The Yard REVOLUTION AUTOMATED RTG



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AUTOMATED RTGs: A HUGE NEW



Automated container handling is well-established in Automated RMG (ARMG) container yards around the world. The benefits of automating a container terminal operation are well-known: increased safety, greater productivity and better predictability. It's time to bring these important benefits to your RTG-based container terminal operation. Now you can factor automation into your business planning: the future of your RTG container terminal just got brighter.

OPTION

Join the yard revolution with Automated RTGs (ARTGs). You can use your existing yard infrastructure, including the yard surface.



ARTG SYSTEM OVERVIEW

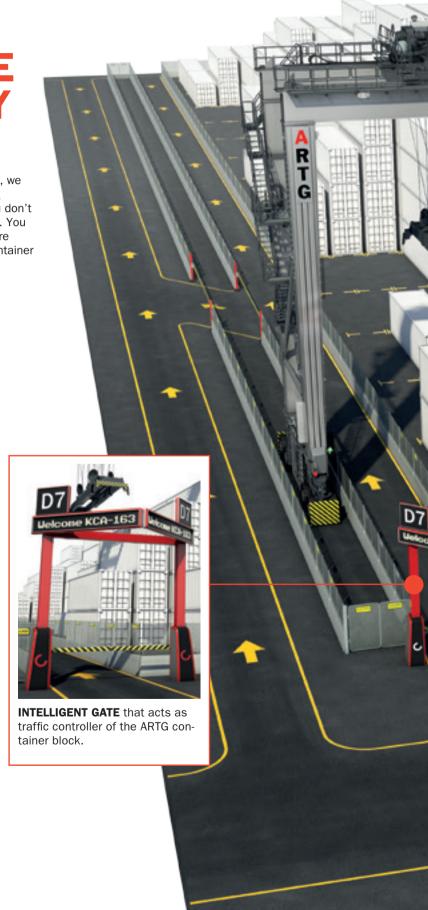
WE HAVE THE TECHNOLOGY

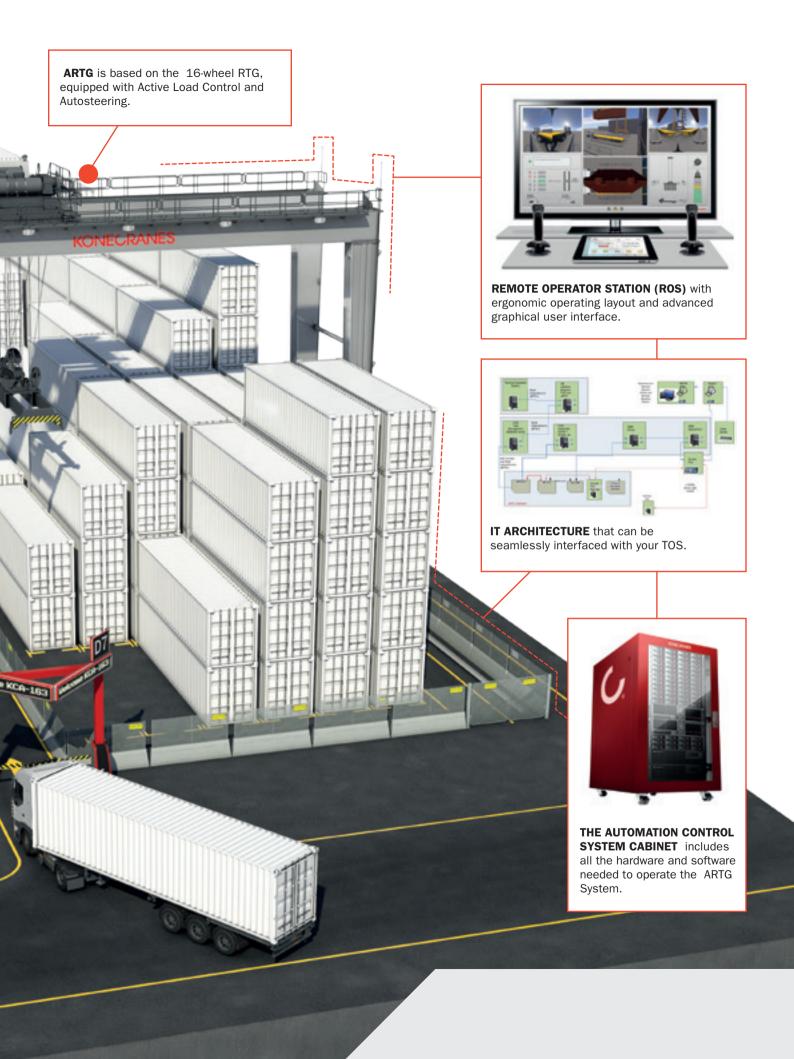
Automated RTG operation is within your reach.

If you already have RTGs with Active Load Control, we offer an upgrade package that contains everything needed to move to Automated RTG operation. You don't have to make heavy investments in infrastruc-ture. You can use your current yard, starting with one or more container stacks. If you're planning a new RTG container terminal, this is a great opportunity to build an Automated RTG operating model with us.

THE ARTG SYSTEM COMPRISES:

- 16-wheel RTG with Active Load Control and Autosteering
- RTG power option: one of cable reel, busbar, diesel fuel saver
- Process study of yard set-up
- · Automation hardware
 - Remote Operating Station (ROS)
 - Truck guidance system (lights)
 - Intelligent gate
- Yard infrastructure as needed
- Automation software
 - Operating system for ROS
 - IT architecture with TOS interface





IT'S ABOUT TOLERANCE...

Time will tell, but the RTG is probably the only RTG in the world that can be automated successfully for full-scale commercial terminal operation.

16-wheel RTGs have the built-in toler-ance to handle a rough yard surface in automated operation. This ability is the result of the holistic design of the RTG, which brings together an intelligent steel structure that can flex like no other, and our Active Load Control system that eliminates container sway.

...OF LOCAL VARIATION

The ARTG is built to handle the technical challenges of container positioning and measurement in automated operation.

TOLERATING VARIATION IN THE RUNWAY SURFACE

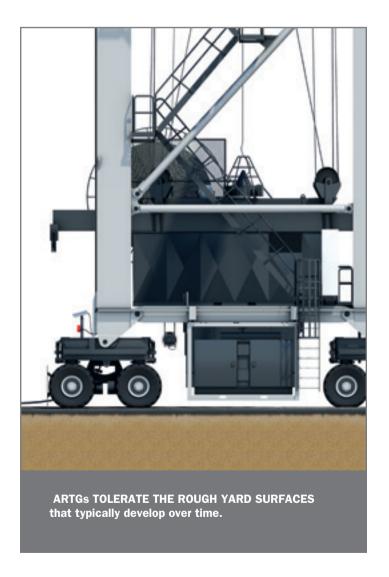
- Slope variation
- · Differences in height
- · Bumps and obstacles

TOLERATING VARIATION IN THE STACKING AREA

- Container bays can be at different angles to the crane
- Each container ground slot can have variations in stacking angle and height

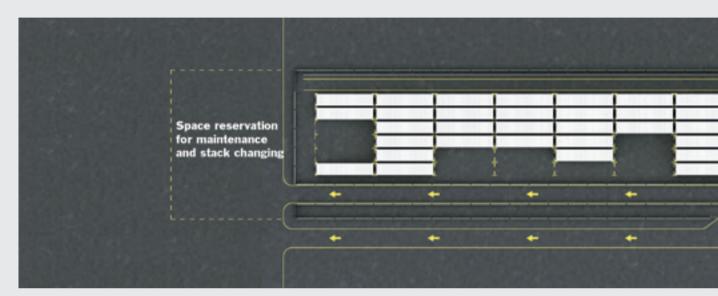
TOLERATING THE RUBBER TIRES

Variations in tire condition and inflation



ARTG SYSTEM FUNCTIONALITY

HERE IS THE PROCESS



THE BASIC ARTG CONTAINER BLOCK LAYOUT. ARTG block operations are side-fed. ARTG gantry movement is limited as much as possible. The truck drives to meet the ARTG for loading/unloading operations.

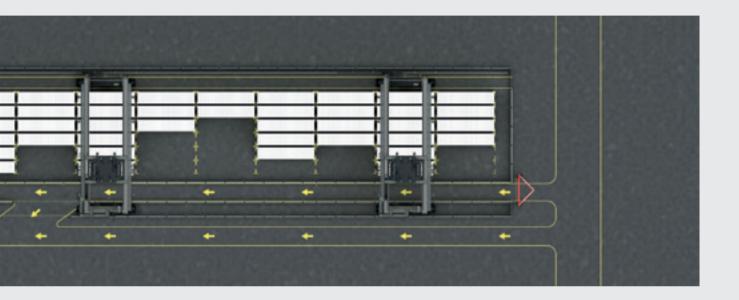


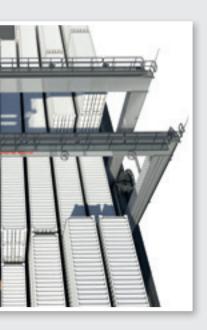
The design of truck traffic, safety fencing and gates can be terminal-specific based on a modular solution.



Stacking inside the container stack is fully automated.

ARTG technology is field-proven in a number of important Automated RMG (ARMG) reference terminals. Our ARTG technology and operating methodology are similar to those employed in these ARMG terminals.







Truck loading and unloading is done by the remote operator in the Remote Operating Station (ROS). One remote operator can handle up to 6 ARTGs.

JOIN THE YARD REVOLUTION



ARTG PERFORMANCE

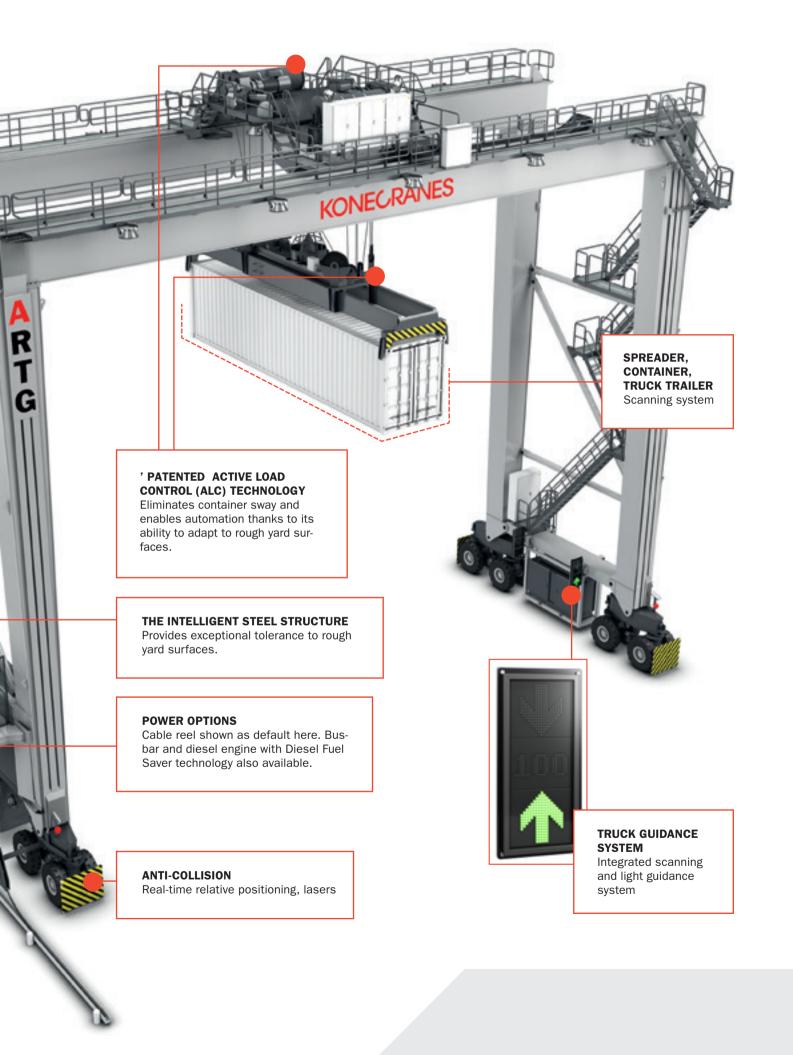
Dimensions with max. 1 over 5 and max. 7 + truck lane, mm	
Max. lifting height 1 over 5 / Max. span 7 + truck lane	18100/29500
Crane width over bogie guards/wheel spacing in bogie	12060/2100

Max. speeds, m/min.	
Hoist with 50-ton load/empty spreader	31/62
Trolley traversing standard/optional	70/76
Gantry travel with empty spreader/50-ton load	135/90

GANTRY TRAVELING

- Dual antenna DGPS Autosteering
- Twin base station with automatic switch-over for redundancy





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