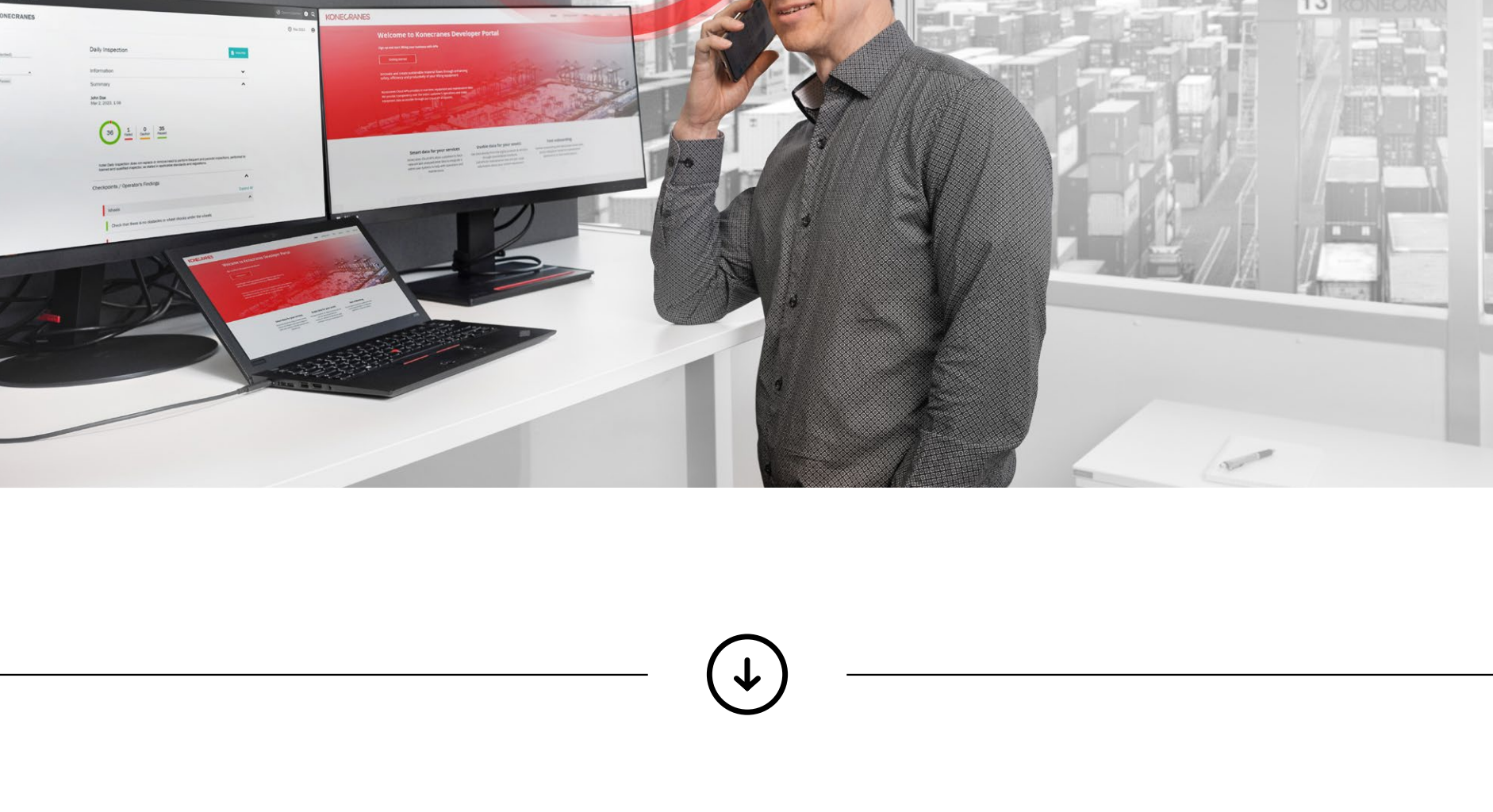


TOS Reporting Retrofit

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

Adapt and thrive

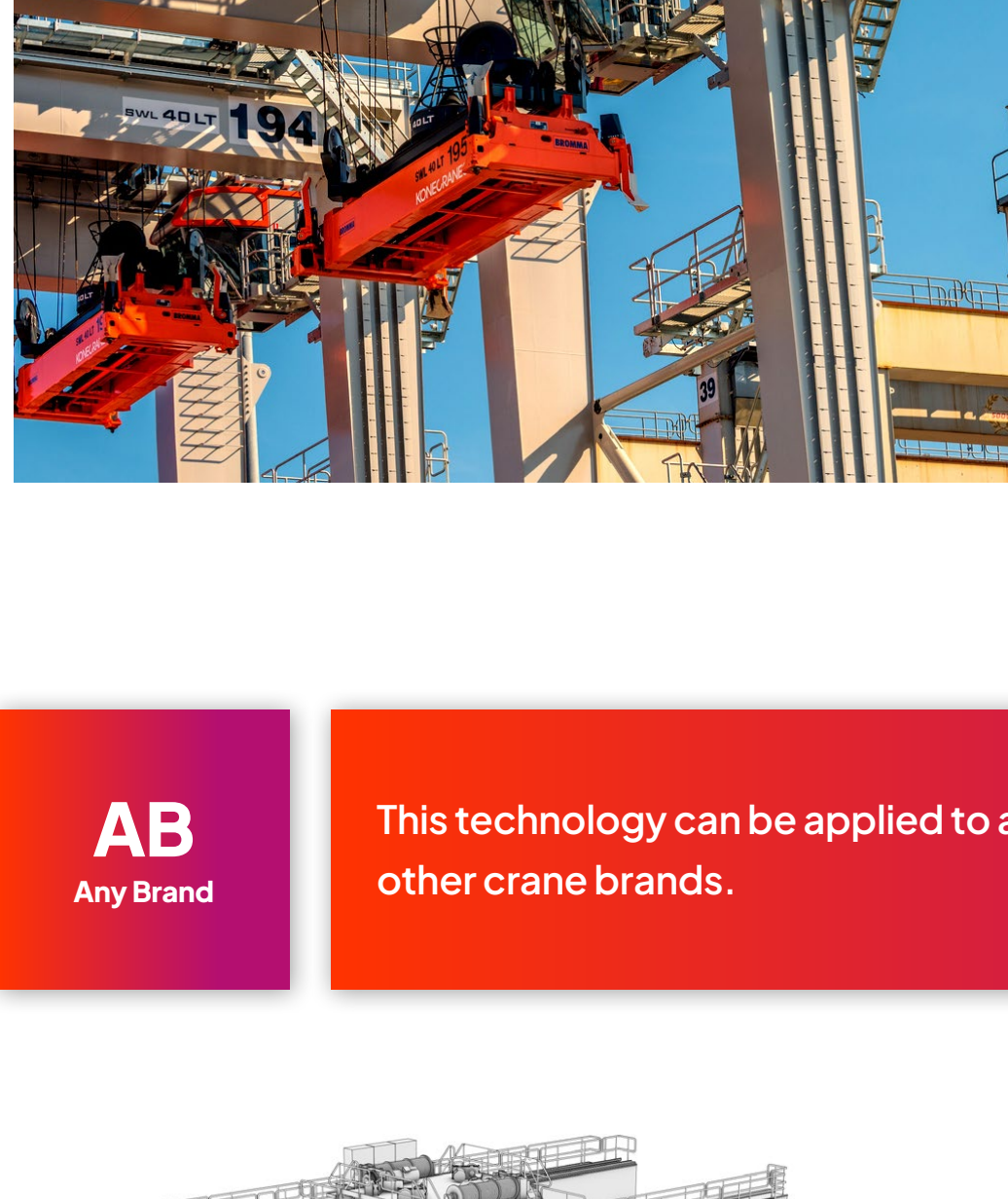
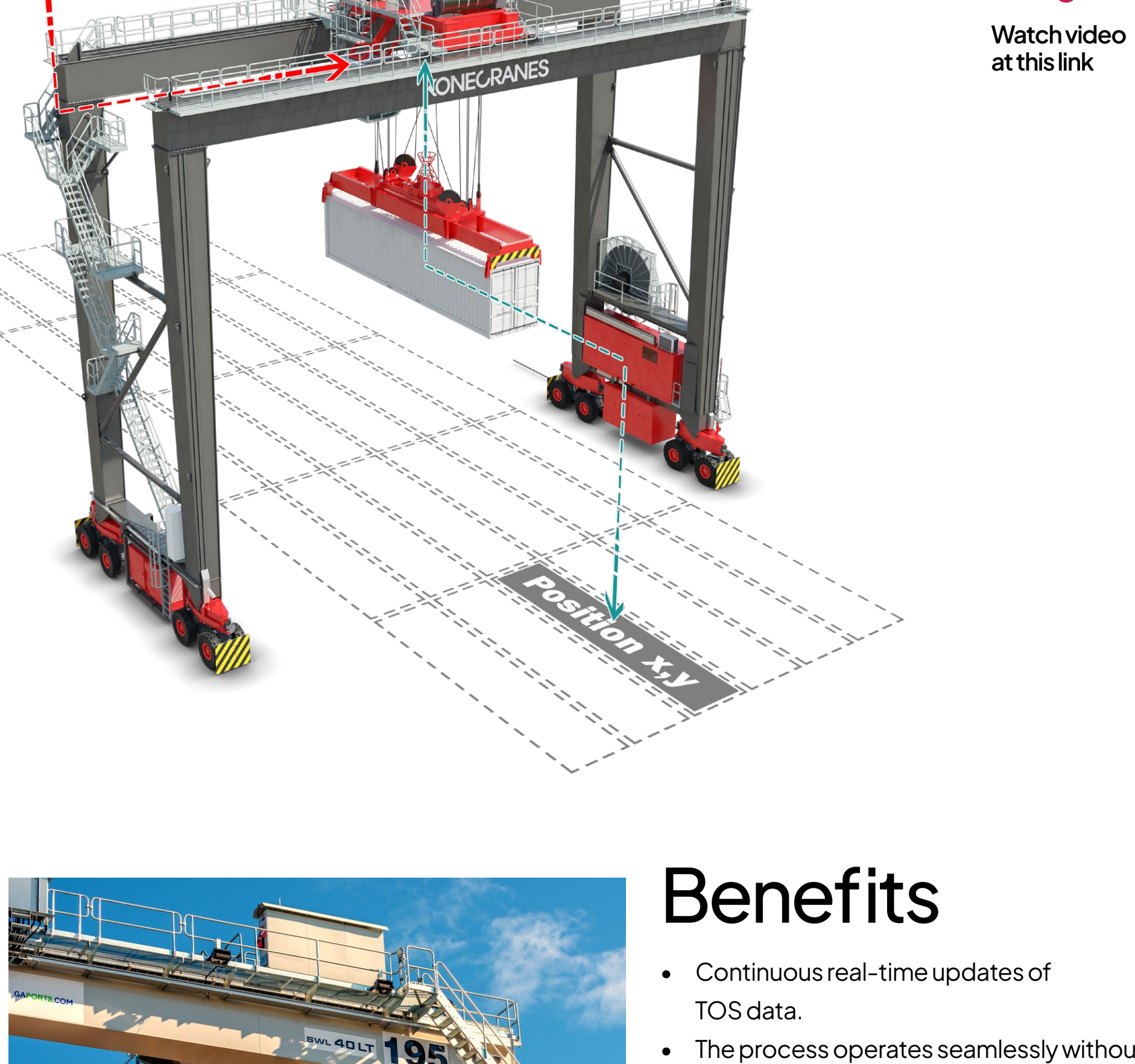
Konecranes is the premier port services provider to brownfield terminal developments. Our range of retrofit products will enable your fleet to adapt to a fast-changing environment. Welcome to your evolution.



Supporting operators for safer, smoother RTG performance

RTG operators manage a demanding mix of tasks every shift—precise steering, accurate container placement, constant TOS updates, and full awareness of traffic and safety zones. It’s a high-skill job that naturally creates mental fatigue over time.

Our Operator-Assisting retrofits lighten that load by taking over the steering work. Operators stay fully in control of every critical decision, while the system handles the repetitive strain—helping them stay focused on what they do best: safe, confident, accurate container handling.

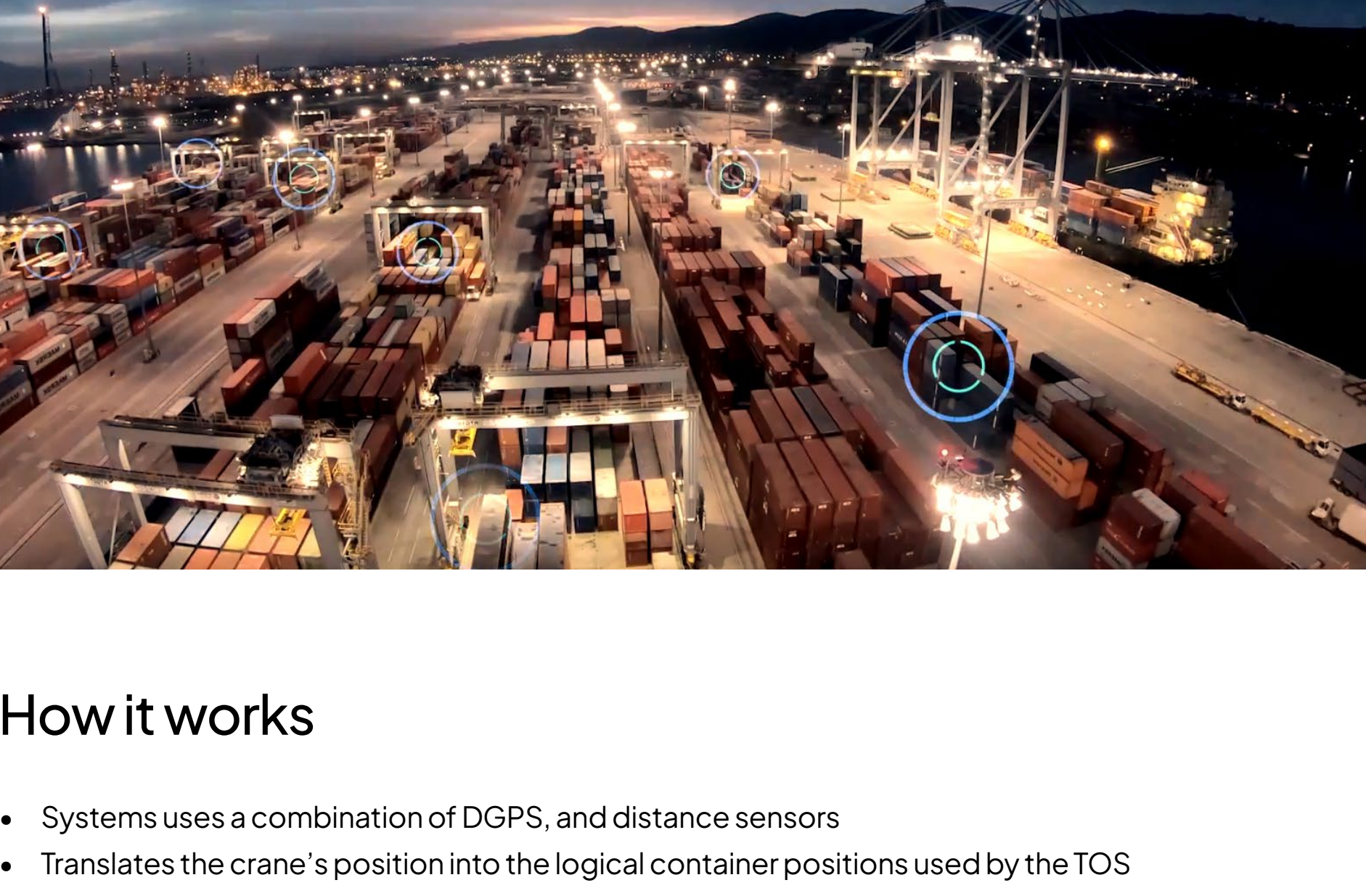
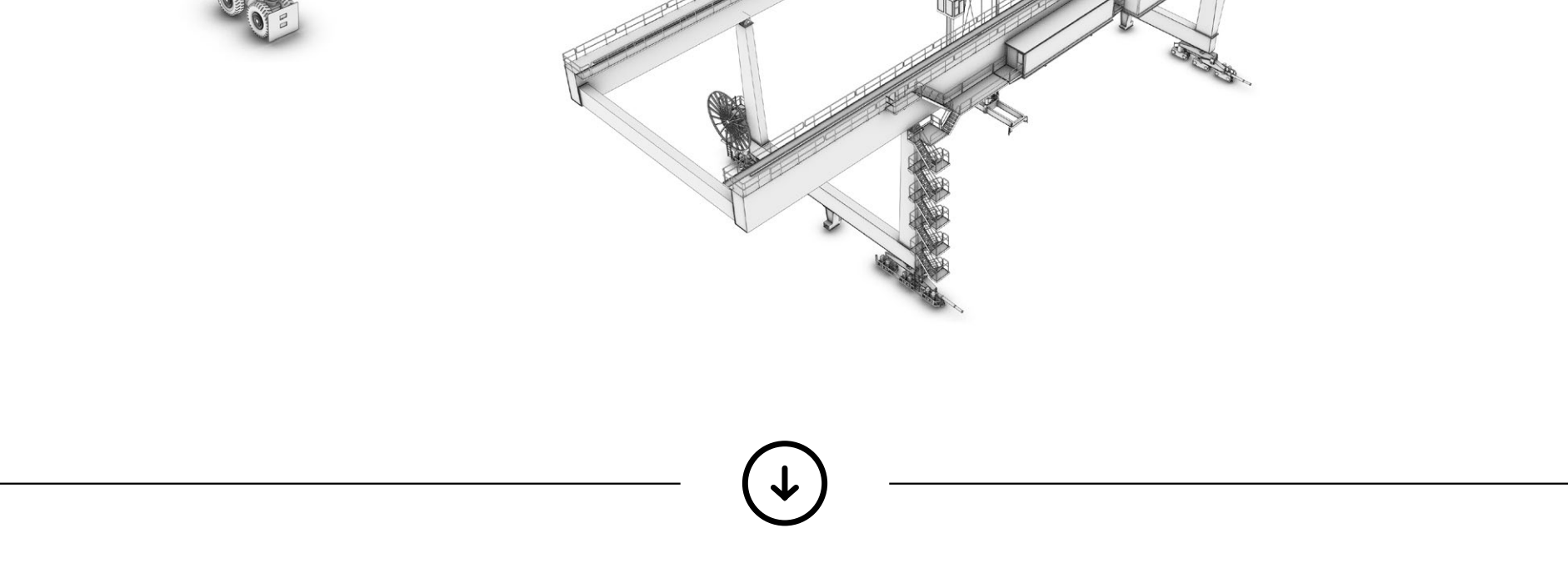


Benefits

- Continuous real-time updates of TOS data.
- The process operates seamlessly without requiring operator intervention.
- Ensures 100% accurate yard inventory.
- Prevents containers from being misplaced within the yard.
- Monitors all container moves, whether they follow TOS instructions, deviate from them, or are completely unauthorized.
- Twistlock operations can be restricted unless the spreader is above the correct slot

AB
Any Brand

This technology can be applied to all Konecranes RTGs and RMGs as well as to other crane brands.



How it works

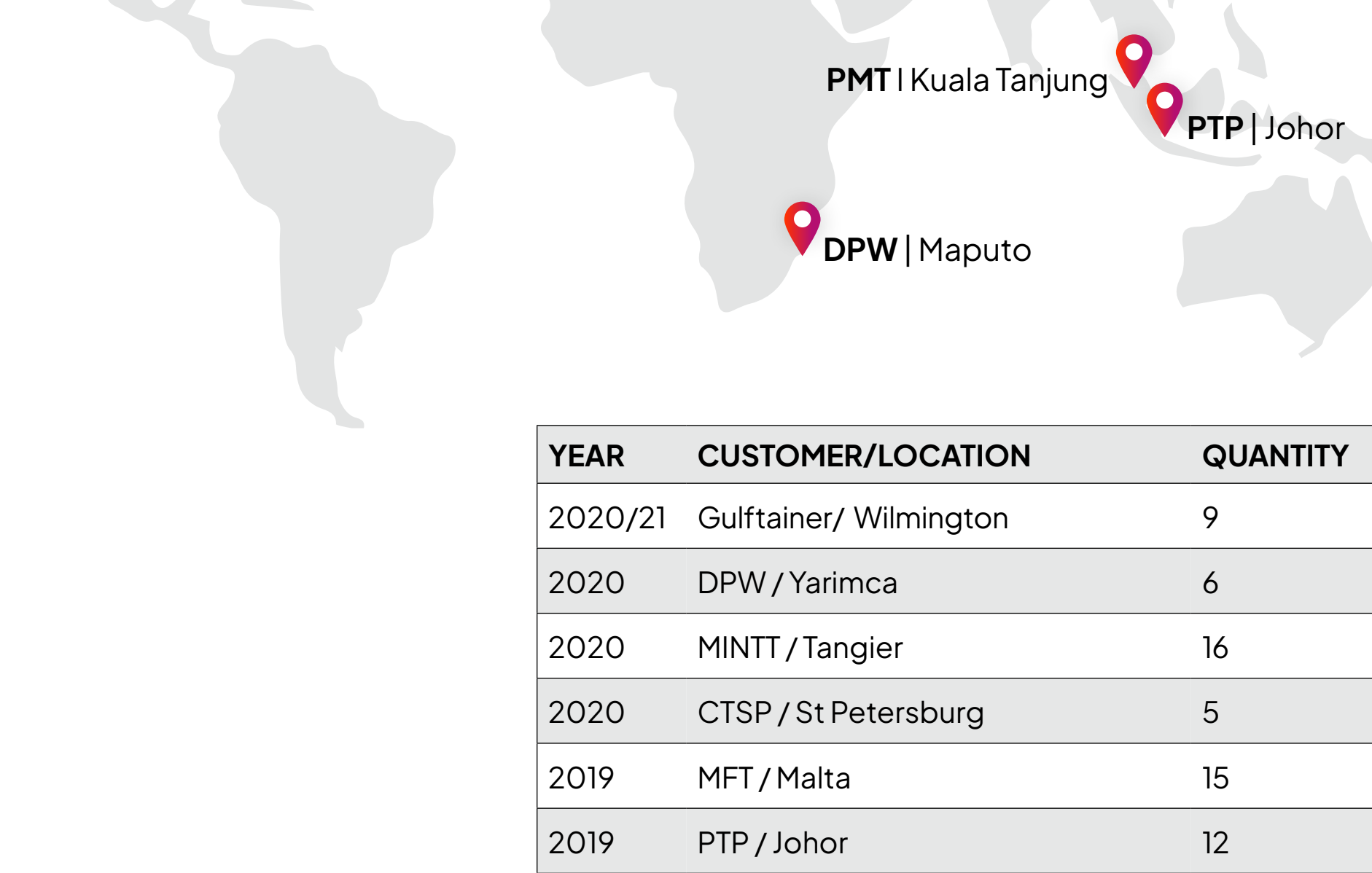
- Systems uses a combination of DGPS, and distance sensors
- Translates the crane's position into the logical container positions used by the TOS
- The TOS reporting system interfaces with the crane's control system to detect container pick-up and placement actions, then uses the crane's GPS position to calculate container positions.

What you need to know

- Auto-steering or position detection system are prerequisites for TOS Reporting
- 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
 - To name a location for the base station and install the cubicle, antenna and wiring. Konecranes builds 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)
- Konecranes will assist in providing the necessary information for our customers to complete these tasks.



Selected References



YEAR	CUSTOMER/LOCATION	QUANTITY
2020/21	Gulfstream / Wilmington	9
2020	DPW / Yarmca	6
2020	MINTT / Tangier	16
2020	CTSP / St Petersburg	5
2019	MFT / Malta	15
2019	PTP / Johor	12
2019	PMT / Kuala Tanjung	12



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 16,500 professionals in over 50 countries, Konecranes is trusted every day to lift, handle and move what the world needs. In 2025, Group sales totalled EUR 4.2 billion. Konecranes shares are listed on Nasdaq Helsinki (symbol: KCR).

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