
Liebherr Mobile Harbour Crane - LHM

Beyond Lifting: 50 Years of
Progress and the Future of
Terminal Handling

LIEBHERR

Maritime Cranes



Beyond Lifting: 50 Years of Progress and the Future of Terminal Handling

Celebrating 50 Years with 2000 LHM & Beyond

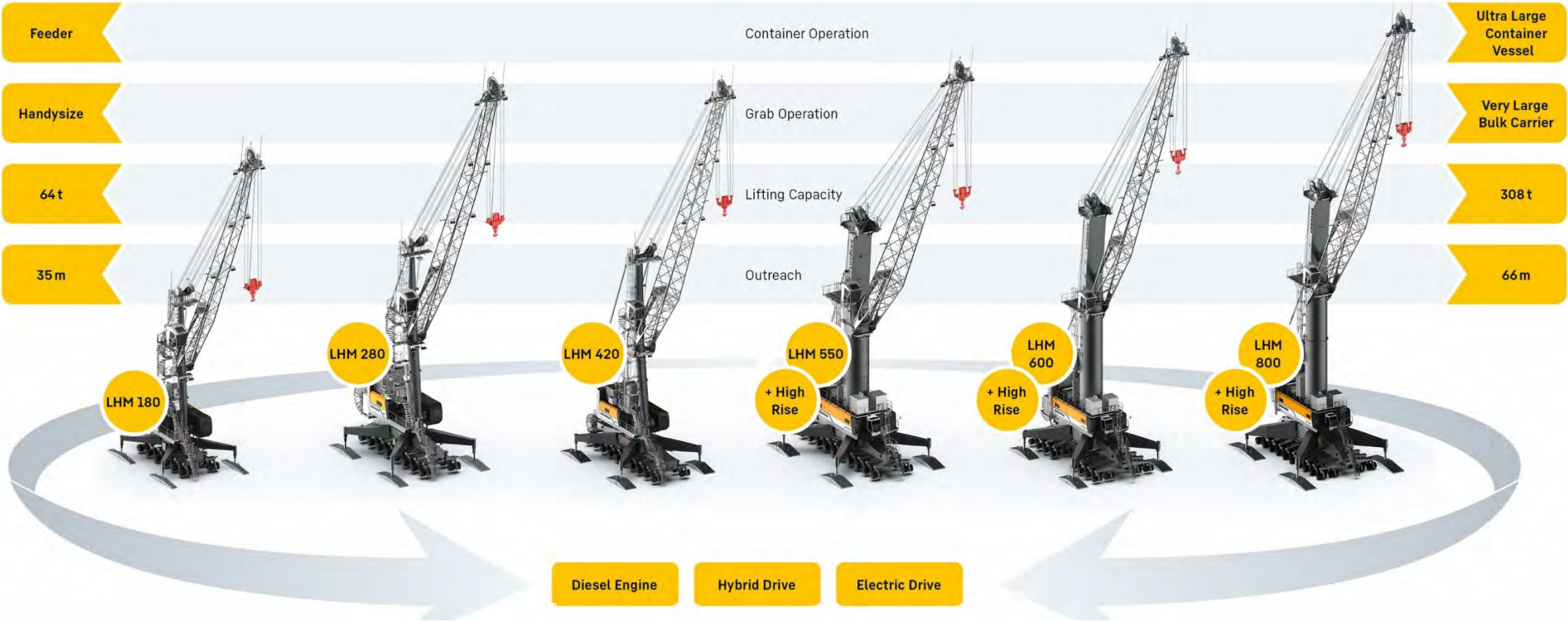


Ceremonial milestone in Rostock

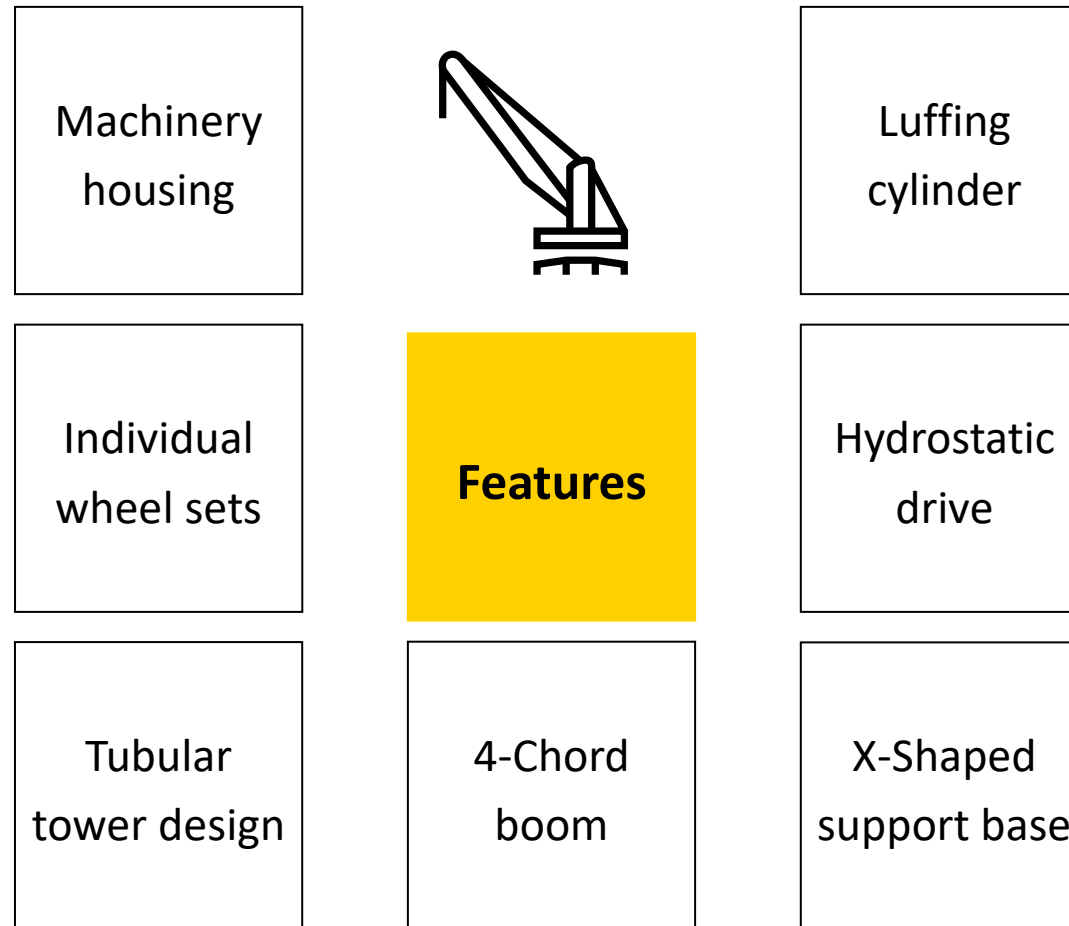
Our team in Rostock proudly celebrates the production of the 2000th Liebherr mobile harbour crane in Mar 2025.

This significant milestone underscores five decades of outstanding engineering and innovation.

Product range



Unique features





Tubular tower design

- Even distribution of forces
- Minimization of torsion
- Increased service life

Hydrostatic drive

- Extremely precise control
- Reduced fuel consumption
- Unaffected by temperature

X-shaped support base

- Reduction of torsion
- Optimal vertical stability
- Adaptable to all quay requirements

4-Chord boom

- Maximum stability & stiffness
- Long service life
- Precise crane movement

Luffing cylinder

- Increased boom clearance
- Protection from damage
- Less hydraulic oil

Machinery housing

- Glass-fibre reinforced polymer
- Low weight and corrosion-free
- All components easily accessible

Individual wheel sets

- Individually steerable
- Highest maneuverability
- Ground pressure per wheel ≤ 6 t

One Crane – Many Possibilities for Various Application

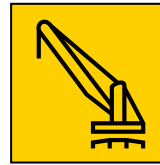


LHM - Liebherr mobile harbour

From Coaster ships up to Ultra Large Container Vessels (ULCV).

Bulk handling

Max material handling rate of up to 2,300 tonnes per hour.



General cargo

Lifting attachments to be quickly and easily exchanged.

Heavy lift

Maximum load capacity 308 tonnes at 16 metres.





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Modularity

Type LHM – Liebherr Mobile Harbour

- All wheel sets individually steerable and have load balancing, each wheel set individually controlled
- Each wheel set individually controlled
- 360° mobility ensures highest manoeuvrability
- Turning on spot
- Moving perpendicular



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Modularity

LFS – Liebherr Fixed Slewing

- Fitted on a fixed base column
- Reducing the space required

LPS – Liebherr Portal Slewing

- Rail-mounted gantry – adaptable for every rail loading
- For quays or wharves where space is limited or traffic is high
- Not restricting for quayside infrastructure and transportation of goods

LPM – Liebherr Portal Mobile

- Gantry which is fitted with rubber tyres
- Combination of LHM and LPS crane
- 360° mobility and all advantages of a gantry crane

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Applied Modularity



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Turning on Spot



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Undercarriage Mmobobility





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New Digital Maritime Cabin

—New electrical control unit “MasterV” and software as basis for further crane automation

Features

—Standby function for crane control

—Multiple IP-cameras for better image & easier storage

—Digital fuse monitoring for recorded overvoltage monitoring

—Flexible supporting base integrated with system controls supported by sensor technology



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SmartGrip®

- Optimises grab filling rates in a self-learning manner
- Recognizing bulk density, compression, granularity, depth of impression or type of grab
- More turnover, perfect crane utilization, less stress for the crane and the crane operator





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Sycratronic®

- Enables tandem mode with just one single crane driver usage of 100 % crane capacity
- Potential misunderstandings between crane drivers can be avoided
- Increased safety and simplified control leads to faster operation times





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Advanced Container Assistant

System keeps without any moves of the operator the container parallel to the vessel. Even 90° or 180° turns with just one push

- Less stress for your operators
- Increased safety in your port
- Optimal protection of the cargo
- Faster cargo handling
- Higher productivity

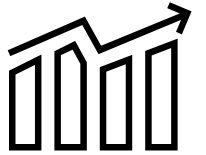




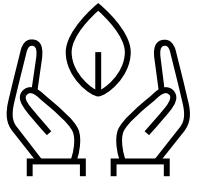
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Pactronic® 2.0

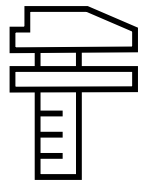
**Boost mode - increases the efficiency
of the crane**

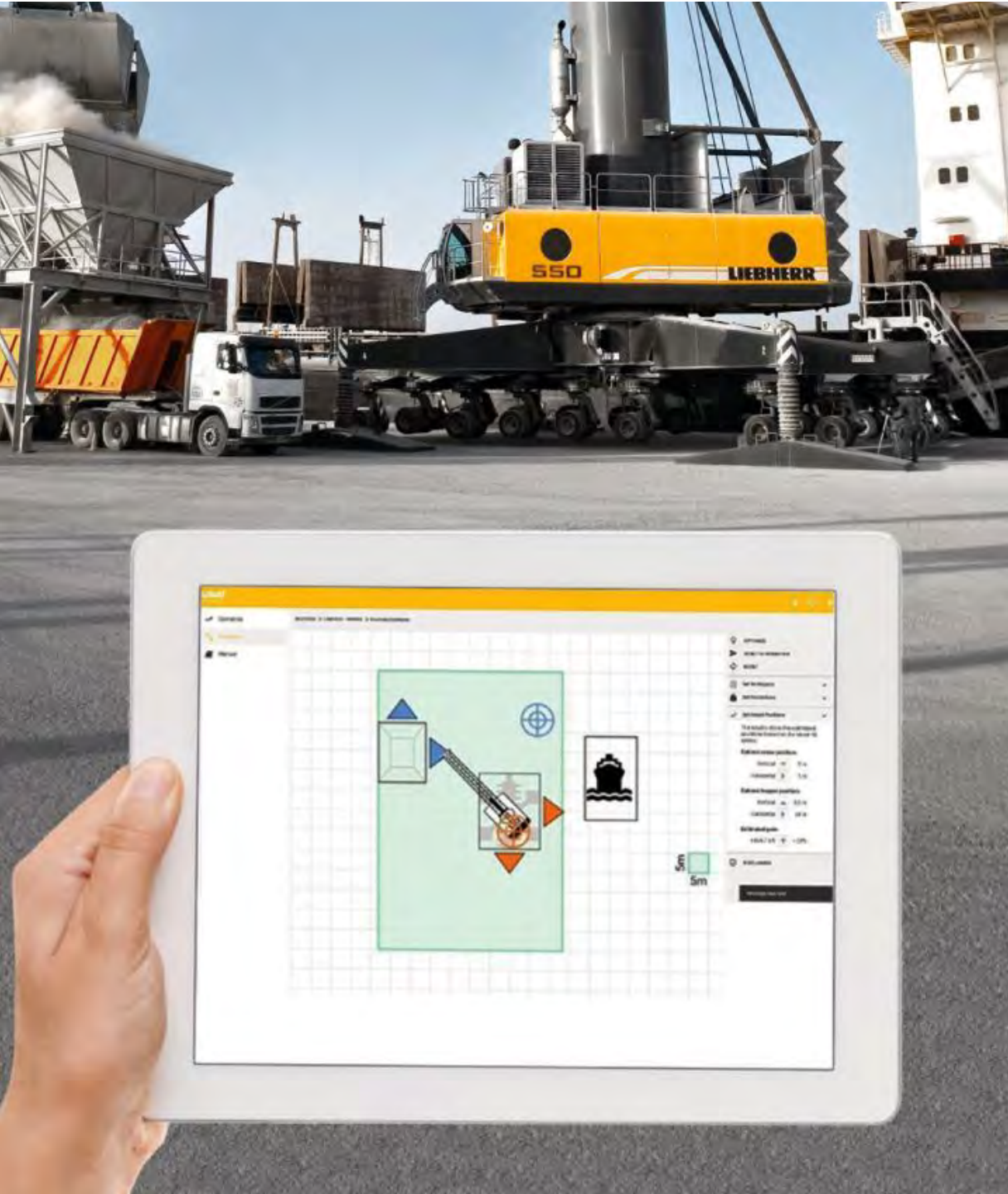


**Green mode – fuel or power
consumption & emissions are reduced**



**Greater performance and decreased
fuel consumption**





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Smart up your performance

- IT-solution for analysing and optimising cargo handling processes
- Makes the processes faster, more environmentally friendly and more cost effective
- Real-time overview of the equipment status and the progress
- The Optimization Package additionally recommends specific optimisation actions

Benefits:

- Increased turnover efficiency
- Cost saving
- Eco-friendliness
- Increased resale value
- Good process and machine overview



LiSim Training Solutions – The Right Tool for Every Step

LiSIM Move



Basic Training

Recruiting & Skill Assessment

Self-navigation

LiSIM Classroom

Advanced Training

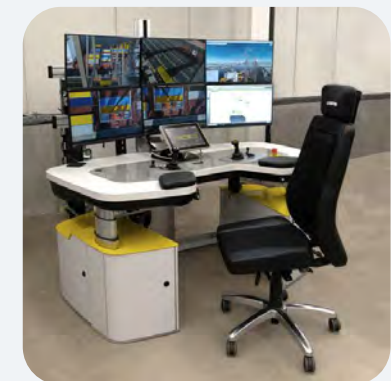
Skill improvement

LiSIM Lite / Pro



Extensive experience with trainer

LiSIM ROS



Thank you.



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