

YOUR WAVE OF SUCCESS

# Konecranes Gottwald Cranes on Barge





With Konecranes Gottwald Cranes on Barge, ports and terminals profit from proven mobile harbor crane technology



				Barge
			Barge design package	Barge design package
	Crane maritime classification	Crane maritime classification	Crane maritime classification	Crane maritime classification
Crane pedestal	Crane pedestal	Crane pedestal	Crane pedestal	Crane pedestal
Crane	Crane	Crane	Crane	Crane

Konecranes Gottwald Crane on Barge program

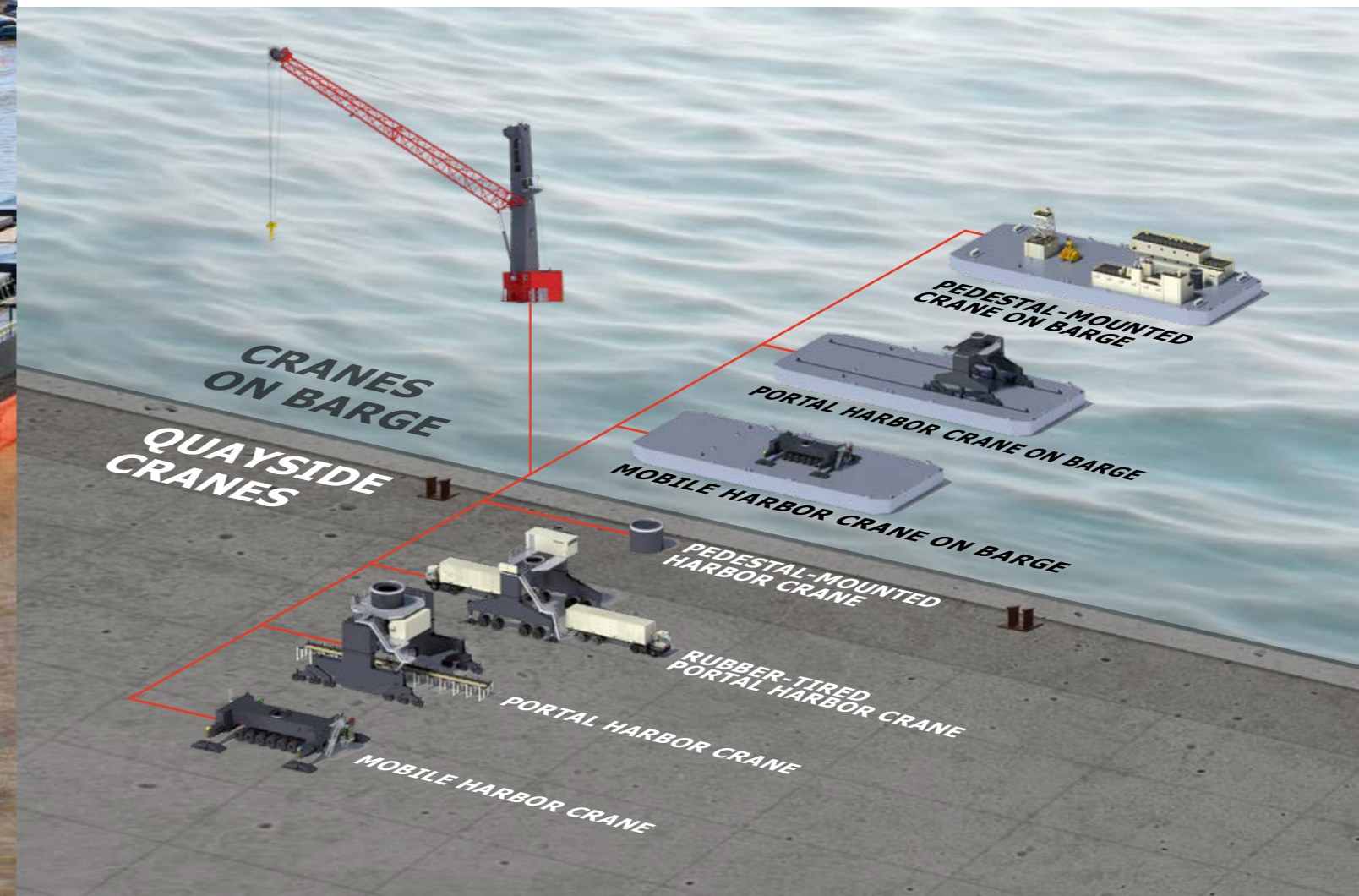
# The right crane for every site

As the industry's pioneer, Konecranes created modular cranes for quayside and waterways based on mobile harbor crane technology to suit a wide variety of applications in ports and terminals, mid-stream and on the open sea.

The greatest benefit of Konecranes Gottwald Cranes on Barge is that they offer flexible solutions for cargo handling on waterways or in ports where there are few quays or none at all, or where quay capacities have been exhausted.

Our Konecranes Gottwald Cranes on Barge come in these types:

- pedestal-mounted crane on barge
- rail-mounted portal harbor crane on barge
- tire-mounted mobile harbor crane on barge.





# Cargo handling on water

Konecranes Gottwald Cranes on Barge combine proven mobile harbor crane technology from the slew ring upwards with barges or pontoons. These solutions are oriented towards individual application conditions – these include vessel sizes, cargo types and required handling performance.

4-rope grab variants for continuous-duty bulk handling can achieve handling rates of up to 2,000 t/h depending on operating conditions and crane capacity. Since their market introduction in 2004, Konecranes Gottwald Cranes on Barge have been put to work in many different applications.

Konecranes Gottwald Cranes on Barge are used:

- in ports and sheltered waters
- on rivers, waterways and on the open sea
- for ship-to-ship cargo handling
- for ship-to-shore cargo handling.

For handling all types of cargo:

- bulk material (e.g. coal, ore, crops, fertilizers)
- containers
- general cargo.

## COMPELLING BENEFITS

- **Independent of land-based handling facilities**
- **Mobile travel from one site to another on water**
- **Low specific investment costs**
- **Rapid availability thanks to short delivery lead-times**
- **Ideal for short-term stevedoring projects**
- **Excellent resale value**

Flexibility in continuous-duty handling: ship-to-quay cargo handling where quay infrastructure is limited or where the water is too shallow



Mid-stream solutions: Konecranes Gottwald Cranes on Barge with 4-rope grab for ship-to-ship bulk handling



# For numerous applications

Konecranes Gottwald Cranes on Barge are extremely flexible in their applications and can be used anywhere on water, or as a back-up or replacement for quay cargo handling equipment.

- 1** For quays that do not provide sufficient capacity or where the water is too shallow
- 2** Bulk handling alongside floating docks
- 3** Ship-to-ship container handling
- 4** Ship-to-ship bulk handling on the open sea
- 5** Transshipment on inland waterways
- 6** Steel products handling on river
- 7** Quick and easy anchorage under own power, tug or pusher craft
- 8** Ship-to-shore bulk handling
- 9** Replacement of land-based equipment
- 10** Supplement to land-based machines





# For ship-to-shore cargo handling

On quays with restricted space, our cranes on barge can replace land-based handling equipment and load cargo directly from vessel to quay. In this way, cost-intensive modification of the infrastructure can be avoided.

At peak times, the cranes on barge can also be used to supplement existing cargo-handling equipment. Even in shallow water, they can be positioned without difficulty between vessel and quay, bridging any shallows. High investment costs for deep-draught berths and expensive quay walls can be avoided.

Konecranes Gottwald Cranes on Barge:

- replace land-based handling equipment
- support existing capacities and ease peak time pressure
- help to avoid investments in the quay infrastructure
- bridges gap between quay and vessel in shall-draught berths.

## In tune with each other – dockside application with a floating dock

Our cranes on barge can also be used alongside floating docks. Here, for example, they are handling bulk materials from ocean-going vessels. Konecranes Gottwald Cranes on Barge compensate for water level fluctuations, allowing straightforward operation of complete infrastructures with floating docks, hoppers and conveyor belts. This results in quick and efficient unloading.

## Functional and efficient – portal harbor cranes on barges

This type of crane on barge puts our portal crane concept on a barge. The barges have rails on which the crane can travel back and forth, thanks to its rail-mounted portal. This enables the crane to service several holds without warping the barge.



On floating docks, our pedestal-mounted cranes on barge ensure the transfer of bulk materials to a storage area on shore

Our portal harbor cranes on barge also work on the periphery for the handling of bulk cargo alongside Panamax vessels



Konecranes Gottwald pedestal-mounted Cranes on Barge performing ship-to-shore cargo handling alongside an ocean-going vessel



Konecranes Gottwald Cranes on Barge provide versatility to handle general cargo like steel coils



## For ship-to-ship cargo handling

For cargo handling operators on waterways which have little or no quay facilities or which do not permit them, Konecranes Gottwald Cranes on Barge are the right solution.

As they can also be used mid-stream, these cranes provide rapid ship-to-ship cargo handling. In this way, operators can deal successfully with rising freight volumes and increasing pressure on costs.

On the river, the cranes can handle a wide range of bulk cargo from large ocean-going vessels to inland waterway vessels or barges. For demanding, continuous-duty operation the cranes are designed with high classification.

### UNIQUE REWARDS

- A perfect mix of mobility and efficiency
- Flexible, fast response
- Low overheads and excellent fleet utilization thanks to their variable application options
- Ability to pass under most bridges with its boom lowered.

Several fleets of Konecranes Gottwald Cranes on Barge increase the capacity and handling performance of our customers. Cranes working mid-stream on the Mississippi where few quay facilities are available.





## Far out on the open sea

Konecranes Gottwald Cranes on Barge can be used far from the coast, where they load bulk cargo intended for export, such as coal or bauxite on barges being towed from inland sites to ocean-going vessels up to Capesize class.

Wind and swell make it necessary to adapt the design and construction of cranes operating on the open sea. These modifications may include a stronger boom or additional slewing gear units.

Konecranes Gottwald Cranes On Barge offer:

- improved capacity and handling rates
- efficient grab curves
- powerful capacity curves
- high crane duty classification.

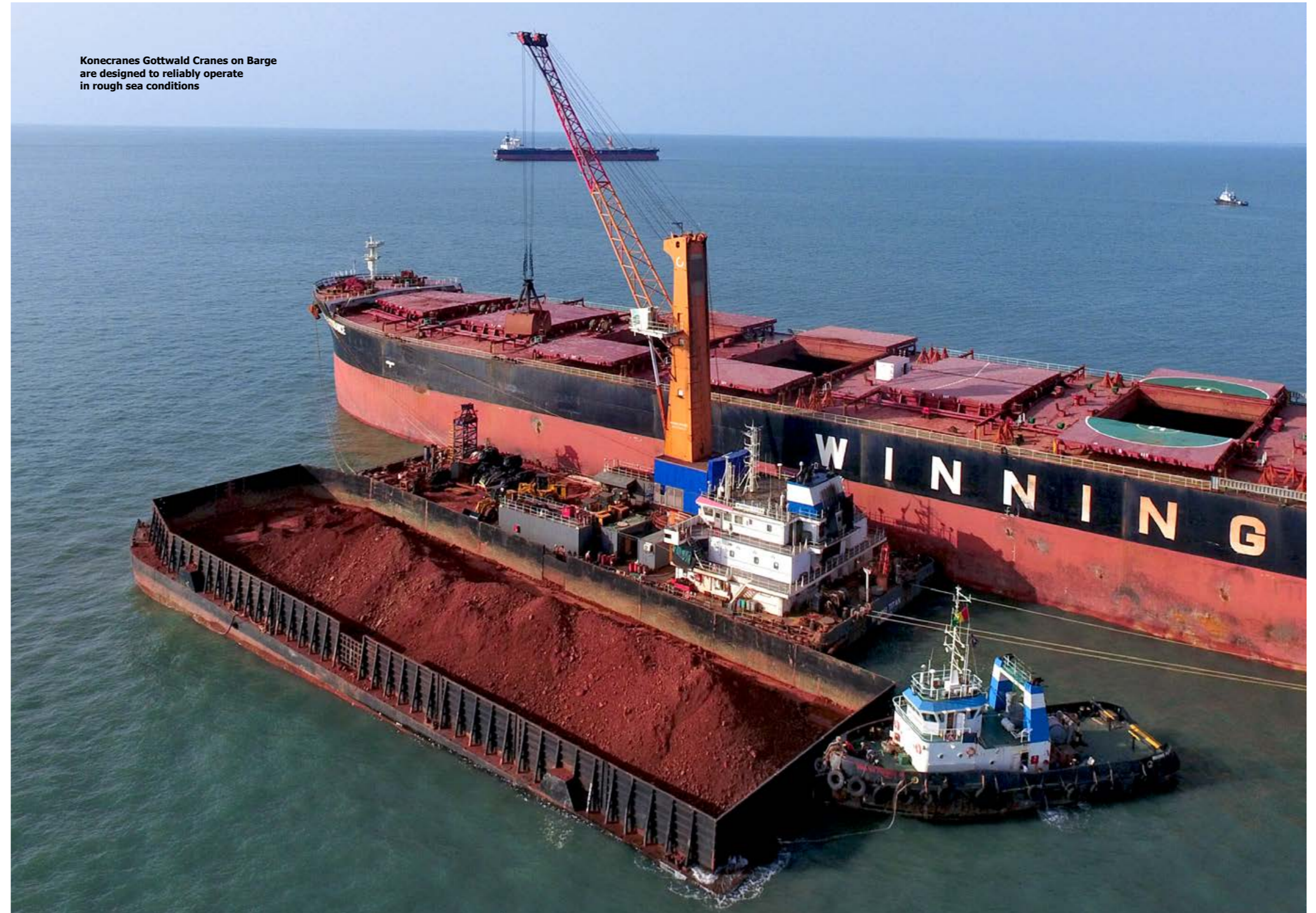


Konecranes Gottwald Crane on Barge handling cargo at sea off the coast of Kalimantan, Indonesia

### FOR ROUGH SEA CONDITIONS

Designed in accordance with Lloyd's Register Code for Lifting Appliances in a Marine Environment, allow the cranes to be operated at wind speeds up to 24 m/s and maximum wave heights of 2.5 m.

Konecranes Gottwald Cranes on Barge are designed to reliably operate in rough sea conditions







## Customized crane barges

We combine our crane know-how with the expertise of barge manufacturers. You can choose between new or used barges or, where appropriate, barges suitable for conversion.

The size and properties of the barges are designed to meet your specifications. According to requirements, the barges or pontoons also include:

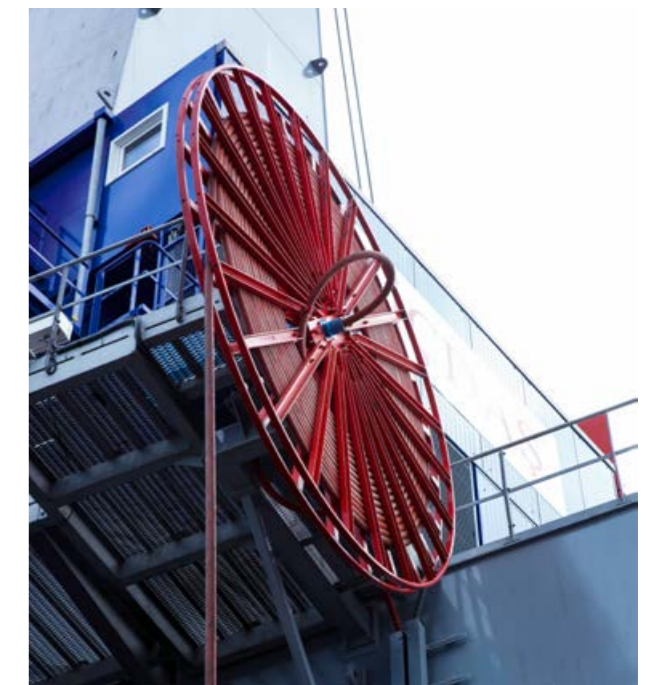
- a solution for self-propulsion
- accommodation for the crew.



High flexibility in barge design: for Konecranes Gottwald Cranes on Barge you can opt for new or existing barges or pontoons – we support you finding the right solution for your application.

### SPECIAL FEATURES

- The crane's slew ring can be mounted on a pedestal integrated in the barge.
- Special rests are provided on the barge for stowing lifting equipment safely.
- The barges are fitted with winch systems for warping the cranes alongside river and ocean-going vessels.
- Konecranes Gottwald Cranes on Barge are diesel-electrically powered.
- Thanks to the electric drive concept, cranes working on a quay wall can use external power straight from the local grid.



Advantages of external power supplies: increased eco-efficiency, reduced operating and maintenance costs and no local exhaust gases generated



# Smart and thus user-friendly

Konecranes Gottwald Cranes on Barge are packed with smart technology. This is why terminal operators can significantly improve productivity and also safety for both the crane operator and the machine.

## Ergonomic, top-of-the-range equipment

Our cranes on barge include user-friendly equipment and functions:

- comfortable, air-conditioned tower cab, with optional air-suspension seat for safe, comfortable work
- Visumatic® crane management system with clearly arranged graphic symbols for intuitive operator guidance
- a camera on the boom head for a close-up view of the work site via the monitor screen in the cab.

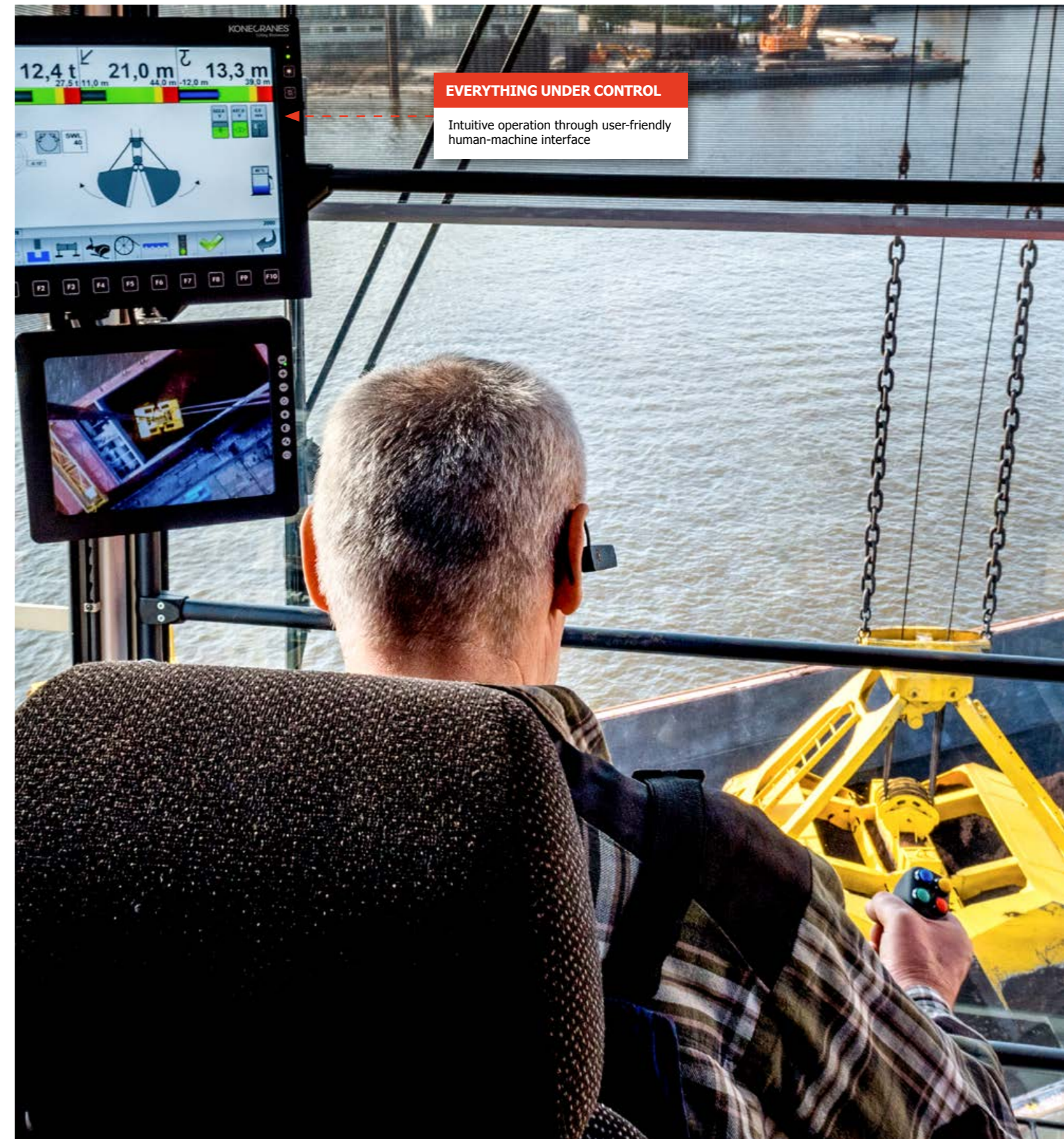
### MORE CONTROL – MORE EFFICIENCY

Many optional features enable operators to adapt their cranes on barge to the exact conditions of use. These features include:

- smart crane features to enhance productivity and safety
- web-based information and diagnostics system to record operating data and provide access to service data.

	Cargo			Benefits		
	Container	Bulk	General/ project cargo	Efficiency	Safety	Ergonomics
<b>Smart crane features</b>						
Load anti-sway	•	•	•	•	•	•
Semi-automatic point-to-point control	•	•	•	•	•	•
XY-path assistant	•	•	•	•	•	•
Hoisting-height assistant	•	•	•	•	•	•
Working-range assistants	•	•	•	•	•	•
Auto-adaptive grab control		•		•	•	
Cargo-hold totalizer		•		•	•	
Weighing system		•		•		
Web reporting	•	•	•	•	•	
Remote desktop	•	•	•	•	•	

For productive and safe cargo handling, Konecranes offers a variety of standard and optional smart crane features





## In the best hands

We have placed the highest value on ease of service and maintenance when engineering Konecranes Gottwald Cranes on Barge for you. Thanks to easily accessible maintenance points, our robust cargo-handling equipment is user-friendly. Our expertise is complemented by the use of components from globally renowned manufacturers.

### We maintain availability

We help to ensure that the availability and productivity of Konecranes Gottwald Cranes on Barge do not diminish. Our global service organization is close to customers in all time zones and language regions and offers maintenance and repair expertise combined with fast spare parts supply.

### We preserve your crane's value over many years

Because we build your Konecranes Gottwald Cranes on Barge and know them best, it goes without saying that we are the ideal partner for your crane throughout its entire life cycle. With our comprehensive Service portfolio, your crane remains state of the art, its service life increases and its value is preserved over many years and the crane.



All machinery and components in Konecranes Gottwald Cranes on Barge are easy to access

### OUR OFFERING

- Life cycle support
- Global service organization
- Fast provision of spare parts
- Retrofits and upgrades
- Crane operator training, also using a simulator, training programs for service staff.





**Konecranes is a world-leading group of Lifting Businesses™, serving a broad range of customers, including manufacturing and process industries, shipyards, ports and terminals. Konecranes provides productivity enhancing lifting solutions as well as services for lifting equipment of all makes. In 2018, Group sales totaled EUR 3.16 billion. The Group has 16,100 employees at 600 locations in 50 countries. Konecranes shares are listed on the Nasdaq Helsinki (symbol: KCR).**

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