

## CONSTRUCTION - BRIDGES / FINCANTIERI INFRASTRUCTURE, ITALY

# RUNWAYS

### THE CHALLENGE

Safety was the top priority for the San Giorgio Bridge in Genoa. Some of the bolted joints are difficult to reach for an inspection after erecting.

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### THE SOLUTION

Nord-Lock secures the noise barriers and the runways of the robots which monitor the bridge. Moreover, Nord-Lock washer are highly resistant to saline corrosion.



# CONSTRUCTION / JANSON BRIDGING, NETHERLANDS

## BRIDGE OVER COOLING WATER

### THE CHALLENGE

Janson Bridging Group built temporary bridges for rail and road traffic at the Yangtzehaven. Bolted joints of the standard steel bridge are fastened with bolts and nuts subjected to eventual bolt loosening due to continuous vibration.

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### THE SOLUTION

Nord-Lock SC-washers secure the bolted joints of the bridges. Janson Bridging tightens the longitude and transverse beams of their bridge systems through a bolted joint which is partly used as a preloaded bolted joint. The preloaded bolted joints are tightened with calibrated torque tools.



# CONSTRUCTION / CIMOLAI TECHNOLOGY, PANAMA

## SET OF SPECIAL GATES

### THE CHALLENGE

Cimolai Technology started using Nord-Lock washers in the new sets of gates and in the infrastructure for the Panama Canal expansion project. They needed Nord-Lock washers for a very specific steel construction application using HR bolt sets.

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### THE SOLUTION

After a technical meeting with to analyze the existing potential solution of NLSC-washers for a specific application and several tests performed to determine the torque for each batch number of HR-bolts being used, they found that Nord-Lock SC-washers was the perfect solution to their specific application.



# CONSTRUCTION – THEME PARKS / VEKOMA, NETHERLANDS

## AMUSEMENT PARK RIDES

### THE CHALLENGE

Vibration-induced loosening of joints can occur over time.

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### THE SOLUTION

The washers' ability to prevent this vibration-induced loosening of bolts, plus the fact that the washers are approved by international certification organizations, lay behind Vekoma's decision to choose Nord-Lock. The result is an adrenaline-filled experience that's guaranteed to make you scream – without ever exposing you to danger.

