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How do

# Octopi pick locks, store tools, solve puzzles and open jars?

Each arm has evolved a semi-autonomous brain for swifter more informed decision-making.

**Control. Evolved.**

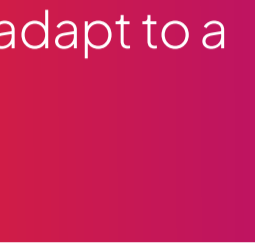


## Automation Retrofits

A set of adaptations that enable each crane in your yard to operate automatically and remotely.

### Remote Operation Retrofit

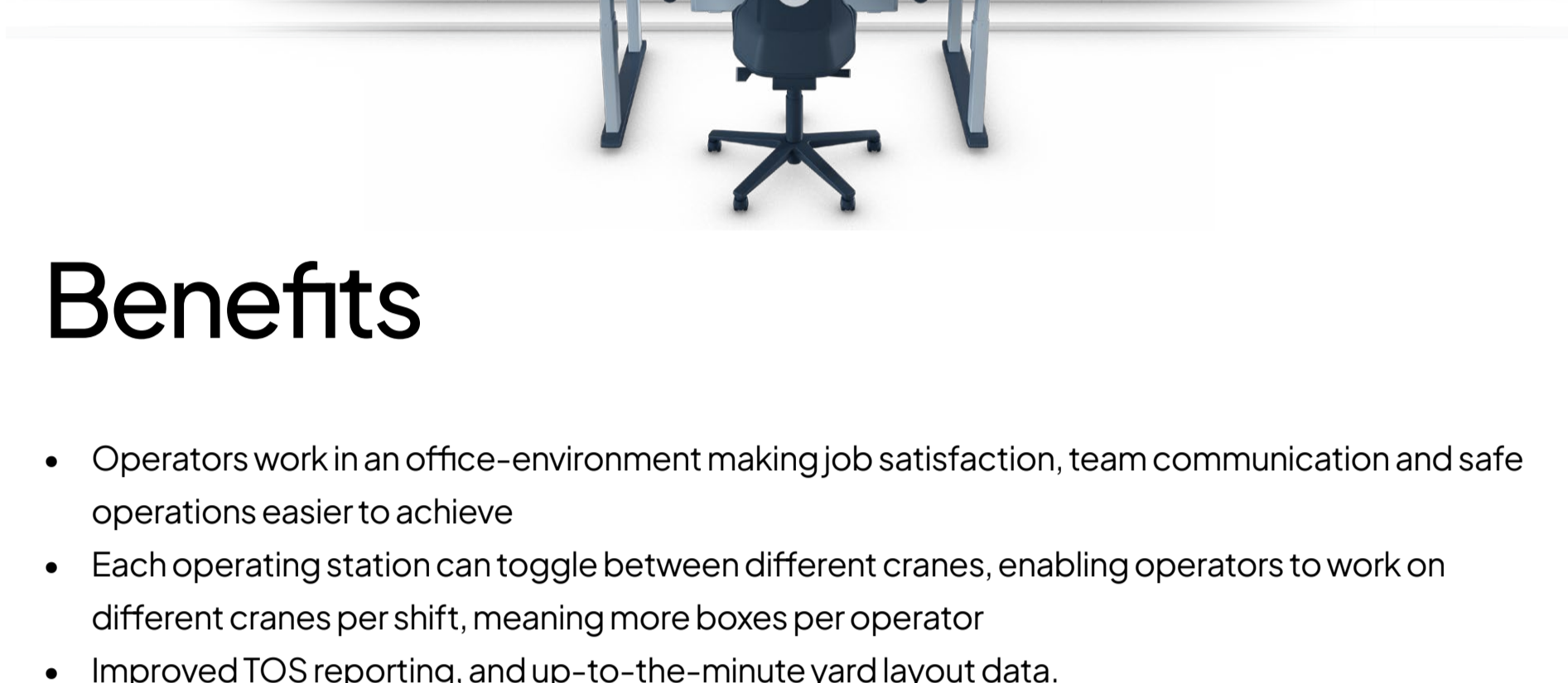
Dramatically increase productivity by decoupling the operator from the crane.



Watch video at this link

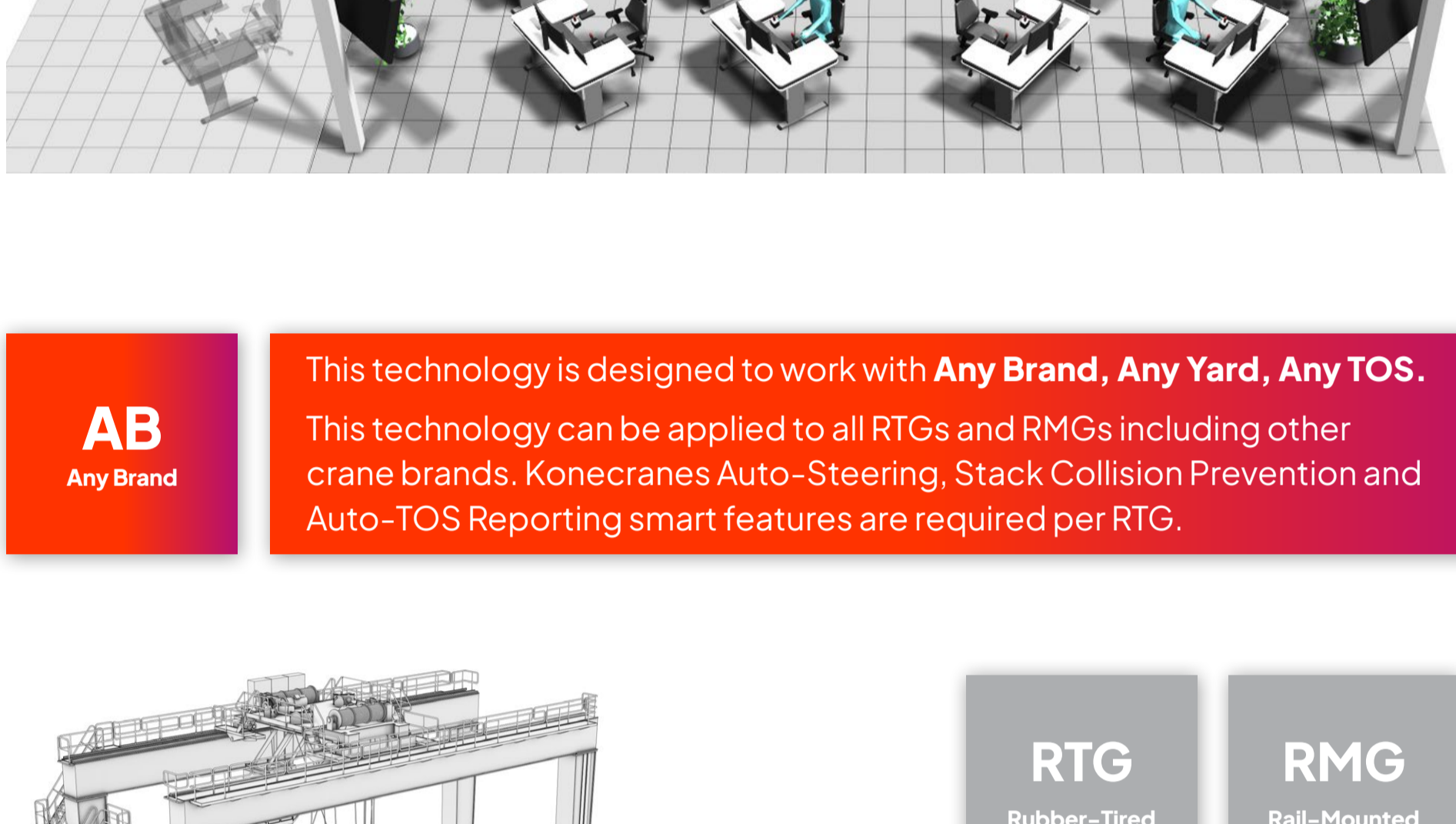
### Adapt and thrive

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.

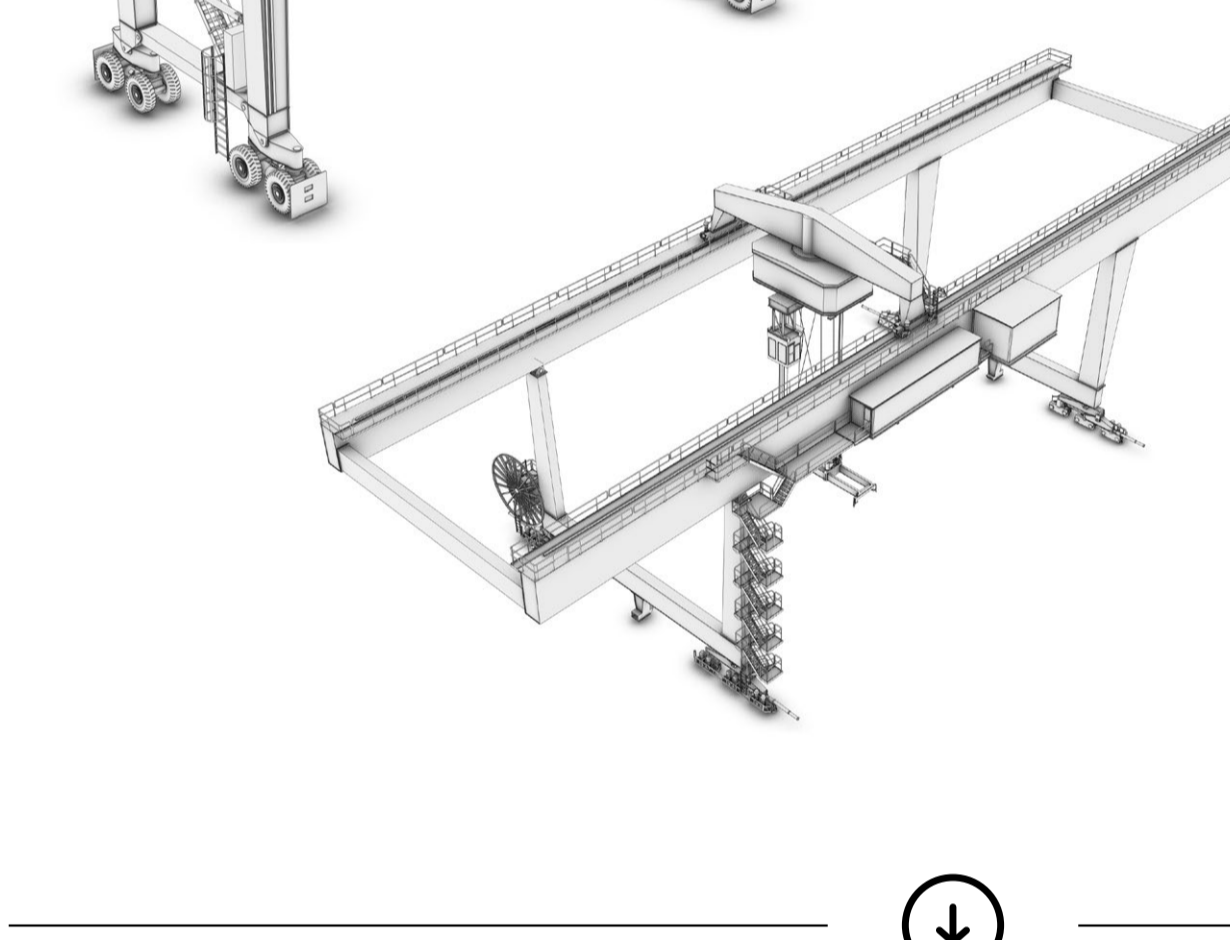


### Benefits

- Operators work in an office-environment making job satisfaction, team communication and safe operations easier to achieve
- Each operating station can toggle between different cranes, enabling operators to work on different cranes per shift, meaning more boxes per operator
- Improved TOS reporting, and up-to-the-minute yard layout data.



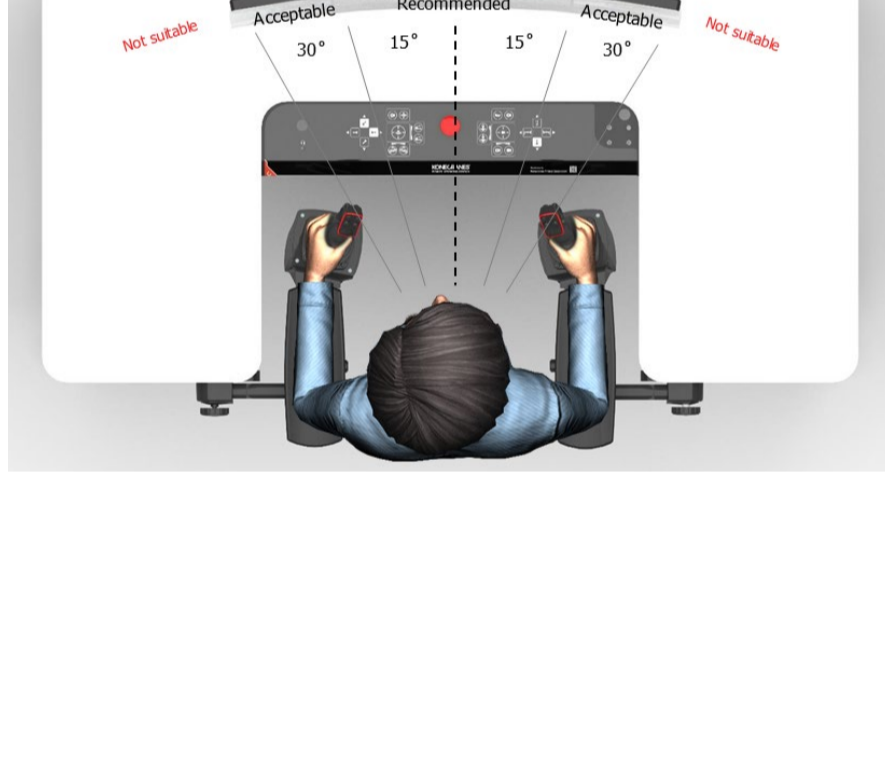
**AB Any Brand** This technology is designed to work with **Any Brand, Any Yard, Any TOS.** This technology can be applied to all RTGs and RMGs including other crane brands. Konecranes Auto-Steering, Stack Collision Prevention and Auto-TOS Reporting smart features are required per RTG.



- RTG**  
Rubber-Tired Gantry Crane
- RMG**  
Rail-Mounted Gantry Crane

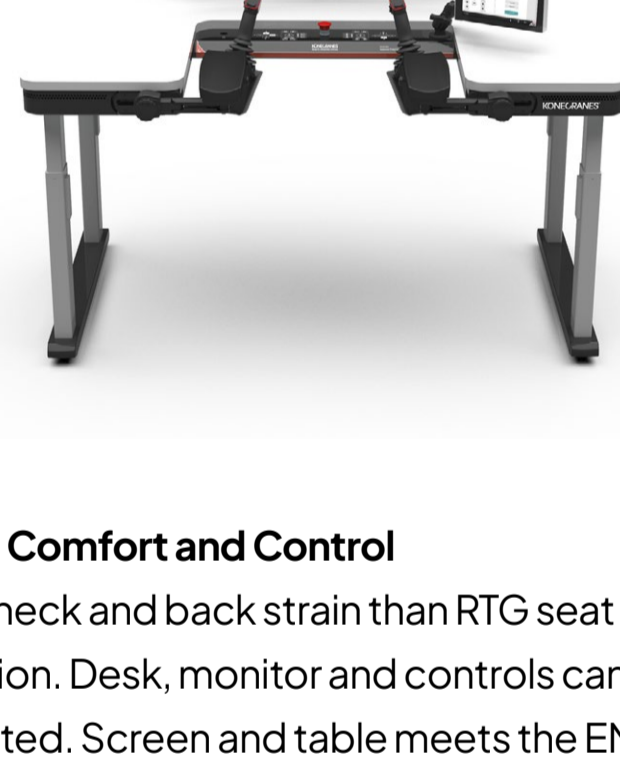


### The Konecranes Remote Operating Station

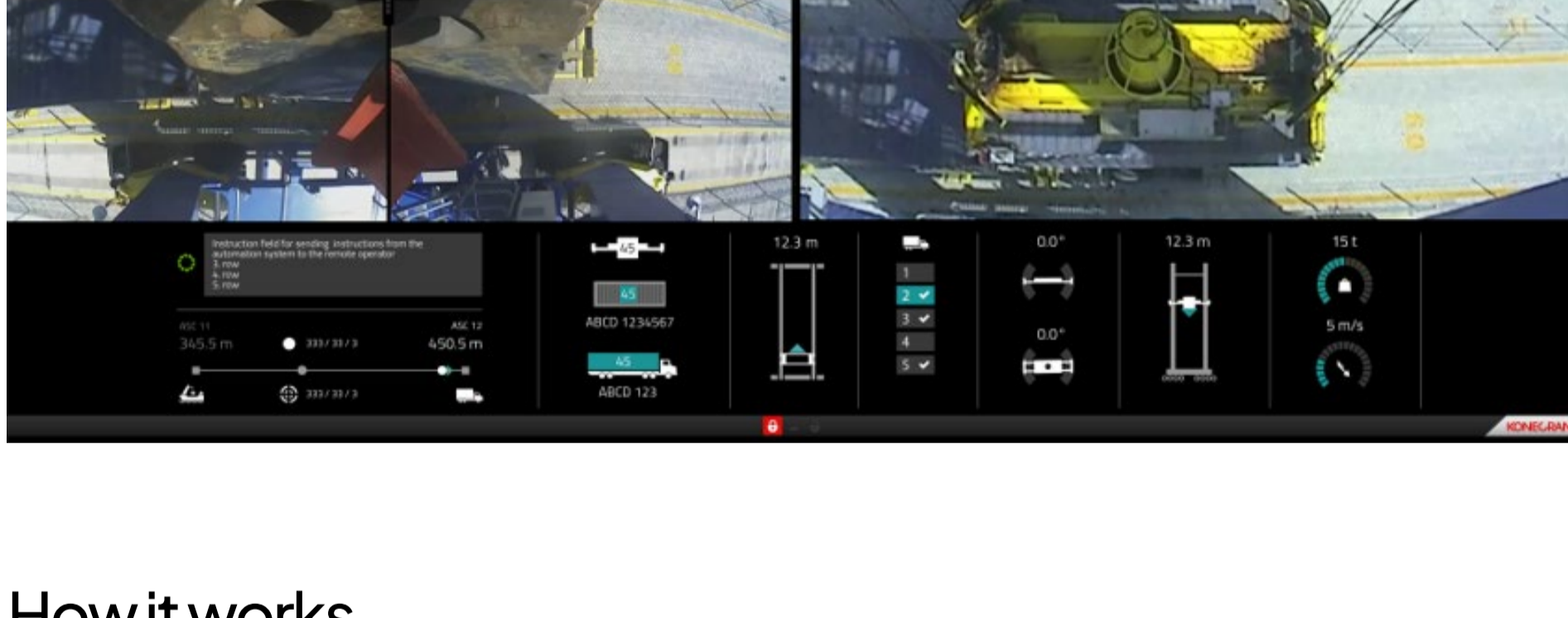


**Tailored for Crane Operators**  
The ROS desk is equipped with controls that can be normally found in any crane cabin. The main components are the video display, joy sticks and the touch panel.

**Easy to Learn and Use**  
Entire UI/UX designed in-house by Konecranes for ease-of-use, safety and rapid uptake in any language.



**More Comfort and Control**  
Less neck and back strain than RTG seat position. Desk, monitor and controls can be adjusted. Screen and table meets the EN 894 ergonomics requirements for the design of displays and control actuators.



### How it works

- An operator logs into any ROS at the beginning of his or her shift.
- Our software interfaces with any TOS and delivers personalized work orders directly to the crane operator's touch panel once they have logged in.
- 11 high-definition live-feeds per crane are fed to the ROS via 1Gb/s ethernet, fibre or wireless connection.
- The operator selects the work order from the panel and executes the job like in the normal manual crane.

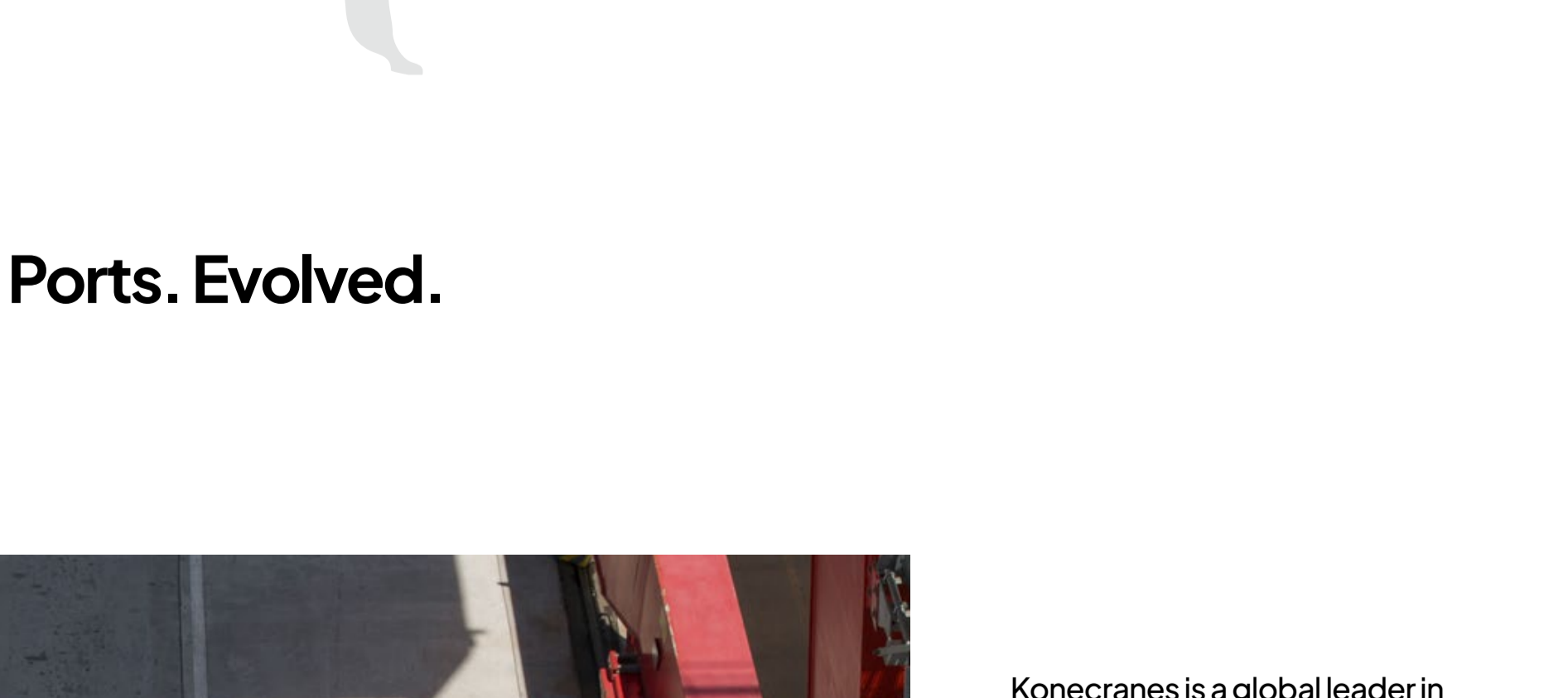


### What you need to know

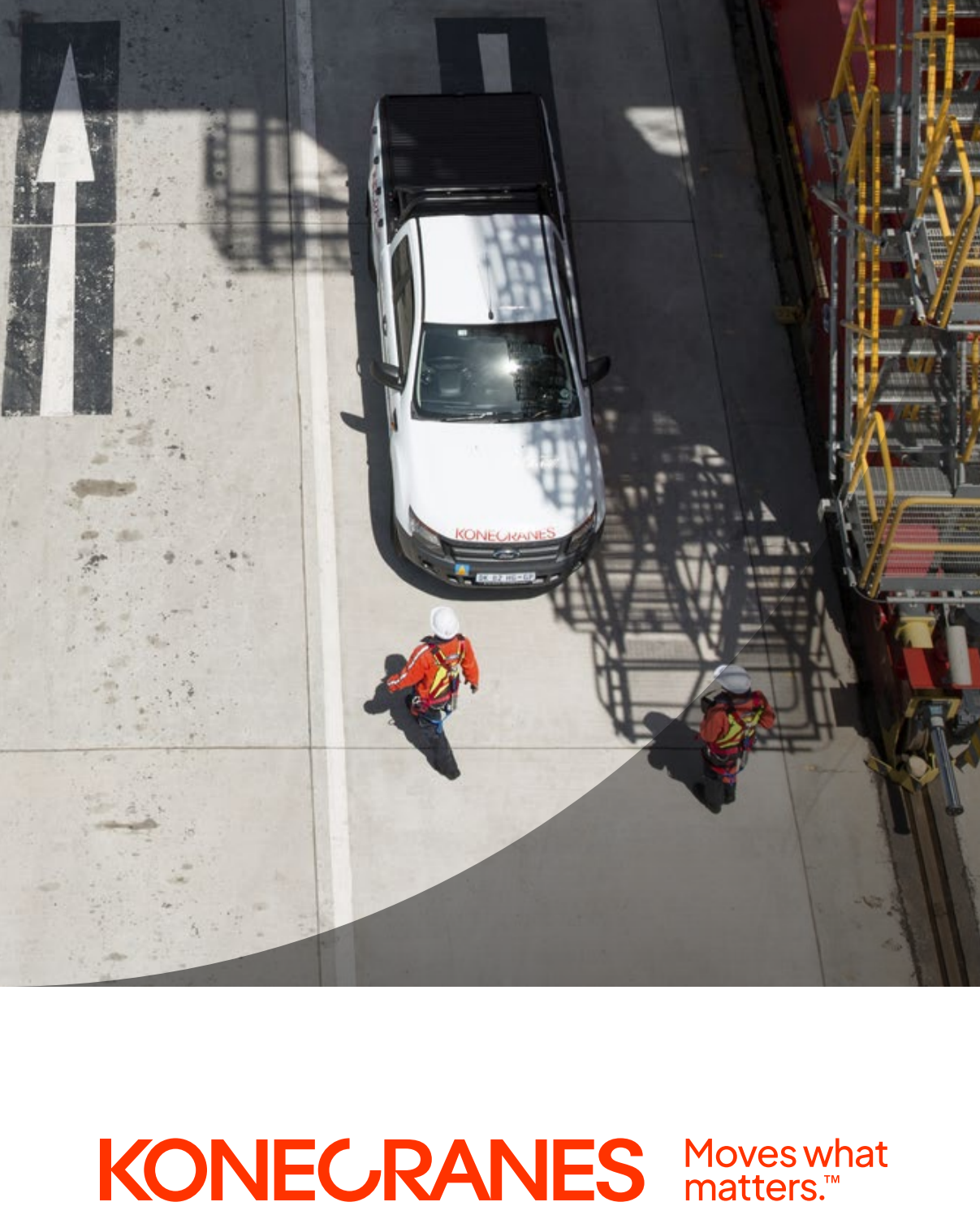
- An Ethernet connection with a standard 1 Gbit/s data transfer capacity between each crane and the customer's server room is required to ensure stable, high-res and real-time streams from the cameras. NOTE: Individual cranes do not consume that amount of data.
- The required connectivity between the crane and server room can be achieved by using fiber optics in the cable reel, Waveguide-based system on busbar or completely wireless.
- Ask for our white paper on our totally wireless solution – a robust solution with industrial grade reliability, and industry-leading stability and speed.
- Customer must provide appropriate facilities (including all utilities) for the remote operating centre.

### Selected References

(Click on for the full case study.)



### 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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