

Press release

Liebherr LTM 1450-8.1 mobile crane couples timber modules with reinforced concrete carcass for care home

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- 158 new residents' rooms in completely prefabricated timber construction
 - LTM 1450-8.1 mounts timber modules on reinforced concrete carcass
 - 85-metre telescopic boom eliminates the need for lattice extensions

The Illertissen Caritas Association (illerSENIO) is currently building Germany's largest care home in Vöhringen using a timber-hybrid modular construction. In parallel to the reinforced concrete corpus, 158 completely finished residents' rooms were prefabricated at a specialist timber construction company. A Liebherr LTM 1450-8.1 mobile crane from Schußmann Kranservice GmbH coupled the modules and carcass.

Ehingen (Donau) (Germany), 6 February 2024 – illerSENIO broke new ground when building the new care home in Vöhringen. The idea of designing the building entirely as a timber-hybrid modular construction was initially met with scepticism. But the advantages were obvious: time and cost savings as well as the use of ecological materials.

Eighty-five-metre telescopic boom is a perfect fit

Crane specialist Schußmann, based in Mammendorf, just outside Munich, sent one of its most powerful mobile cranes to Illertal to assemble the timber modules on the concrete carcass. With its 85-metre telescopic boom, the LTM 1450-8.1 was able to assemble all 158 modules from just three different crane locations on the construction site, without the need to set up a lattice extension. The outstanding flexibility of the LTM 1450-8.1 with its hydraulically adjustable ballast radius proved to be a major advantage. On the top floor, at the last location for the assembly of the modules, each of which weighted around 15 tonnes, the Liebherr 450-tonne crane managed with just 34 tonnes of ballast.

Fully equipped residential units

The residents' rooms were manufactured by Künzli Holz AG, a specialist timber construction company with six branches in Switzerland and two locations in Germany. The modules for the nursing home in Vöhringen came from Rammingen in Bavaria. Each of the fully equipped accommodation units is 4.4

metres wide and 7.8 metres long and not only includes flooring materials, wall panelling and built-in cupboards, but also the entire electrical system. Each bathroom is fully equipped with water connections and all sanitary fittings ex works, right down to the mirror. Due to the extra width, special transport to the construction site was required.

About Liebherr-Werk Ehingen GmbH

Liebherr-Werk Ehingen GmbH is a leading manufacturer of mobile and crawler cranes. Its range of mobile cranes extends from 2-axle 35 tonne cranes to heavy duty cranes with a lifting capacity of 1200 tonnes and a 9-axle chassis. Its lattice boom cranes on mobile or crawler travel gear deliver lifting capacities of up to 3000 tonnes. With universal boom systems and extensive additional equipment, they can be seen in action on construction sites throughout the world. The Ehingen site has a workforce of 4,300. An extensive, global service network guarantees the high availability of Liebherr mobile and crawler cranes. In 2022, the Liebherr plant in Ehingen recorded a turnover of 2.37 billion euros.

About the Liebherr Group

The Liebherr Group is a family-run technology company with a widely diversified product range. The company is one of the largest manufacturers of construction machines in the world. However, it also supplies high quality, user-focused products and services in many other sectors. The group currently comprises more than 140 companies based in every continent of the world. In 2022, it had a workforce of over 50,000 and recorded a consolidated total turnover of more than 12.5 billion euros. The company was founded in 1949 in Kirchdorf an der Iller in southern Germany. Since then, its aim has been to win customers by supplying high quality solutions and to contribute to technological progress.

Images



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The LTM 1450-8.1 couples the modular timber housing units with the concrete carcass.



liebherr-ltm1450-8-1-schussmann-02.jpg

The LTM 1450-8.1 manages with just 34 tonnes of ballast when assembling the last of the modules, which weigh around 15 tonnes each.

Contact

Wolfgang Beringer
Marketing and Communication
Phone: +49 7391/502 - 3663
Email: wolfgang.beringer@liebherr.com

Published by

Liebherr-Werk Ehingen GmbH
Ehingen (Donau) / Germany
www.liebherr.com