

An aerial photograph of a wind turbine under construction. A large red lattice crane, the Wolffkran, is positioned vertically along the tower. The crane's jib extends upwards and outwards, reaching towards the nacelle and the blades. One blade is already partially attached to the hub. The ground around the turbine is a construction site with various vehicles, including cars, vans, and a yellow excavator, and piles of materials. The surrounding landscape consists of green fields and a dirt road.

WOLFFKRAN

**A clever solution
for wind turbine
installation and
maintenance**

Helping you reach new heights

Bigger wind turbines demand intelligent new ways of thinking...



Advances in wind turbine technology are creating bigger, higher, more powerful and more efficient wind turbines.

WOLFFKRAN's global specialism in delivering extreme height lifting solutions ensures that we are perfectly placed to meet the challenges involved in the installation of the next generation of 'super-sized' wind turbines, regardless of location or terrain.

Using standard tower elements alone, hub heights of 140 meters without any ties to the wind turbine can be achieved. Even higher hub heights are possible by tying the tower crane to the turbine.

WOLFFKRAN's unique modular system is able to develop individual solutions for even higher requirements with only a limited number of customized parts needed to optimise your crane's performance.



WOLFFKRAN is the perfect partner for wind turbine installation and maintenance

WOLFFKRAN's world leading tower crane expertise and innovation has developed a specific range of lifting services designed to meet all of the heavy lifting requirements for the erection and maintenance of wind turbines.

Our tower crane technology provides a more cost effective way to build and maintain wind turbines and is ideally suited to meet difficult and demanding build schedules, providing a smarter alternative to typical crawler crane utilisation.

Six key reasons to choose a tower crane instead of traditional build and maintenance lifting methods.



Cost benefits

Tower cranes provide a significantly cheaper alternative to other lift mechanisms



Space saving assembly

Our cranes are assembled in the secured area around the wind turbine, ideal for space restricted sites



Faster operating speeds

Quicker hook speeds ensure greater productivity



Exact positioning of loads

Elevated driver position and WOLFF Fine Positioning controls allow for the exact placement of heavy loads



Greater stability and less down time

Fixed directly to the wind turbine foundations our cranes can work at wind speeds of up to 20 m/s



Ease of transportation

WOLFFKRAN tower cranes are significantly lighter, requiring less transportation costs (our cranes arrive using standard road transport and offer significantly less environmental impact)

WOLFFKRAN quality and service sets us apart

At WOLFFKRAN we offer a complete solution for the wind turbine market, this includes:

Buy or rent Comprehensive hire and purchase options	Cost effective Solutions backed up by proven technology	One-stop shop Taking care of all your heavy lifting requirements, from logistics to site set up and operating	Quality, expertise and service 160 year legacy of engineering excellence
Lifting consultancy Working with you to identify and plan the right solution for your installation	Service support Speed of delivery and installation	Wolff Link Monitoring all crane operation and machinery performance	

Environmental care and protection

WOLFFKRAN is committed to minimising impact on the environment wherever it can:

Lighter, more efficient cranes	→	Less road transport using conventional vehicles
Small assembly footprint	→	No need for additional crane assembly area less impact/need for clearance



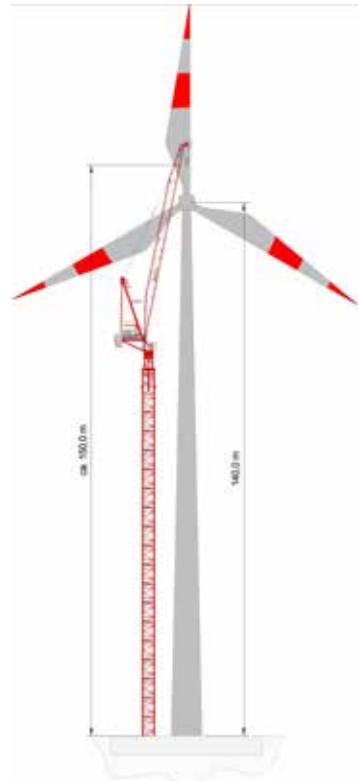
Advanced crane technology to meet every need and circumstance

Direct anchoring – our tower cranes are anchored directly to the foundation of the wind turbine offering improved stability and the perfect space saving solution.

Stand-alone or tied – we offer a comprehensive range of tower cranes, combined with a huge range of modular tower and accessory options, there isn't a wind turbine that WOLFFKRAN can't reach...

Our experts are on-hand to help you throughout the planning process; we make sure you have the right crane for the right job. You can trust us to deliver safety, compliance and excellence in all your wind turbine lifting requirements.

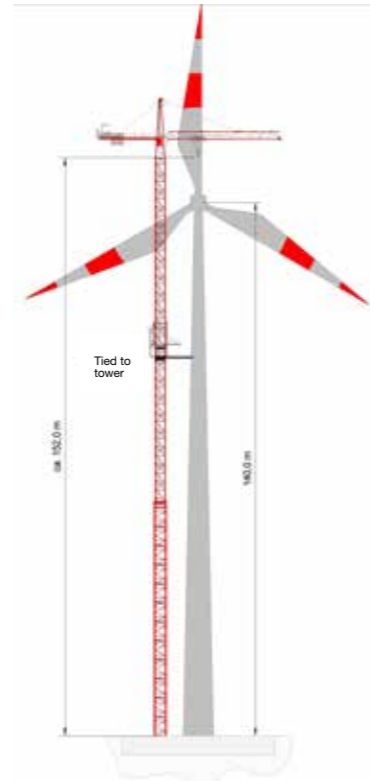
Crane model variants



Luffing Jib

Benefits:

- 140m hub heights are achievable with a standard crane configuration, without the need for ties
- Lifting capacity of 95 tons up to a jib radius of 10m
- In out-of-service mode, the crane slews freely in the wind. A lowering of the jib onto the ground at high wind speeds is not necessary
- Steep luffing angle allows a reduction in overall tower height; more economic with less transport
- Offering exceptional lifting speed, capacity and fine positioning accuracy



Trolley Jib

Benefits:

- Our trolley jib solution offers an economic solution for wind turbine installation, offering power-packed performance and lifting capacity
- Using our modular tower system and transport-friendly assembly
- Featuring the same frequency-controlled WOLFF high-rise hoisting winch as our luffing jibs
- Loads of up to 80 tons are easily achievable with greater capacities also available

Quick and efficient build logistics – reduce time and cost

One onsite crane to complete the installation - keeping it simple!

Initial tower crane assembly uses a small mobile crane and takes place within a day. Thereafter the crane self-climbs up to the final hub height using the WOLFF External Climbing unit, by inserting one tower section after the next.

The final height is reached quickly and efficiently, our unique system pushes the entire slewing part up by 4.5 meters in just one push, setting it apart from the industry standard requiring two or more pushes. This allows our cranes to be built and dismantled quicker and more efficiently.





Wind turbine repair and maintenance solutions

The repair and maintenance of existing wind turbines and replacement of internal parts can create significant lifting and environmental challenges, we are able to offer the most comprehensive and effective solution to meet these challenges.

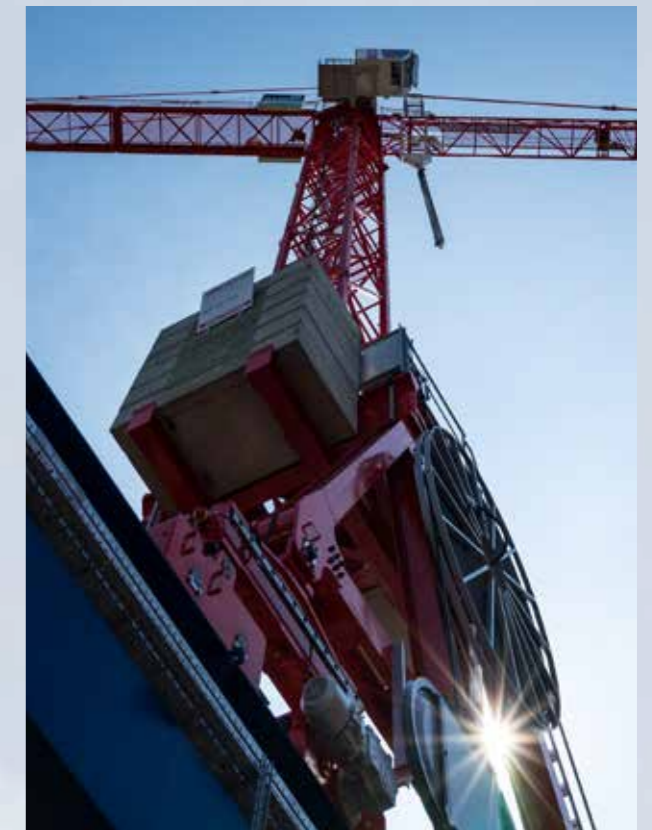
Wolff tower crane solutions offer the ability to reach remote wind turbine locations, combined with our comprehensive lift planning services, we can offer:

- Reuse of foundation anchors for the installation of the maintenance crane
- Speed of delivery and installation
- Significantly less environmental impact when compared to crawler cranes
- Comprehensive range of crane options
- Integrated lifting service/planning

Bespoke lifting solutions and special applications

Using our standard range of tower cranes as a starting point, we are able to offer bespoke lifting solutions to match the precise requirements of our customers.

With the use of specially adapted bases we can offer track based mobile lifting solutions, ideal for manufacturing facilities and storage yard applications. Adaptable to any track width our system offers all the advanced performance, efficiency and reliability of WOLFFKRAN cranes at a cost efficient solution.



As a special application all our latest generation WOLFFKRAN cranes have the option of using an additional fly jib. Our technologically advanced solution provides an additional hook with an 8t capacity at a range of 5m beyond the main hook; ideal for lifting unconventionally large and long loads, offering precise turning and positioning capabilities. Offering you the perfect view and ultimate control for the complex demands of wind turbine storage yards.

Working together as partners we provide the know-how and technical consultancy to offer you the perfect solution to all your heavy lifting requirements. With our flexibility, service and commitment to value you can trust us to deliver safety, compliance and excellence in all your lifting requirements.

Our pedigree sets us apart as 'the leader of the pack'.

WOLFF brings a breath of fresh air into the construction of wind turbines - with tangible benefits such as real cost reductions and greater flexibility, as well as improved planning certainty.

Since 1854 WOLFFKRAN has been an engineering pioneer, delivering the world's first fast-assembly tower crane in 1913. As 'the leader of the pack' for the innovation of tower cranes, we have been providing the best performance to the construction industry ever since. Our vision has always been to provide the greatest machinery available manufactured with pride and passion.

All our cranes are designed and built in Germany using the latest technology.

We pride ourselves as partners working together with you in planning the right crane concept for the installation of your wind turbines projects.

Contact us



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Der leitwolf.
The leader of the pack.

