

Standing tall – Porr builds Bavaria Towers with WOLFF cranes

Munich – June 2017. **Once completed, the Bogenhausener Tor construction site – at the intersection of two main arteries in the direction of Munich city center – will form a representative eastern entrance to the Bavarian capital. Four WOLFF cranes have been on site since the beginning of 2016, helping to realize this vision. Commissioned by Porr Deutschland GmbH, they are in operation on the large-scale "Bavaria Towers" project, which is a new high-rise complex at the gateway of the Bogenhausen district consisting of three office towers and a hotel tower. The WOLFF cranes provide an efficient assembly concept for the cramped construction site, as well as high free-standing tower heights.**

The trolley jib cranes WOLFF 7532, WOLFF 6023 and WOLFF 6031 are mainly used for material handling for the construction of two of the four towers: the "Blue Tower" (72.30 meters) and the "White Tower" (53.60 meters). Thanks to their lifting capacities of 4.6 to 5.2 tons, they are ideally suited for lifting heavy concrete and formwork elements as well as concrete steel mats, which are used to reinforce the ceilings and walls of the high-rise buildings. Furthermore, the WOLFF cranes are also used for the construction of an underground car park, which will stretch over three basement levels up to 15 meters in depth. "Thanks to jib radii between 40 to 65 meters and varying hook heights, the four cranes do not get in each other's way and can work without interruption on the cramped construction site around the high-rise buildings," explains Frank Conrad, Technical Manager of Equipment Management at Porr.

Well planned: Secure stand without tie-ins

It was already taken into account in the planning phase that the top-slewing cranes had to be free-standing, since a tie-in on the glass façade of the building would not have been possible for technical reasons. "In order to ensure sufficient stability despite tower heights of 69 to 95 meters, we used tower sections with a larger cross-section of around 3 x 3 meters at the base of the cranes. This means that high free-standing tower heights paired with quick assembly times are possible," explains Ulrich Langenbein, Sales Manager at WOLFFKRAN Germany. The WOLFF cranes are climbed to the final hook heights with the proven time and space-saving WOLFF external climbing method. An additional mobile crane is not required. They will be dismantled in the same way when the construction work has been completed. It is planned that the four WOLFFs will be successively

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climbed up to their final hook heights in a single climbing process as the buildings extend upwards.

WOLFFKRAN – A strong project partner

"The good results of the construction of the High Mosel Bridge in 2014, along with other factors, have led us to rely on WOLFFKRAN in this project too," explains Frank Conrad. While one WOLFF 6023 and the WOLFF 6031 come from Porr's own fleet, the WOLFF 7532 and the second WOLFF 6023 were hired from the construction equipment rental company Trinac GmbH. The red giants will rise alongside the skyscrapers in east Munich until the end of 2017. The first tenants are expected to move into the building complex, planned by the Spanish architect duo Fuensanta Nieto and Enrique Sobejano, already this year.

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WOLFF cranes at work on the Bavaria Towers in Munich:

WOLFF	Crane Base	Jib Radius, m	Tower Height, m	Max. Lifting Capacity t	BGL group (mt)
7532	Foundation Anchor	65	95	4,6	315
6023	Foundation Anchor	40	83	5,2	180
6023	Foundation Anchor	40	69	5,2	180
6031	Foundation Anchor	55	78	5,2	224



Four WOLFF cranes, commissioned by Porr Deutschland GmbH, are currently working on the Blue Tower and the White Tower at the Bogenhausener Tor.



Thanks to the precisely coordinated jib radii and tower heights, the WOLFF top-slewing cranes can slew underneath each other without a problem, despite the confined conditions of the construction site.



WOLFFKRAN already convinced Porr of its technical advantages in other construction projects, such as the construction of the High Mosel Bridge in Rhineland-Palatinate.

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Several WOLFF packs are currently in use in Munich. One of them is on the construction site of the Bavaria Towers at the gateway to the Bogenhausen district.

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With a tradition of over 150 years WOLFFKRAN is one of the leading manufacturers and rental companies of high-quality tower cranes in Central and Eastern Europe, the Middle East, North America, Australia and Southeast Asia. The worldwide rental fleet comprises more than 750 WOLFF cranes. It is headquartered in Zug (Switzerland) and has manufacturing sites in Heilbronn and Luckau (Germany), as well as international subsidiaries and partnerships around the world. It employs a global workforce of approx. 800 people.