

Open-heart surgery - Two XXL WOLFF cranes on the overall refurbishment of the Clinical Center in Ingolstadt

Ingolstadt – August 2015. **The Klinikum Ingolstadt treats around 38,000 people every year. After almost 30 years of caring for patients, the clinical center is itself now in need of some care. Construction work for the overall renovation of the hospital started a year ago. At the end of last year, two WOLFF cranes of the XXL class were put up to add a new floor to the building without interrupting the hospital's day-to-day business.**

From an organizational point of view the renovation of a hospital is very demanding, since the treatment of patients may not be interrupted at any time and medical emergencies do not take construction schedules into consideration. WOLFFKRAN provided two saddle jib cranes of the XXL class for the Ingolstadt site: the WOLFF 9025.20 *cross* and the WOLFF 8540.20 *cross*. "Already the assembly of the two WOLFF cranes using a 500-ton mobile crane proved to be very challenging and had to be optimally coordinated with the hospital's daily business," says Ulrich Langenbein, Sales Manager for Germany at WOLFFKRAN. "The delivery of the mobile crane and WOLFF crane components as well as their pre-assembly on the ground and the set-up of the eight by eight meter cross frame all had to be meticulously coordinated to not interfere with the hospital's daily routine," says Langenbein.

Long, longer, WOLFFKRAN –a job for the XXL class cranes

Because the emergency area at the front of the hospital building and the service access at the back had to be kept clear at all times, the WOLFF cranes could only be set up on the narrow sides of the building. This meant that very long jib lengths were necessary to fully cover the 160-meter complex. The WOLFF 9025.20 had a 90-meter jib and tip load capacity of 2.5 tons. The WOLFF 8540.20 was equipped with a special 100-meter jib, which corresponds to the length of a soccer field. "Despite its impressive dimensions, the WOLFF 8540.20 is statically so designed that it can lift a constant load 3.7 tons along the entire jib," says Ulrich Langenbein. "WOLFFKRAN is the only tower crane manufacturer that offers these jib lengths combined with high load capacities," Langenbein continues. The two saddle jib cranes were used to lift the steel substructures and composite panels onto the hospital roof that were necessary for erecting the new seventh floor. Overall, they moved 450 tons of steel, 6,000 m² of reinforced concrete composite flooring as well as 2,900 m² trapezoidal sheets and 3,000 m² of concrete ceilings for the new roof. In order for cranes to safely slew

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above each other, they were respectively placed on 37 and 46-meter high towers.

Successful start to a mammoth project

The crane schedule was very tight, since the roof of the clinical center had to be opened up in order to erect the additional floor, which meant that the building was actually exposed to wind and weather during this phase. Working in their usual efficient manner, the WOLFFKRAN team successfully mastered this complex construction phase and completed the job in only four months. However, for the Klinikum Ingolstadt, this was just the beginning. The total renovation of the hospital is scheduled to take a about 20 years.

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WOLFF cranes in action in Ingolstadt:

| WOLFF | Crane base | Jib radius, m | Tower height, m | max. Lifting capacity, t | BGL-Group (mt) |
|---------|-------------|---------------|-----------------|--------------------------|----------------|
| 9025.20 | Cross frame | 90 | 37 | 20 | 400 |
| 8540.20 | Cross frame | 100 | 46 | 3.7 | 500 |

Images and captions:



Source: WOLFFKRAN

The renovation of the Klinikum Ingolstadt is a job for the XXL cranes in the WOLFF Pack. Together, the 9025.20 WOLFF and WOLFF 8540.20 with their respective 90 and 100-meter long jibs easily cover the entire 160-meter complex.



Source: WOLFFKRAN

Just assembling the cranes proved to be demanding. So that the Hospital could continue to run smoothly despite the construction site, each step had to be carefully planned and coordinated.



Source: WOLFFKRAN

Klinikum Ingolstadt got a seventh floor with a little help from the red WOLFFs. The cranes lifted tons of steel parts and composite panels onto the roof. However, the renovation of the hospital has only just begun. The work is expected to last two decades.

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Mit seiner über 150-jährigen Tradition ist WOLFFKRAN einer der führenden Hersteller und Vermietler von hochwertigen Turmdrehkränen in Mittel- und Osteuropa, dem mittleren Osten, Nordamerika, Kanada, Australien und Hongkong. Die Mietflotte umfasst weltweit über 750 WOLFF Krane. Mit seiner Firmenzentrale in Zug (Schweiz) und den Fertigungsstandorten in Heilbronn und Luckau (Deutschland), sowie seinen internationalen Niederlassungen, beschäftigt das Unternehmen weltweit ca. 900 Mitarbeiter.