

CASE

STUDY

Heavy Lifting Vessel  
Oleg Strashnov



2017/04



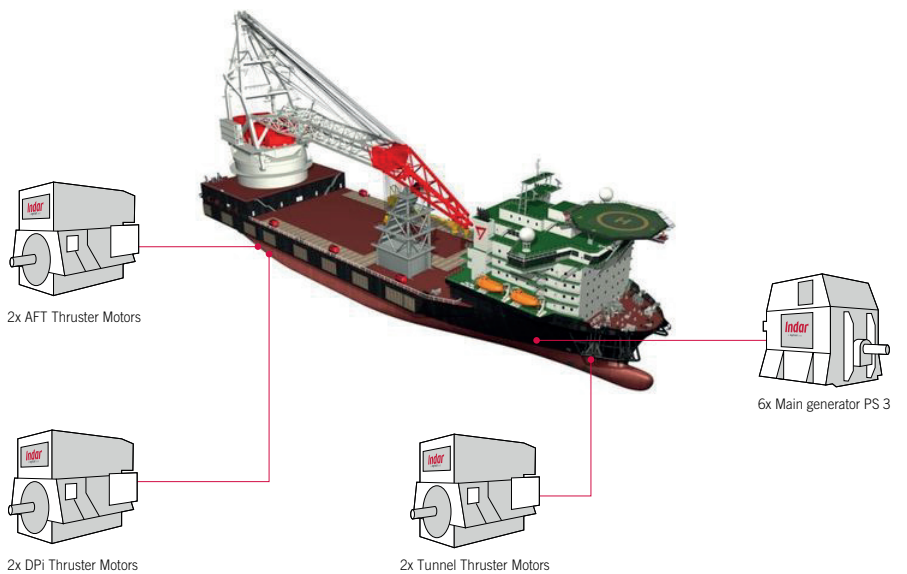
Oleg Strashnov is the world's second largest monohull crane vessel built for Seaway Heavy Lifting at IHC Merwede Krimpen Shipyard. This Gusto MSC-designed, fully-revolving main crane hook capable of single lifts of 5,000 metric tons (5,511 tons) at heights up to 100 m (328 ft). The high level of control provided by the DP3 dynamic positioning system facilitates installation of large, heavy subsea structures.

For this innovative heavy lifting vessel we developed the electrical machines for diesel-electric propulsion concept, featuring a redundant energy generation and propulsion system. All motors are fed and controlled by direct water-cooled frequency converters.

Main host capacity: 5,000 mt

INDAR Marine Applications:

- Generation
- Propulsion
- On-deck Machinery



## General Description

### INDAR Scope of Supply

Main Generators	<ul style="list-style-type: none"> <li>○ Output power: 5,400 kVA</li> <li>○ Voltage: 6,600 V</li> <li>○ Speed: 750 rpm</li> </ul>
Main Propulsion Motors	<ul style="list-style-type: none"> <li>○ Output power: 5,500 kW</li> <li>○ Voltage: 3,100 V</li> <li>○ Speed: 500 rpm</li> </ul>
Retractable Azimuting Thruster Motors	<ul style="list-style-type: none"> <li>○ Output power: 3,500 kW</li> <li>○ Voltage: 660 V</li> <li>○ Speed: 500 rpm</li> </ul>
Tunnel Thruster Motors	<ul style="list-style-type: none"> <li>○ Output power: 1,150 kW</li> <li>○ Voltage: 660 V</li> <li>○ Speed: 1,000 rpm</li> </ul>



### Vessel Main Characteristics

○ Owner:	Seaway Heavy Lifting
○ Length overall:	183 m
○ Length between perp.:	171.38 m
○ Breadth moulded:	47 m
○ Depth moulded:	18.20 m
○ Designing draught:	13.84 m
○ Trial Speed:	14 kn
○ Class:	DP3

### Main Hoist

○ Capacity:	5,000 mt
○ Outreach:	32 m
○ Max. weight:	102 m
○ Lowering speed:	14 m/min

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