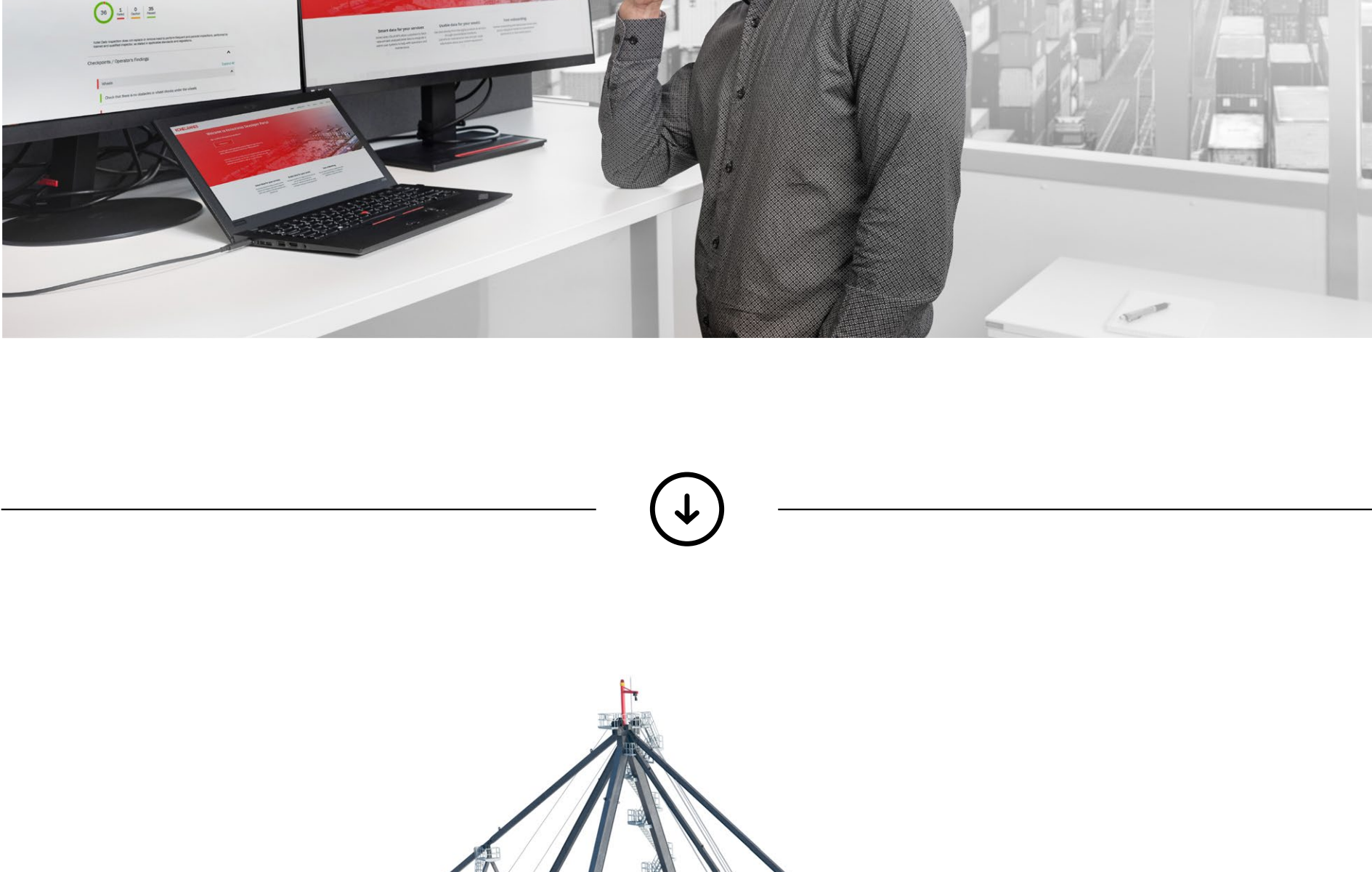


STS Boom Extension

Fast and cost-efficient alternative to buying new equipment.

Adapt and thrive

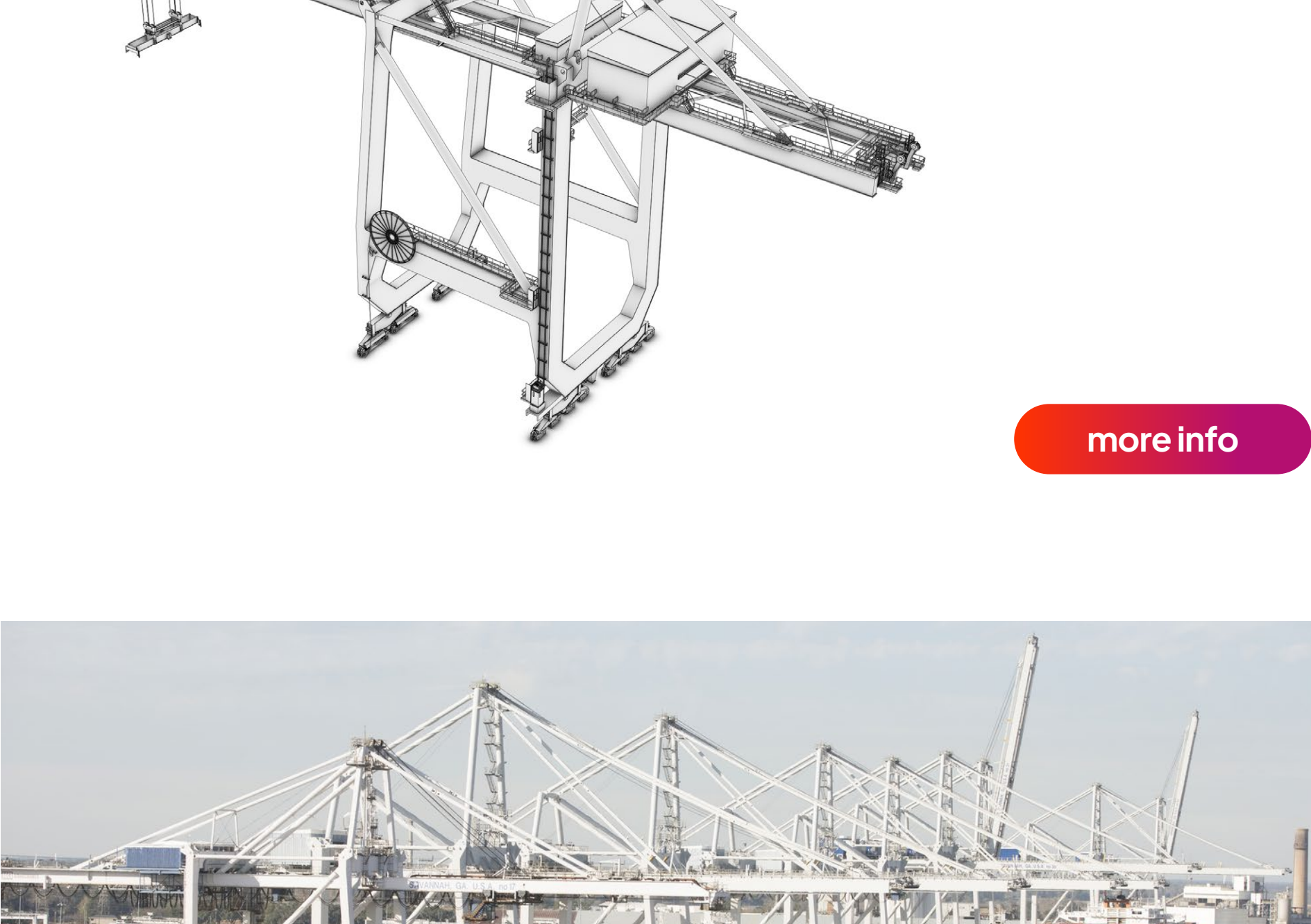
Konecranes is the premier port services provider to brownfield terminal developments. Our range of retrofit products will enable your fleet to adapt to a fast-changing environment. Welcome to your evolution.



Benefits

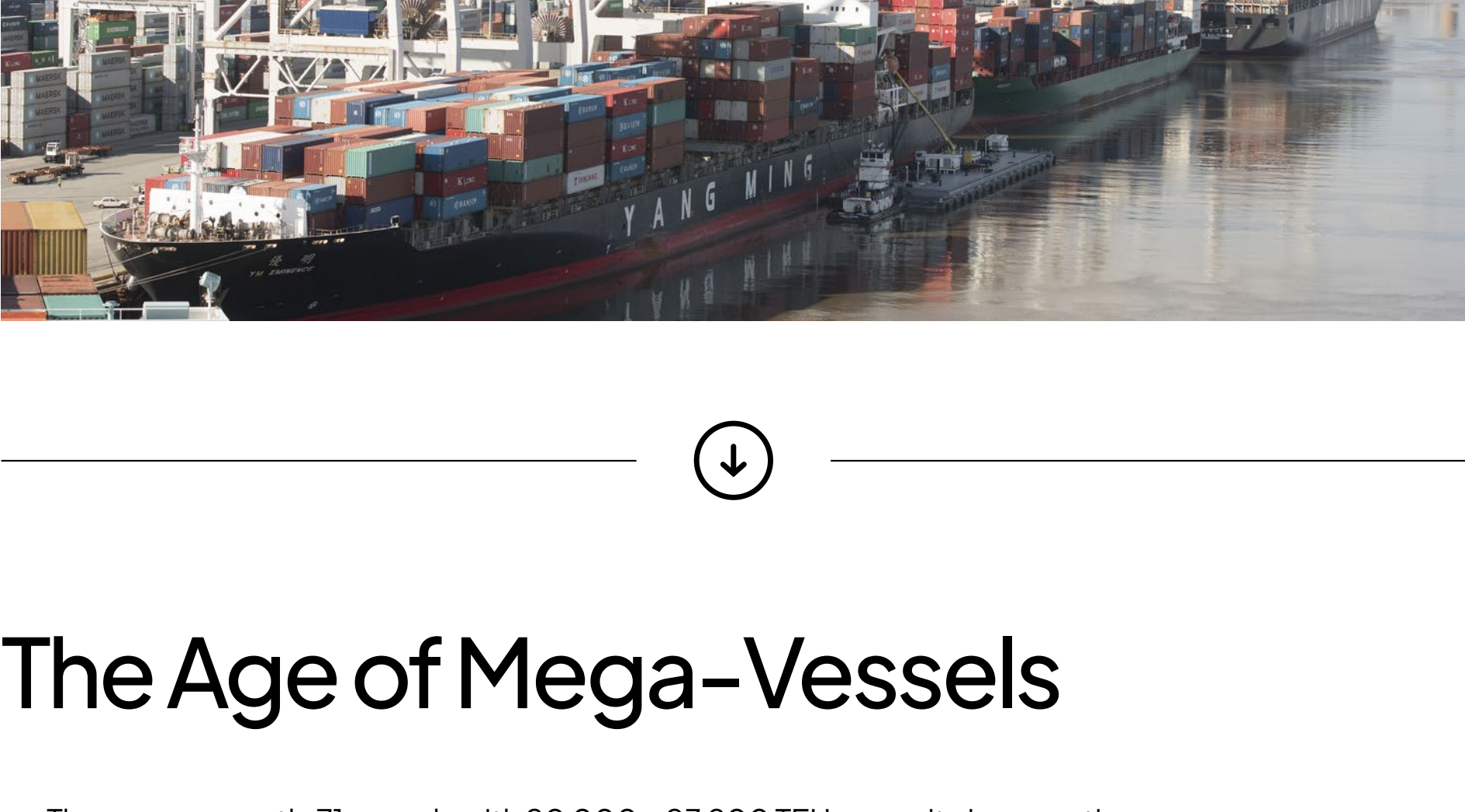
- Service larger vessels at reduced cost and environmental impact
- Broader appeal to shipping customers
- Reduced risk of collision with vessel elements (radar, antennae etc.), and reduced insurance cost
- Option to upgrade to modern environmental, health and safety regulations
- The crane is rigorously inspected prior to boom extension, this process:
 - Can identify weak points and cracks
 - Reinforcement of these points will prolong the life of the crane by between 1–2 million movements.

This technology can be applied to all Konecranes STS cranes.



STS/GU
Ship-to-Shore
Grab Unloader

more info



The Age of Mega-Vessels

- There are currently 71 vessels with 20 000 – 23 900 TEU capacity in operation
- Beam lengths up to: 62m/200ft
- Boxes stacked up to 10 high on deck, and span at least 23 rows
- An estimated further 29 are scheduled for delivery 2021/2022.



How it works

- The process begins with a rigorous crane inspection followed by a feasibility and site study.
- Design and modelling simulation ensures entire operation maintains rigidity of boom structure.
- In most cases STS is relocated and gantry cable reel is disconnected.
- The boom is cut, new boom extension is located, aligned and welded.
- New rails are installed and welded to the existing ones.
- Boom is lifted.
- Crane is relocated back into operations and the gantry cable reel is reconnected.

What you need to know

- **Included in Scope:**
 - Modification of the front stay if necessary
 - Welding new rails
 - Relocating limit switches and lighting system.
- **Not Directly Included in Scope:**
 - Moving the crane from quay to a site area and vice versa
 - Change of traveling and boom ropes
- **The crane will be out of operation for an average of 3–4 weeks.**
- **Optional Additions**

This is an optimal time to perform additional enhancements with no additional time delay.

- Electrical drive modernization
- Crane monitoring system
- Spreader trim, list and skew
- Snag load protection
- Boom collision prevention
- Gantry collision prevention
- STS raising

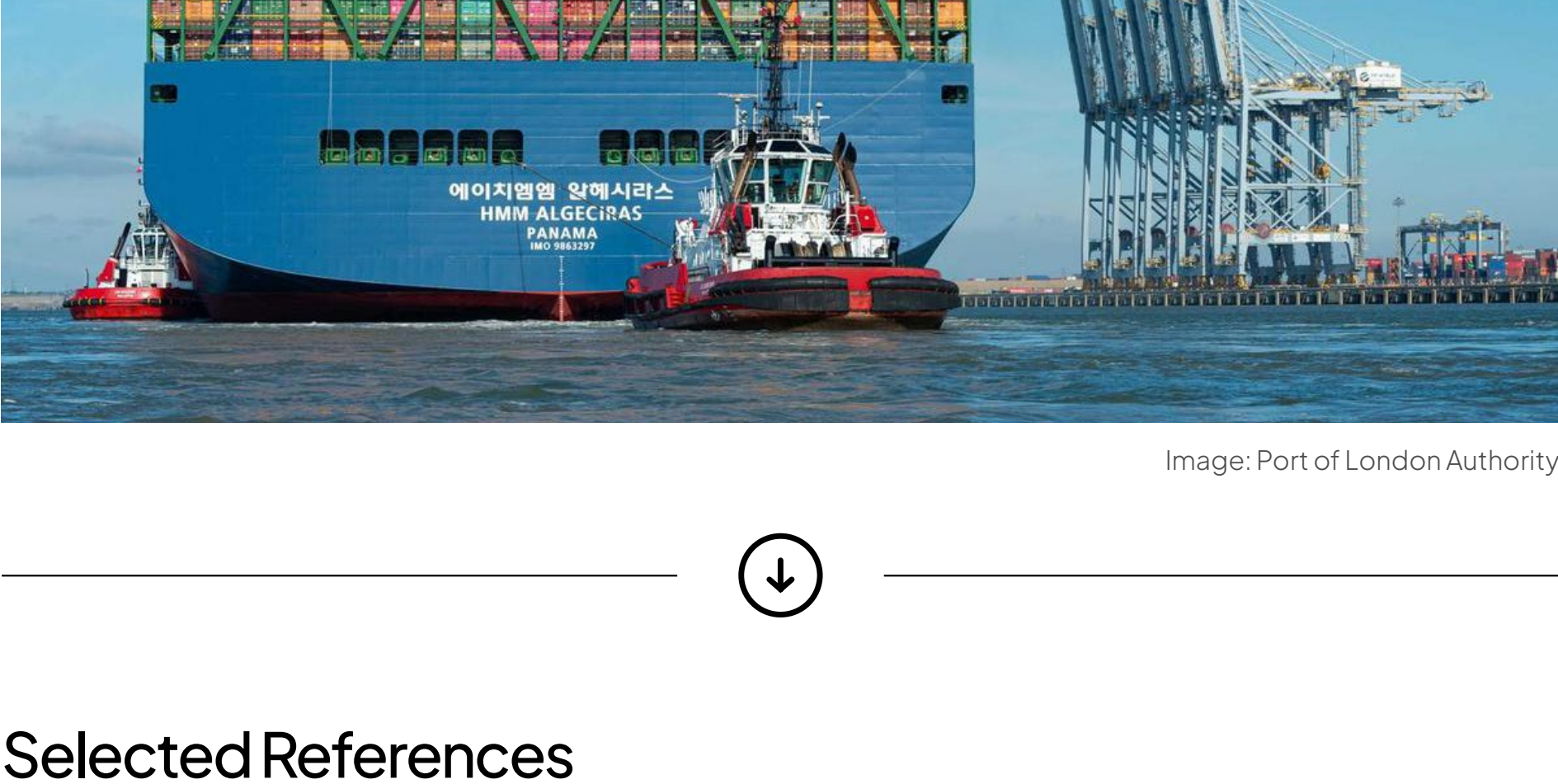
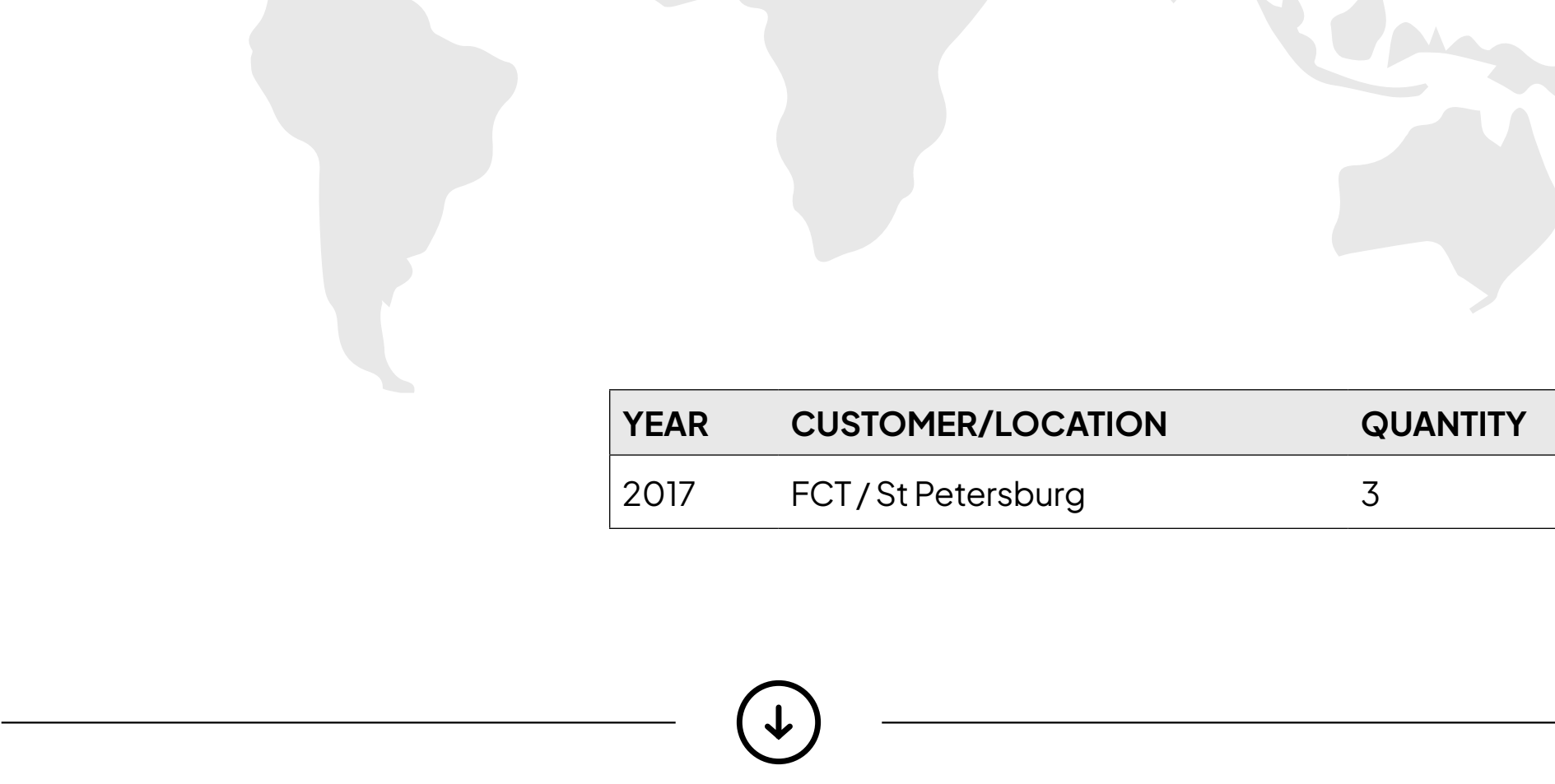


Image: Port of London Authority

Selected References



YEAR	CUSTOMER/LOCATION	QUANTITY
2017	FCT / St Petersburg	3

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 16,500 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).

© 2026 Konecranes. All rights reserved. 'Konecranes', 'Moves what matters' and  are either registered trademarks or trademarks of Konecranes.

This publication is for general informational purposes only. Konecranes reserves the right at any time, without notice, to alter or discontinue the products and/or specifications referenced herein. This publication creates no warranty on the part of Konecranes, express or implied, including but not limited to any implied warranty or merchantability or fitness for a particular purpose.