Finnish company Wello in cooperation with the European Marine Energy Centre

■ Main Characteristics

- LOA: 28,94 m
- Breadth: 13,76 m
- Draft: 8,71 m
- Hull material: Steel
- Generates: 950 kWh

- Penguin's technology is unique. Device uses its asymmetric shape to convert the waves to electricity with continuous rotational movement





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