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# Tower Cranes

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Liebherr is the world's largest supplier of tower cranes. Our range includes machines for all systems and size classes. We have the perfect solution for every construction task.

[www.liebherr.com](http://www.liebherr.com)

## LIEBHERR

**Tower Cranes and  
Mobile Construction Cranes**



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# 01

# Liebherr Group

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# 49,611

employees

# > 140

companies



# > 40

manufacturing companies

# 11,639

turnover in € m



# 742

investments in € m

# 13

product segments



# Liebherr around the world

# Liebherr Group

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**Founded in 1949, the group today comprises over 140 companies on all continents and employs 49,611 people.**

The Liebherr Group is a technology company with a widely diversified product range. The company is one of the largest manufacturers of construction machines in the world, but also supplies technically advanced, user-focused products and services in many other sectors. The group's parent company is Liebherr-International AG, based in Bulle, Switzerland. All its shareholders are members of the Liebherr family. This family business prioritises long-term success, sustainable development, stability and reliability.

Liebherr develops and manufactures an enormous variety of fascinating products, which have made a name for themselves on the world markets due to their high precision, excellent implementation and outstanding durability. With its innovations and visionary technologies, the company strives to inspire its customers. In the process, the limits of what was previously possible are constantly being redefined,

Main locations of the Liebherr companies



enabling Liebherr to frequent contribute to technological advancements. Working together on fascinating tasks creates a strong bond that employees can rely on – across national borders and continents.

# 02

# Liebherr Tower Cranes

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8 > 86,000

tower cranes produced since 1949



8 > 70

tower crane series

years of experience

3



2,620

employees

production plants worldwide

# Tower cranes and mobile construction cranes

# Liebherr Tower Cranes

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Liebherr develops and manufactures tower cranes and mobile construction cranes for all kinds construction sites. Whether a small house for the family or gigantic skyscrapers: construction sites have always exerted a fascination on people. Their whole existence is about making something for the future – and our cranes play a role in making these dreams come true.

Since the invention of the first mobile tower crane in 1949, we have been driven by the desire to make hoisting loads easier, faster and more cost-effective. Which is why we supply a wide range of high-quality tower cranes and mobile construction cranes featuring all systems and size classes. And to ensure that we are as close to our customers as possible, in addition to an extensive service network, we have three production plants in Germany, Spain, India.

In addition to its products, the group's portfolio is rounded off by the following services: Tower Crane Solutions, the Tower Crane Centre and Tower Crane Customer Service.



# 03

# Product range

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## Fast-erecting cranes

# The L1 series

The hydraulic fast-erecting cranes in the L1 series deliver the solution for two of the most important challenges on a site: the power to move heavy loads without taking up too much space. In short: Compact power.

Their compact design makes them ideal for constricted sites, such as housebuilding and roofing work where limited area is available. The cranes can be brought to the site fully operational in just one transport unit. The cranes can be made ready for use quickly thanks to their easy-assembly hydraulics.

The company's own control system supports the crane driver in his work. The Micromove fine positioning mode, oscillation damping and operating-range limiting system deliver enhanced safety – for both man and machine.

## Technical data

	 kg	 kg	 m →	 m ↑	 m ↑
<b>L1-24</b>	2,500 2,500	950 800	25.0 27.0	19.1 19.2	25.7 26.5
<b>L1-32</b>	4,000	1,050	30.0	21.3	29.4

### Fast-erecting cranes in a mobile version – HM series

<b>13 HM.1</b>	1,500	500	22.0	16.0	21.3
<b>22 HM.1</b>	2,000	700	27.0	19.0	33.4



## Fast-erecting cranes

# The K series

The K series is notable for its combination of versatility and flexibility. K cranes adjust to the site situation with variable hook heights, lifting capacities and slewing radii. This is made possible by the telescoping lattice tower with rapid climbing equipment, the adjustable jib and reducible slewing platform. The crane driver can see everything all the time – whether he is using the practical remote control on the ground or in the modular crane cabin.

Liebherr's own powerful drive units and intelligent control systems enable a high handling capacity and a high level of safety on site.

For transporting the cranes to the site, we can provide a solution which is perfectly tailored to the crane in the form of our modular LiTRAX transport axles, low-speed and high-speed axles.

## Technical data

	 kg	 kg	 m →	 m ↑	 m ↑
<b>34 K</b>	4,000	1,100	33.0	27.0	39.0
<b>42 K.1</b>	4,000	1,200	36.0	28.0	41.5
<b>53 K</b>	4,200	1,100	40.0	31.0	43.1
<b>65 K.1</b>	4,500	1,350	43.0	34.6	49.3
<b>81 K.1</b>	6,000	1,350	48.0	40.4	57.4
<b>125 K</b>	8,000	1,300	55.0	41.5	65.5



# Mobile construction cranes

## The MK series

The mobile construction cranes in the MK series combine the mobility of a classic mobile crane with the functional benefits of a tower crane, such as working on projecting edges.

The enormously manoeuvrable taxi cranes in the MK series are designed for one-man operation. The crane driver can drive, erect and operate the MK crane using the remote control or in an infinitely height-adjustable elevating operator's cab. The vertical tower enables the crane to get very close to the building so that the entire jib length can be used at all times. With their variable steering concept and active rear wheel steering, mobile construction cranes can be moved into almost any gap.

In addition to the MK 73-3.1 and the MK 88-4.1, the MK series also includes the MK 140, which is the only mobile construction crane in the world with the VarioJib option. In addition to the classic trolley mode, it can operate in luffing mode and thus reach hook heights of up to 94.4 m.

### Technical data

	 kg	 kg	 m →	 m ↑	 m ↑
<b>MK 73-3.1</b>	6,000	2,000 <sup>1,2</sup>	38.5	26.5	51.0
<b>MK 88-4.1</b>	8,000	2,200	45.0	30.2	59.1
<b>MK 140</b>					
<b>Trolley mode</b>	8,000	1,900 <sup>1,2</sup>	58.5	39.9	75.5
<b>Luffing mode</b>	-	1,700 <sup>1</sup>	65.0	-	94.4

<sup>1</sup> with additional ballast

<sup>2</sup> with Plus Package



## Top-slewing cranes

# The EC-B series

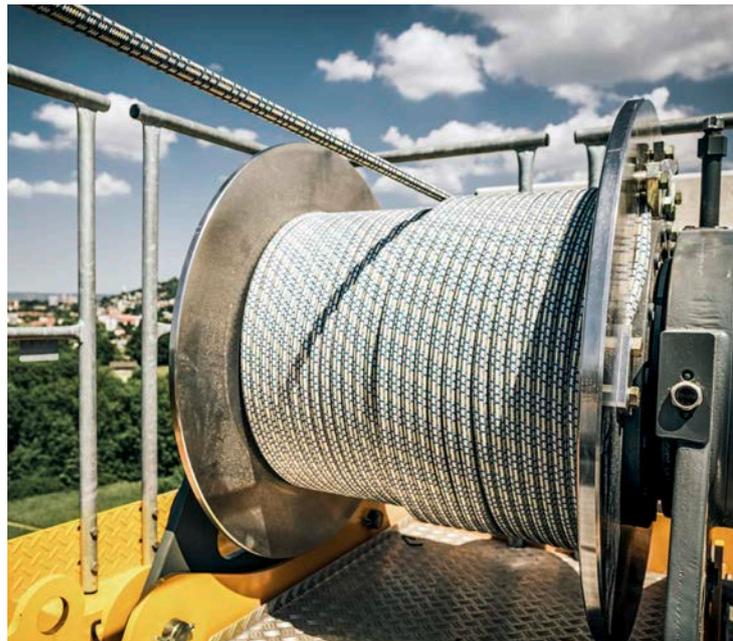
The EC-B series was specially developed to meet the requirements of modern construction sites. Transport, erection, handling capacity and safety – the intelligent overall concept delivers progressive solutions in every category.

Compact transport units and efficient erection solutions such as the sophisticated compact head, LiConnect quick-release connections for the jib and counter-jib and safe electrical plug connectors ensure a high level of cost-effectiveness for transport and assembly.

Various climbing and guying systems mean that there is almost no limit to the possible uses. The intelligent assistance systems of the Tower Crane Litronic ensure efficient, safe crane control. This enables these cranes to be adapted to the personal requirements of the crane driver and site quickly.

## Technical data

	 kg	 kg	 m →
<b>85 EC-B 5 FR.litronic</b>	5,000	1,300	50.0
<b>125 EC-B 6</b>	6,000	1,600	58.0
<b>150 EC-B 8 Litronic</b>	8,000	1,400	62.5
<b>172 EC-B 8 Litronic</b>	8,000	1,800	62.5
<b>205 EC-B 10</b>	10,000	2,100	65.0
<b>220 EC-B 10</b>	10,000	2,250	68.0
<b>220 EC-B 12</b>	12,000	2,050	68.0
<b>270 EC-B 12</b>	12,000	2,150	73.0
<b>340 EC-B 12</b>	12,000	2,400	78.0
<b>340 EC-B 16</b>	16,000	2,100	78.0
<b>470 EC-B 16</b>	16,000	2,400	83.0
<b>470 EC-B 20</b>	20,000	2,200	83.0



## Top-slewing cranes

# Fibre version

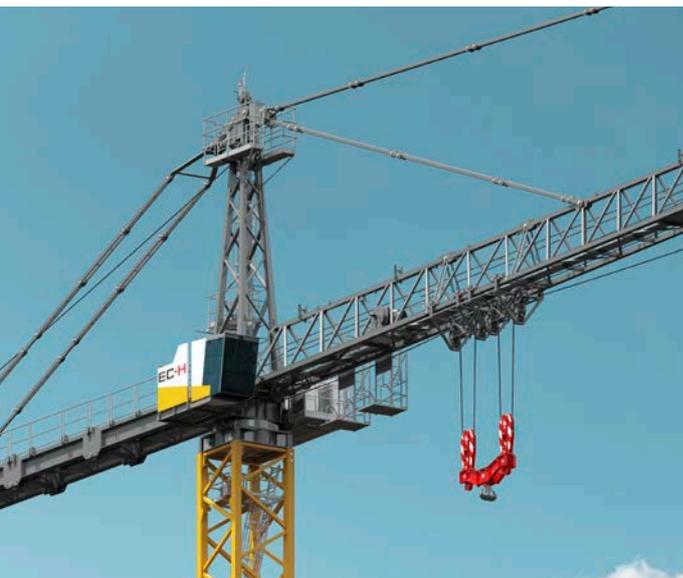
Liebherr Tower Cranes has invested a great deal of time and effort into research and development work to create a reliable, safe alternative to steel ropes – fibre cranes with high-tensile fibre ropes.

The fibre rope weighs around one-fifth of a conventional steel rope. When combined with the lightweight hook block on the fibre cranes, this creates potential for a significant increase in capacity. The fibre rope is significantly lighter and easier to handle, a major benefit for erection and service work.

Due to its special strand construction, the rope will last four times longer and can withstand a high number of bending cycles. This means it is subject to low wear and therefore delivers a long service life. The rope also guarantees operational safety as the various wear states are clearly identifiable by coloured markings on the cover.

## Technical data

	 kg	 kg	 m →
<b>240 EC-B 10 Fibre</b>	10,000	2,500	68.0
<b>240 EC-B 12 Fibre</b>	12,000	2,400	68.0
<b>300 EC-B 12 Fibre</b>	12,000	2,550	73.0
<b>370 EC-B 12 Fibre</b>	12,000	2,800	78.0
<b>370 EC-B 16 Fibre</b>	16,000	2,500	78.0
<b>520 EC-B 20 Fibre</b>	20,000	2,900	83.0
<b>258 HC-L 10/18 Fibre</b>	18,000	2,500	60.0
<b>1188 EC-H 40 Fibre</b>	40,000	9,100	91.4



## Top-slewing cranes

# The EC-H series

The cranes in the EC-H series dominate the image of many building sites with the unmistakable silhouette with the tip and interior cabin. These high-top cranes are ideal for medium and large construction projects, such as industrial and plant construction. EC-H cranes are the best option for high lifting capacities. The heavy-duty motors made by Liebherr also ensure high handling capacities.

Various climbing and guying systems mean that there is almost no limit to the possible uses. All EC-H cranes with the Tower Crane Litronic can be adapted to the personal requirements of the crane driver and site quickly. Intelligent assistance systems control the tower cranes efficiently and safely.

## Technical data

	 kg	 kg	 m →
<b>550 EC-H 20 Litronic</b>	20,000	4,000	81.5
<b>550 EC-H 40 Litronic</b>	40,000	4,000	81.5
<b>630 EC-H 40 Litronic</b>	40,000	5,800	81.4
<b>630 EC-H 50 Litronic</b>	50,000	5,200	81.4
<b>1000 EC-H 40 Litronic</b>	40,000	11,500	81.4
<b>1000 EC-H 50 Litronic</b>	50,000	11,000	81.4



## Top-slewing cranes

# The HC-L series

The luffing jib cranes in the HC-L series are used for high-level work on constricted sites. They can be used on almost any site due to their small slewing radius and luffing jib, even if there is little space available. With high lifting capacities and fast hoist speeds, they ensure that building work proceeds quickly.

In the luffed position of the jib between 15° and 70°, even when not in use, they can be slewed freely when used on sites with lots of cranes and overlapping slewing ranges. Various climbing and guying systems mean that there is almost no limit to the possible uses.

On all HC-L cranes, the intelligent Tower Crane Litronic helps ensure that the crane is controlled efficiently and safely. Level luffing at the touch of a button, in particular, ensures that it can work precisely and safely.

## Technical data

	 kg	 kg	 m →
<b>190 HC-L 8/16 Litronic</b>	16,000	2,500	55.0
<b>230 HC-L 8/16 Litronic</b>	16,000	1,900	60.0
<b>280 HC-L 12/24 Litronic</b>	24,000	3,200	60.0
<b>280 HC-L 16/28 Litronic</b>	28,000	3,000	60.0
<b>357 HC-L 12/24 Litronic</b>	24,000	4,500	60.0
<b>357 HC-L 18/32 Litronic</b>	32,000	4,100	60.0
<b>542 HC-L 12/24 Litronic</b>	24,000	4,800	65.0
<b>542 HC-L 18/36 Litronic</b>	36,000	4,300	65.0
<b>710 HC-L 32/64 Litronic</b>	64,000	7,200	65.0



## Top-slewing cranes

# The HC series

The HC series comprises large cranes designed for very high hook heights and very large radii which can manage enormous lifting capacities. These cranes are often used over a long service life, for example for handling loads at mines or shipyards.

HC cranes can position even very heavy loads precisely and sensitively. The company's own drive units and control technology ensure that the drive units are perfectly tailored to each other and that sensitive loads can be positioned correctly.

## Technical data

	 kg	 kg	 m →
<b>1250 HC 40</b>	40,000	12,500	81.0
<b>1250 HC 50</b>	50,000	12,000	81.0
<b>2000 HC 60</b>	60,000	22,000	81.4
<b>3150 HC 60</b>	60,000	32,000	80.0
<b>3150 HC 70</b>	70,000	50,000	60.0
<b>4000 HC 70</b>	70,000	25,500	90.0
<b>4000 HC 80</b>	80,000	34,000	100.0
<b>4000 HC 100</b>	100,000	22,500	96.0
<b>5000 HC 80</b>	80,000	42,000	100.0



## Special cranes

# Tower cranes on crawler-track carriers

Fast-erecting cranes and top-slewing cranes are available on crawler-track travel gear for difficult terrain. These cranes with crawler undercarriages are extremely mobile and therefore particularly cost-effective. Crawler cranes are used when cranes have to be able to change location quickly and also generate low ground pressure. The expertise from three Liebherr companies was used in the crawler undercarriage.

### Technical data

					
<b>42 KR.1</b>	4,000	1,200	36.0	28.0	41.5

other cranes available on request



## Special cranes

# The derrick crane

The last one out clears up. The derrick crane is designed as a specialist dismantling crane for cranes from high-rise buildings and other high structures. It can be dismantled into very small units and transported through building elevator shafts with small lifting gear. In addition to cranes, Liebherr can also provide a complete derrick service which includes all planning. Furthermore, this special crane can also be used as a construction crane for special requirements.

### Technical data

	 kg	 kg	 m →
200 DR 5/10 Litronic	10,000	7,500	25.0



The smart assistant

# Tower Crane Litronic

To support crane operators and service technicians in their work while boosting handling capacity, reliability and safety, our Tower Crane Litronic crane control system comes with a series of modern assistance systems.

Micromove fine positioning mode comes into its own whenever sensitive components have to be positioned accurately. This function allows loads to be positioned particularly gently and with millimetre precision using reduced speed.

The operating-range limiting system enables you to deliberately avoid areas and obstacles which a load should not be slewed over, for example railway tracks, motorways or kindergartens.

The Load-Plus function enables you to increase the lifting capacity of your crane for individual hoists by up to 20% – all at the touch of a button.

## Assistance systems

- **Micromove fine positioning mode**
- **ABB operating-range limiting system**
- **Load-Plus to increase lifting capacity**
- **Safety-monitored climbing**
- **Level luffing**
- **Wind force moment control and oscillation-damping system**

# 04

# Service & Services

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Service & Services

# Tower Crane Customer Service

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With its Tower Crane Customer Service, Liebherr offers fast, reliable support for tower cranes and mobile construction cranes.

Many practical difficulties can be overcome by talking to our staff. Our competent specialist contacts can answer technical questions in many languages and thus provide prompt assistance. We also offer user-oriented support for software solutions from the Tower Cranes division.

Liebherr's wide-ranging training programme offers optimum training for your personnel, ensuring greater safety and productivity on your construction site. A worldwide network of Liebherr service technicians and service partners, combined with optimum logistics, enables a fast and reliable supply of original spare parts, thus ensuring optimum equipment availability, a high level of safety and a long product service life.

Our Field Service provides comprehensive support for crane assembly, maintenance, safety inspections or major projects via qualified service personnel and crane experts.

## Core areas

- Training Center
- Technical service
- Spare parts supplies
- Site erection



Service & Services

# Tower Crane Solutions

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Individual solutions direct from the manufacturer – Tower Crane Solutions specialises in consulting and planning for major and special projects as well as custom applications for tower cranes in the fields of mining and quarrying, shipyards as well as power station and plant construction.

Together with our sales partners and customers, Tower Crane Solutions develops holistic concepts for the respective crane applications. Our team of experienced specialists uses the worldwide Liebherr network to coordinate the interplay of various areas of competence, such as design, structural engineering, production, sales, rental and service.

In addition, Tower Crane Solutions provides CAD-supported digital site planning with the aim of offering the customer a complete service that facilitates economical crane use in the respective construction projects.

## Core areas

- Major projects
- Complex special projects
- Mines and mining
- Shipyards
- Power station and plant construction



## Service & Services

# Tower Crane Center

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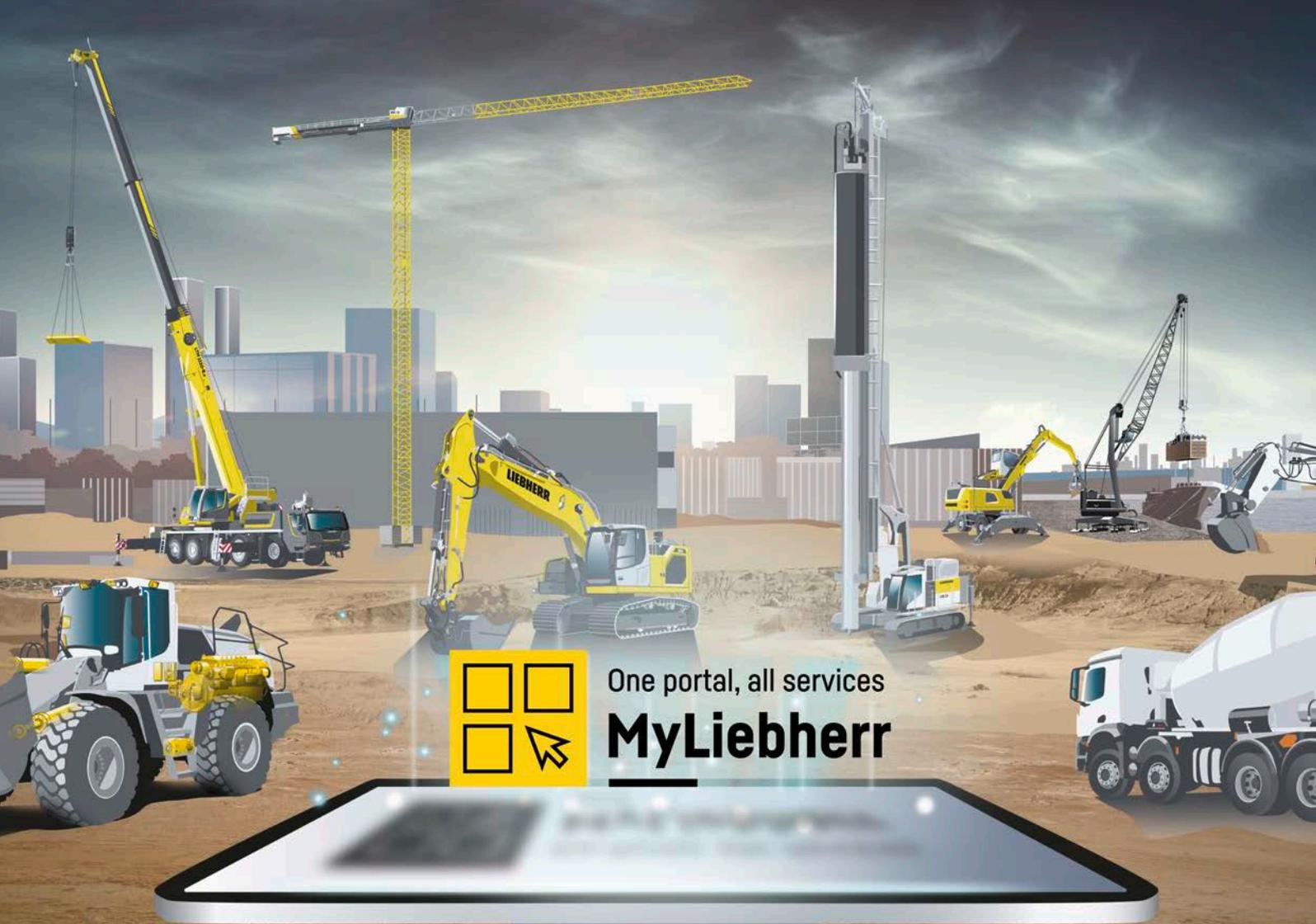
The Tower Crane Center operates in the national market for used tower cranes and mobile construction cranes, serving as a central hub within the worldwide network of Liebherr sales partners.

Its services include the uncomplicated purchase of used equipment and accessories, testing and refurbishment, logistics and sales. Our customers and partners thus benefit from the manufacturer's expertise, worldwide network and professional handling.

Start where others stop. With the possibility of flexible rental packages for large cranes and special accessories, our partners are also supported in the case of special challenges. Thanks to the constant expansion of our rental fleets, we can serve you quickly, flexibly and without complications. Furthermore, there are no service costs for our rental customers as we take care of all necessary inspection work. In addition, rental machines require no long-term investment by the customer.

### Core areas

- **Global network in the rental and second-hand business**
- **Purchase, evaluation, repair and sales of used equipment**
- **Worldwide rental of cranes and special accessories**



One portal, all services

**MyLiebherr**



Service & Services

# One portal, all services – MyLiebherr

With MyLiebherr you have access to a wide range of online services for your Liebherr machines. To take advantage of these, you simply need to register once on the portal and have a business relationship with a Liebherr service partner.

On our customer portal, you have access to a constantly growing number of digital applications that make your everyday work easier and Liebherr machines even more economical and safe to use.

MyLiebherr also includes the Tower Crane Portal, where a wide range of information about our products can be accessed easily and in a well-structured manner.

Want to know more? Then register today and take advantage of our comprehensive services that support you in your daily work.

To registration /  
Registration →



## Advantages at a glance

- Individual management of your machines
- Easy contact with your Liebherr service partner
- Direct access to and secure management of your customer data
- Online access to the latest spare parts documentation for your machine
- Direct and convenient ordering option from your Liebherr service partner

# 05

# Global production

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Global production

# Crane production

Since the construction of the first tower crane over 70 years ago, Liebherr has maintained the very highest quality standards for its products.

Modern production processes from pre-cut parts to final assembly enable the company to manufacture an extraordinary range of products, which extends from small fast-erecting cranes to large and special cranes. Each crane is continuously safety-tested during the production process using modern methods.

Designers at three locations around the world work closely with production staff on technically demanding and market-focused tower cranes – with a passion for engineering.



## Cranes produced in 2021

- 450 Top-slewing cranes
- 980 Bottom-slewing cranes
- 76 Mobile construction cranes

# Crane production locations



## Liebherr-Werk Biberach GmbH

since  
**1954**

Employees  
(approx.)  
**1,600**

Total area  
(approx.)  
**200 km<sup>2</sup>**

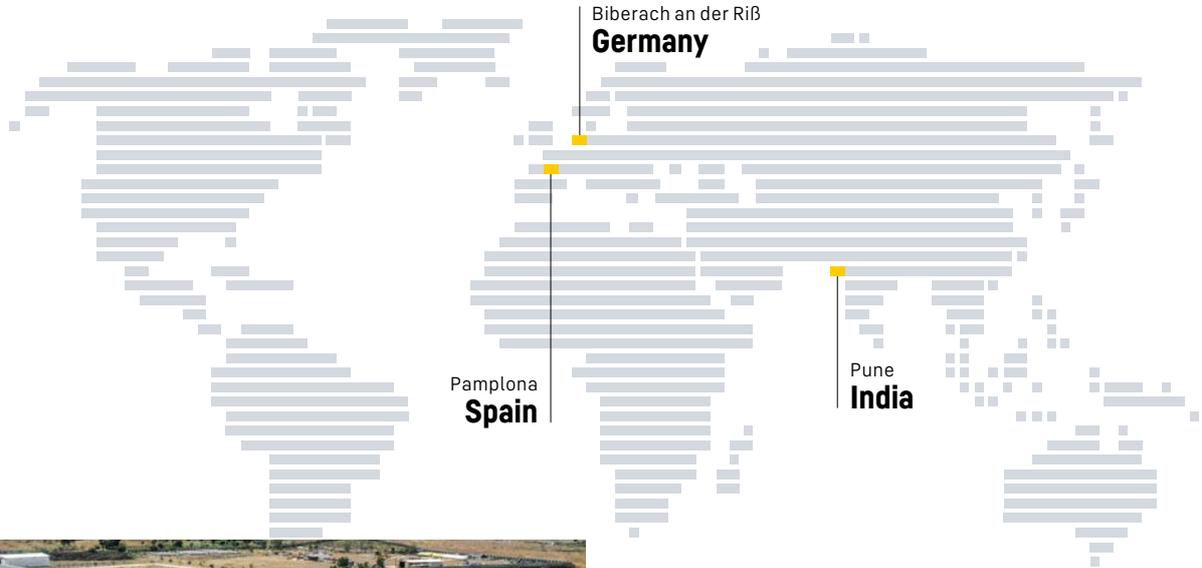


## Liebherr Industrias Metálicas, S.A.

since  
**1990**

Employees  
(approx.)  
**250**

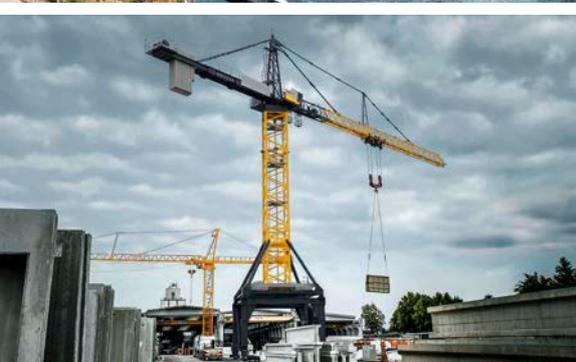
Total area  
(approx.)  
**175 km<sup>2</sup>**



## Liebherr CMCTec India Pvt. Ltd.

since <b>2008</b>	Employees (approx.) <b>90</b>	Total area (approx.) <b>220 km<sup>2</sup></b>
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