

EN

CBG 500 E

www.liebherr.com

LIEBHERR

Port and transshipment solutions



Maximum lifting capacity
105 t (hook operation)
90 t (grab operation)

Maximum outreach
50 m

Ship size
Up to capesize

Technical data

Speeds

Hoisting/lowering (SWL on rope)	
Maximum hoisting/lowering up to 32t SWL	0 m/min - 140 m/min
Maximum hoisting/lowering with 50t SWL	0 m/min - 110 m/min
Maximum hoisting/lowering with 65t SWL	0 m/min - 85 m/min
Maximum hoisting/lowering with 75t SWL	0 m/min - 74 m/min
Maximum hoisting/lowering with 90t SWL	0 m/min - 61 m/min
Maximum hoisting/lowering with 105t SWL	0 m/min - 53 m/min

Slewing	
Speed	0 rpm - 1.6 rpm
Range	360° unlimited

Luffing	
Maximum luffing	0 - 85 m/min

Design conditions

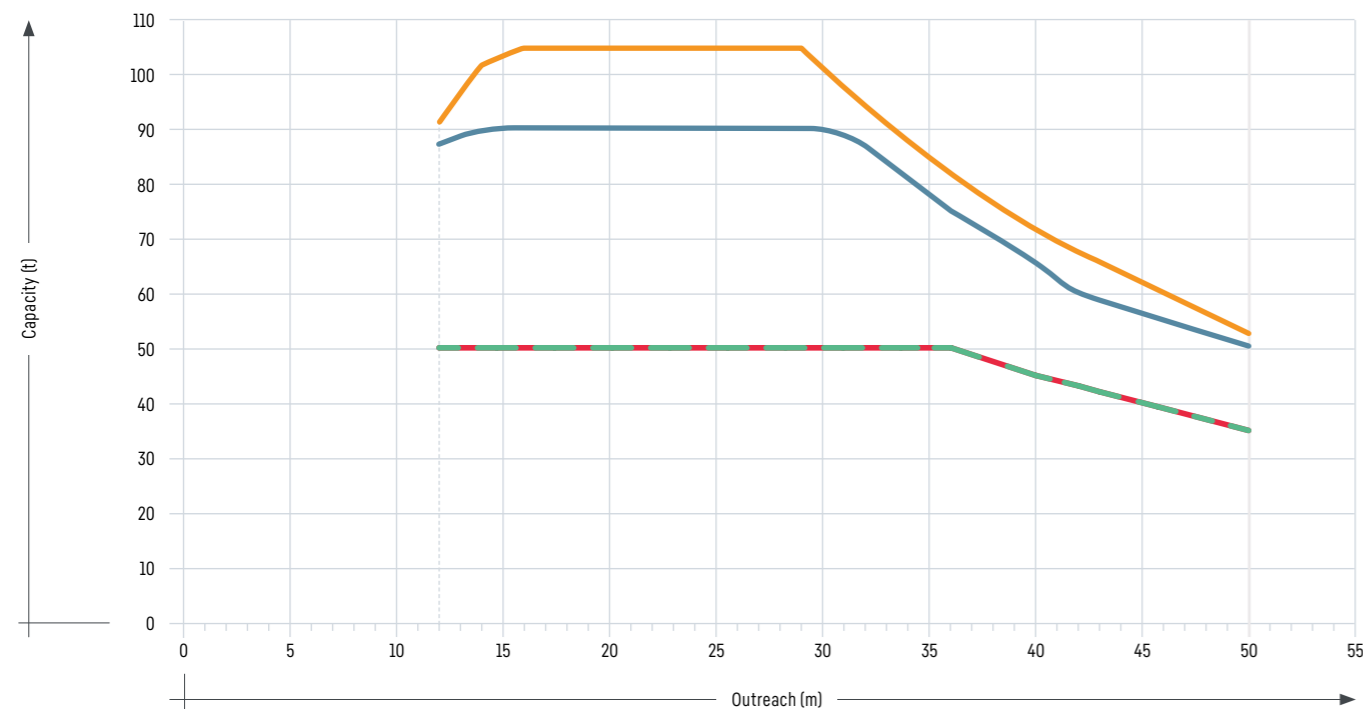
Maximum admissible	
Heel/trim	5° / 2° or 2° / 5°
Design temperature	-10°C
Ambient working temperature	-20°C to +45°C

Maximum wind speed	
Working condition	20 m/sec (0.245 kN/m²)
Parking condition	63 m/sec

Load diagram 50 m*

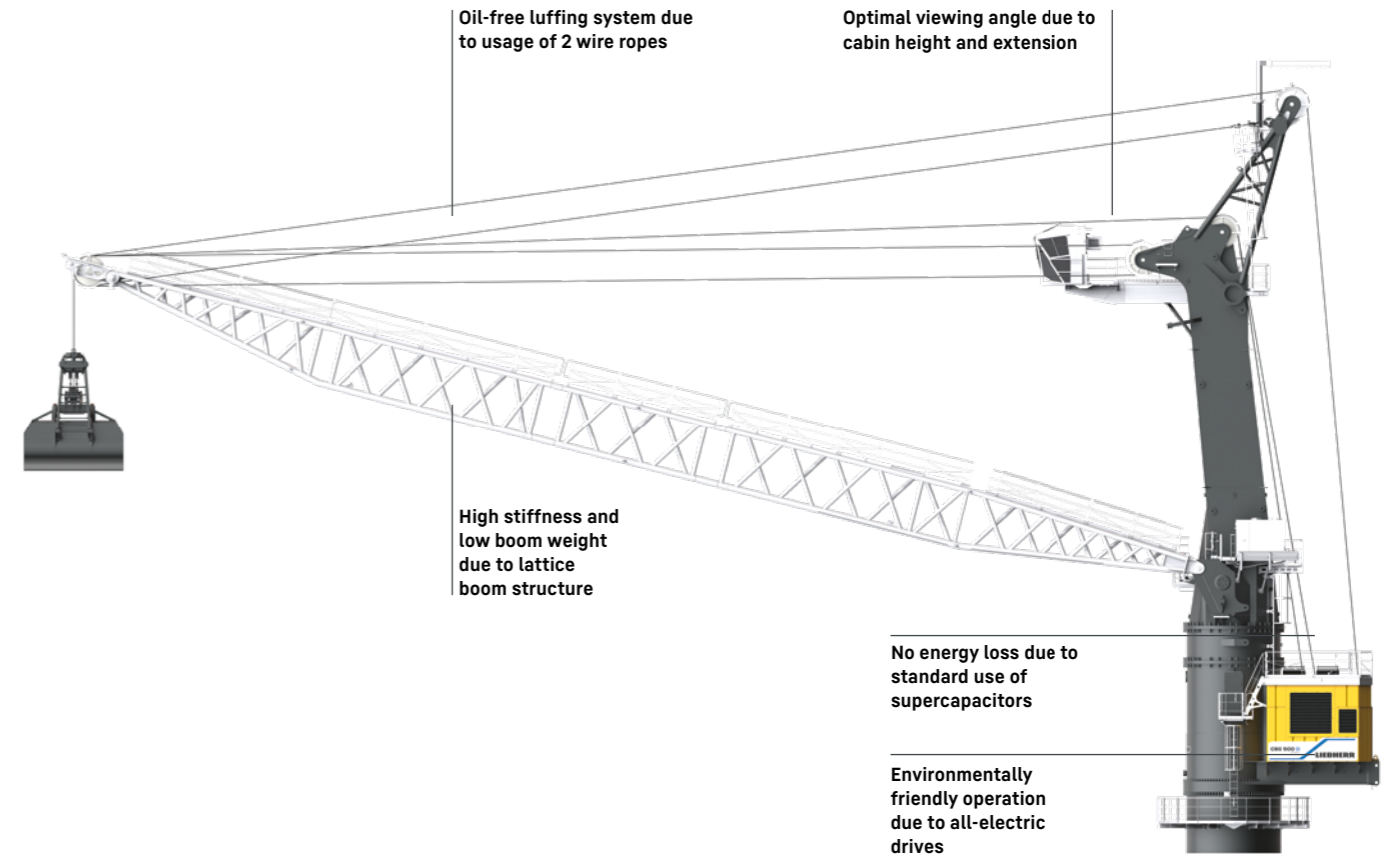
- Grab operation (open water)
- Grab operation (sheltered water)
- Hook operation (open water)
- Hook operation (sheltered water)

Configuration with 43 m outreach available



*Example load charts according to the classification societies Rina and LR

General arrangement



Advantages

- All-electric driven crane
- Ergonomic driver's seat and control layout
- Simplified maintenance of electrical components
- Energy-efficient system due to energy recovery system by Liebherr
- Closed water cooling system for power electronics
- Fulfilment of customer-specific requirements through a variety of crane configurations and options

Optional features

- Spacious 10m³ cabin
- Comfort ascent to crane driver's cabin
- Increased stability and load charts with counterweight
- Additional platforms and boom walkway for service and maintenance purposes
- Intelligent automatic greasing systems
- Camera systems for different areas of the crane
- Complementary service devices
- Operational flexibility for special lifting equipment by installation of electrical cable drum



SmartGrip®

The SmartGrip technology is capable of optimising the filling rate of the grab in a self-learning manner. In this way, SmartGrip learns after only a few lifting cycles how to maximize capacity utilisation of the grab even for less experienced crane operators.

LiCAS

Liebherr cranes can be equipped with the Liebherr Collision Alert System (LiCAS). This additional assistance system sets new levels in operational safety during heavy-duty cargo handling. LiCAS supports the crane driver by permanently detecting the distances between several cranes and warns of potential unsafe conditions.

LiDAT smartApp

With LiDAT smartApp, it is possible to analyse your crane (operating and performance) data and get answers from it almost immediately. That leads to direct decisions. The ability to work faster gives operators a competitive edge they did not have before. The data analytics helps to detect bottle necks and to identify new opportunities.

LiSIM®

LiSIM for the CBG series increases port safety and productivity by providing a cost-effective and highly efficient crane operator training solution. The development of this sophisticated training tool was prompted by Liebherr's extensive experience in crane operator training. Based on the original Litronic® crane control system, LiSIM® is the only realistic virtual solution available on the market for the training of the precise and innovative control system of Liebherr cranes.