

## **BKL's powerhouse is building Berlin's Skyline.**

**On a car park, the big 21 LC 750 crane to lift over 150 almost 8 tonne wood modules for a hotel.**

**Munich, 15<sup>th</sup> June 2018 – One of Germany's most powerful rental cranes, a 21 LC 750 from BKL's crane fleet, now stands on the parking deck of Berlin's shopping mall "Ring-Center". The BKL Baukran Logistik team planned the installation of the 750 tonne meter giant, with a radius of 80 meters, on a special steel construction, assembling it with a 500 tonne mobile crane from the BKL fleet. Until the summer, the Linden Comansa flat-top crane is to install 151 wood modules, building an exceptional hotel with a modular design concept.**

"A special feature of the SKYPARK hotel concept by MQ Real Estate is that it exploits the inner-city potential of adding another storey", says Reiner Dinse from the Hannover office of BKL Baukran Logistik GmbH. He goes on, "The hotel's modular design requires large wood modules, each 20 square meters and weighing some 7.5 tonnes, to be lifted over a distance of up to 75 meters. Not many cranes can handle such a Herculean task".

### **A special steel construction allows the 750 tonne meter crane to be assembled on the car park roof.**

Given the challenging requirements of load capacity and radius, the team picked a 21 LC 750 from BKL's crane fleet, whose PowerLift technology offers extra lifting capacity of up to 48 tonnes. One of Germany's most powerful hire cranes, the Linden Comansa flat-top crane is ideal for lifting the approximately 7.5 tonne modules from the street around 20 meters below the site of the crane to their destination on the aboveground park deck, almost 80 meters away.

As the bearing capacity of the car park roof is insufficient for such an exceptional load, the building contractor MQ Real Estate teamed up with the crane specialists at BKL Hannover and a steel constructor to design a special 16.5 by 16.5 meter steel substructure to transfer the load, assembling the crane on its 10 meter cross base.

### **Time-efficient assembly with a 500 tonne mobile crane.**

The BKL specialists settled on a 500 tonne machine from their fleet of mobile cranes to assemble the Comansa tower crane and lift its approximately 24 tonne cross base. The mobile crane team configured an LTM 1500-8.1 with a 49 meter luffing jib and 165 tonne ballast to reach the required radius of 50 meters and ultimately install the construction crane around 20 meters above the ground at a hook height of 20.4 meters.

The Ring-Center's central location on Frankfurter Allee, an important traffic road, called for a tight schedule, not just to assemble the construction crane, but also to set up and dismantle the mobile crane. The BKL project team mostly deployed BKL's own trucks to synchronize delivery of the crane parts. The steel substructure and construction crane were installed in just five days.

The 21 LC 750 is to lift the 151 room modules, which are fully equipped apart from the moveable furniture, by August 2018. With 151 rooms in all, the SKYPARK Berlin hotel overlooks the Berlin-Mitte district, in downtown Berlin.

### **Configuration of the BKL cranes used in this project and the data sheets:**

#### **Linden Comansa 21 LC 750:**

Hook height: 20.4 m (43.5 m hook height, incl. building)  
Radius: 80 m  
Max. lifting capacity: 48 t  
Peak load: 7.15 t

#### **Liebherr LTM1500-8.1:**

Hook height: 53 m  
Radius: 50 m  
Max. lifting capacity: 500 t  
Specification: total ballast 165 t, luffing jib 49 m

Please refer to [www.bkl.de/en/crane-finder/](http://www.bkl.de/en/crane-finder/) or the 'Mein BKL' German app for other large cranes.

# PRESS RELEASE



## **About BKL Baukran Logistik GmbH**

With 50 years of experience in the business, BKL Baukran Logistik GmbH specializes in crane rental, sales and service. Employing over 200 staff at five locations, the company is one of Europe's largest manufacturer-independent providers of crane solutions. BKL's crane fleet offers over 400 tower cranes, boasting a radius from 22 to 80 meters, plus 70 all terrain mobile cranes from 30 up to 500 tonne giants and eight MKs with a radius of up to 65 meters. BKL customers benefit not just from the wide range of state-of-the-art machines but first and foremost from the bespoke turnkey package, certified according to DIN EN ISO 9001 and SSC<sup>P</sup>, including planning, logistics and transportation, as well as the 24-hour emergency response. BKL's reference projects include the European Central Bank, the Allianz Arena and BMW Welt. For further information: <https://www.bkl.de/en/>.

Indications of weight in tonnes mean metric tons.

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