

**Agribulk**



## Moving Mountains **Harbour Cranes for Handling Agribulk**

# Leading the Way in Handling Agribulk

## Gottwald Port Technology Harbour Cranes

In the context of global foodstuff supply, cereals, soya flour and sugar are handled in the same way as other agribulk products such as seed, fertiliser and animal feed.

To ensure punctual delivery of agribulk products to buyers around the world, terminal operators must be able to depend on the handling equipment they use. This equipment must demonstrate an outstanding degree of mobility, versatility and flexibility in terms of the lifting gear that can be fitted, thus guaranteeing high handling rates.

### Gottwald Has the Right Solutions

The demands of terminal operators are well met by Gottwald:

- HMK Mobile Harbour Cranes
- HSK Portal Harbour Cranes
- HPK Harbour Pontoon Cranes

The success of these three crane types speaks for itself. They are in operation in special and multipurpose terminals of sea, river and canal ports around the world and discharge agribulk in a flexible, rapid and safe manner.

Gottwald Harbour Cranes are highly versatile and are used for handling containers, general cargo and bulk materials including agribulk such as:

- grain
- soya flour
- sugar
- rice
- maize
- seed
- animal feed
- fertiliser



HMK 300 EG handling fertiliser at Adani Port, India

### The Advantages of Gottwald Harbour Cranes:

- diesel-electric operation – power generated in the crane itself
- operation using external power supply with on-board diesel-generator set being bypassed
- high lifting capacities and handling rates
- wide working radii for good access to ship and stackyard
- easy crane travel with high manoeuvrability
- rapid change of lifting gear
- low specific investment costs
- service-friendly design
- short delivery lead times
- high resale values

HMK 260 EG discharging fertiliser into a mobile hopper at Humber International Terminal in Immingham, UK



**HSK 260 EG discharging soya flour into a rail-mounted hopper in Bordeaux, France**



**For Special Requirements:  
HSK Portal Harbour Cranes**

With a full range of rail-mounted HSK Portal Harbour Cranes, Gottwald offers a solution for handling agri-bulk in the tight confines of narrow quays.

HSK cranes use the same proven technology as the tyre-mounted HMK Mobile Harbour Cranes. Further parameters for determining the portal are the track gauge and height of the portal which depend on the conveyor belts or truck and rail operation. These factors must be taken into consideration to allow railway trains or trucks to pass underneath.

**More than Just Efficient  
Handling Equipment**

Gottwald's portfolio goes far beyond the supply of modern handling equipment. The company plans and optimises entire ports and terminals. Using computer modelling techniques, Gottwald's engineers can accurately predict the behaviour of handling equipment and the flow of materials when a project is still only in the planning stage.



**Portal of a Gottwald HSK Portal Harbour Crane using an external power source**

**Perfectly integrated into the transport chain of industry close to the terminal:  
Gottwald HMK 170 EG handling fertiliser with hopper and conveyor belt at SAPEC, Portugal**



Pontoon-mounted HPK 330 EG  
for mid-stream operations at the  
Port of South-Louisiana, USA



**Direct Transloading from  
Ship to River Barges:  
HPK Harbour Pontoon Crane**

For direct transloading of agribulk and other goods from large vessels to river barges, Gottwald Port Technology has developed the HPK Harbour Pontoon Crane.

The HPK fullfills special requirements of customers and uses the same proven technologies as the Gottwald HMK Mobile Harbour Cranes – the only difference: it is mounted to a pontoon.

**HPK 330 EG handling fertiliser  
at St. James Stevedoring Company, USA**



Gottwald Harbour Cranes fitted with 4-rope grab handling fertiliser (top) and soya flour (bottom).



# A Gripping Handling Performance

## Gottwald Harbour Cranes for Agribulk

There are good reasons why many terminal operators around the world choose Gottwald Harbour Cranes for handling all types of agribulk.

### State-of-the-art Technology

Harbour Cranes from Gottwald Port Technology are tuned to state-of-the-art technology and operate on diesel-electric or on-shore mains power.

The diesel-generator set in the crane itself supplies sufficient power to allow all crane functions to be carried out independently of one another at maximum speed, enabling high handling rates.

An external power source for crane operation has its additional benefits:

- lower operating and maintenance costs
- particularly environmentally-friendly crane operation

### Lifting Gear

For fast handling of agribulk, Gottwald Port Technology offers its Harbour Cranes with 4-rope grab or as a 2-rope version with motor grab.



HMK 300 EG handling fertiliser at Ership, Huelva, Spain

### High Handling Rates

The use of Gottwald 4-rope grab cranes for robust continuous operation in handling diverse agribulk guarantees particularly high handling rates of up to 1,500 tph.

### Wide Working Radii

Thanks to the wide working radii, the long distance between the ship or vessel and the stackyard can be bridged. The cab mounted high on the tower affords an optimal view of the entire work area.



The diesel-generator set in the crane itself

External power supply from on-shore mains source



Gottwald Harbour Cranes can be operated on diesel-electric power or from an external power source

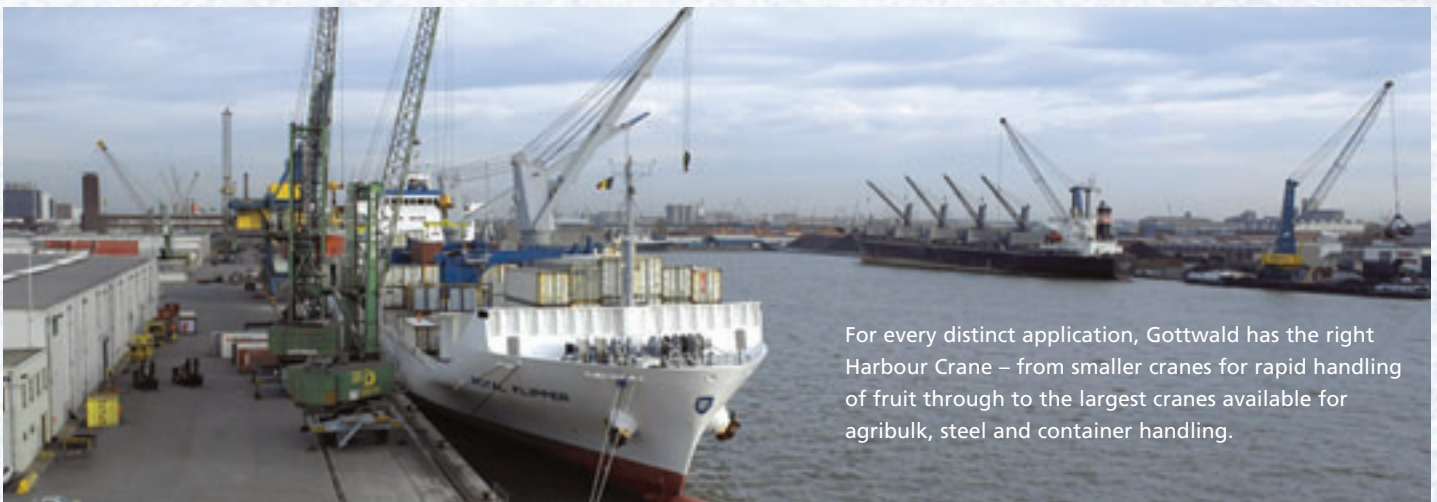
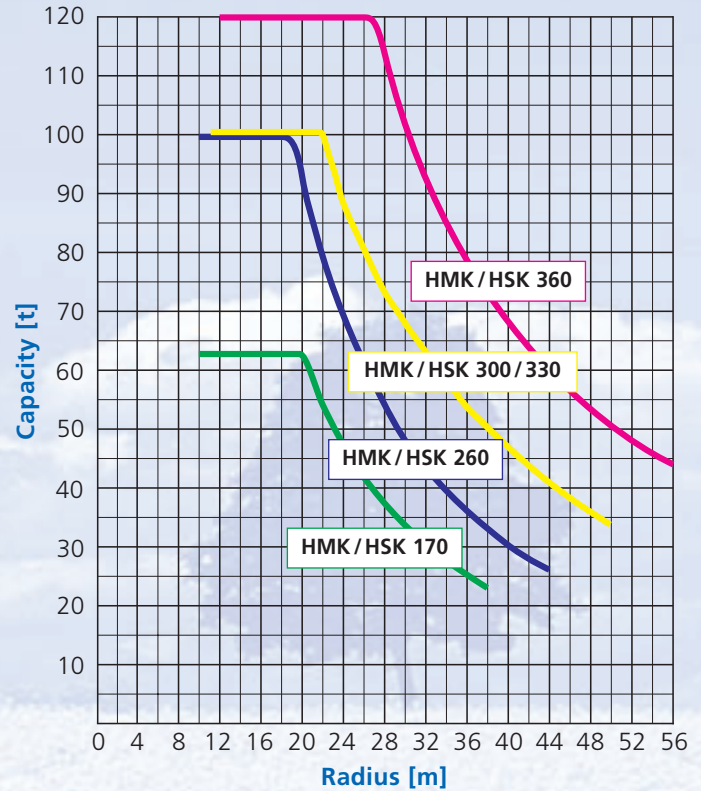
# High-Performance Agribulk Handling

## Gottwald Harbour Crane Technology

Crane type	Grab type	Max. handling rate [tph]	Lifting capacity [t] / up to max. radius [m]	
			Classification according to FEM 1.001 A7	A8
HMK / HSK 170 E	Motor	650	32 / 25	25 / 29
HMK / HSK 170 EG	4-rope	750	32 / 25	25 / 29
HMK / HSK 260 E	Motor	800	40 / 31	34 / 30
HMK / HSK 260 EG	4-rope	1,000	40 / 31	34 / 30
HMK / HSK 330 E	Motor	850	50 / 31	40 / 32
HMK / HSK 330 EG	4-rope	1,200	50 / 31	40 / 32
HMK / HSK 360 E	Motor	900	50 / 44	–
HMK / HSK 360 EG	4-rope	1,500	–	50 / 44

HPK Harbour Pontoon Crane data on request

For high-speed, economic agribulk handling, Gottwald offers a series of Harbour Cranes of various performance categories. The lifting capacities, working radii and the working speeds of Gottwald Harbour Cranes undergo continuous review and development to meet the standards of state-of-the-art technology and customer requirements.



For every distinct application, Gottwald has the right Harbour Crane – from smaller cranes for rapid handling of fruit through to the largest cranes available for agribulk, steel and container handling.

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