

A large Liebherr LHM 550 mobile harbor crane is positioned on the deck of a ship. The crane is yellow and black, with a tall mast and a long jib. It is mounted on a multi-axle trailer. The background shows the ocean and a sunset sky with scattered clouds. The crane's name and model number, "LIEBHERR LHM 550", are visible on its side.

The new LHM

Overview

LIEBHERR

Mobileharbourcrane

The new crane

Where we are coming from



- First Liebherr Mobile Harbour Crane in 1974
- More than 1850 LHM in the market
- Cranes placed in more than 110 countries
- Continuously leading the market since 2010

Liebherr Mobile Harbour sets the standards on the MHC market.

The new crane

Where we are going



The best LHM ever

The new crane

The best LHM we ever made

Control & sensor technology



Standby function for crane control

IP-cameras

Digital fuse monitoring

Flexible supporting base

Pactronic 2.0



Boost mode

Green mode

Adjustable hoisting height

Increased efficiency

Maritime cabin



Forearm-hand connection

New climate control concept

Touch panel

Bottle cooler

New design



Modern colour compositions – Liebherr CI

Agile-looking design

Alternatively powered machines visible

Distinction for future LHM customers

LIEBHERR

The new crane

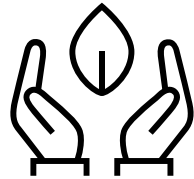
Hybrid technology

Pactronic 2.0

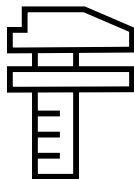
Boostmode



Greenmode



Individualadjustable

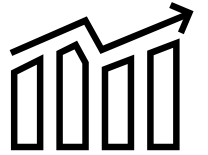


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Pacronic 2.0

Boostmode

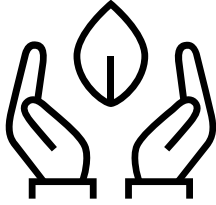


- In this mode, the Pacronic acts as a significant power amplifier.
- Lifting speeds are significantly increased – without the aid of a larger or even additional main unit for more power.

This massively increases the efficiency of the crane

Pactronic 2.0

Green mode

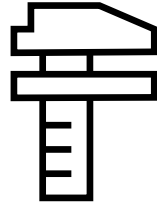


- This mode is designed to **save fuel or power consumption** and to **reduce CO2 emissions**
- During the lifting process, the Pactronic supports the main unit to such an extent that **less power is required** by the main drive, despite the **lifting speeds remaining the same**

As a result, absolute fuel or power consumption and emissions are reduced



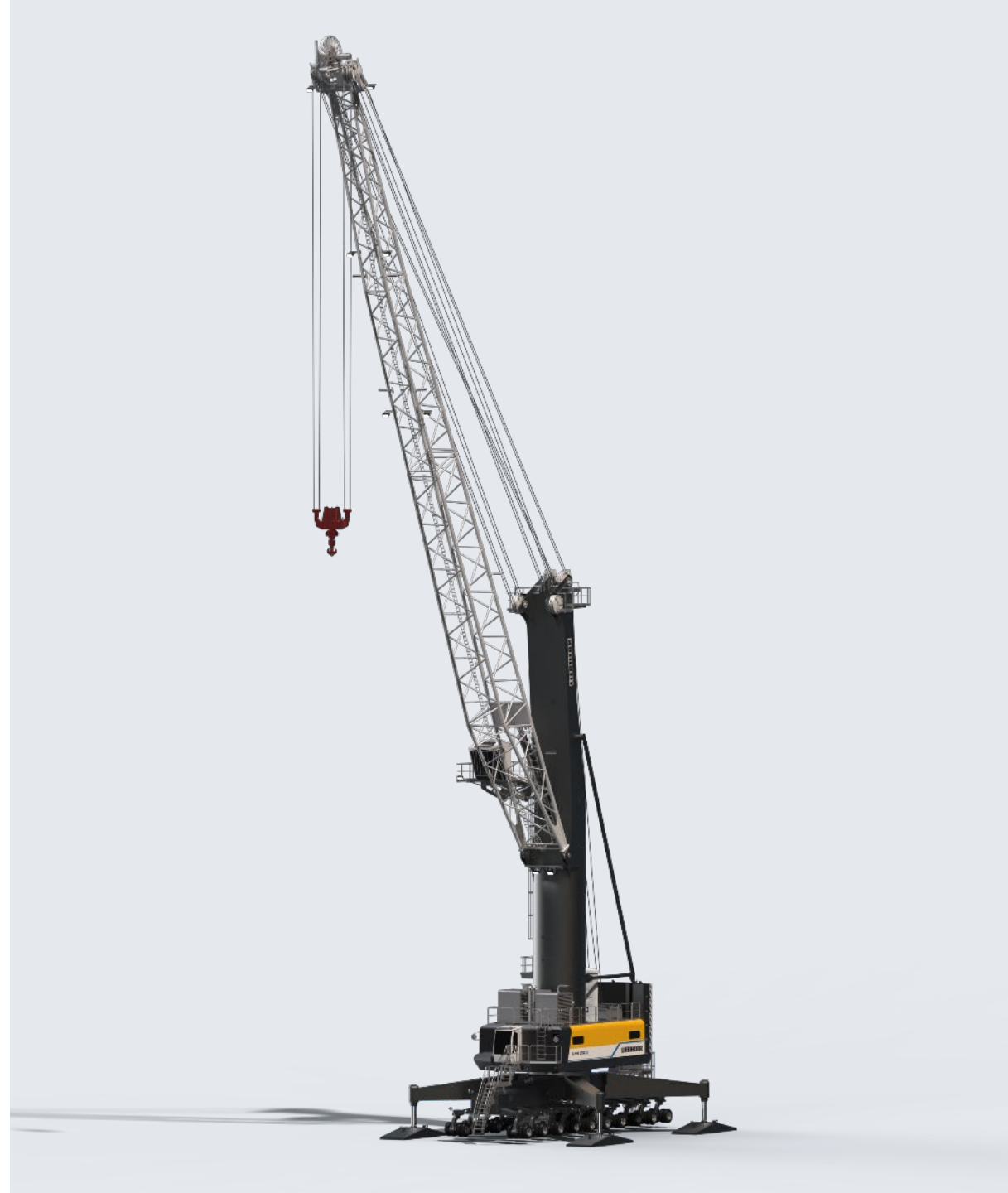
Pactronic 2.0



Individual adjustable

The second generation Pactronic is thus even more closely aligned to the actual needs of the user.

- By setting the **individual lifting height**, the power output of the Pactronic is adjusted accordingly
- The additional energy of the Pactronic is distributed over the **entire lifting process**
- Pactronic **reacts to changes of the outside temperature** and the accompanying change in pressure in the reservoir





The new crane

Standby function for crane control

- Crane control available with crane ignition off
- Engine ignition separated from crane control
- 24h camera and fire detection possible*

*Auxiliary supply required

The new crane

IP-cameras

- The new ECU allows **multiple IP -camera** implementation
- **Better image quality** can be achieved through the IP-cameras
- Digital signal processing allows for **easier image storage** and further processing





The new crane

Digital fuse monitoring

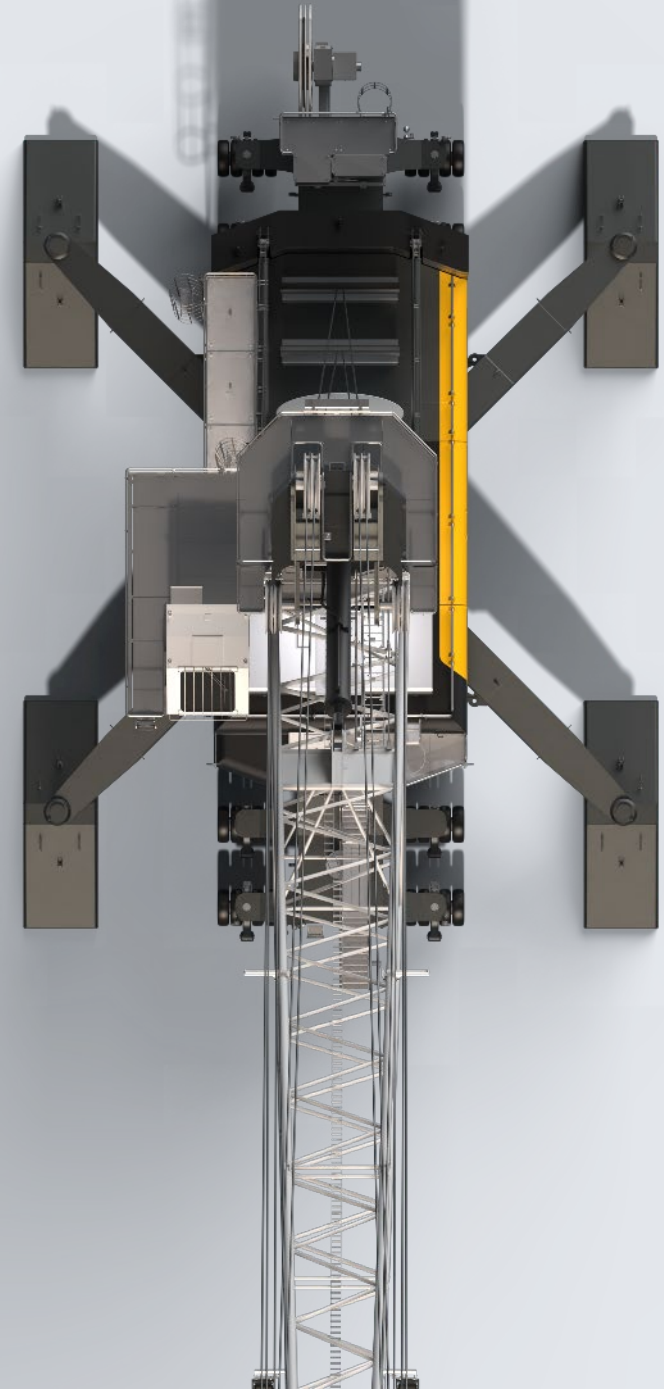
- Improved overvoltage monitoring
- Triggered fuses are now recorded and shown in the crane control
- No necessity to search triggered fuses for trouble shooting
- Shorten mean time to repair

The new crane

Flexible supporting base

- Outrigger position is now an integrated system parameter due to sensor measurement
- Changing the outrigger position requires only a software update, within technical limits

High degree of flexibility when changing the supporting base



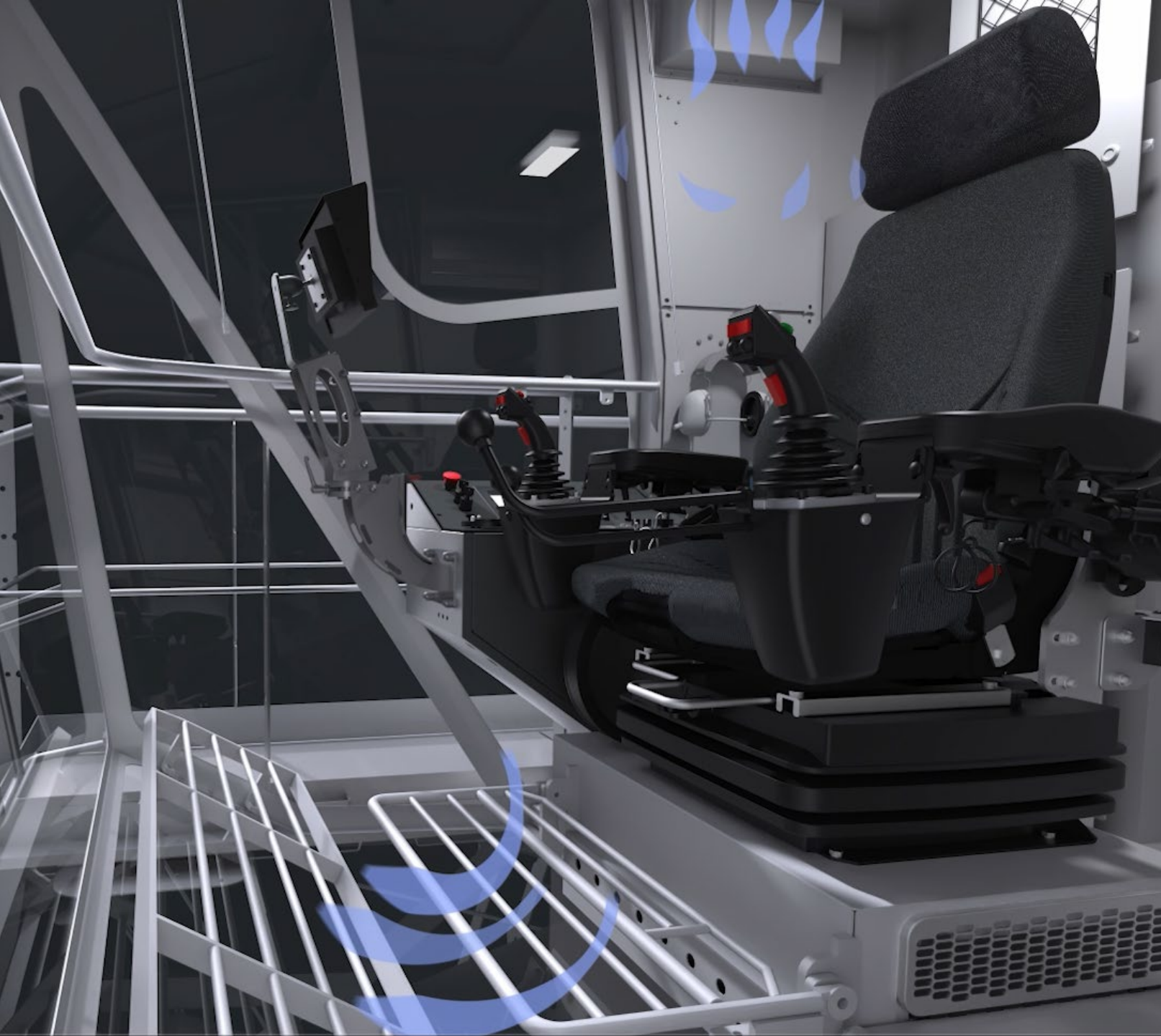


The new crane

New maritime cabin

- Coupling of vibrations between forearm and hand for utmost driving comfort
- No need for subconscious vibration compensation
- Increased driver's comfort

Control of the crane becomes
more precise and safe

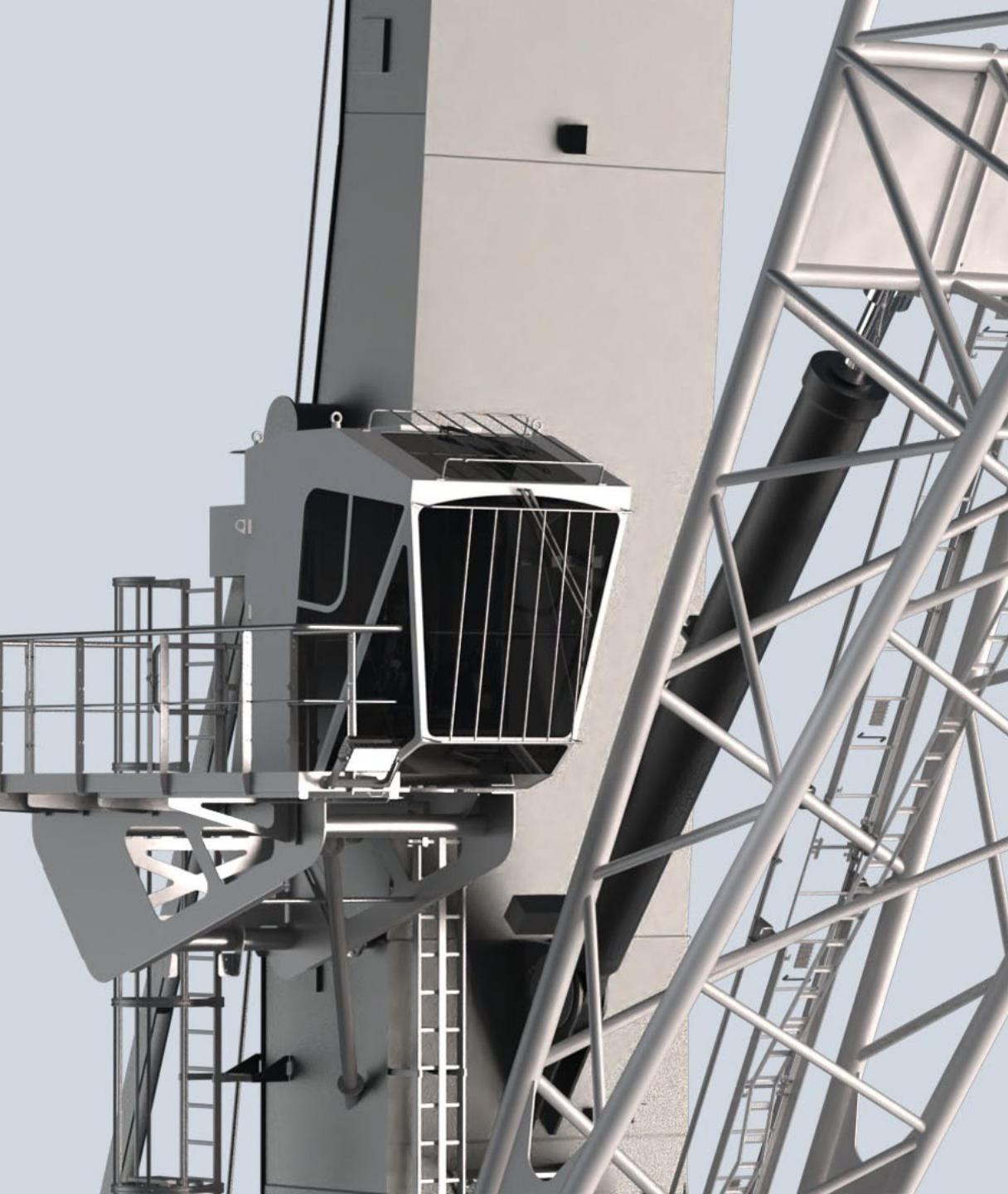


The new crane

New maritime cabin

- New concept for climate control
- Allows fast dehumidification of windows
- Comfortable flow of cool and warm air

Providing a clear view and more safety



The new crane

New maritime cabin

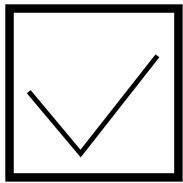
Further new Features:

- **Integrated sunblinds** for more driver comfort
- **Filler neck** for windscreen wiper now **outside of the cabin** for clean and comfortable refilling
- **Larger windscreen wipers** for improved visibility during rain
- **Integrated touchpanel** instead of hardware keys for intuitive crane control
- **Bottle cooler** for chilled drinks

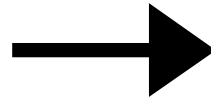
The new crane

Zero emission LHM traveling by battery

Emission free crane travelling via battery



Emergency operation possible



Up to 2 km travelling distance



10 years battery life time



The new crane

Unplugged LHM

- Up to **2 km travelling distance** with 260 kWh capacity
- Fully recharged battery within 10 to 12 hours
- Up to **10 years** battery lifetime
- Emergency operation possible

Zero emission traveling for grid connected cranes

LIEBHERR

The new crane evolution

New crane design

—The **blue accent** in the colour composition and also the **blue E-symbol** next to the crane type, give all alternatively powered machines a distinctive look

This allows all future LHM customers to directly communicate advanced and environmentally friendly crane technology to their stakeholders.



The new crane evolution

New crane design

Intrigued?

Visit us on our booth!

—
Thank
you.
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LIEBHERR