

EN

43 K  
61 K  
91 K  
125 K

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# The power of intelligence

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The K series with smart assistance systems

**LIEBHERR**

Fast-erecting cranes



# The new K series

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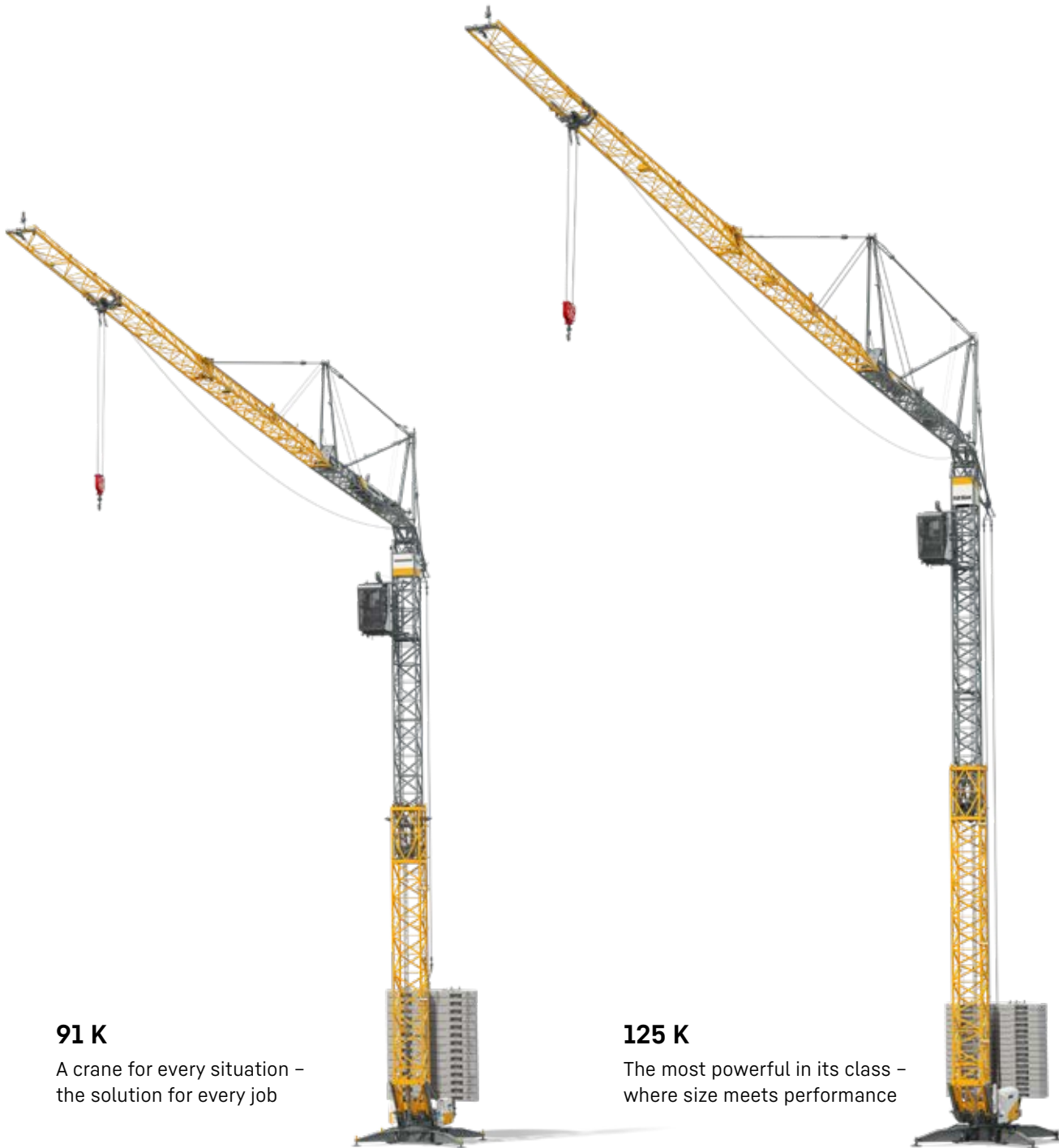
## 43 K

The largest of the small ones –  
compact and powerful



## 61 K

Efficient and economical –  
for maximum performance



**91 K**

A crane for every situation –  
the solution for every job

**125 K**

The most powerful in its class –  
where size meets performance

## **More versatility.**

## **More uses.**

New series for flexible adaptation  
to site conditions

## **Economical working. With complete control.**

Efficiency that lasts

## **Convenient operation for productivity**

Convenient operation for productivity  
and quality of work

## **The intelligent K series**

Innovative control system  
with intuitive operation

## **Easy to transport. Ready on site in no time.**

Versatile transport options  
and smooth assembly

## **Reliability as it should be**

Robust machines that are built to last







### **43 K**

**Max. radius**

35.0 m

**Jib head lifting capacity**

1100 kg

**Max. lifting capacity**

4000 kg

**Hook height**

30.2 m

### **61 K**

**Max. radius**

43.0 m

**Jib head lifting capacity**

1100 kg

**Max. lifting capacity**

4000 kg

**Hook height**

33.4 m

### **91 K**

**Max. radius**

48.0 m

**Jib head lifting capacity**

1380 kg

**Max. lifting capacity**

6000 kg

**Hook height**

40.4 m

### **125 K**

**Max. radius**

55.0 m

**Jib head lifting capacity**

1300 kg

**Max. lifting capacity**

8000 kg

**Hook height**

41.5 m

# More versatility. More uses.

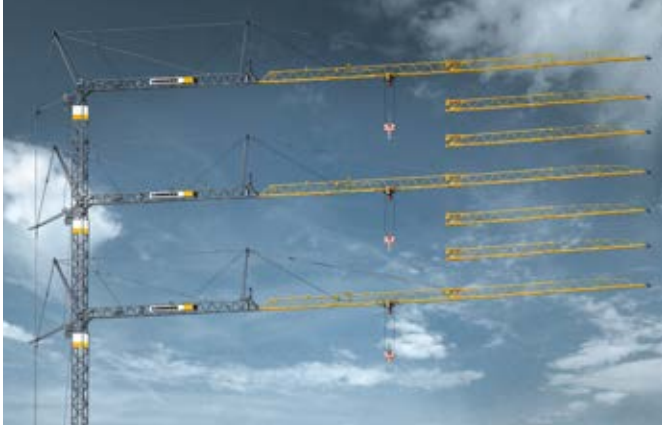
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## **New series for flexible adaptation to site conditions**

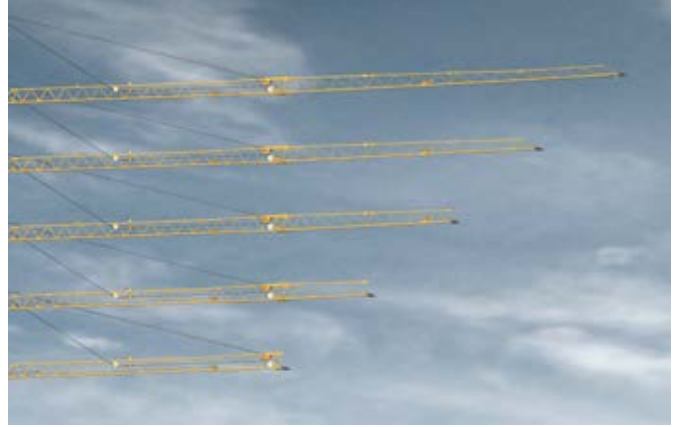
Cranes in the K series offer exceptional flexibility for adapting to different construction site requirements. Variable hook heights and flexible slewing radii enable optimal positioning, even in the tightest of spaces. So you can get your machine to where it's needed, efficiently and with precision. Liebherr ensures that your crane and construction site are a perfect match.





### The right hook heights

Optimal working heights for every construction site: the K series offers flexible hook heights for optimal adaptation to each project. So you can access any working height with ease and always work with precision.



### Reach with capacity

The jibs in the K series offer a range of lengths, giving you the flexibility you need for construction sites of all sizes. Lifting capacity curves are adapted to the jib lengths, making the cranes very versatile construction machines.



### Just the height you need

K series cranes can be assembled to your required height through the simple climbing of tower sections. The hook height needed can be precisely selected using 2.4 m increments. This flexibility assists with precise and safe working, even in complex construction environments.



### Variable slewing radius

Maximum flexibility in limited space: the variable slewing radius offers you optimal freedom of movement in confined spaces or a reduction in ballast and therefore transport costs.

# Economical working. With complete control.

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Lifting  
capacity  
**+20 %**



## More hook power with Load-Plus

Load-Plus allows K series cranes to significantly increase their lifting capacity so that even extra heavy loads can be moved safely without effort. The assistant reduces lifting speed to increase lifting capacity; this extra hook power can prove a real advantage for challenging lifting tasks. And this in turn means that you don't need to spend more money on a larger crane. Load-Plus delivers powerful, yet controlled lifting of heavy loads and offers extra flexibility and strength, which is invaluable when every tonne counts on site.



## Efficiency that lasts

The K series combines excellent economy with advanced, intuitive control system technology for maximum control. Precise and stepless control allows you to create ideal conditions for efficient working with complete clarity. This means you reduce costs and increase efficiency, knowing that with Liebherr you always have a partner who understands your requirements.



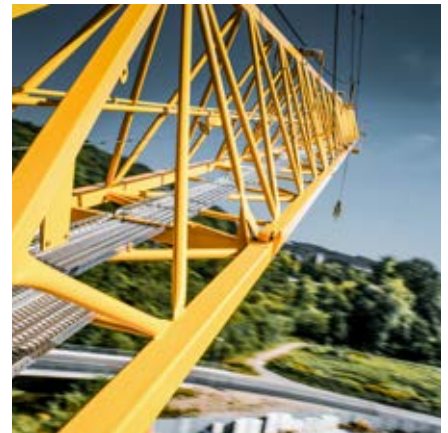
### Micromove

Micromove takes precision control to a whole new level and ensures loads are positioned with millimetre accuracy. Where complex lifting operations and sensitive components are involved, Micromove ensures maximum precision by giving the operator effortless control over the finest of adjustments. Loads can be moved without jolting, which not only increases quality but also improves safety on site. Micromove makes challenging tasks easier and protects both material and machine in the process.



### Speed2Lift

Re-reeving is now a thing of the past. With Speed2Lift, you no longer have to choose between lifting capacity and lifting speed. High-torque motors make sure you always utilise the maximum possible lifting speed. This function makes lifting and lowering loads noticeably faster, which speeds up the entire construction site process. Work cycles are shortened and time and resources saved. Speed2Lift offers particular advantages for intensive projects as work processes are faster and more efficient, which in turn maximises productivity on site.



### Slewing gear modes

The K series offers three different slewing gear modes to match your specific requirements. Depending on the project at hand, you can choose modes designed for high-precision movement processes and fast slewing speeds. This gives you the flexibility to optimise your crane for each specific job and environment. The relevant mode can be selected directly via radio control. Start with a high slewing speed and deliver the load to its destination with precision.



# Intuitive and comfortable



## Modern cabin

The modern cabin used for the K series brings together innovation and comfort. A generous layout and intuitive controls make work easier and create an ergonomic, productive and efficient environment.



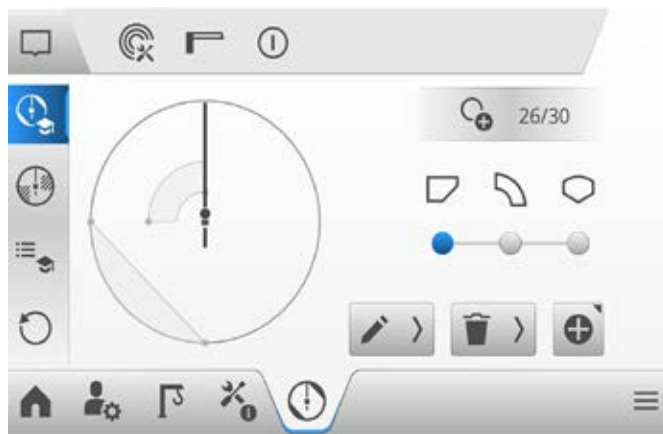
## Comfort and ergonomics

An ergonomic design and surrounding glass panels guarantee comfortable and safe working conditions. The K series cabin offers an optimal field of vision and enables relaxed, controlled operation, especially on construction sites where multiple cranes are involved – the perfect conditions for safety and precision.



## Radio control

The radio control enables flexible and precise operation of the K series wherever you are positioned. This technology offers full control and allows safe, location-independent operation for maximum flexibility.



## A clear overview of information

Slew safety area limitation with graphical teach interface: Areas that need to be avoided when slewing with a load, e.g. rail tracks, preschools and power lines, can be easily and clearly excluded via the display. You can narrow down what needs to be protected with the help of up to 30 teach points.



# Convenient operation for productivity



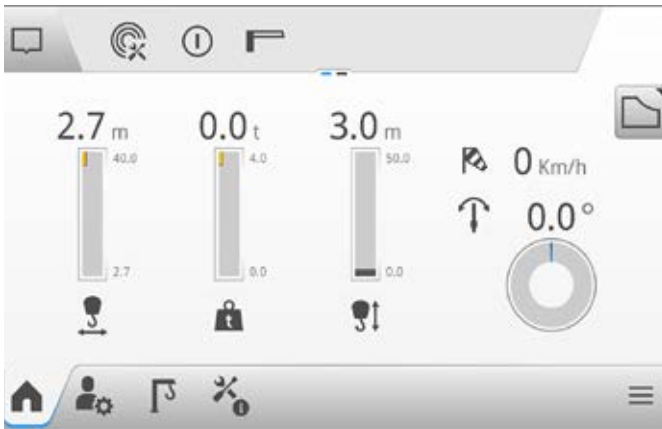
Access to Tower Crane  
Operating System 2:  
modern touch control with  
intuitive display interface.

## More user-friendly in every way

Discover our K cranes with Tower Crane Operating System 2 (TC OS 2) – the latest control system from Liebherr. This state-of-the-art operating system is at the heart of your future crane fleet. Every step has been thought through: a user-friendly interface, intuitive menu navigation, and intelligent assistance systems make crane operation easier than ever before. The system is always a step ahead; it's fully updatable and ready for the digital future. And safety? That's always Liebherr's top priority.

## New user interface

A clean and uncluttered look, developed with intuitiveness in mind, makes an immediate impression. Special day and night modes also ensure readability whatever the job site situation.

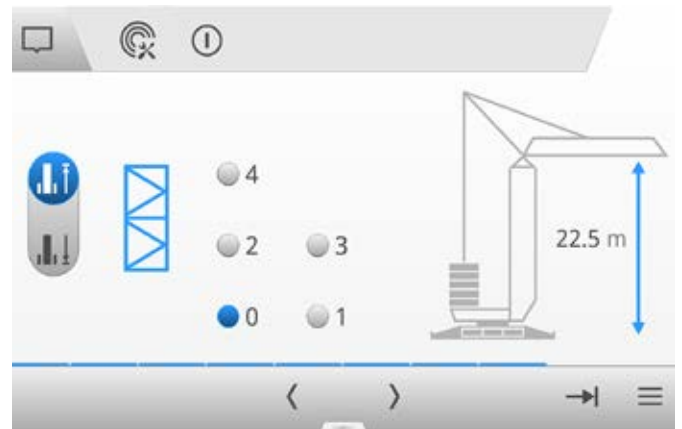


### TC OS 2

This state-of-the-art operating system is at the heart of your future crane fleet. A user-friendly interface, intuitive menu navigation and intelligent assistance systems make crane operation easier and increase safety on site.

## Well-organised menu structure

The redesigned menu structure makes it easy for all users to find their way around. All menus are geared towards users and their handling of the crane. The service menu and crane operator settings are prime examples.



### Wizards

The assembly engineer is actively supported by wizard-guided instructions during crane configuration and scaling. A logic check helps with correct setup.

# The intelligent K series

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## Innovative control system with intuitive operation

Liebherr's new control system is used across the Liebherr Group for a diverse range of construction machines. The universal radio control allows flexible operation of all new K cranes. Its modern display uses plain text and provides a clear overview of all functions.

The high-resolution 7-inch graphic display features touch technology for precise operation. Intuitive wizards provide support during configuration, while functions such as Load-Plus, Micromove and lifting capacity reduction can be individually activated as needed.





### Liebherr Control 5

The new modular control system consists of a CPU (Liebherr Control 5), Liebherr Display 5 and other standardised components. The control system delivers excellent performance and has a robust and durable design.



### Liebherr Display 5

The new 7" graphic display is intuitive, clearly laid out and uses plain text. The touchscreen function allows you to navigate the menu with speed and precision.



### Responsive operation

Precast filigree slabs and fragile construction elements need careful handling. Our well-known Micromove function and selectable slewing gear modes ensure maximum precision for every construction project. Familiar radio control operation has also been optimised for the Tower Crane OS 2. You benefit from a standardised radio control for L and K cranes with clear display screens and a new user interface.



### Clear user interface

The radio control's user interface has a clear and intuitive design for easy use. An overview of key parameters allows the crane to be controlled effortlessly – ideal for efficient processes.

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# Let's build.

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Safer. Smarter. Better.



Sway Control



Vertical Line Finder



Guided Hook



Positioning Pilot





Drive the future of construction today

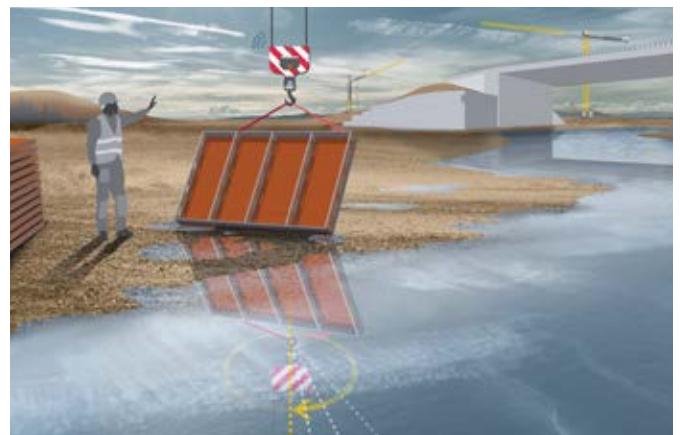
# With assistance systems from Liebherr

We are setting new standards in the tower crane world with our intelligent assistance systems. These patented innovations independently carry out semi-automated, simultaneous movements and significantly simplify work for the crane operator. This not only makes operation more precise and efficient, but also improves the overall quality of work on site.



## Sway Control Plus

The intelligent assistant supports sway-free operation by actively correcting sway, including that caused by wind and external factors. A precise IMU sensor system on the hook block enables it to detect and compensate for inclination and angular velocity. Sway Control Plus increases efficiency and safety, especially in the case of less experienced crane operators, by compensating for any lack of experience.



## Vertical Line Finder

Vertical Line Finder maximises safety and convenience when lifting loads. It prevents load sway caused by diagonal pull through automatically and optimally positioning the hook above the load's centre of gravity. The system aligns the hook vertically, prevents collisions and protects delicate components. As the assistant takes over the exact positioning process, it also takes the strain off the crane operator, which makes precision work much easier.



## Guided Hook

Guided Hook allows the load hook to be moved intuitively by hand. By tilting the hook block slightly, the operator can control the direction of travel with precision. This reduces the amount of communication needed between the crane operator and slinger as the hook is guided directly to the load. The result: fewer errors, more safety and faster working on site.



## Positioning Pilot

Positioning Pilot optimises construction site logistics with semi-automated travel movements. Stored points are approached with precision and routes travelled without sway. The IMU sensor system on the hook block assures a high degree of accuracy and safety. Up to three hook positions and two routes (moving forwards and back again, including stops) make monotonous tasks like concreting and unloading easier. The crane operator's workload is reduced, workflow is accelerated and safety standards are improved thanks to predefined movement routes.

# Easy to transport

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## Versatile transport options

Regardless whether space is limited or there is plenty of room on site, the K series is ready for transport in no time at all and easy to assemble, even in hard-to-access locations. Their flexible transport concept and well thought-out design mean that these cranes are always ready for use with minimal setup time. For maximum efficiency and time savings from the word go.



## 25 km/h axle system

The 25 km/h axle from Liebherr offers an efficient solution for transport over short distances as well as on challenging terrain. The specially developed axle limits speed to 25 km/h, creating the ideal balance between transportability and safety. This option is particularly useful for construction sites where ease of assembly and manoeuvrability are required.



## 80 km/h axle system

Liebherr's 80 km/h axles offer an efficient solution for transporting cranes over long distances, especially when working on short-term or changing construction sites. Combining a robust design with outstanding mobility, they help deliver cranes quickly and safely. Logistics are kept to a minimum, making them an ideal choice for flexible, cost-effective construction projects that benefit from streamlined logistics.



## Flexible transport system

Lifting capacity, hook height and jib length are essential factors for construction site success. But it is also crucial that your crane gets to where it's needed without difficulty. Which is why the cranes in the K series are fully optimised for transport efficiency – from safe arrival on site to easy manoeuvring once there. They impress with their flexibility and reliability however long the distance or how tight and uneven the site, so that you can work efficiently wherever you are.

# Ready on site in no time

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## Smooth assembly

Simple setup kinematics and rope support make our cranes ideal for mastering the challenges of modern construction sites. Even where space is limited, aerial assembly makes it possible to overcome obstacles of up to 25 metres. Thanks to their clever design, the required assembly area is kept to a minimum, and even extreme weather conditions such as low temperatures don't impact assembly.



## Short overhang

The compact overhang of the K series saves valuable space and enables easy setup, even on tight construction sites. This well thought-out design offers you plenty of flexibility for a wide range of job site situations. The K series makes efficient and powerful work possible, even in confined working environments.

## CC-Ballast

The interaction between the hoist and assembly winches ensures fast and convenient self-ballasting. Thanks to the generous 5 metre ballasting radius and the ballast blocks that can be bolted in pairs, you have more flexibility than ever before. Two ballast blocks can be attached at the same time and the optional semi-automated ballasting tongs make one-person assembly a hassle-free option.



### Attachment points for mobile crane

In cases where access is difficult, the attachment points allow the crane to be lifted upright, directly onto the construction site.



### Increasing reach

The rope kinematics of the K cranes make extending the jib straightforward without any great effort being needed. This technology allows the jib to be adapted to different requirements.



### Jib guying

Jib guying keeps the crane stable even when working with heavy loads. This function allows loads to be moved safely and precisely and also guarantees maximum stability, even in challenging situations.



# Reliability as it should be

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## We provide support at all levels

The K series stands for uncompromising robustness and durability. High-quality materials and careful corrosion protection make the cranes particularly resilient. No matter how harsh the conditions, you can be sure that your investment pays off and continues to deliver Liebherr quality for years to come.

## Service

Our service team offers comprehensive expertise to make sure your K cranes are always ready for action. From inspections and maintenance to quick repairs, our qualified technicians provide reliable on-site support to minimise downtimes and ensure the efficiency of your machines.

You therefore benefit from comprehensive service solutions from a single source, tailored to meet your requirements.

## Spare parts

Our spare parts service offers fast access to high-quality original parts that maximise the service life of your machines. An extensive warehouse and efficient delivery system assure fast availability on site so that your cranes remain ready for action with operational safety guaranteed.

And thanks to our service network and the quality of our spare parts, the reliable performance of your K series is maintained, even with intensive use.



### LiDIAG

LiDIAG, Liebherr's digital diagnostic tool, offers real-time monitoring and precise analysis of crane functions. It supports troubleshooting, minimises downtimes and optimises use on challenging construction sites. LiDIAG allows you to keep an eye on the condition and performance of your cranes at all times, which results in maximum efficiency and safety.



### LiDAT

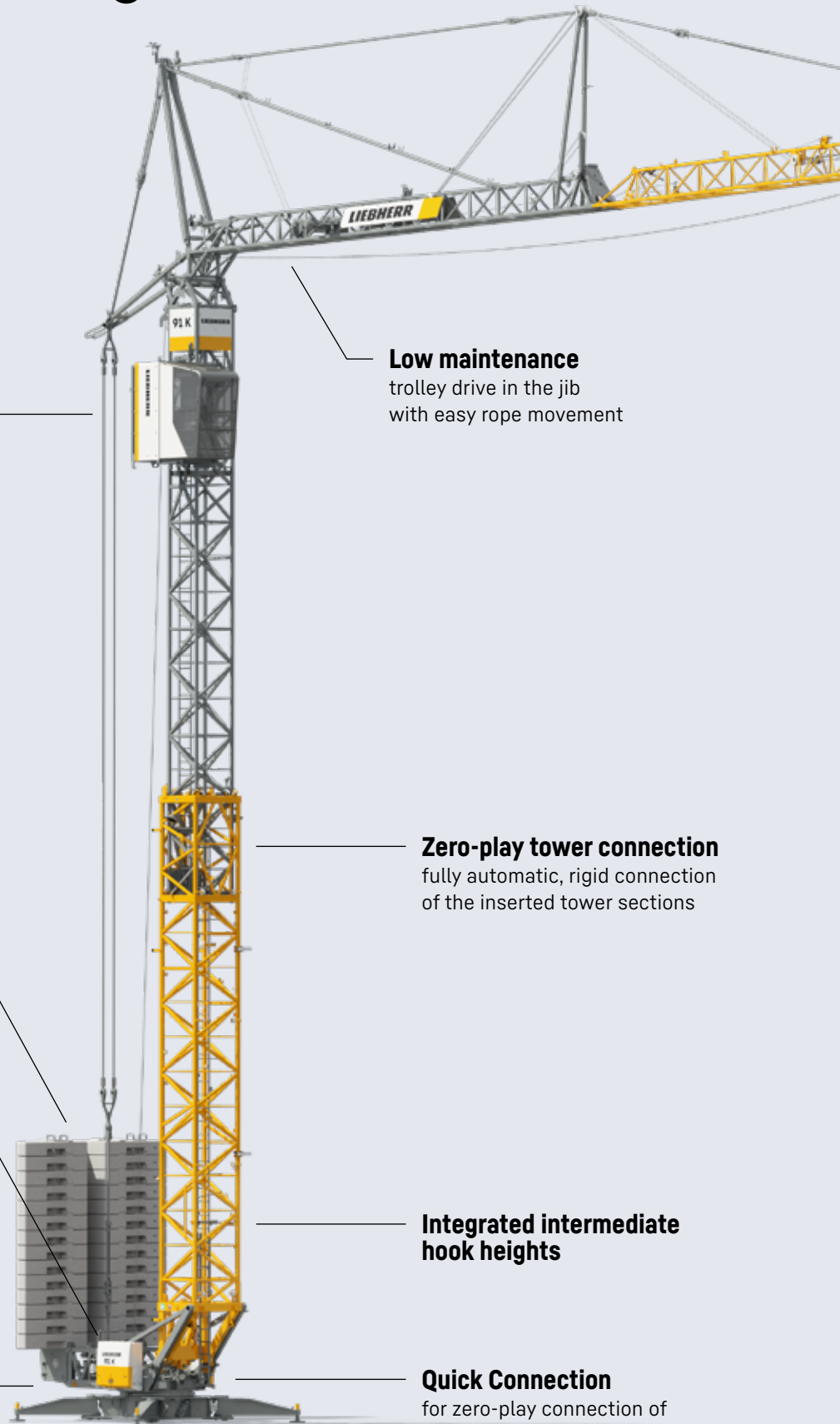
The LiDAT data transfer and positioning system enables the fleet and vehicle park management of Liebherr machines belonging to the duty cycle crawler crane, crawler crane, tower crane and maritime crane product areas via a standardised platform. The ability to integrate machines from other manufacturers means that extensive machine fleets can be managed.



### MyLiebherr

MyLiebherr gives you centralised access to all machine-relevant information, services and support. The platform supports you in making the best possible use of your K cranes and helps you optimise work processes with tailored solutions.

# Strong advantages



## External cabin\*

optional use; can be installed without additional equipment

## Low maintenance

trolley drive in the jib with easy rope movement

## Ballast with centring device

## Intelligent control system

PLC system, graphic display, remote diagnostics, etc.

## Zero-play tower connection

fully automatic, rigid connection of the inserted tower sections

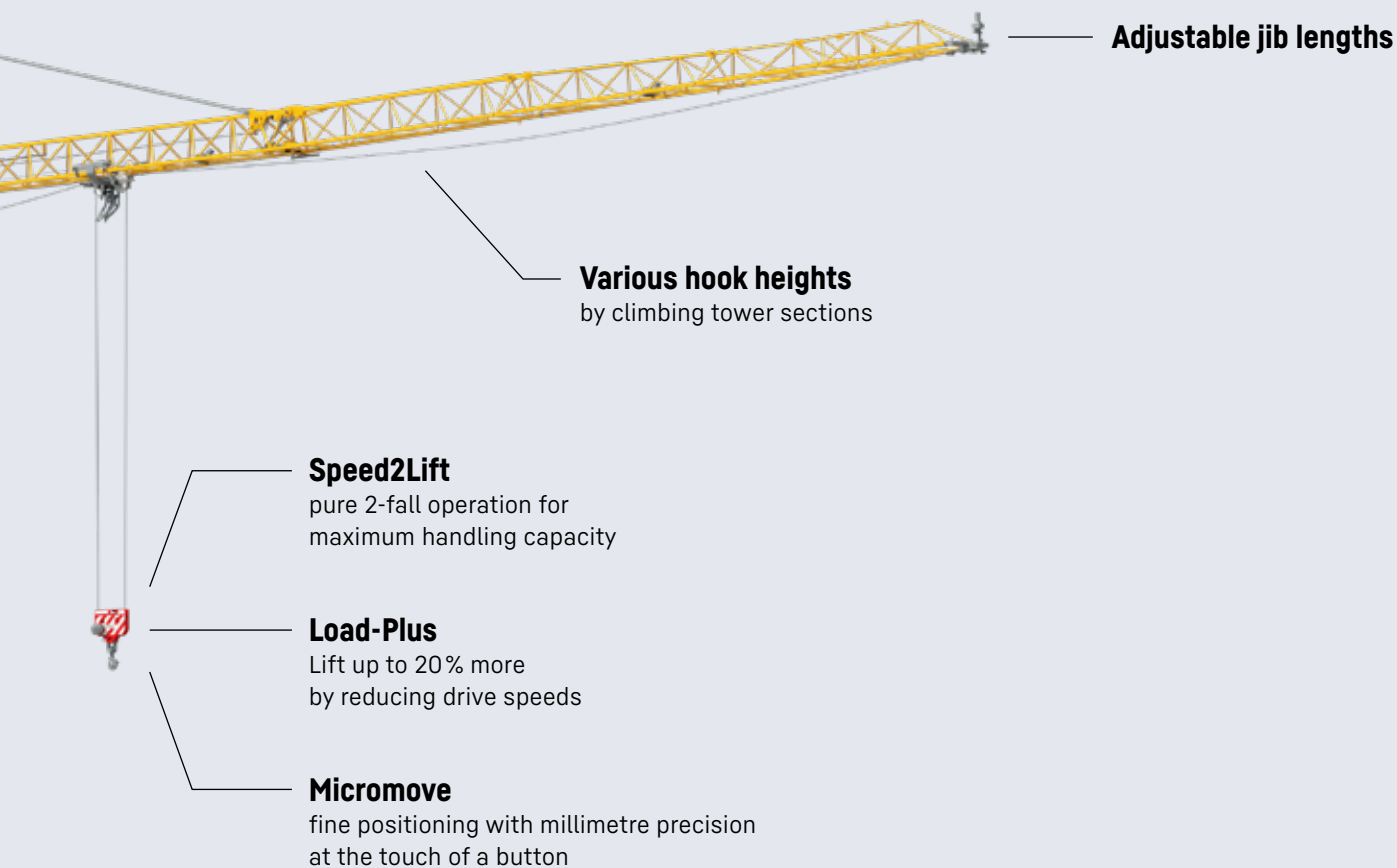
## Integrated intermediate hook heights

## Variable slewing radii\*

## Quick Connection

for zero-play connection of the tower to the slewing platform





## Modular design

The modular design of the K series offers distinct advantages for construction sites of all kinds. The use of interchangeable modules means that the machines are quick to assemble and disassemble. This significantly reduces setup times and simplifies transport. The flexibility offered by this design increases efficiency as the cranes can be easily adapted to changing requirements. As a result, users benefit from increased productivity gains and minimised downtimes, which improves the cost-effectiveness of the entire project.

\*See page 46 for details.







**LIEBHERR**  
**43 K**

# 43 K

**The largest of the small ones – compact and powerful:  
The 43 K delivers two more metres of radius and four  
more metres of hook height. The maximum jib head lifting  
capacity has also been increased by 200 kilograms.**

The crane is being launched with the new Liebherr Control 5 control system as well as Speed2Lift and Micromove. The new assistance systems can be easily integrated on request. Electronic slew safety area limitation is also available as an option.

			
4000 - 1100 kg	35 m	30.2 m	43.1 m



43 K

# Product-specific features

With eight flexible hook heights of up to 30.2 m, this crane optimally adapts to any challenge. The powerful FC hoist winch guarantees an impressive handling capacity while compact transport dimensions ensure easy manoeuvrability. Thanks to the high aerial jib assembly, only minimal space is required for setup. Stepless slewing, supported by load sway damping and wind force control, enables precise and safe working, even in the most challenging conditions. You can count on maximum efficiency and flexibility for your projects.

## Steel basic ballast

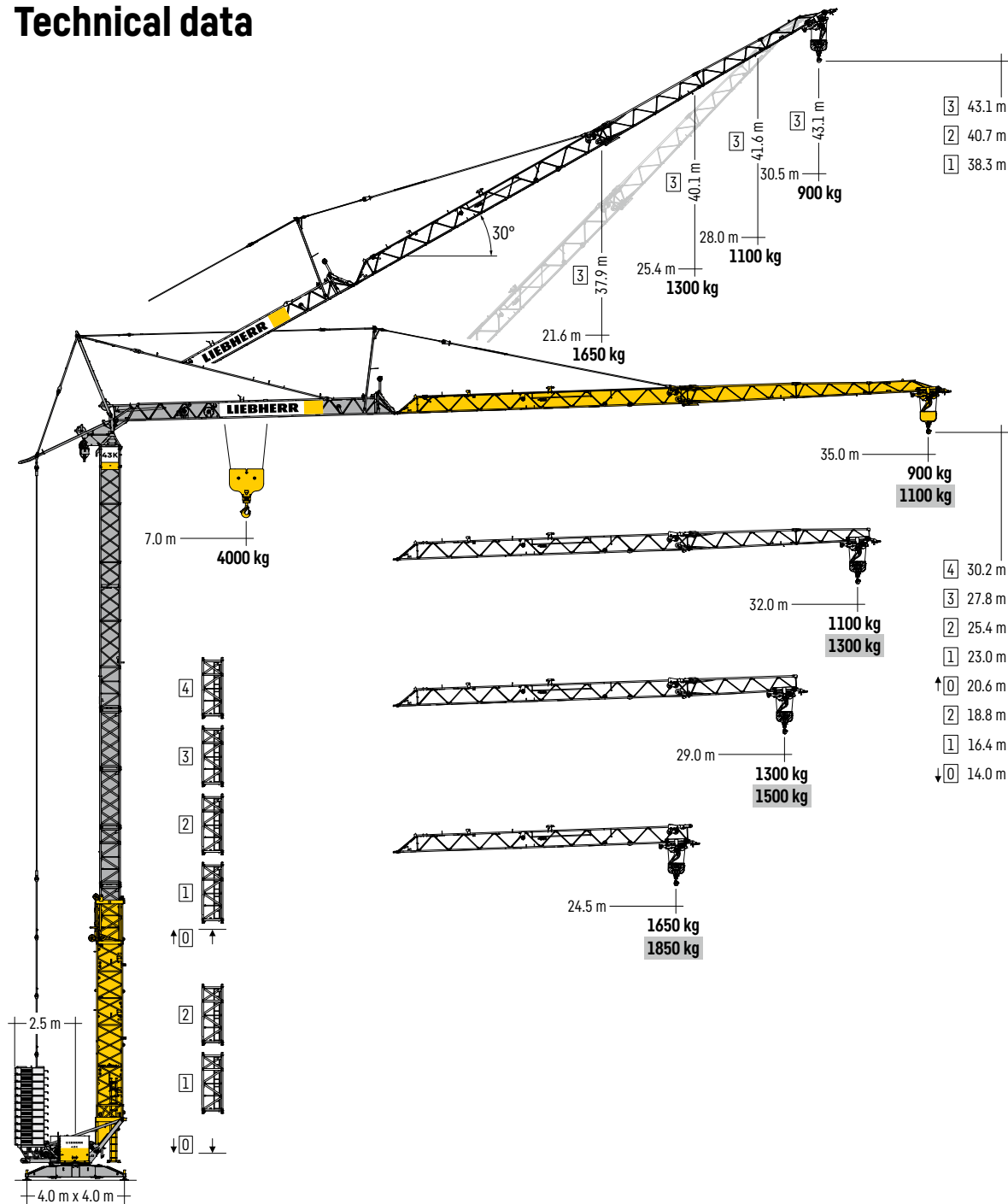
This is directly integrated into the structure and forms the basis for additional ballasting.



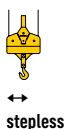
## Optionally available

Electronic slew safety area limitation and active assistance systems.

# Technical data



3 ↑ 12.2 kW FC



	kg	m/min	Speed
①	4000	0 ↔ 15.1	
	700	0 ↔ 57.3	



0 ↔ 0.8 rpm  
3.0 kW FC



0 ↔ 54 m/min  
3.0 kW FC









**LIEBHERR**  
**61K**



# 61 K

**Efficient and economical – for maximum performance:**  
The 61 K offers three metres more radius, a higher maximum hook height of 2.4 metres and up to 200 kilograms more jib head lifting capacity.

Another new feature is a luffed position of up to 30°. The 61 K is optionally available with the new intelligent assistance systems. Like its little brother, the 61 K is also equipped with Speed2Lift, the new Liebherr Control 5 control system and a radio control with display. Electronic slew safety area limitation is available as an option.

			
4000 - 1100 kg	43 m	33.4 m	47.1 m

61 K

# Product-specific features

The 61 K offers diverse options for flexible and adaptable construction site use. Its clever design and outstanding reliability mean you can rely on strong performance. Thanks to the 61 K's practical jib extension, it is possible to reach radii of up to 43.0 m quickly and effortlessly. Experience the perfect combination of efficiency and performance – ideal for any challenge.

## The drives

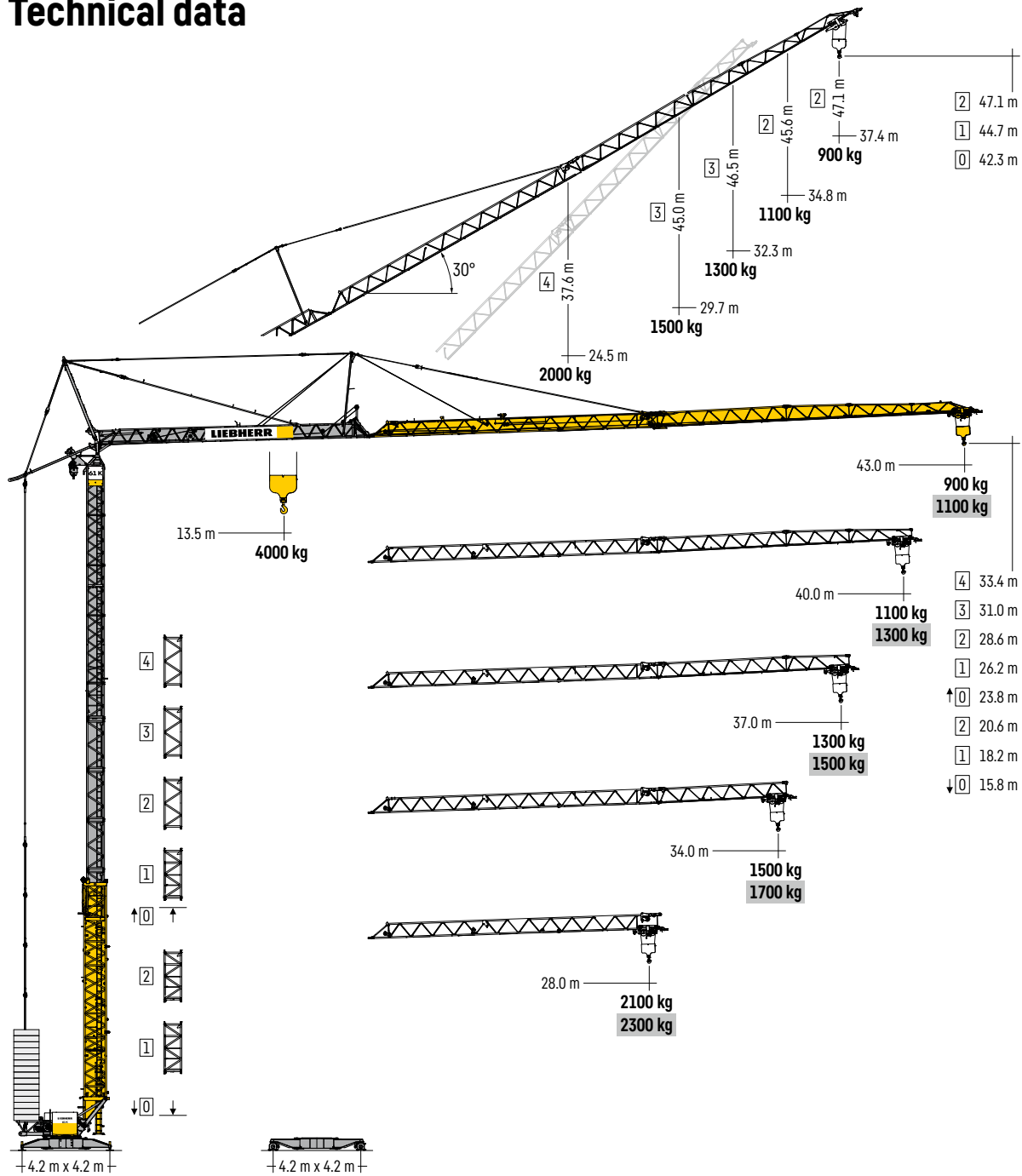
The drive components are stepless thanks to frequency converters, have an intelligent ventilation system and require little maintenance.



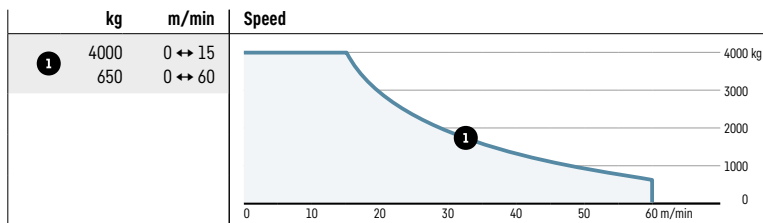
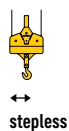
## Reusable accessories

Many of the 53 K's components, e.g. ballast blocks, tower sections and transport adapters, can also be reused with the 61 K.

# Technical data



3 ↓ 12.2 kW FC



0 ↔ 0.8 rpm  
3.0 kW FC



0 ↔ 54 m/min  
3.0 kW FC









# 91 K

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**A crane for every situation – the solution for every job: Improved lifting capacities result in increased crane performance. The 91 K is optionally available with the new assistance systems.**

The new Liebherr Control 5 control system is also installed in the 91 K. Established functions such as Speed2Lift, Load-Plus and Micromove continue to be part of its extensive features. The name of the 91 K is based on load capacities according to Load-Plus.

			
6000 – 1380 kg	48 m	40.4 m	57.2 m

91 K

# Product-specific features

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The 91 K is versatile in its use, from multi-occupancy buildings to industrial projects. With 11 precisely graduated hook heights between 17.4 m and 40.4 m, a 30° luffed jib position and a 45° jib obstruction avoidance position, the 91 K is perfectly equipped for any construction site. Even tasks under high-voltage power lines or in halls are no problem at all thanks to the telescopic tower. You can rely on the 91 K for maximum flexibility and performance on each and every project.

## Plenty of possibilities

Lifting capacity curves are adapted to the jib lengths, making the crane a very versatile construction machine.

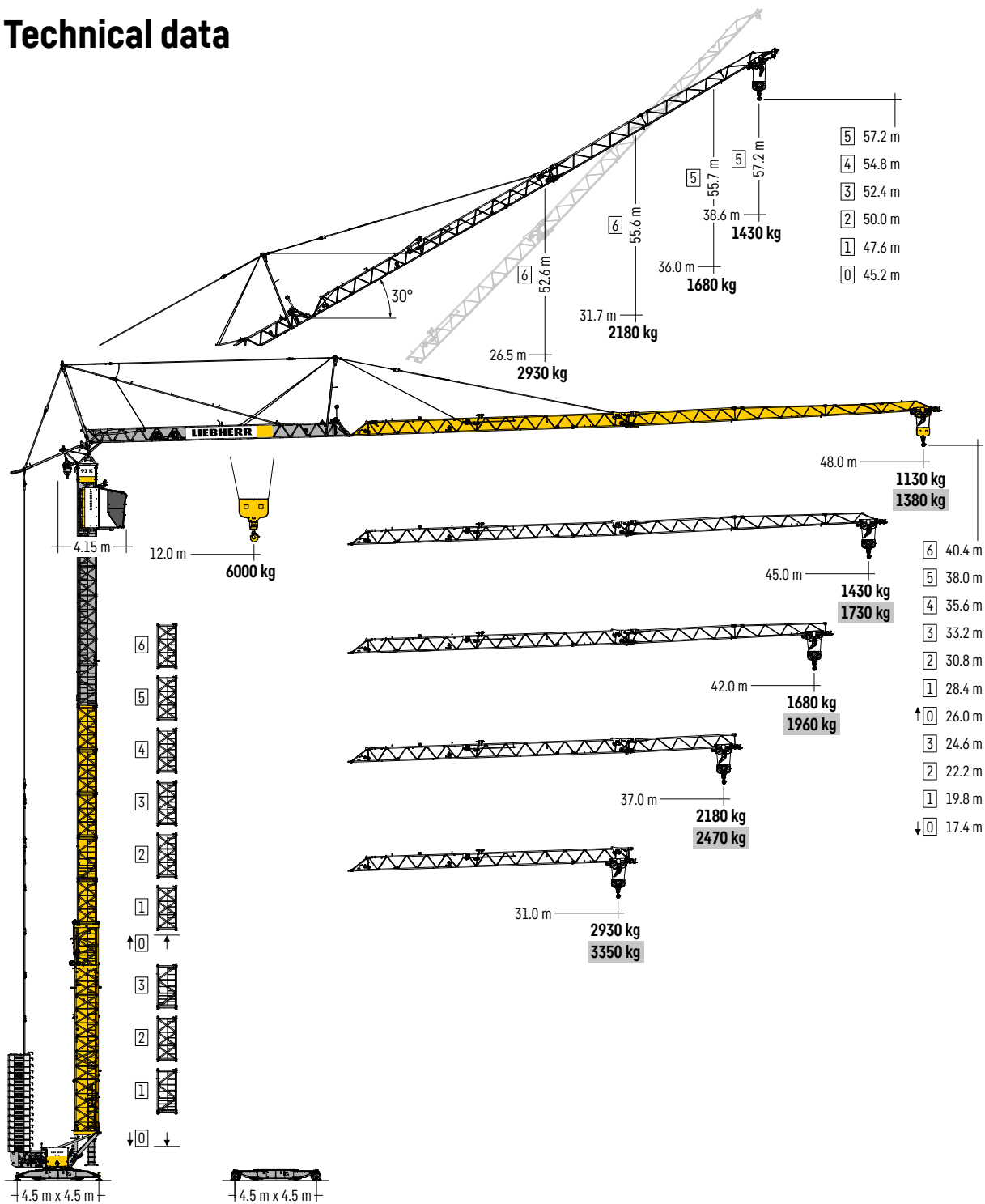


## Optional use

The built-in control stand and display guarantee the best possible overview of the working area.

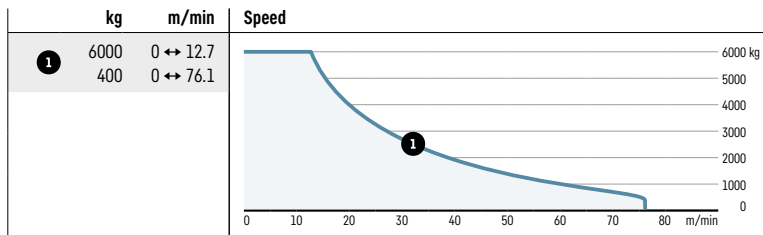


# Technical data



**15 kW FC**

stepless



0 ↔ 0.8 rpm  
5.0 kW FC



0 ↔ 60 m/min  
3.0 kW FC



LIEBHERR

125 K







97



# 125 K

**The most powerful in its class – where size meets performance: The 125 K is the most powerful of the K cranes. The model impresses with its lifting capacity and versatility, making it ideal for challenging tasks.**

Established features such as easy assembly and transport, as well as innovative control technologies, make the 125 K the perfect choice for construction sites with high reach and efficiency requirements.

			
8000 – 1300 kg	55 m	41.5 m	65.5 m



125 K

# Product-specific features

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A modern crane with a long history – the K series has been present on construction sites around the world for years. The 125 K now adds even more power to the series. Thanks to its modern control system, compact footprint and outstanding performance values, the 125 K sets the standard for fast-erecting cranes. You benefit from the performance of a top-slewing crane along with the mobility and flexibility of a fast-erecting crane. Opt for the 125 K and experience efficiency at its highest level.

## Safety at great heights

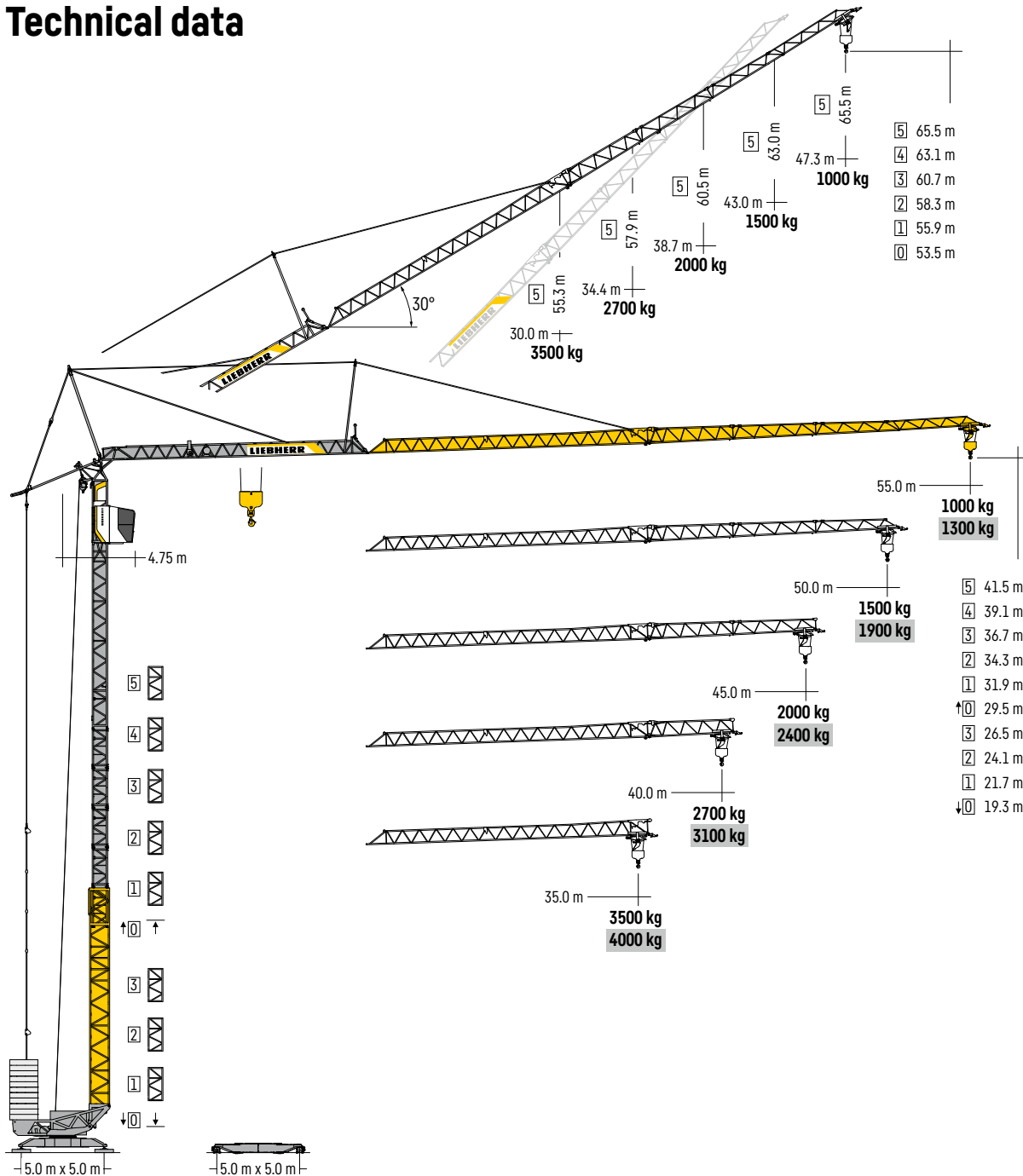
Climbing into the cabin is easy and safe thanks to an internal access ladder and a series-standard passage opening.



## Arena di Verona

The 125 K played a key role in the construction and dismantling of complex stage sets during the opera festival.

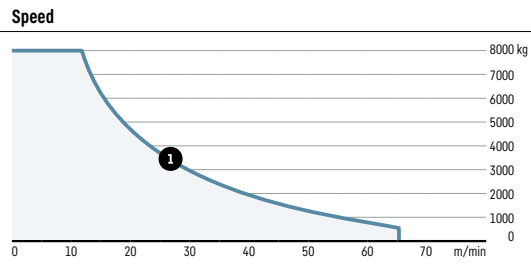
# Technical data



18 kW FC



	kg	m/min
1	8000	0 ↔ 11.8
	550	0 ↔ 66.3



0 ↔ 0.8 rpm  
7.5 kW FC



0 ↔ 71 m/min  
3.7 kW FC



# One series. Maximum possibilities.

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Since their market launch, Liebherr's K cranes have established themselves as a versatile solution for the most diverse lifting tasks – from detached family houses to large-scale industrial projects. Equipped with modern drives and intelligent assistance systems, the cranes in

the K series are based on a proven concept with quick assembly. Flexible adjustments to hook heights and jib lengths, along with optimised external dimensions, mean they can even be used where space is very limited. The advanced assistance systems, which are also used





for top-slewing cranes, maximise productivity and safety. In times of increasing complexity, these systems provide crane operators with the best possible support, increase handling performance and ensure excellent reliability. A central computer unit continuously monitors sensor

values to guarantee the crane's safe operation. You can count on the K series from Liebherr for outstanding efficiency and safety on any construction site!

# The K series in comparison

	<b>43 K</b>	<b>61 K</b>	<b>91 K</b>
<b>Key data</b>			
Max. radius [m]	35	43	48
Lifting capacity at max. radius [kg]	1100	1100	1380
Max. lifting capacity [kg]	4000	4000	6000
Number of radii	4	5	5
Max. hook height 0°	30.2	33.4	40.4
Max. hook height 30°	43.1	47.1	57.2
Slewing radius [m]	2.5	2.5/3.2	2.75/3.5
Support base [m]	4.0 x 4.0	4.2 x 4.2	4.5 x 4.5
Jib obstruction avoidance position	45°	45°	45°
Fall	2	2	2
<b>Drives</b>			
Hoist winch [kW]	12.2	12.2	15
Slewing gear [kW]	3	3	5
Trolley travel gear [kW]	3	3	3
Connected load [kVA]	19	19	22
<b>Control system</b>			
Type of control system	Control 5	Control 5	Control 5
<b>Assistance systems</b>			
Sway Control / Sway Control Plus	+	+	+
Vertical Line Finder	+	+	+
Guided Hook	+	+	+
Positioning Pilot	+	+	+
Micromove	●	●	●
Slew safety area limitation (electronic)	+	+	+
<b>Equipment</b>			
Current collector	●	●	●
Radio control with display	●	●	●
Rail-mounted version	–	+	+
Cabin	–	–	+
Site lighting on jib	+	+	+
Site lighting on tower	+	+	+
Aircraft warning system	+	+	+

# 125 K

55
1300
8000
5
41.5
65.5
3.2/4.0
5.0 x 5.0
45°
2

18
7.5
3.7
26

AC 500S

-
-
-
-
●
+

●
●
+
+
+
-
+

- standard equipment
- + optional equipment
- unavailable equipment

## Equipment options



Rail travel gear



Special paint finish & company logo



Centralised lubrication system



Anemometer & aircraft warning system





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