

KONECRANES GOTTWALD FLOATING CRANES

YOUR WAVE OF SUCCESS



DERIVED FROM PROVEN MOBILE HARBOR CRANE TECHNOLOGY

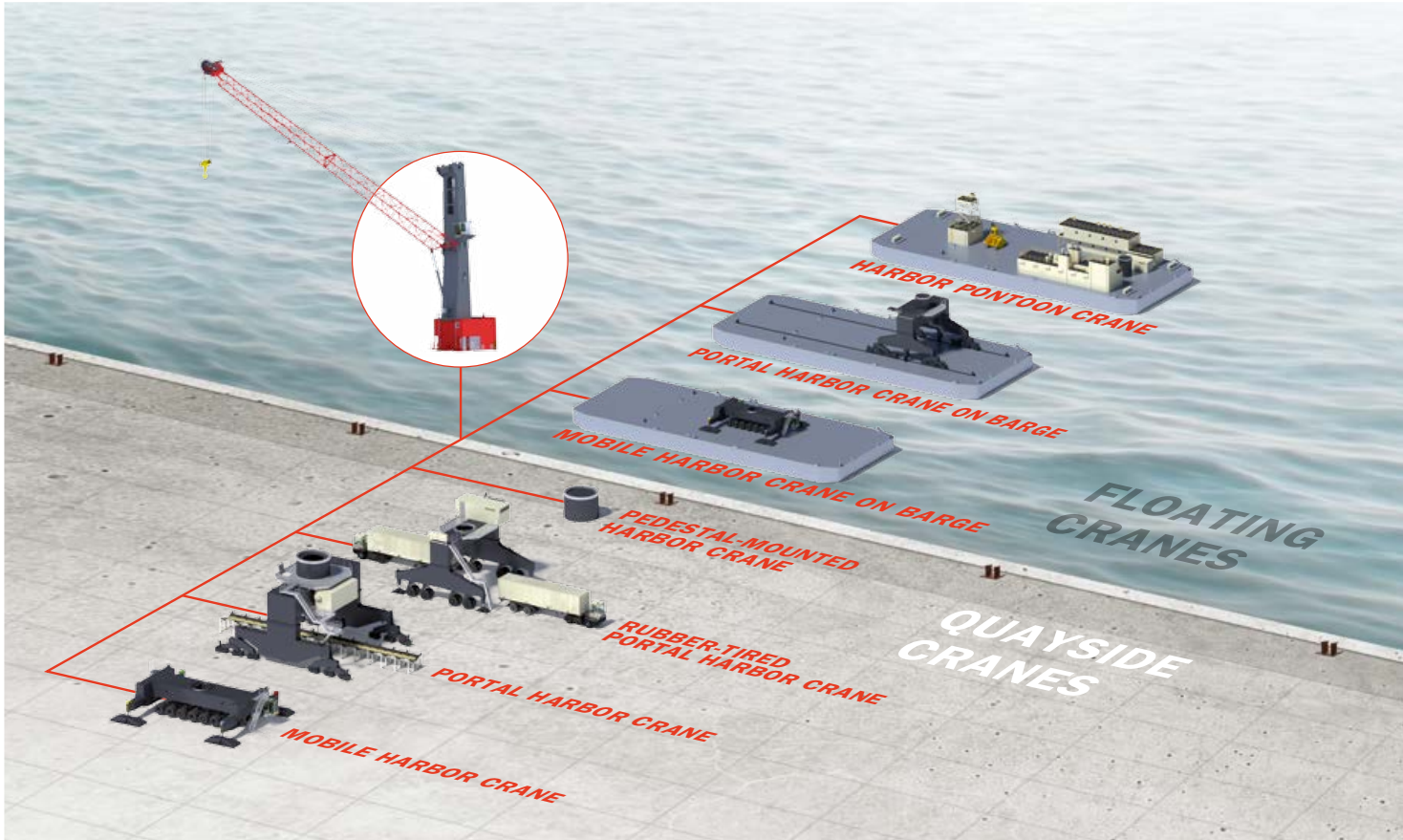
KONECRANES GOTTWALD FLOATING CRANES

As the industry’s pioneer, Konecranes has used the basis of its well-known mobile harbor crane technology to create different crane types to suit your needs. In addition to portal harbor cranes for quay facilities, these also include floating cranes for use in various applications on water.

Konecranes Gottwald Floating Cranes are available for all crane models and come in these variants:

- harbor pontoon cranes (the crane is mounted on the pedestal of a specially designed barge),
- portal harbor cranes on barges (the crane is mounted on and runs on rails on a specially designed barge).

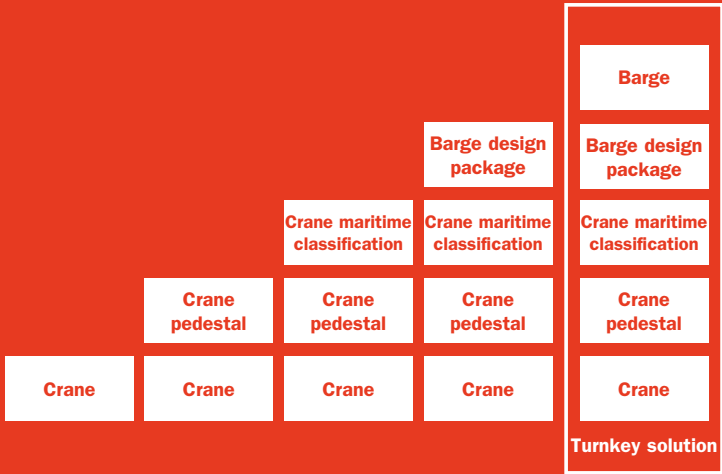
The benefit of these cranes is that they offer flexible solutions for cargo handling in harbors or on waterways where there are few quays or none at all or where quay capacities have been exhausted.



Konecranes Gottwald Mobile Harbor Cranes provide flexible solutions for any terminal environment

THE RIGHT PACKAGE FROM A SINGLE SOURCE

Our comprehensive floating crane programme ranges from the floating crane alone to complete turnkey project solutions.





Mid-stream solutions: Konecranes Gottwald Floating Crane in the four-rope grab variant in ship-to-ship bulk handling

FOR ALL SHIP SIZES, CARGO TYPES AND HANDLING RATE REQUIREMENTS

MEETS YOUR CHALLENGES

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

Four-rope grab variants for professional bulk cargo handling can achieve handling rates of up to 1,850 tph depending on operating conditions and crane capacity. Since their market introduction in 2004, Konecranes Gottwald Floating Cranes have been put to work in many different applications.

KONECRANES GOTTWALD FLOATING CRANES ARE USED FOR:

- ship-to-ship handling,
- ship-to-quay handling,

- on rivers (mid-stream operation),
- in ports and protected waters,
- in coastal waters and on the open sea.

FLOATING CRANES ARE SUITABLE FOR HANDLING:

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

MANY ADVANTAGES

- Independent of land-based handling facilities
- Mobile from one site to another on the water
- Low specific investment costs
- Rapid availability thanks to short delivery lead times
- Excellent resale value

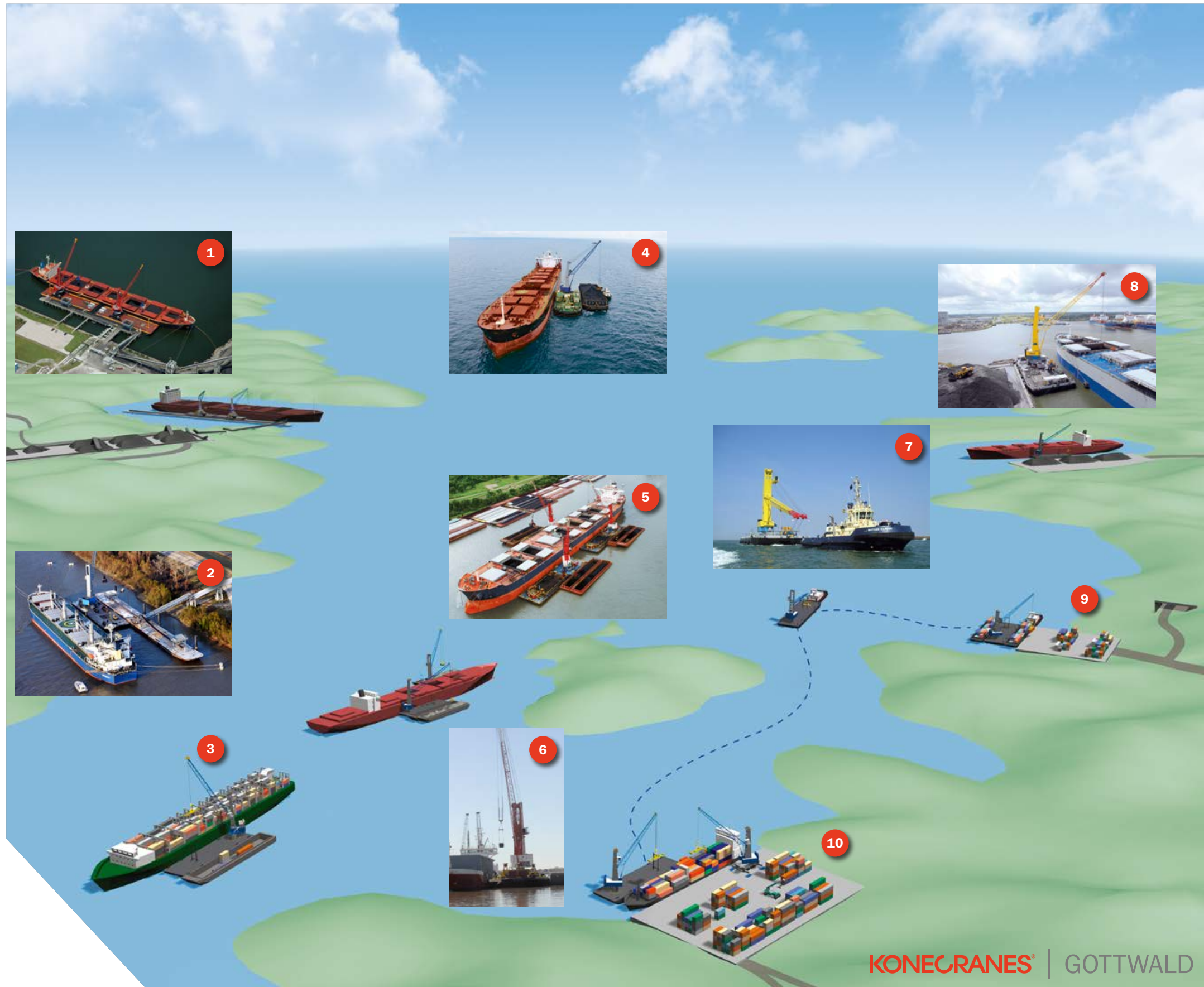


Flexibility in professional bulk handling: ship-to-quay handling where quay infrastructure is limited

KONECRANES GOTTWALD FLOATING CRANES

HIGHLY VERSATILE

- 1 Where construction projects for new quay facilities cannot be approved and where piers do not provide sufficient capacity for operating handling machines, portal harbor cranes on barges are the preferred solution
- 2 Floating cranes can handle bulk cargo alongside floating docks with hoppers and conveyor systems
- 3 Floating cranes can unload containers from ship to ship
- 4 Floating cranes can also be used alongside ships on the open sea
- 5 On rivers and other inland waterways, floating cranes are often used for ship-to-ship transshipment
- 6 As well as bulk materials and containers, floating cranes can also handle steel products
- 7 Floating cranes can change their anchorages quickly and easily, either under their own power or using a tug or pusher craft
- 8 Floating cranes can unload bulk materials directly from ship to shore
- 9 Floating cranes can completely replace land-based handling machines e.g. for container handling
- 10 Floating cranes are the ideal complement to land-based mobile and portal harbor cranes and can be used as back-up for machines that are currently unavailable



SHIP-TO-SHORE AND MORE

EXCEPTIONAL FLEXIBLE HANDLING

Konecranes Gottwald Floating Cranes are extremely flexible in their applications and can be used anywhere on the water.

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

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

KONECRANES GOTTWALD FLOATING CRANES:

- replace land-based handling equipment,
- support existing capacities and ease peak time pressure,
- bridge shallow waters,
- help to avoid investments in the quay infrastructure.

IN TUNE WITH EACH OTHER –

DOCKSIDE APPLICATION WITH A FLOATING DOCK

Our harbor pontoon cranes can also be used alongside floating docks. Here, for example, they are handling bulk materials from ocean-going ships. The floating cranes 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 floating crane puts our portal crane concept on a barge. The barges have rails on which the crane can travel to and fro, thanks to its rail-mounted portal. This enables the crane to service several holds without warping the barge.



On floating docks, our harbor pontoon cranes allow the transfer of bulk materials to a storage area on shore



Our portal harbor cranes on barges also work on the periphery for the handling of bulk cargoes alongside Panamax ships



Konecranes Gottwald Harbor Pontoon Crane performing ship-to-shore handling alongside an ocean-going ship in the Port of Amsterdam, the Netherlands

Konecranes Gottwald Floating Cranes also provides versatility to handle general cargo like steel coils

SHIP-TO-SHIP HANDLING

NO QUAYS? NO PROBLEM!

For cargo handling enterprises on waterways which have little or no quay facilities or which do not permit them, Konecranes Gottwald Floating Cranes 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 ships to inland waterway, vessels or barges. For demanding, continuous operation the cranes are designed as a four-rope variant with high classification.

KONECRANES GOTTWALD FLOATING CRANES MAKE IT POSSIBLE:

- 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 Floating Cranes mid-stream increase the capacity and handling performance of our customers, for example on the Mississippi River, where there are very few quay facilities

BULK HANDLING OVER 30 KILOMETERS OFF THE COAST

EVEN FAR OUT ON THE OPEN SEA

Konecranes Gottwald Floating Cranes can be used far from the coast, where they load bulk cargo intended for export, such as coal towed on barges from inland ports, on to ocean-going ships 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 Floating Cranes can work at wind speeds of up to 24 m/s and wave heights of up to 2.5 m.

KONECRANES GOTTWALD FLOATING CRANES OFFER:

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



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



Konecranes Gottwald Floating Cranes are designed to operate also in rough sea conditions

LOYDS CERTIFICATION

In order to operate Konecranes Gottwald Floating Cranes on the open sea, the whole design is comprehensively examined by Lloyds Register for seaworthiness. If requested by our customers, the crane can be certified with a maritime classification.

KONECRANES GOTTWALD FLOATING CRANES

THE RIGHT SOLUTION

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. On request, we can also act as general contractor.

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

- a fuel tank for self-propulsion,
- accommodation for the crew.

- 1

The slew ring of the harbor pontoon crane is mounted on a cylindrical pedestal integrated in the barge.
- 2

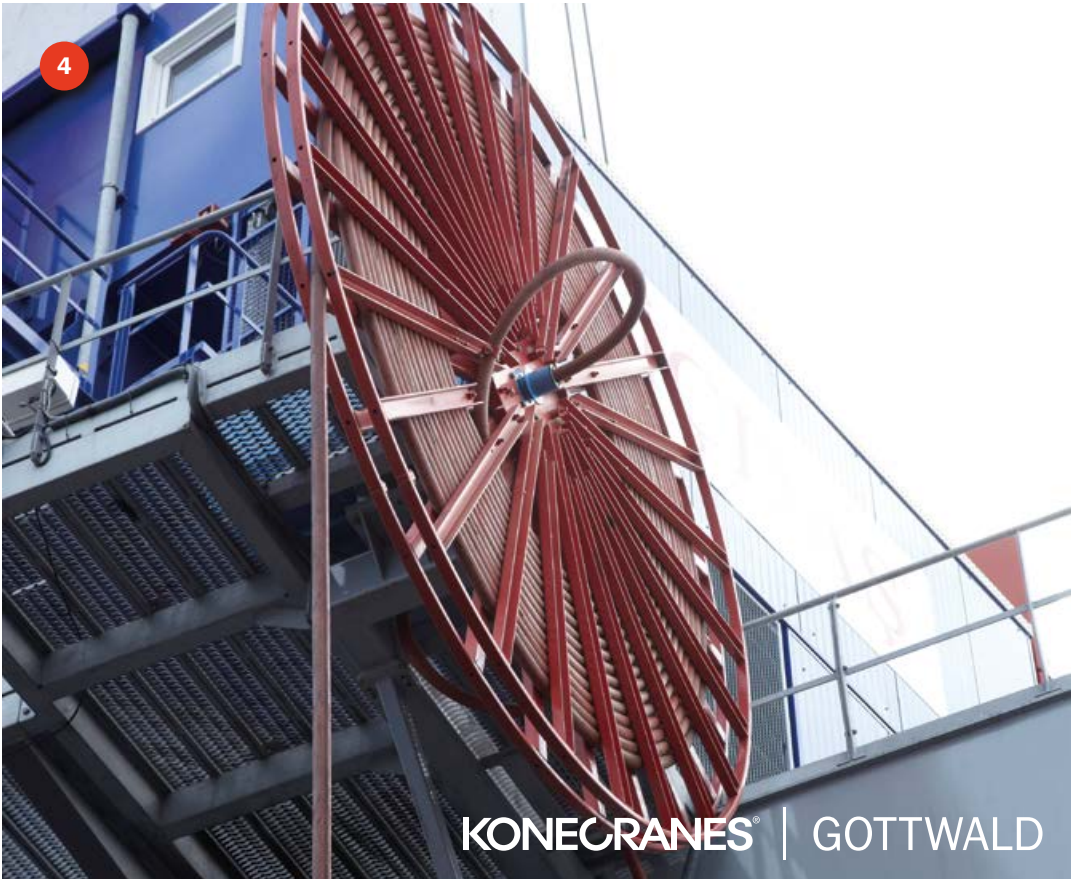
Special rests are provided on the barge for the secure positioning of lifting equipment such as grabs and hook cross beams.
- 3

The barges are fitted with winch systems for warping the cranes alongside river and ocean-going ships.
- 4

Konecranes Gottwald Floating Cranes are diesel-electric powered. When the cranes are working on a quay, the electric drive concept also allows the direct use of external power from the local mains supply. Advantages: increased efficiency, reduced operating and maintenance costs and the avoidance of locally produced exhaust gases.



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



KONECRANES GOTTWALD FLOATING CRANES

SMART, USER-FRIENDLY, SAFE

The floating crane is packed with smart technology. Konecranes focuses on safety and productivity for both the machine and the crane driver.

AS STANDARD: ERGONOMIC, TOP-OF-THE-RANGE EQUIPMENT

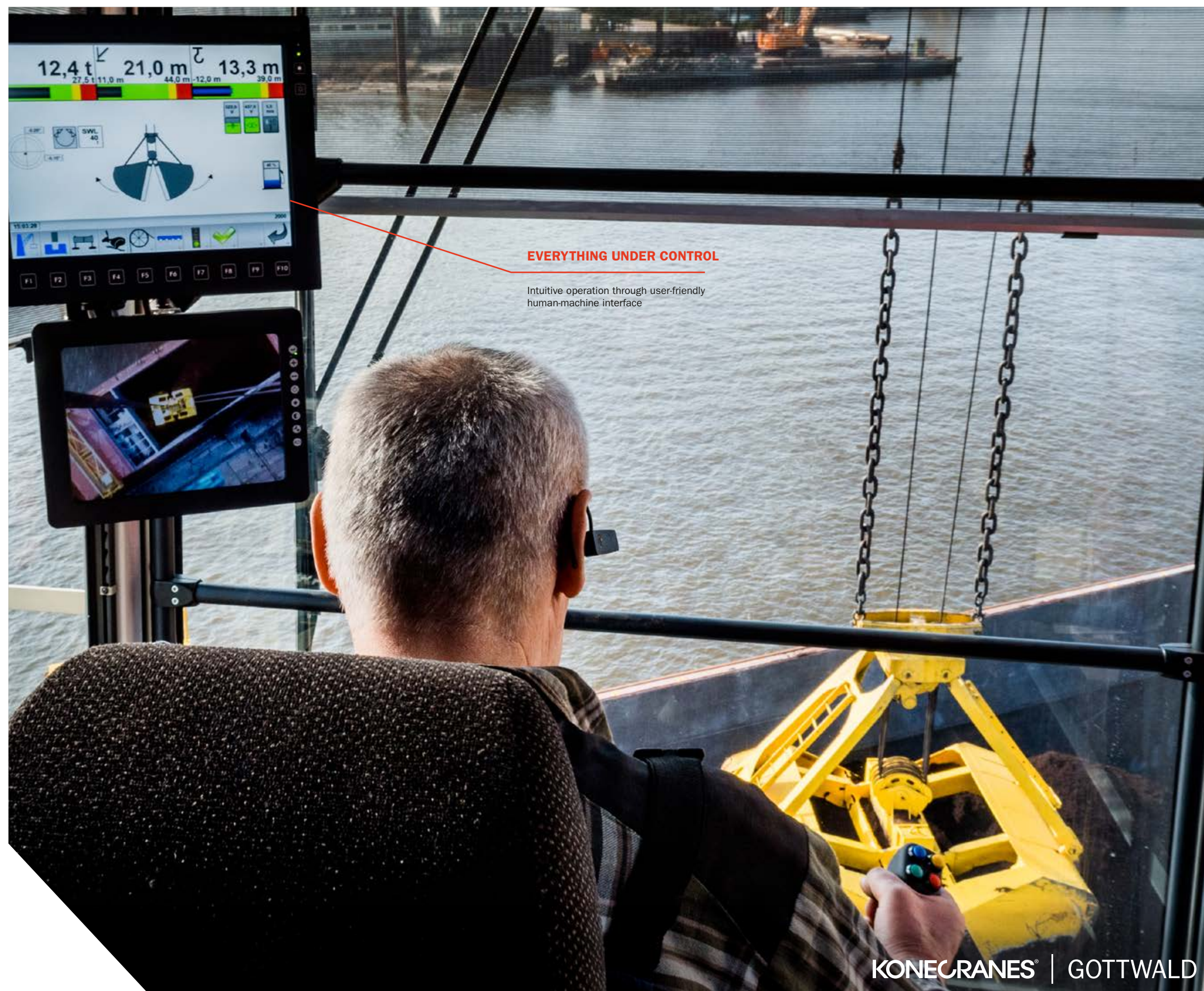
The floating crane includes user-friendly functions:

- 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,
- camera on the boom tip for a close-up view of the work site via the monitor screen in the cab,
- ergonomically designed stairways with an inclination of 50° for comfortable, easy access to tower cab, machinery rooms and service points.

MORE CONTROL – MORE EFFICIENCY

Many optional features enable customers to adapt their Konecranes Gottwald Floating Crane to the exact conditions of use, these features include:

- automatic point-to-point handling mode to provide efficient support for repetitive load moves,
- vertical lift assistant to stop the load swinging after being raised and prevent horizontal loads on the boom,
- tandem lift assistant permits use of full lifting capacities and control of two cranes by only one operator,
- grab fill level control to reduce overload cut-outs and to improve the bulk handling performance,
- hold totalization feature for register and record bulk handling rates per hold and in total,
- web-based information and diagnostics system to record operating data and provide access to service data.



EVERYTHING UNDER CONTROL

Intuitive operation through user-friendly human-machine interface

YOUR FLOATING CRANE IS IN THE BEST HANDS WITH US

COMPREHENSIVE SERVICE

During the development of our Konecranes Gottwald Floating Cranes and their variants we were already thinking about ease of maintenance. The robust machines are user-friendly thanks to easily accessible maintenance points. Our expertise is complemented by the use of components from globally renowned manufacturers.

WE MAINTAIN AVAILABILITY

We contribute to maintaining the availability of your Konecranes Gottwald Floating Crane. Our global service organization is local to you in all time zones, and offers you expertise in maintenance and repair in combination with fast delivery of spare parts.

WE KEEP THE VALUE OVER MANY YEARS


We are the right choice to provide support for your Konecranes Gottwald Floating Crane because we built it and therefore know it best. With our comprehensive service portfolio, your crane remains state of the art, its service life increases and it maintains its value over many years.



This publication is for general informational purposes only. Konecranes reserves the right at any time, without notice, to alter or discontinue the products and/or specifications referenced herein. This publication creates no warranty on the part of Konecranes, express or implied, including but not limited to any implied warranty or merchantability or fitness for a particular purpose.



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. The Group has 18,000 employees at 600 locations in 50 countries. Konecranes is listed on Nasdaq Helsinki (symbol: KCR).

© 2017 Konecranes. All rights reserved. 'Konecranes', 'Lifting Businesses' and  are either registered trademarks or trademarks of Konecranes.



konecranes.com