

Four Liebherr luffing jib cranes helping to build the future landmark of Azerbaijan

- Construction of a skyscraper complex in Baku
- Four luffing jib cranes with maximum hook heights of 177 m and 194 m
- Tower Crane Solutions provided support for planning this major project

Biberach / Riss (Germany), 23 June 2016 – Four Liebherr luffing jib cranes are currently operating in Baku (Azerbaijan). Since the beginning of 2015 an architectural landmark has been under construction in the capital of Azerbaijan, the urban development project known as "The Crescent Bay".

The project was designed by South Korean architecture agency "Heerim Architects & Planners" and comprises three parts, the Crescent Hotel, the Crescent City and the Crescent Place. The "La Luna" luxury hotel is to be built on a small artificial island and will reach 166 m up into the air. Based on the half-moon on the flag of Azerbaijan, the hotel will be shaped like a vertical sickle open at the bottom. Next to the luxury hotel, "The Crescent Bay" will be a shopping centre covering an area of around 50,000 m² with an indoor and outdoor area, a modern residential complex with 100 apartments and 20 duplex terraced houses as well as an innovative office building with 38 storeys.

Special assembly of Liebherr luffing jib cranes

The customer Gilan Holding decided on four Liebherr luffing jib cranes. They are able to climb up the inside of the building thus leaving space on the ground for other construction machinery. They climb through openings in the storey ceilings. That means that the entire climbing system is easily accessible. The resulting cavities are closed again as soon as the cranes have climbed past them.

The first storeys of the building had been completed when the cranes were assembled in April 2015. That meant that all four Liebherr luffing jib cranes were attached by a crawler crane from above to the external frame. Two 280 HC-L 12/24 Litronic and two 542 HC-L 18/36 Litronic are now working on the project. The two 280 HC-L cranes have a maximum hook height of 177 m, a radius of 35 m, a lifting capacity of 11 t at the

jib head and a 110 kW heavy-duty hoist gear. The two 542 HC-L cranes have a radius of 50 m, a lifting capacity at the jib head of 9.7 t and a motor capacity of 160 kW to reach a maximum hook height of 194 m. The entire reinforced concrete structure for the hotel will be erected by the four Liebherr cranes.

The Tower Crane Solutions Department at Liebherr provided the building contractor with support for planning the project and during the construction phase, which was one of the reasons for working with Liebherr. The technical expertise and excellent service also played an important role in reaching this decision. The four luffing jib cranes from Liebherr are the first internal-climbing cranes in Azerbaijan.

Captions

liebherr-luffing-cranes-crescent-hotel-baku.jpg

Four Liebherr luffing jib cranes building the Crescent Hotel in Baku.

Contact person

Hans-Martin Frech

Marketing & Market Management

Phone: +49 7351 41-2330

E-mail: hans-martin.frech@liebherr.com

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www.liebherr.com