

Liebherr Floating Cranes

CBG 360

Maximum lifting capacity

50 t (Hook Operation)

45 t (Grab Operation)

Maximum outreach

36 m

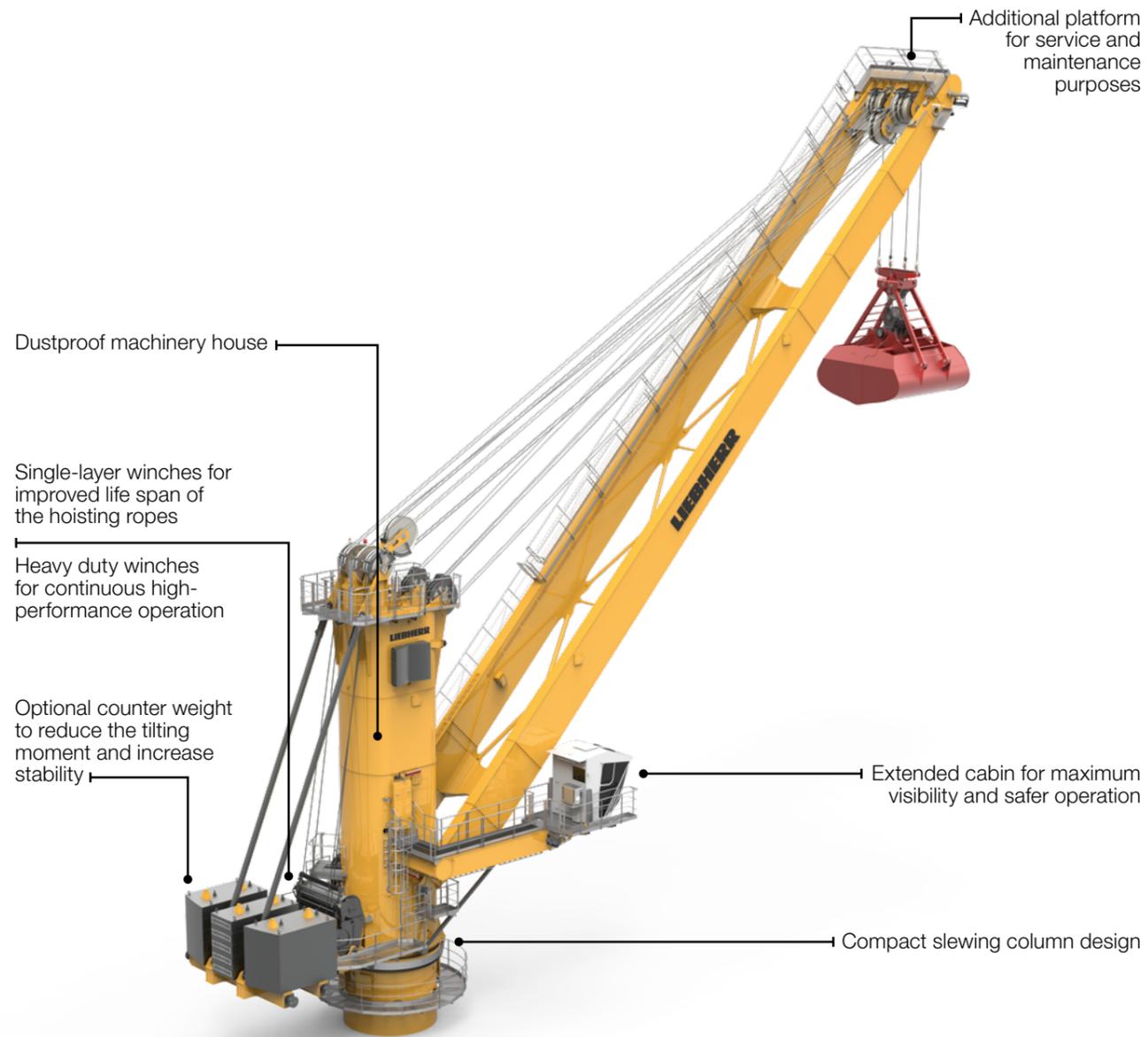
Ship size

up to Capesize



LIEBHERR

General Arrangement



Advantages of Liebherr CBG 360

- Classification according to FEM A8/Q3/U7
- Speed with empty hook ($\leq 15t$) 130 m/min
- Compliance with CE regulations
- Energy-efficient hydraulic system
- Larger and strengthened pulleys for increased life span of the wire ropes and reduction of abrasion
- Strengthened ropes with increased lifetime
- Reduction in the overturning moment thanks to a system of counterweights
- Extended outreach through eccentric platform

Technical Data

Design Conditions

Maximum admissible	
Heel/Trim	5°/2° or 2°/5°
Ambient working temperature	-20° C to +45° C
Humidity maximum	93%
Max. wind speed	
Working condition	20 m/s (0,245 kN/m ²)
Parking condition	max. 63 m/s

Speeds

Hoisting/lowering	
Max. hoisting/lowering up to 15t SWL	≤ 130 m/min
Max. hoisting/lowering with 30t SWL	≤ 71 m/min
Max. hoisting/lowering with 36t SWL	≤ 61 m/min
Max. hoisting/lowering with 45t SWL	≤ 47 m/min
Slewing	
Speed	up to 1.4 rpm
Range	360° unlimited
Luffing	
Max. luffing time (jib length 36 m)	≤ 55 s

Electric Motor

Type of motor	three phase squirrel cage
Class of protection	IP 55
Class of insulation	F
Starting	star delta
Nominal output	2 x 345 kW
	S6-40% ED
Main power supply	440 V, 3 ph
Auxiliary power supply	230 V, 3 ph

Crane Classification

The minimum group classification according to FEM 1.001 (latest edition) of the CBG crane relates to full load cycles in grab operation and is as follows:

	$\leq 36t$	$\leq 45t$
The crane as a whole	A8/Q3/U7	A7/Q3/U6

Optional Features

Ex-centre arm:

The working radius can be extended by up to 12 m via eccentric platform.

Heavy-Lift Winch Configuration:

max SWL: 80t (Hook Operation)
65t (Grab Operation)



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 just five 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's 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 didn't have before. The data analytics helps to detect bottle necks and to identify new opportunities.

LiSIM®:

LiSIM for 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 in the market for the training of the precise and innovative control system of Liebherr cranes.

Liebherr-MCCtec Rostock GmbH

Liebherrstraße 1, D-18147 Rostock/GERMANY

Tel.: +49 381 6006 5020

www.liebherr.com, E-Mail: ship.port.crane@liebherr.com

www.facebook.com/LiebherrMaritime