



## Heavy lift in action

**Based in Cyprus, Seaway Heavy Lifting is a well-established company celebrating their 20th anniversary this year with the delivery of its new Heavy Lift Vessel (HLV) the Oleg Strashnov**

**T**he company has a lengthy history in the offshore construction and decommissioning sector in the North Sea, Persian Gulf and India. In March 2011 this company added the HLV Oleg Strashnov to its fleet, which till then consisted of the HLV Stanislav Yudin and the AHT Neftgaz 66. With this new asset, Seaway Heavy Lifting increases its lift capacity from 2500 t to 5000 t.

Even before the delivery of the Oleg Strashnov in March this year, the vessel has been contracted for several projects over the coming years. From the outset the performances of the Oleg Strashnov exceeded expectations and the work was completed well within contract schedules to the satisfaction of the clients.

### Lifting

The key issue of the vessel's lifting capability is the capacity of 5000t and a hook height of more than 100m above the waterline. This capacity can be utilised while the crane is in full revolving mode. The combination of the large water-plane area, the allowable side leads, position of heel point and the active ballast system; make the crane suitable for large and odd-sized loads.

Besides the 5000t main hoist, the crane has two auxiliary hoists of 200 and 800t, and a whip hoist of 110t reaching heights of 130m plus above sea level. A special feature is the so-called 'travel block' installed at the bottom chords of the crane boom. With this device the crew can travel right up the crane main hoists to be very close to the structure,

so they do not have to travel by boat to climb up the structure for releasing rigging for instance.

### Key Benefits:

- Larger hook load minimum offshore hook-up;
- Larger jackets by "Double-Hook-Upending";
- Hook height and boom length enables reaching distant locations on offshore structures.
- Particular Feature – Foldable A-Frame

### Foldable A-frame

It is the intention to work globally and to exploit the vessel's high transit speed to the maximum; a particular feature is the foldable A-frame. When folded, the vessel can pass

under certain bridges including the Suez Canal and the Bosphorus. This ability to cut corners shortens transit times to and from Middle East and South East Asia.

**Key Benefits:**

- Minimising transit time;
- Only one month from Rotterdam to Singapore;
- Saving fuel.

**Hull Design**

The hull design allows for high lifting capabilities and high transit speed of 14 knots. The hull shape is formed as a dual draught single hull with a small waterline width when in transit or during operations that does not require large stability. When greater stability is required, such as during heavy lift operations, the vessels draught will be increased which increases the waterline width. The dual width hull is achieved by adding two sponsons to the hull, which have sufficient clearance with the waterline, while in transit draught, thus reducing wave interaction. The hull design is largely developed in-house and refined by the engineering company MSCGusto. The two companies now have a joint patent on the hull.

**Key Benefits:**

- High sailing speed

- High workability;
- High stability

**Propulsion and Station Keeping**

The propulsion and dynamic positioning class 3 (DP3) is established by two 5000kW azimuth thrusters aft, two retractable 3500kW azimuth thrusters amidships and two bow tunnel thrusters of 1145kW each. Besides the DP3 system, for station keeping, the vessel is also equipped with an eight-point mooring system using 15t anchors. The combination of the power and the hull width in transit draught enables a high sailing speed of 14 knots

**Key Benefits:**

- Short transit time to remote areas all over the world;
- DP advantages such as deep water deployment, manoeuvrability at the work site and avoiding interference with subsea structures;
- Reduced lift radius when using the anchors, allowing higher hook loads.

**Deck Space**

The Oleg Strashnov is equipped with a large open deck space for storage of equipment and offshore structures. The loading capacity of the deck is 10t/m<sup>2</sup> and with the intersecting framing even

more capacity can be generated. This in combination with the 28m clearance between the deck and the crane boom, when resting, transportation on board of the Oleg Strashnov can be considered.

**Key Benefits:**

- Space makes it safe;
- Transport of larger structures on the HLV deck
- Transport of multiple smaller structures to remote areas far offshore

**Accommodation**

The Oleg Strashnov provides accommodation for a crew of 220 divided over four deck levels in the vessel's forward-placed deckhouse. This number can be increased to a crew of 395 to accommodate a workforce to entertain a project the Oleg Strashnov has to carry out. The 121 cabins are equipped with modern systems for telecom, television, video on demand, etc. The accommodation also foresees the provision of multiple client cabins and client offices complete with internet and communication services. The gym is not forgotten and is equipped with professional fitness apparatus.

**Key Benefits:**

- Sufficient accommodation for a large workforce;
- Large efficient workforce will save time;
- Modern cabins with e.g. TV, video on demand, etc.

**Services**

Seaway Heavy Lifting provides its services throughout the offshore energy industry, in both oil & gas and wind. The Oleg Strashnov will add more services to the market from integrated heavy topsides to deepwater developments such as TLPs, Spars and modules on floating units.

Seaway Heavy Lifting's goal is to remain recognised industry wide, as a reliable and innovative heavy lift contractor for their clients worldwide, with the Oleg Strashnov as a current milestone in the company's history. ■

*Folded A-Frame passing under a bridge*

