

SBI VOL. 9 ISSUE 2 | 2015

# ShipBuilding

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## BRODOSPLIT WIDENS ITS PORTFOLIO

# Croatian

## KNOW-HOW

WITH A PORTFOLIO DOMINATED BY BULK CARRIERS AND TANKER BUILDS, CROATIA'S LARGEST SHIPYARD – BRODOSPLIT – HAS DIVERSIFIED IN RECENT YEARS. PASSENGER CRUISE SHIPS, HEAVY LIFT VESSELS, DUAL-FUELLED innovative Green container carriers and naval contracts are now on the list. Editor Tom Scott looks at some notable contracts – including the yard's first with Italian shipbuilding giant Fincantieri.

Established after a number of local shipyards merged back in 1922, Brodosplit covers an area of 56ha. From design to delivery, the yard provides the whole shipbuilding package. In fact, over the last 70 years it has delivered more than 420 ships comprising mainly of chemical and oil tankers and bulk carriers. Brodosplit is well known for the P-Max concept – this collaboration between the yard and Sweden-based Concordia Maritime saw the building of a series of tankers for the safer and more efficient transport of oil. These are specially designed vessels that can carry up to 30 percent more cargo than conventional tankers of the same size due to key adaptations in their construction: P-Max vessels are significantly wider and have a divided stern.

### Grand Blocks

Take a look at the order book recently and one contract stands out from the rest. In the first time in its history, Brodosplit supplied

hull sections to the Fincantieri Group. The four sections included a bow structure with three built-in thrusters, bulbous bow, ballast tanks and structures consisting of several decks with built-in equipment. The contract, totalling more than 2,000t of steel, also included piping and electric routing works. Fincantieri will use the hull sections for a 321m cruise ship that they are building at their Monfalcone Shipyard yard.

### Naval Contracts

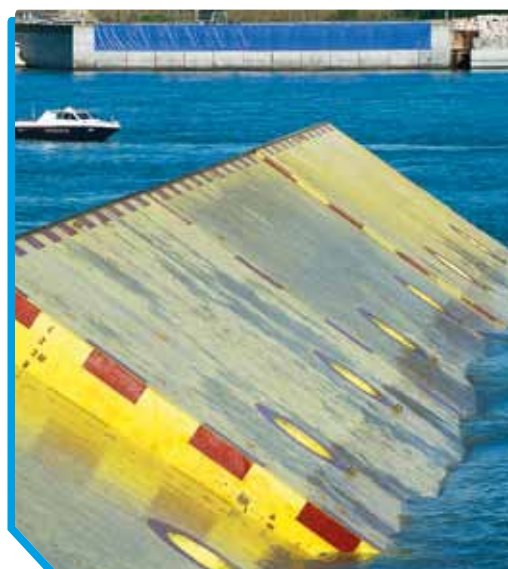
Brodosplit's shipbuilding abilities also include naval contracts: at the close of 2014, the Croatian Ministry of Defence contracted the yard to build five coastal patrol boats for the Croatian Navy Coast Guard. The 42.75m vessels will have a diverse arsenal comprising automatic machine guns and manually operated anti-aircraft rocket systems. Capable of a top speed of 30 knots, the patrol boats have a large navigational range and can stay at sea for ten days with fourteen crewmembers. The primary >>



The Jumbo Kinetic represents Brodosplit's move into the heavy-lift market.



In its first contract with the Fincantieri Group, Brodosplit delivered hull sections for a cruise ship.



## Protecting Venice

In addition to shipbuilding activities, Brodosplit is also involved in civil engineering works. 2015 kicked off on a high note when the yard won a EUR 50 million contract to build 41 floodgates that will protect the city of Venice from rising sea levels. The floodgates, to be installed on mouths of Malamocco and Chioggia rivers, will be 6m thick and measure 29 x 24m. The yard will perform construction in parallel – delivering three floodgates at a time.

The floodgates' design centres on internal reservoirs that can be filled by either air or water. When they are filled with water, they will lie flat on the seabed. When there is a risk of flooding, the reservoirs will be filled with air causing the gate to rise and therefore close the entrance of the river.



– TOMISLAV DEBELJAK,  
BRODOSPLIT CEO –



*We will provide all  
our knowledge and skills  
to make top quality product.*

purpose of the boats will be supervision and protection of Croatian interests at sea. Further tasks will include search and rescue operations and supporting Croatia's island populations.

The contract is worth EUR 50 million and will modernise the services provided by the Coast Guard.

"Armed forces will receive new capabilities and Croatian Shipyard will get a new product that we could launch further on international markets," pointed out the Croatian Minister of Defence Ante Kotromanović. "In this way we will stimulate whole Croatian economy."

The delivery of the first vessel is expected in 2016. "We will provide all our knowledge and skills to make top quality product which will later become an export product," commented Brodosplit CEO Tomislav Debeljak. "We will put together as much Croatian production and know-how as possible."

### Full Facilities

As well as extensive machinery, equipment, resources and facilities, Brodosplit has four modern slipways – one of which is fully

covered. The yard utilises the first slipway, for the construction of vessels up to 300m long and 50m wide. Slipway number two is used for building ships up to 250m long and 42m wide. Slipway number three is used for building ships up to 195m long and 26m wide and the fourth, covered, slipway is used for ships up to 60m long and 26m wide.

The yard combines its underwater plasma and oxy-acetylene cutting for steel plate and profile cutting – estimating a cutting capacity in mirror mode of 137m of cut per hour.

In terms of design, Brodosplit provides full service design using a CAD/CAM system with complete engineering and consulting facilities. Tank testing is performed in cooperation with the Research Institute of Naval Architecture in Zagreb.

**i. [www.brodosplit.hr](http://www.brodosplit.hr)**