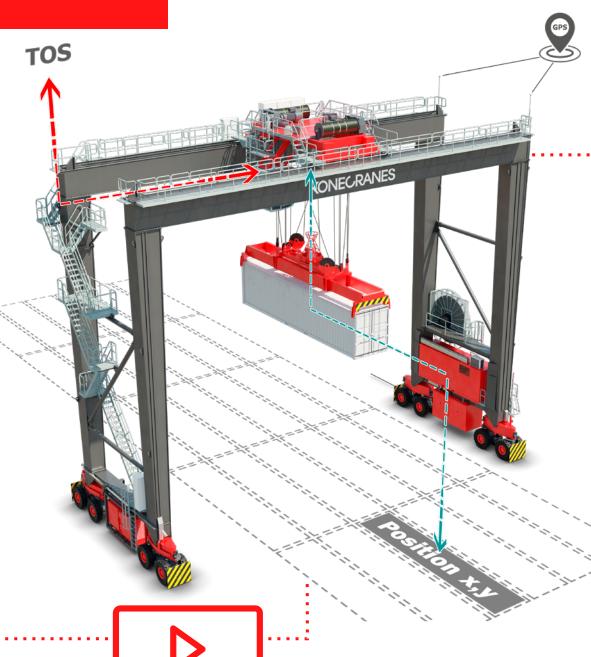
**SMART FEATURE RETROFITS** 

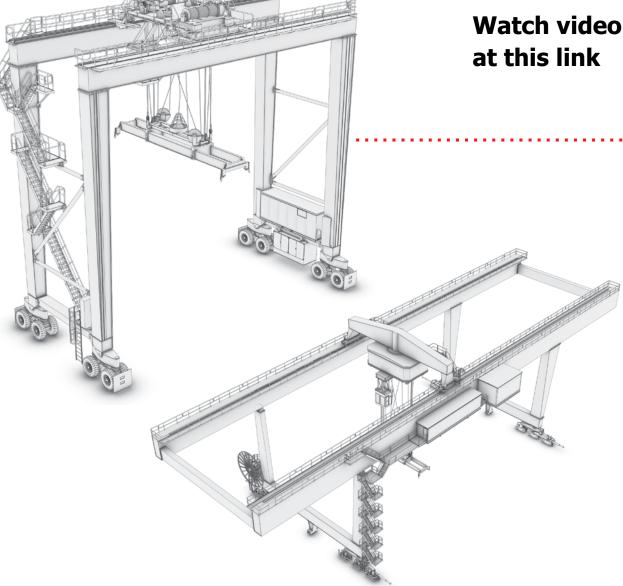
# **Auto-TOS** Reporting Retrofit

Now every crane can count its moves, map the position of every load and interface directly with the TOS.









## This technology can be

**EQUIPMENT** 

applied to all Konecranes RTGs and RMGs as well as to other crane brands.









### • Keeps TOS data up-to-date in real-time

**BENEFITS** 

in the yard

- Process is invisible to the
- operator • 100% accurate yard inventory
- Eliminates misplacing containers
- Tracks moves regardless of whether they follow TOS instructions, are diverted from them or are completely unauthorized • Proprietary DGPS
- algorithms calculate centimetre level accurate GPS positions.

## • Systems uses a combination of DGPS, radio radar and

distance sensors

**HOW IT WORKS** 

- Translates the crane's position into the logical container positions used by the TOS
- The Auto-TOS reporting system interfaces with the crane's control system to detect container pick-up and
- placement actions, then uses the crane's GPS position to calculate container positions. WHAT YOU NEED TO KNOW

## • Auto-TOS reporting is mandatory function for further automation

- prerequisites for Auto-TOS reporting • Site works and commissioning 1-2 days per crane
- Customer needs: • To apply for necessary radio frequency license that

Auto-steering or position detection system are

the system needs for the base station communication To name a location for the base station and install the cubicle, antenna and wiring. Konecranes builds

• Konecranes will assist in providing the necessary

- the antenna connection If WLAN is used, to provide a functional WLAN network with strong coverage in the whole area where the RTGs operate (optional)

information for our customers to complete these tasks.



**SELECTED REFERENCES** 

**Gulftainer** | Wilmington



CTSP | St Petersburg

<b>DPW</b>	Maputo	
Year	<b>Customer/Location</b>	Quantity
2020/21	Gulftainer/ Wilmington	9
2020	DPW / Yarimca	6
2020	MINTT / Tangier	16
2020	CTSP / St Petersburg	5

PTP | Johor





serving a broad range of customers, including manufacturing and process industries, shipyards, ports and terminals. Konecranes provides productivity enhancing lifting solutions as well as services for lifting equipment of all makes. The Group has more than 16,000 employees at 600 locations in 50 countries. Konecranes shares are listed on the Nasdaq Helsinki (symbol: KCR). © 2020 Konecranes. All rights reserved. 'Konecranes', 'Lifting Businesses' and **C** are either registered trademarks or trademarks of Konecranes.

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