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### **Strong alone or in a pack – WOLFFKRAN presents the new WOLFF 8076 Compact, its first saddle jib crane in the 800-meter-tonne class**

*Heilbronn – December 2021.* According to the European Architectural Barometer, every third construction project in Europe uses prefabricated parts. A trend with significant implications for the tower crane industry calling for higher capacity cranes. WOLFFKRAN's answer to this is its new WOLFF 8076 Compact. The latest member of the WOLFF pack has a maximum jib radius of 80 meters and is WOLFFKRAN's first trolley jib crane in the 800-meter-tonne range. And yet, its high lifting capacity is not its only convincing characteristic.

"We wanted to design a large yet economical crane and get the maximum capacity out of the steel structure. That's why we opted for a low-top design, which we call Compact," says Wouter van Loon, Product Manager at WOLFFKRAN. Despite a tower top around 10 meters lower than that of a WOLFF Cross model, the WOLFF 8076 Compact offers a maximum lifting capacity of 40 tonnes and a tip load capacity of 8.4 tonnes at 80 meters. "And that as a pure 2-fall crane, making the WOLFF 8076 Compact not only the strongest saddle jib crane in our range but also best-in-class compared to its competitors," says van Loon.

Also new is the 4-chord design of the first three jib sections instead of the usual 3-chord design. "This allowed us to optimize the transfer of forces along the jib and reduce individual components weights, resulting in around 40% higher lifting capacity than with the 3-chord design," explains van Loon.

### **Standing tall**

The WOLFF 8076 Compact connects to the 2.9 x 2.9 meter TV 29 tower system. Combined with the next-largest WOLFF TV 33 tower system, a freestanding height of up 100 meters can be achieved – a time-saving and economical solution for high-rise buildings or bridge projects where tie-ins are not possible. The proven and powerful 132-kW HW 40132 FU hoist winch allows for operating speeds of up to 95 m/min, ensuring fast turnaround times even at great tower heights. Even the maximum load of 40 tonnes is still lifted at 17 m/min.

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### Strong team player

The jib of the WOLFF 8076 Compact can be extended from 30 to 80 meters in 5-meter increments. A hoist rope support on the jib reduces rope slack from 10 to only 1.5 meters, lowering the risk of another crane getting caught in the hoist rope when slewing. The counter jib can also be shortened from 30.3 to 22.3 meters, depending on the maximum jib radius. In combination with its compact tower top, the new XXL crane is therefore also well suited for construction sites where cranes operate close to one another, and the overall crane concept has to be kept low. For example, when fitted with a 55-meter jib and shortened counter jib, it offers a tip load capacity of 16.6 tonnes, making it an ideal crane even on multi-crane job sites requiring high lifting capacities.

### More safety and comfort: Thought-out assembly properties combined with high-end standard features

Thanks to the compact tower top and 4-chord jib design, the WOLFF 8076 Compact can be erected using a standard 350-tonne mobile crane. An auxiliary device on the tower top enables the erection team to align the tie rods of the jib and counter jib without a mobile crane. A wider access to the cab, a maintenance platform for the slewing drive, and galvanized Class-1 access to the trolley drive and hoist winch further increase safety and comfort during erection and maintenance.

The standard feature package is extensive as usual. It includes electronic overload protection with WOLFF Boost, an anti-collision interface, fine drive modes, automatic power optimization of the trolley and hoisting gear, and the WOLFF Link remote maintenance system with a real-time view of the crane display.

### A solid basis for future cranes

WOLFFKRAN's new XXL crane is bound to get company sooner or later. "We are evaluating a heavier lift version of this model, as well as one with a longer reach," explains van Loon, providing a glimpse of the future. Both models will be designed around the same basic components of the new WOLFF 8076 Compact.

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WOLFFKRAN is a leading manufacturer of premium quality tower cranes with a tradition spanning over 150 years. With its own rental fleet of some 800 tower cranes it is also one of the largest crane rental businesses in the world. WOLFFKRAN is headquartered in Zug, Switzerland and has manufacturing sites in Heilbronn and Luckau, Germany, and Lkhovitsy, Russia. It currently employs a global workforce of approx. 860 people in its three manufacturing sites and its sales and service subsidiaries located across Western and Central Europe, the Middle East and the United States.

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Large, yet economical was the credo according to which the new WOLFF 8076 Compact was developed.



With the low-top design, WOLFFKRAN engineers get the maximum lifting capacity out of the crane. The WOLFF 8076 Compact lifts up to 40 tons.

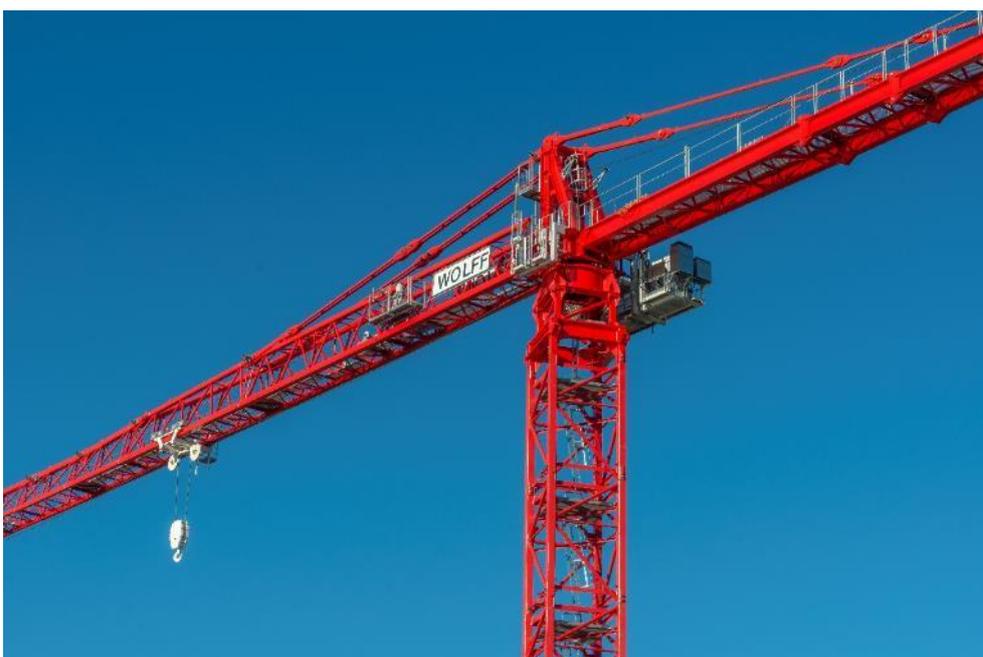
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The newcomer with compact tower top is stronger than the strongest Cross model in the pack and also ahead in the competitive comparison.



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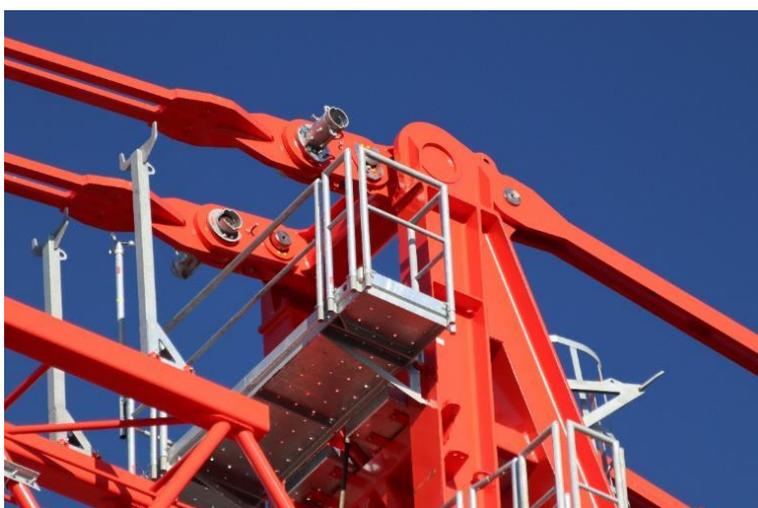
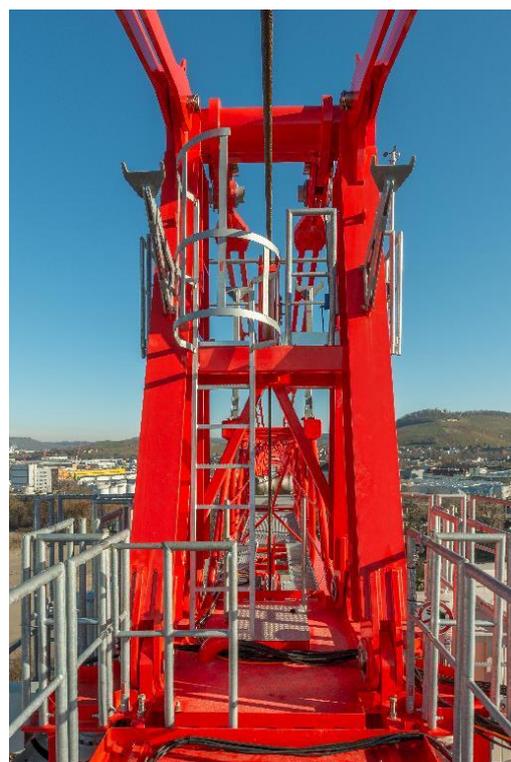
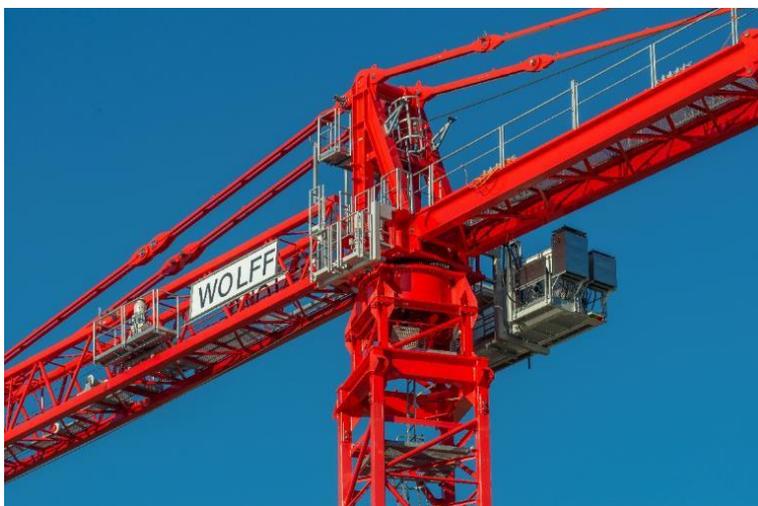
The compact tower top allows several cranes to stand close together on a construction site and slew over each other.

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Thanks to the compact tower top and 4-chord jib design, the WOLFF 8076 Compact can be erected using a standard 350-tonne mobile crane. Standard mounting platforms at the slewing drive, assembly blocks and platforms for rigging the jib and counter jib and an auxiliary device at the top of the tower, which allows the bracing to be assembled without a mobile crane, also pay tribute to the ease of assembly of the WOLFF 8076 Compact.

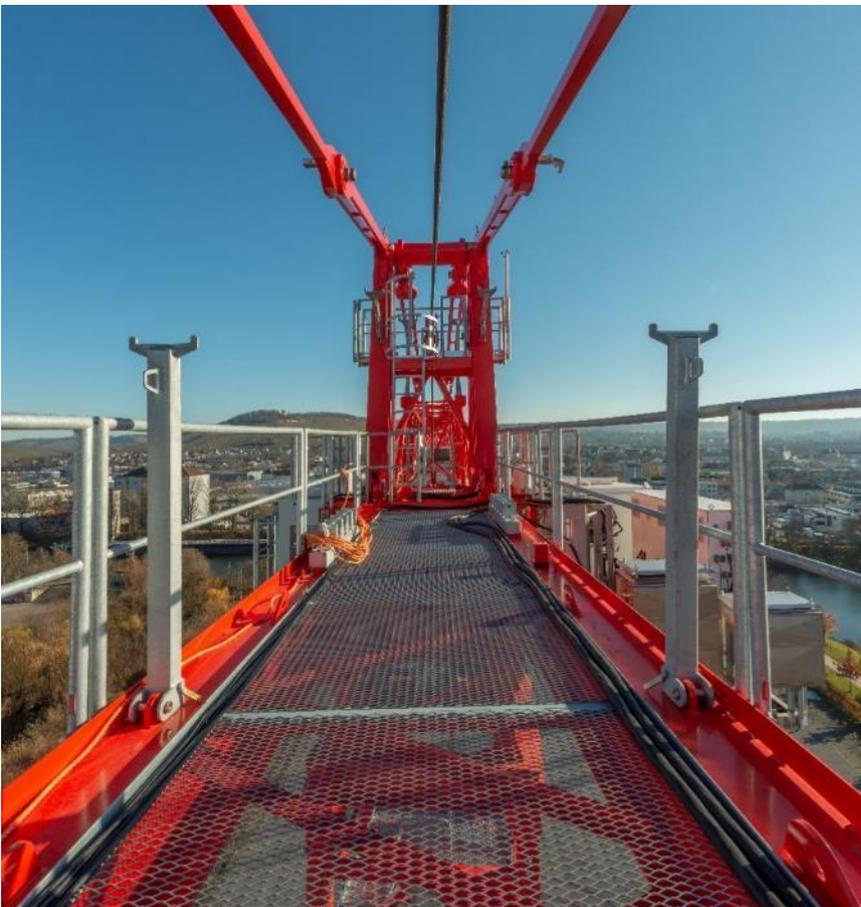


Source: Heinz Keßel

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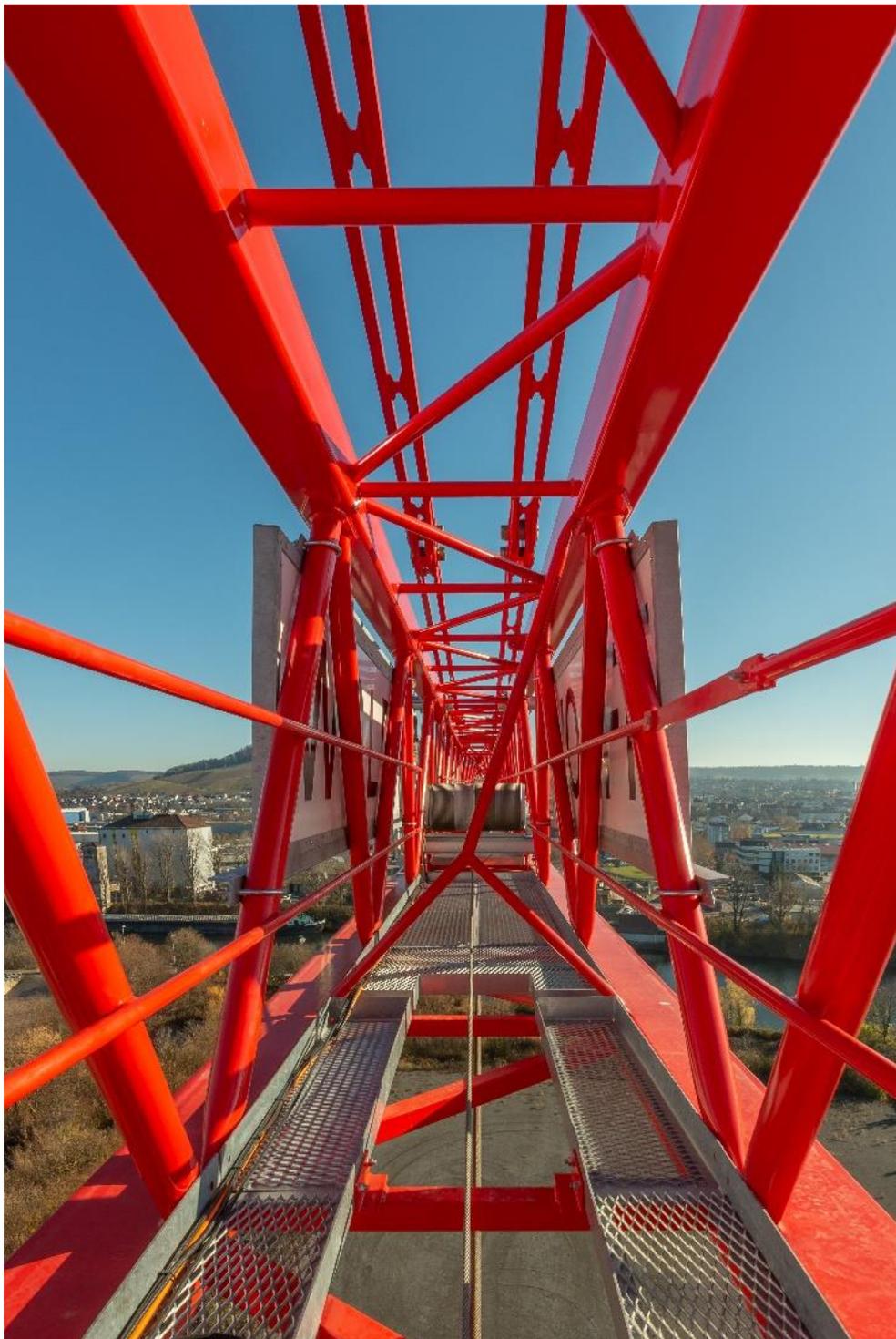
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The first three jib sections are designed as 4-chord instead of 3-chord variants. As a result, individual components are lighter and the transmission of forces at the jib is optimized: around 40% higher lifting capacities are achieved with this design.

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The transition of the jib sections in 4-chord design to the jib sections in 3-chord design. On the right, the hoist rope support, which reduces the rope slack from the standard 10 meters to only 1.5 meters.



The WOLFF 8076 Compact is launched on the market as a pure 2-fall crane. Despite this, it still lifts 8.4 tons at the top with an 80-meter jib.

Source: Heinz Keßel

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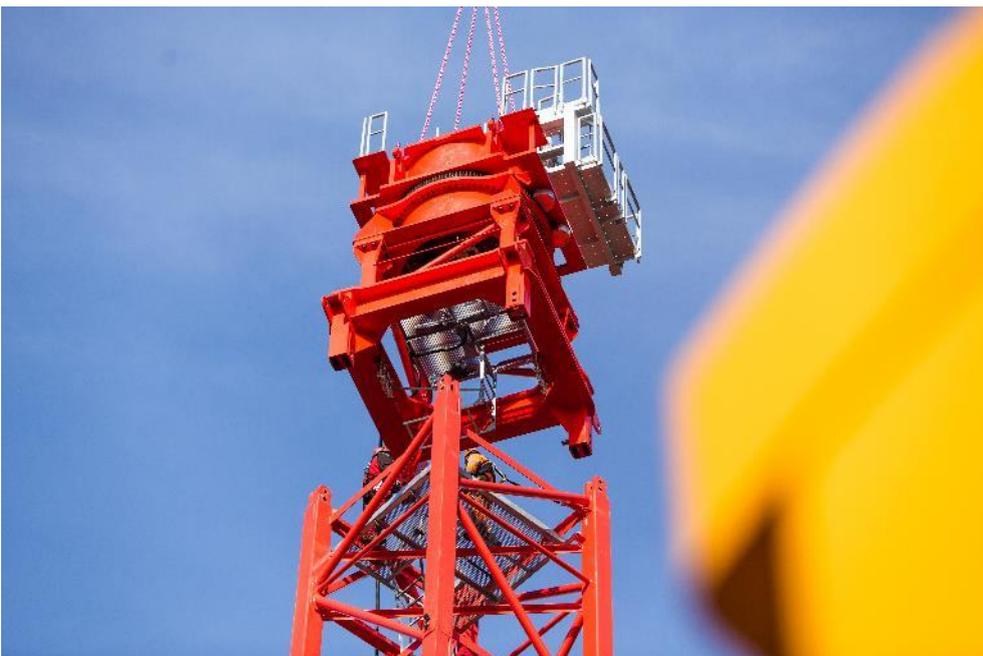
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To the right of the counterweight blocks is the proven and most powerful HW 40132 FU 132 kW hoisting winch, with which operating speeds of up to 95 m/min are possible. At the top is an auxiliary crane for service work.

Source: Heinz Keßel



The WOLFF 8076 Compact has a tower connection for the 2.90 x 2.90 meter TV 29 tower element.

Source: Markus Völter

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Combined with the next largest WOLFF tower element TV 33, free-standing tower heights of up to 100 meters are possible.

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Assembly of the cabin platform with WOLFF Cab and control cabinet.

Source: Markus Völter



Stowage space with depot for stub shafts for the counterweight blocks.