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How do

# Indigo Buntings locate the same acre of land every summer?

They calculate their position using the stars.



Positioning. Evolved.

## Auto-Positioning Retrofit

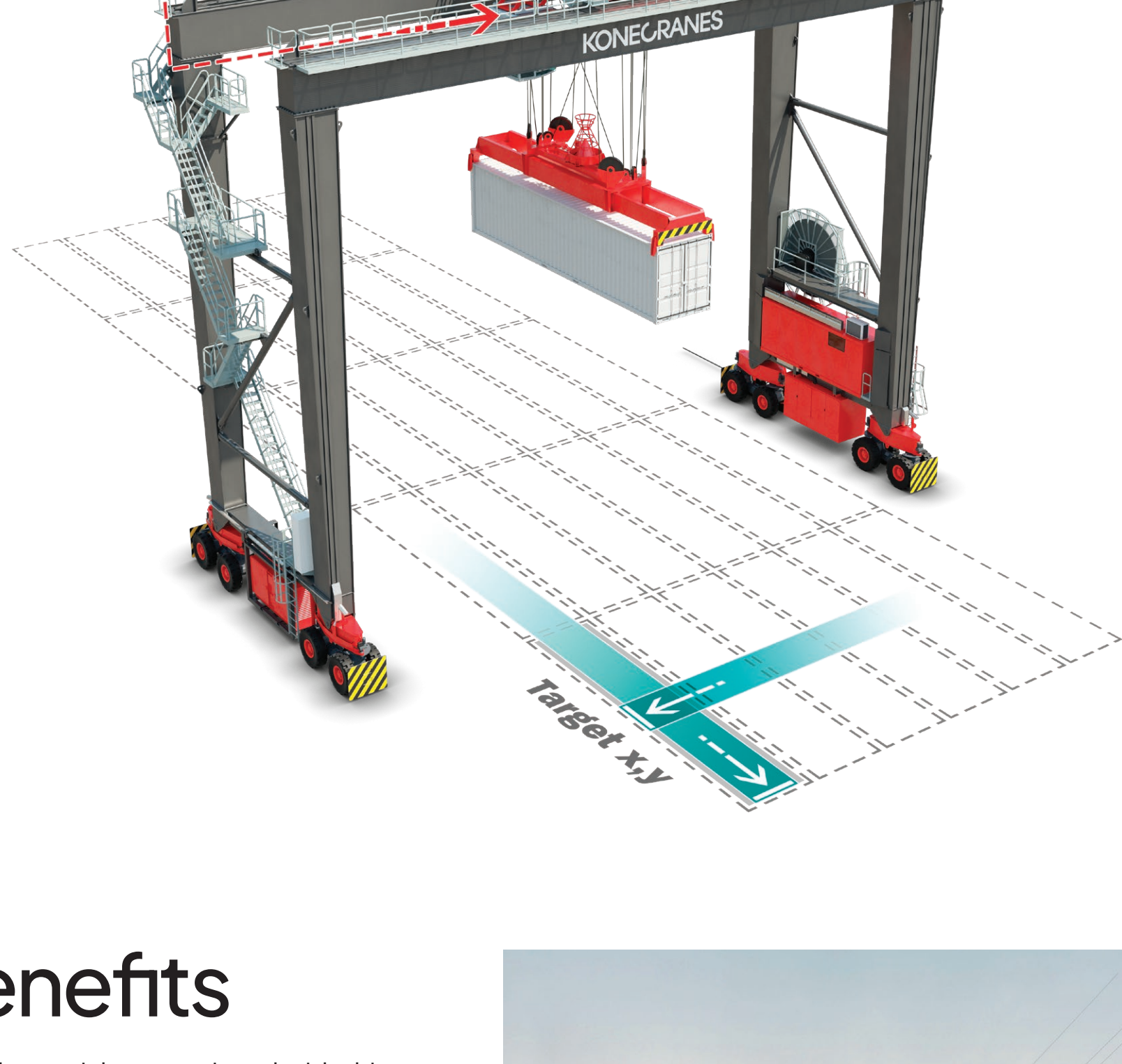
Eliminates positioning errors and increases speed of operation as the crane will automatically stop precisely above the correct container or slot.



Watch video at this link

## Adapt and thrive

Konecranes is the premier port services provider to brownfield terminal developments. Our range of retrofit products will enable your fleet to adapt to a fast-changing environment. Welcome to your evolution.



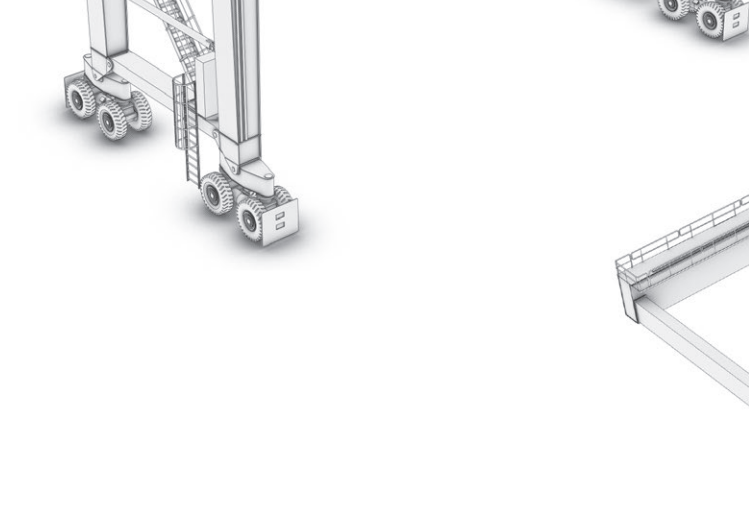
## Benefits

- Reduces risks associated with driver fatigue and of operating in adverse weather
- Creates more precisely shaped container stacks
- Decreases cycle times as it enables a faster more confident approach to the target
- Reduces unnecessary movements
- Also works when positioning over trucks and railway cars
- Proprietary DGPS algorithms calculate centimetre level accurate GPS positions.



**AB**  
Any Brand

This technology can be applied to all Konecranes RTGs and RMGs as well as other brands. System can be implemented to other brands as well, but Konecranes Auto-Steering and Auto-TOS are a prerequisite.



**RTG**  
Rubber-Tired Gantry Crane

**RMG**  
Rail-Mounted Gantry Crane

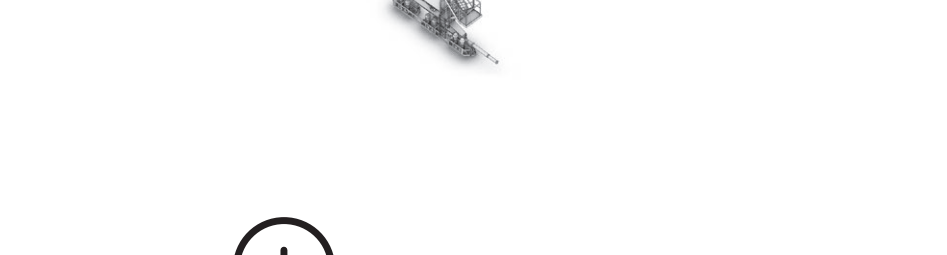


Image courtesy of MSC, Valencia

## How it works

- Auto-Positioning receives its target slot from the TOS
- The crane can then only move towards the identified target position
- Auto-Positioning helps the operator to reduce speed and brake to a stop
- The operator still controls the gantry and trolley, but gantry movement is limited to a defined area around the target
- The gantry position is typically measured using GPS, and the trolley position is measured using laser sensors or pulse counters.

## What you need to know

- Auto-Steering and Auto-TOS reporting are prerequisites for Auto-Positioning
- Site works and commissioning: 1-2 days per crane
- Customer needs:
  - To apply for necessary radio frequency license that the system needs for the base station communication.



## Selected References



YEAR	CUSTOMER/LOCATION	QUANTITY
2020/21	Gulfairner / Wilmington	9
2020	DPW / Yarimca	6
2020	CTSP / St Petersburg	5
2019	MFT / Malta	15
2019	PTP / Johor	12
2018	PMT / Kuala Tanjung	8
2016	DCT / Gdansk	15

## Ports. Evolved.



Konecranes is a global leader in material handling solutions, serving a broad range of customers across multiple industries. We consistently set the industry benchmark, from everyday improvements to the breakthroughs at moments that matter most, because we know we can always find a safer, more productive and sustainable way. That's why, with around 16,600 professionals in over 50 countries, Konecranes is trusted every day to lift, handle and move what the world needs. In 2023, Group sales totalled EUR 4.0 billion. Konecranes shares are listed on Nasdaq Helsinki (symbol: KCR).

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