



HOW DID

A cow evolve into one of the planet's smartest animals?

Powerful neural **adaptations** for more sophisticated **computational strategies**.

Drive & Control Retrofit

Package of changes that adapt an older crane's computer, control, diagnostic and drive systems for the future.

Intelligence. Evolved.



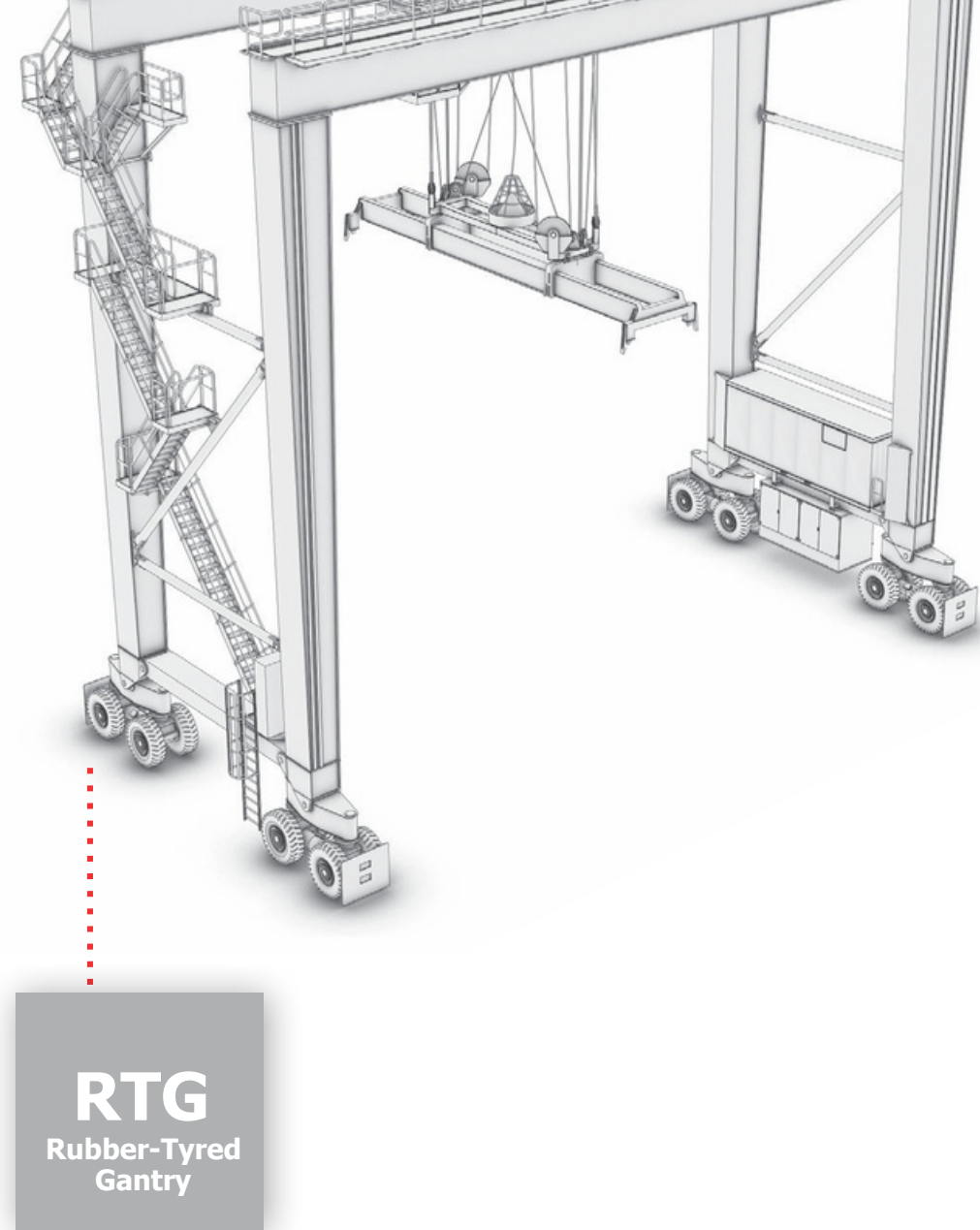
ADAPT AND THRIVE

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**. Small, incremental changes that enable existing fleets to continue to adapt and thrive.



Drive and Control System Retrofit (DCSR)

Future-proof your older RTGs with a new brain for your crane.



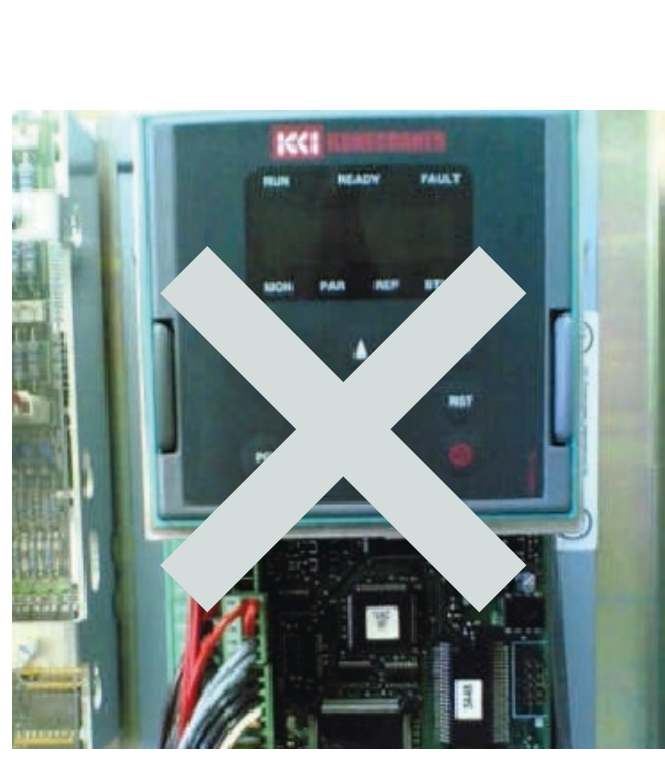
EQUIPMENT

This is a standardized retrofit applicable to all Konecranes RTG2000 models.

RTG2000 Project Numbers

G271 to G770. Older cranes (G118-G270) may still be eligible for the standard DCSR, on a case-by-case basis.

RTG
Rubber-Tyred Gantry



WHY DO A DCSR?

- While the steel structure of an older Konecranes RTG is likely to last another 10-15 years*, the **electrical and processing equipment has aged dramatically**.
- DAV inverter drives and Siemens OP270/OP27 HMI panels are no longer in production. Therefore **parts for these important components are unavailable**.
- DAV is replaced with new Konecranes **D2V drives** and a new **Siemens PLC system**.
- A new **Profinet** supports control of new generation devices
- New **Proface operator touch-panel**, with faster response time and improved interface.

* Under normal usage conditions.

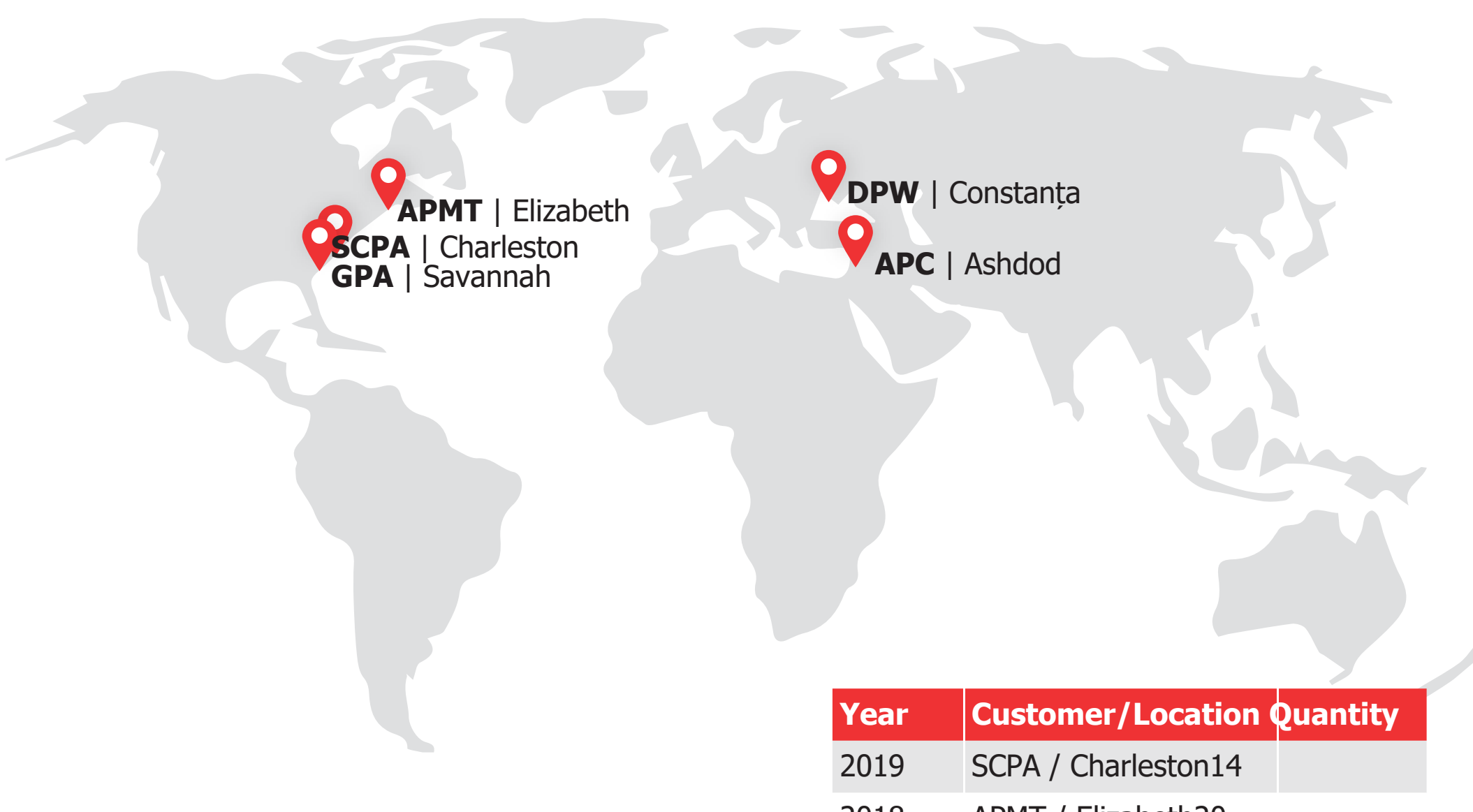
BENEFITS

- New Crane Management System (CMS) – that captures real-time usage and diagnostic data
- Crane is future-proof: ready for smart safety and efficiency features
- A new 4G CloudGate modem now enables remote services such as:
 - Online Remote Troubleshooting
 - TRUCONNECT® Digital Services
- Top-to-bottom inspection and assessment of all power, electrical, control and drive components
- Crane operations swifter and more reliable.

WHAT YOU NEED TO KNOW

- RTG2000 DCSR is mandatory pre-requirement for RTG2000 Hybrid power pack retrofit.
- Premium Package is a mandatory pre-requirement for VSG power retrofit and Regenerative Busbar retrofit for RTG2000 and RTG_Original.
- Premium Package allows RTG2000 to have hoist, trolley and gantry motions at the same time (with reduced speeds).
- When you order this retrofit, you can add any of the other retrofits as options to add extra value to your retrofit project and further increase the functionality, safety, and performance of your Konecranes RTG.
- We recommend an electrification retrofit in conjunction with the drive and control system retrofit. Doing both at the same time will minimize downtime during the retrofit process, reduce the environmental impact of your RTGs, and reduce energy consumption.

SELECTED REFERENCES



Year	Customer/Location	Quantity
2019	SCPA / Charleston	14
2018	APMT / Elizabeth	20
2017	DPW / Constanța	5
2016	APC / Ashdod	24
2015	GPA / Savannah	15

Ports. Evolved.

KONECRANES



Konecranes is a world-leading group of **Lifting Businesses™**, 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)**.

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