



# Eurogate

*Intermodal Cranes*

**kühz**

Kuenz provides high efficiency and coordinated operations.

## Eurogate is convinced by Kuenz quality

Christof Ricke, Project Manager Lifting Equipment Eurogate Hamburg:

*„The good experience gained with the operation of the first four RMGs (supplied in 2002) was a key issue for the further cooperation with Kuenz for the Eurokombi expansion project in Hamburg. Kuenz convinced again with experienced project management and the perfect quality of the cranes.“*



The rail terminal Bremerhaven



Rotating travelling gear by Kuenz

### Smooth connections to the European hinterland

EUROGATE is Europe's leading shipping line-independent container terminal operator. Together with their sister company Contship Italia, the container terminal group operates sea terminals on the North Sea, in the Mediterranean region, as well as on the Atlantic, with excellent connections to the European hinterland. At eleven terminal locations 14.6 Million TEU are handled per year. Three of the German locations, Hamburg, Bremerhaven and Wilhelmshaven, are equipped with a total of fifteen Kuenz container cranes.

At the container terminal Hamburg, with a size of 1.4 Mio m<sup>2</sup> and a annual handling of 4.1 Mio TEU, eight Kuenz Intermodal cranes were commissioned to provide efficient operation

Four Kuenz Cranes guarantee the highest level of cont-

tainer handling at Eurogates largest terminal in Bremerhaven, with a size of 2.9 million m<sup>2</sup> big and a annual handling capacity of 7 million TEU.

At the Wilhelmshaven terminal, which includes an area of 1.3 Mio m<sup>2</sup> and a 2.7 million TEU handling capacity per year, three Kuenz Intermodal Cranes allow for high productivity.

### Technical Data for the Intermodal Cranes

The rail mounted container gantry cranes are designed as two-girder bridge. The steel construction of the gantry consists of the hinged post, the fixed post and the main girders with suspension. The hoisting rope reeving for the container hoisting gear is executed as a rigid rope-tower. This system enables swing-free travel in gantry and trolley direction, as well as with the slewing gear. This guarantees efficient handling.

### Rotating travelling gear - Patented Technology

The wear of the wheel flanges reduces the lifetime of the wheels. Off-track running of the wheels causes this wear. Tolerances and temperature changes affect the amount of wear caused by off-track running. The patented Kuenz solution allows for swiveling of the travel unit in a horizontal direction to compensate for any inclination of the travel unit. This allows for all wheels to run on the track. Stabilizers on both sides of the travel unit make it possible for optimized transmission of the forces to the steel structure.

This solution enables a major wear-reduction of the wheel flanges, which translates to a significant increase in the lifetime of the wheels.

Lutz Werner,  
Project Engineer Eurogate Bremerhaven:

*„The good experience gained by our colleagues in Hamburg was a key issue for the decision in working together with Kuenz. Kuenz confirmed the Hamburg experience with a well established project management and the perfect quality of the cranes also for the Bremerhaven project.“*



# Technical information on the cranes.

## Terminal Hamburg: 7 RMG

**Year of installation: 2002 / 2007 / 2009**

Capacity	41 t
Track width	38.25 m
Cantilever fixed column	15.5 m
Cantilever hinged column	14.25 m
Lifting height	13.6 m / 12.5 m

### Working speeds:

Hoist's rated load	0 - 20 m/min
Hoist with partial load	0 - 40 m/min
Gantry drive	0 - 120 m/min
Trolley drive	0 - 120 m/min
Slewing	0 - 2 rpm

### Power:

Main hoist	220 kW / 60%ED
Gantry drive	24 x 18 kW / 100%ED
Trolley drive	4 x 36 kW / 100%ED
Slewing mechanism	2 x 7 kW / 100%ED

## Terminal Wilhelmshaven: 3 RMG

**Year of installation: 2012**

Capacity	41 t
Track width	33.2 m
Cantilever fixed column	16 m
Cantilever hinged column	9 m
Lifting height	13.8 m

### Working speeds:

Hoist's rated load	0 - 20 m/min
Hoist with partial load	0 - 40 m/min
Gantry drive	0 - 120 m/min
Trolley drive	0 - 150 m/min
Slewing	0 - 2 rpm

### Power:

Main hoist	220 kW / 60%ED
Gantry drive	20 x 22 kW / 100%ED
Trolley drive	4 x 36 kW / 100%ED
Slewing mechanism	2 x 7 kW / 60%ED

## Terminal Bremerhaven: 4 RMG

**Year of installation: 2008 / 2009**

Capacity	41 t
Track width	32.4 m
Cantilever fixed column	17 m
Cantilever hinged column	5 m
Lifting height	13.8 m

### Working speeds:

Hoist's rated load	0 - 20 m/min
Hoist with partial load	0 - 40 m/min
Gantry drive	0 - 120 m/min
Trolley drive	0 - 120 m/min
Slewing	0 - 2 rpm

### Power:

Main hoist	200 kW / 60%ED
Gantry drive	24 x 18 kW / 100%ED
Trolley drive	4 x 36 kW / 100%ED
Slewing mechanism	2 x 7 kW / 100%ED

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