

# Floating Transfer Solutions

## **Product Range**



# **LIEBHERR**

# High Performance Solutions for Bulk Handling



Efficiency and flexibility are key factors in bulk handling whether in open sea or sheltered waters. The loading/unloading or transshipment times must be kept to a minimum in order to maintain competitiveness in today's markets. Liebherr Floating Transfer Solutions provide the key to success with a complete range of floating cranes for installation on barges or transshippers and tailor-made solutions for all kinds of bulk handling. The combination of over forty years of experience in the maritime cargo handling sector, latest technologies and highest quality standards guarantee innovative and efficient solutions from Liebherr. Thanks to the consortium (Bulk Logistic Landmark – BLL) with Bedeschi (Hopper & Shiploader) and Logmarin (construction design) we are also capable of providing full barge concepts from one single source.

## Liebherr CBG Series

The CBG series of four-rope grab cranes is designed for the high speed handling of bulk cargo. Owing to the special properties of the structure and the integrated safety programmes, the CBG floating crane is not only suitable for operation in sheltered waters but also on the open sea.

## Liebherr MPG

The MPG double girder cranes from Liebherr combine speed, safety and economy. Thanks to their high outreach, they provide a high level of efficiency for the handling of dry bulk cargo on transfer vessels and are particularly effective on transshippers.



## Liebherr LBS Series

LBS-type floating cranes are floating material handling islands and combine all the advantages of the Liebherr mobile harbour crane series with customer-specific barges and pontoon solutions. The LBS-series is well-adapted for moving loads between ocean-going vessels (up to the post-Panamax class) and barges as well as small riverboats in inland waterways.

## Liebherr HS Series

Innovative modifications of existing product lines provide efficient solutions for the rapidly evolving shipping and logistic industries. The machines are based on proven Liebherr designs which have been adapted to meet with the individual and specific demands of our customers.

# Liebherr CBG Series

The CBG series is specially designed for continuous operation and allows a constant and reliable output under full load. Safe and precise crane operation is ensured with Liebherr's own-developed Litronic crane control and management system. Specially designed heavy duty hoisting winches, heel trim alarm systems and emergency operation functions make these cranes suitable for loading/unloading bulk cargoes in open sea condition, so ensuring efficient and uninterrupted transshipment of goods on vessels up to Capesize.

## Liebherr CBG 300

### Main Data

- Four rope grab crane (cylinder luffing supported)
- Bulk handling
- SWL up to 30 t
- Outreach up to 30 m

### Features and Benefits

- Compact slewing column design and low weight
- Low centre of gravity
- Dust prevention in the machinery room through dust filters at the pedestal entrance
- Low maintenance costs
- Excentre platform of up to 10 m for increased outreach allowing access to each hold
- forward mounted cabin (7 - 8 m) for optimum visibility and safer operation



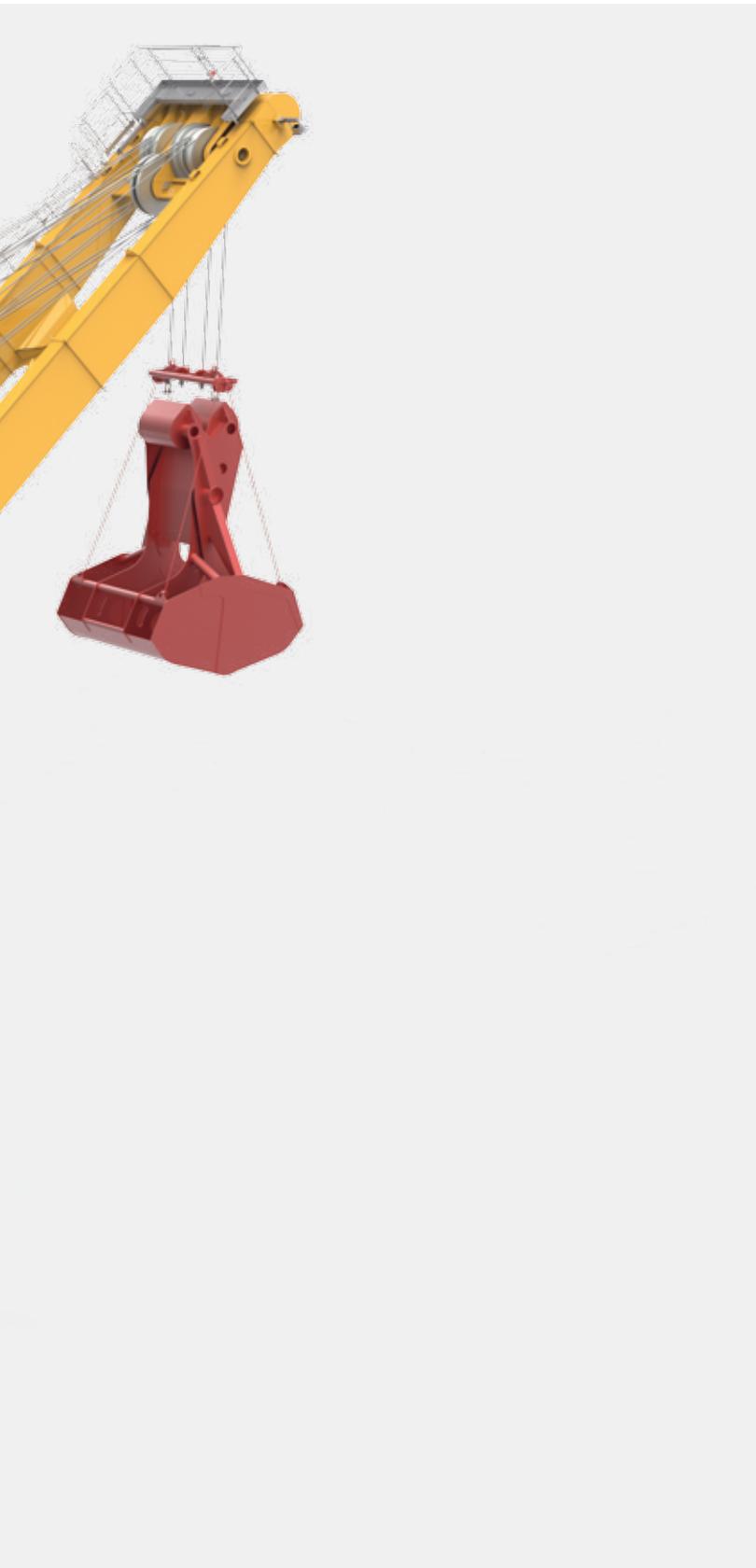
**Liebherr CBG  
with excentre platform**





# Liebherr CBG Series





## Liebherr CBG 360

### ■ Main Data

- Four rope grab crane
- Bulk handling
- SWL up to 48 t in grab operation  
60 t in hook operation
- Outreach up to 36 m

### ■ Features and Benefits

- Maximum lifetime of components
- Single layer, high performance winches
- Side mounted, forward mounted cabin for increased visibility and safer operation
- Optional counterweight increases barge stability
- Optional excentre platform of up to 12 m



**Liebherr CBG 360  
with excentre platform**

# Liebherr MPG

The MPG double girder cranes from Liebherr combine speed, safety and economy. The double girder design of the MPG means that there is no need for a conventional luffing mechanism with additional ropes. This considerably reduces the grab swing during slewing motions in comparison to conventional slewing cranes. The Litronic system developed by Liebherr supports the crane operator with programmable travel markers and so increases productivity.

## ■ Main Data

- Double girder slewing crane
- Bulk handling
- SWL up to 45 t
- Outreach up to 46 m

## ■ Features and Benefits

- No need for a luffing mechanism
- Liebherr Collision Alert System
- The strategic positioning of the driver's cabin for a clear view of the loading area





# Liebherr Barge Slewing (LBS)

The Liebherr LBS floating crane concept is based on the successfully proven Liebherr mobile harbour cranes series. LBS cranes are specially developed for midstream operation. Where quay capacities are limited or even exhausted, is where our barge solutions are deployed. The LBS models are precisely tailored to meet individual requirements and manufactured according to a uniform design principle combined with purpose-built barges as customer specific solutions. If the water alongside the quay is too shallow, preventing ships of a particular size from landing, the LBS is applicable as a stopgap between ship and quay replacing investment in expensive quay walls and deep-draught berths.

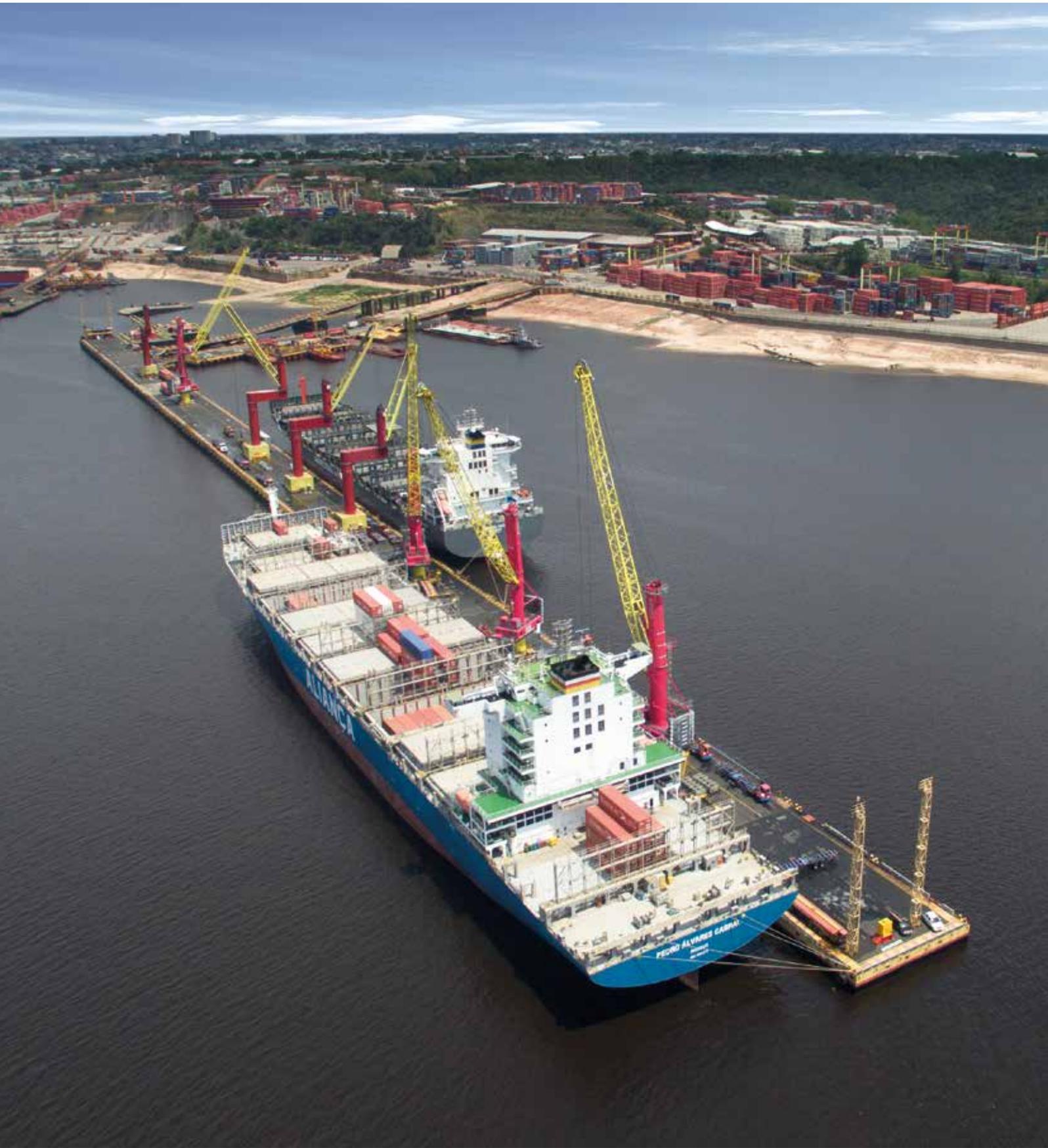
## Main Data

- LBS types: 550, 600, 800
- SWL up to: 150 t in hook operation  
75 t in grab operation  
50 t in spreader operation
- Outreach up to: 64 m

## Features and Benefits

- Flexibility to handle container, dry bulk, general cargo and heavy lift with just one crane
- Unreached visibility and safety across the whole working area due to outstanding operator cabin heights
- The winch gear is 100% stepless from 0 to 120 m/min perfect for smooth and sensitive operation
- Cyclotronic for pendulum-free loads and optimized container handling (optional)
- Liebherr Pactronic hybrid drive for up to 100% faster handling speeds (optional)





# Liebherr HS Series

Liebherr offers a range of duty cycle crawler cranes (HS series) for the handling of bulk materials. These flexible, high performance machines can be equipped with all common types of hydraulic or mechanic grabs and are suitable for operation either on shore or on board vessels in sheltered waters. As an alternative to driving the machine on board, the upper structure can be mounted directly onto a pedestal to remain permanently on the vessel. Furthermore, an optional telescopic operator's cab provides an unrestricted view of the hold.

## ■ Main Data

- SWL up to 300 t
- Outreach up to 68 m

## ■ Features and Benefits

- Robust design for the dynamic forces in dredging operation
- Sophisticated hydraulic system for low fuel consumption and high performance
- Two powerful winches
- Automatic adjustment of the rope speed for all working ranges
- Smooth and precise control system to ensure easy handling of the machine for short working cycles





# Customer Service



## Testing

Ship cranes go through an extensive testing programme. Prior to delivery all electrical and hydraulic installations undergo detailed examination. After assembly at the shipyard Liebherr service engineers conduct final adjustments of limit switches and proof the crane's functions through an overload test.

## Assembly

Crane parts are transported in maximum pieces and assembled and commissioned by a team of experienced engineers. In addition to training at Liebherr facilities prior to erection, Liebherr offers comprehensive on-site training covering all technical aspects of the crane, during and after installation.

## Training

Liebherr offers a range of flexible, high quality training solutions to fulfil specific customer training needs. Thereby, the main focus lies on creating a sustainable awareness for efficient and safe crane operations. In addition, it has always been Liebherr's philosophy to train customers' engineers in all aspects of crane maintenance, repair and operation. Where necessary, customer personnel are then able to ensure that crane downtime is reduced to a minimum.



### **Technical Service & Maintenance**

A team of more than 600 experienced, multi-skilled and factory-trained service engineers is based in more than 50 service centres around the globe. They are available ad hoc or on a contractual basis. The continuous expansion of our worldwide sales and service network is part of Liebherr's commitment to offer the maritime industry the best possible support.

### **Upgrades & Retrofits**

It might be required to upgrade cranes due to changes in the installation layout, changes in rules and regulations, operational requirements or just to extend the service life of an older crane. In consideration of new conditions Liebherr offers retrofits of existing drive systems and structural inspections.

### **Spare parts**

Every operational hour is vital if cranes are to function effectively. Liebherr original spare parts (OEM) and service staff are at our customers' disposal 24/7. Availability of components over the whole service life of the crane is guaranteed. Liebherr also recommends a steady supply of critical spare parts on-site. In combination with Liebherr training on technical specifics, this allows for minimal downtime of cranes.

# The Liebherr Group of Companies



## Wide Product Range

The Liebherr Group is one of the largest construction equipment manufacturers in the world. Liebherr's high-value products and services enjoy a high reputation in many other fields. The wide range includes domestic appliances, aerospace and transportation systems, machine tools and maritime cranes.

## Exceptional Customer Benefit

Every product line provides a complete range of models in many different versions. With both their technical excellence and acknowledged quality, Liebherr products offer a maximum of customer benefits in practical applications.

## State-of-the-art Technology

To provide consistent, top quality products, Liebherr attaches great importance to each product area, its components and core technologies. Important modules and components are developed and manufactured in-house, for instance the entire drive and control technology for construction equipment.

## Worldwide and Independent

Hans Liebherr founded the Liebherr family company in 1949. Since that time, the enterprise has steadily grown to a group of more than 130 companies with about 42,000 employees located on all continents. The corporate headquarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.

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