

# Harbour Crane Upgrades



Puts Control into your Hands  
**Radio Remote Control for Harbour Cranes**

# Cut Costs and Reduce Manpower

## Radio Remote Control System for Harbour Cranes

### Upgrades Are a Key Aspect of the Gottwald Service Portfolio

Having sold some 1,300 crane units, Gottwald is the world's No.1 in the field of Mobile Harbour Cranes. In operation for many decades, Gottwald cranes have proved to be highly reliable and economical.

To ensure that reliability and cost-efficiency are guaranteed throughout the cranes' service life and to adapt them to meet current and future technical and commercial demands, more and more customers are applying upgrades.

### Remote Control System

Gottwald Port Technology offers a radio remote control (RRC) system for all crane functions. This RRC system can be retrofitted to all types of Gottwald Harbour Cranes of the '2000 generation' or higher as well as to Gottwald WSG Wide Span Gantries.

### Retrofitting

Retrofitting requires the installation of some hardware modules consisting of the following components:

- control unit of the RRC system
- transmitter / receiver
- antenna
- battery charger.

A change to the crane software is also required, unless the crane is built in 2005 or later.

### Travelling and Positioning

Remote control puts a number of benefits straight into the hands of crane owners. For example, the operator of an HMK can travel the crane simply and safely while walking along beside it – instead of doing so from the cab 20 metres or more above the ground.

This is of particular advantage when positioning a crane on a relatively narrow quay.

Travelling and controlling an HMK 170 EG via Gottwald's remote control system on a very narrow quay at Sapec, Portugal



### Simplified Handling

The RRC system also ensures simplified, rapid handling when changing lifting gear. It is also a valuable aid during maintenance and repair work to avoid communication errors between the crane operator and ground crew.

### Control Unit:

- Handy, durable and weather-proof design
- Low weight (approx. 3 kg)
- LCDs use the same symbols as in the tower cab
- No need for additional training



### Core Component

The core component in the RRC system is the durable, weather-proof, ergonomically designed control unit. This unit enables all the crane functions to be carried out from ground level easily and safely. The LCDs use the same symbols as those used in



the tower cab, which makes using the control unit simple and intuitive.

### Licence-Free Frequencies and Safe Transmission

The RRC system is based on the DECT radio standard and makes use worldwide of licence-free frequencies. The built-in encoding system ensures that each unit only communicates with the crane to which it is assigned. This prevents crane malfunctions even when several cranes are being remotely controlled within a single port or terminal.

### With the Remote Control System, Customers Benefit from:

- Remote control for all crane functions
- Easy crane travel and positioning from ground position
- Quick lifting gear change
- No risk of miscommunication between crane operator and ground staff
- Significant time savings when a WSG only needs to lift a single container

### A Powerful Addition

The RRC system is a powerful addition to any Gottwald crane – with or without an additional driver cab on the crane's chassis or superstructure.

It makes work easier, ensures a higher degree of safety and economy of use and, in the end, it helps crane operators facing increasing productivity demands to remain competitive.



Using the remote control system at ground level, the crane operator can move the crane carefully and position it accurately



Repositioning an HMK 170 E by means of the Gottwald remote control system over a distance of 4 km at Port Autonome du Havre, France



Thanks to the remote control system, the time-consuming climb to the cab of a WSG can be avoided when only a single container needs to be handled



# Comprehensive Service from Gottwald

Rich in Ideas, Innovative, Responsive and Flexible

As the world's leading manufacturer of Mobile Harbour Cranes, Gottwald prides itself on providing skilled and capable service. To ensure that the full scope of customer requirements is met, Gottwald constantly reviews its comprehensive service portfolio and updates its customer support accordingly.

Currently, after-sales support includes field service, troubleshooting, spare parts, maintenance agreements, 24-hour call-up, documentation and crane personnel training.

Gottwald is supported by a world-wide network of Regional Service Stations, providing excellent technical skills and a good command of the respective local language, paving

the way for smooth communication. Within the context of its highly customer-driven service strategy, Gottwald has developed a wide range of upgrades.

## Upgrades for Harbour Cranes

- Diesel engine
- Diesel generator unit (Powerpack)
- Controller system from S5 to S7
- External power supply
- Slot PLC
- Radio remote control system

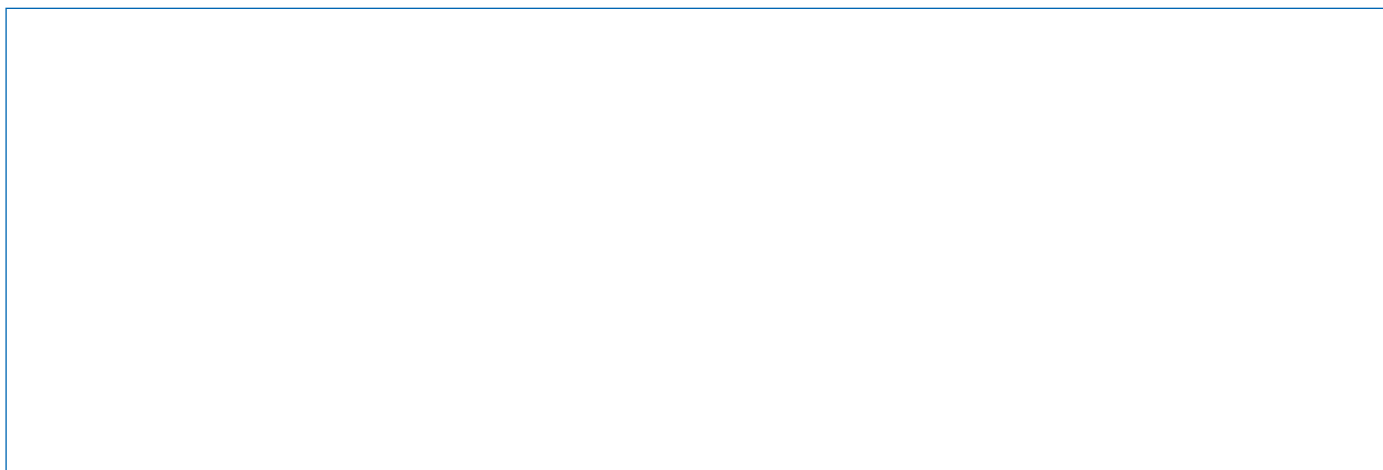


## Crane Transport

Apart from these upgrades, Gottwald also arranges crane transport for both new and used cranes.

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## Regional Service Station



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