



A new milestone project in heavy lift shipping: SAL transported over 3500 tons of heavy cargo from Finland to Dubai. And performed its largest lifts ever.

It is the third tallest hotel in the world, located on an artificial island, it has 202 bedroom suites with a size of up to 780 square meters and owns a helideck – the



*Icy start in Finland: Cargo with 16 m overhang*

Burj Al Arab in Dubai. The world famous hotel scales up its exclusive beach peninsula and SAL Heavy Lift was assigned to transport the new luxury platform construction. SAL loaded the cargo onto the deck of its heavy lift vessel MV Svenja over Christmas and New Year in Finland under harsh working conditions in temperatures down to minus 28 degrees Celsius.

#### **SAL's largest lift ever.**

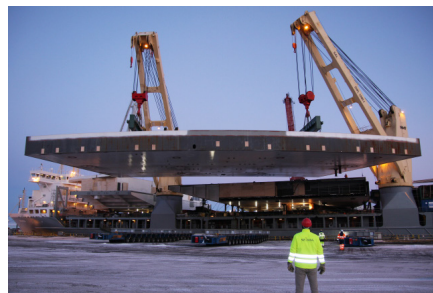
The shipment consisted of six beach platform modules with dimensions ranging from 52 x 42 meters to 79 x 36 meters per piece. Furthermore, the cargo included one connection ramp and 24 business cabanas. "In terms of dimension these are the largest items, SAL has ever lifted", explains Tilo Klappenbach, Project Engineer at SAL. "The

*main challenge was to manage the huge cargo overhang to portside, aft deck and starboard as well as the high stacking."*

A well-engineered structural reinforcement of vessel and cargo was required to achieve sufficient strength of the vessel.

#### **Safe and successful delivery.**

Moreover it was not possible to put one platform section directly onto the other. So the layers were resting on a large number of steel and wooden supports. To avoid the risk of wave slamming against the cargo SAL determined a



*Exploring vessels capacity: SAL's largest lift ever!*

wave restriction for the transport as well. After 22 days on sea MV Svenja arrived in Dubai on 30 January 2016, where the cargo was discharged onto barges. "Our 183 type is the perfect vessel to meet such challenging project requirements. SAL is very happy to contribute to the projects success.", says Klappenbach.

## BURJ AL ARAB NORTH DECK

**Loading and transport of six beach platform modules and several pieces of equipment for the Burj Al Arab Hotel in Dubai**

### OVERVIEW

#### **Location**

Dubai, United Arab Emirates

#### **Client-provided items (CPI)**

Beach platform construction:

- Six beach platform modules
- One connection ramp in two pieces
- 24 business cabanas

#### **Weight**

- Total: 3500 tons (all pieces)
- Heaviest piece: 740 t

#### **Dimensions**

79 x 36 m (largest middle segment)

#### **Vessel**

MV Svenja (Type 183, equipped with two 1000 tons cranes)

#### **Vessel modifications and deck equipment**

- Additional steelwork at the aft deck to achieve sufficient strength
- Steel and wooden supports for the cargo

#### **Scope of work**

- Design special lifting arrangements to load the modules
- Load the cargo onto the deck of SAL's heavy lift vessel MV Svenja in temperatures down to minus 28 degrees Celsius
- Transport in winter time via North Sea, Bay of Biscay and Mediterranean Sea to Persian Gulf

#### **Special**

- Overhang on three sides of the vessel (aft: 16 m, starboard: 15 m, portside: 9 m)
- SAL's largest lift ever

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