



**GANTREX**<sup>®</sup>  
RailLok<sup>™</sup>

## Clips & Pads for runways of Ship-to-Shore cranes in ports

### INNOVATIVE DRIVE FOR THE NEXT GENERATION PORTS

In the last 25 years the size of the largest container ships has nearly tripled, to now reach the capacity of 20,000 TEUs. If not already done or underway, terminals must adapt the size of their cranes to the size of the ships, by offering more productive, cost-effective, faster and higher equipment with longer booms.

The **latest generations** of cranes are more susceptible to vibration and oscillation and generate the need for increased stability of the rail support (clips and pad), an issue too difficult to sustainably resolve by the past technology of soft-mounted fixing devices. **RailLok<sup>™</sup>** clips and pads are the new generation of **crane rail fixings** engineered by GANTREX to address the problems caused by the new generation of STS cranes.



### THEY INCORPORATE THE LATEST INNOVATIONS OF IN-HOUSE R&D

#### FOR CLIPS

- additional wedge (Gantrex patent of second wedge design and inclined bolt)
- bolts with square shank base
- extended design resistances
- compact design

#### FOR PAD

- redesign of the grooves
- edge design



**ON TRACK. WITH YOU.**

[www.gantrex.com](http://www.gantrex.com)

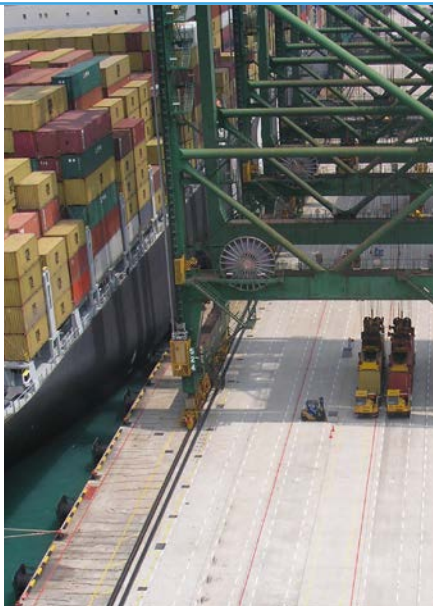


# GANTREX®

## RailLok™



GANTREX surveyed the crane tracks, interviewed contractors and maintenance teams at some of the biggest port operators, identified their operational needs and responded to them.



### EASE OF INSTALLATION

- increased lateral adjustment: higher precision of installation
- thicker clip walls all around: no weld can get through
- housing with easy access for cleaning and bolt insertion
- square shank base bolts: fool-proof positioning and tightening with impact wrench

### STABILITY OF THE RAIL SYSTEM

- The RailLok™ additional wedge design ensures tight and full contact of the upper component of the clip with the rail foot and coupled with the usual self-locking wedge, keeps the tightened clip bolts in tension.
- The RailLok™ pad specific design of grooves and edges prevents pad damage and movement due to rail twisting and bow wave effect; it also virtually eliminates the risk of pad premature failure due to dirt ingress.

### GANTREX RANGE\*

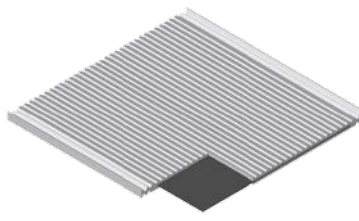
Clips and pad models are adapted to the different load dynamics depending on the type and duty cycle of STS crane.

#### FOR CLIPS

- RailLok™ models W15, W20, W22, W25 or W30, from 120 kN to 300 kN side load resistance;
- From 12mm to 20mm adjustment range;
- From 47mm to 63mm clearance height.

#### FOR PAD

- Nominal width adapted to the rail foot width, from 130mm to 220mm;
- Steel strip reinforcement from 60% to 90% of the pad width when required, to give maximum stiffness and improve stability to side forces where pressure on the pad is released.



\* Full details are available in our data sheets or on our website.