



INDUSTRIAL  
CRANES

NUCLEAR  
CRANES

PORT  
CRANES

HEAVY-DUTY  
LIFT TRUCKS

SERVICE

MACHINE  
TOOL  
SERVICE

INDUSTRIAL CRANES  
NUCLEAR CRANES  
**PORT CRANES**  
HEAVY-DUTY LIFT TRUCKS  
SERVICE  
MACHINE TOOL SERVICE

CONTAINER HANDLING

**KONECRANES**<sup>®</sup>  
Lifting Businesses™

## Ship-to-Shore gantry crane RELIABILITY BUILT ON EXPERIENCE



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 and machine tools of all makes. In 2009, Group sales totaled EUR 1,671 million. The Group has 9,800 employees at 545 locations in 43 countries. Konecranes is listed on the NASDAQ OMX Helsinki Ltd (symbol: KCR1V).

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## SMARTER FROM EVERY PERSPECTIVE

### Operations

#### RELIABILITY AND PERFORMANCE

- Commitment to root-cause support
- On BoxHunter trolley Active Load Control (ALC) for quick load positioning
- Service modularity applied for quick crane recovery
- All key components from industry-leading suppliers, no copies used

### Maintenance

#### EASIER, LESS FREQUENT MAINTENANCE

- Reduced hydraulics, mechanical anti-sag protection, electro-mechanical trim, list and skew
- Solution synergy applied to reduce the amount of separate machinery and components (anti-sway, side shift, skew and trim)
- Service modularity applied for quick and less frequent maintenance (direct gantry and trolley drives, flange-mounted motors)

### Driver

#### SAFETY AND ERGONOMICS

- 'All-in-Controllers' for absolute driver focus and uninterrupted load handling
- Safe crane access all the way to the top via rigid walkways and platforms or by elevator
- Enclosed machinery

### Finances

#### LOWEST LIFECYCLE COST

- Dedication to long-term partnership
- Equipment designed based on the Total Cost of Ownership approach
- Reduced hydraulics enabling dramatic operational cost savings
- Low energy consumption (see Community)
- Fewer spares and less maintenance (see Maintenance)
- Higher performance for reduced cost/TEU (see Operations)

### Community

#### ENERGY SAVING

- Reduced hydraulics
- With BoxHunter quick and precise load positioning without moving the weight of trolley or gantry
- Optimized equipment weight due to intelligent structure and trolley design
- Energy-saving Konecranes drives designed for crane use
- Regenerative power feedback for lowest energy consumption and emissions

### Terminal Manager

#### BEST PERFORMER IN EVERY RESPECT

- Quick vessel turnaround times
- Safety a priority
- Lower emissions and cost

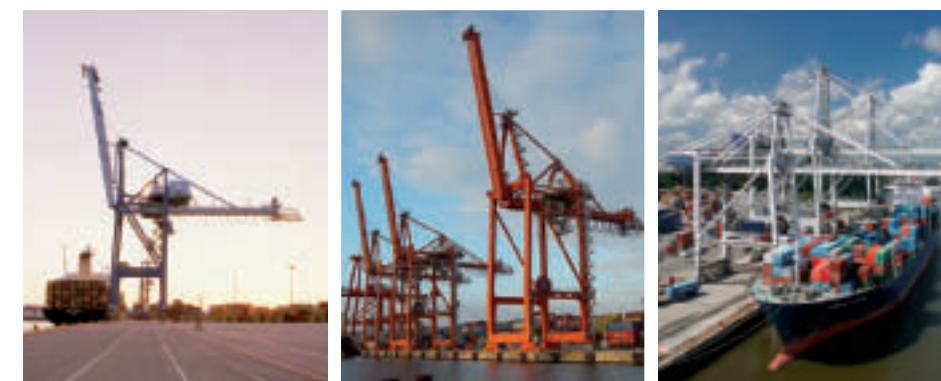


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# DATA SHEET

- ACTIVE LOAD CONTROL
- NO HYDRAULICS
- SOLUTION SYNERGY
- SERVICE MODULARITY
- INTELLIGENT STRUCTURE



**Panamax**                      **Post Panamax**                      **Super Post Panamax**

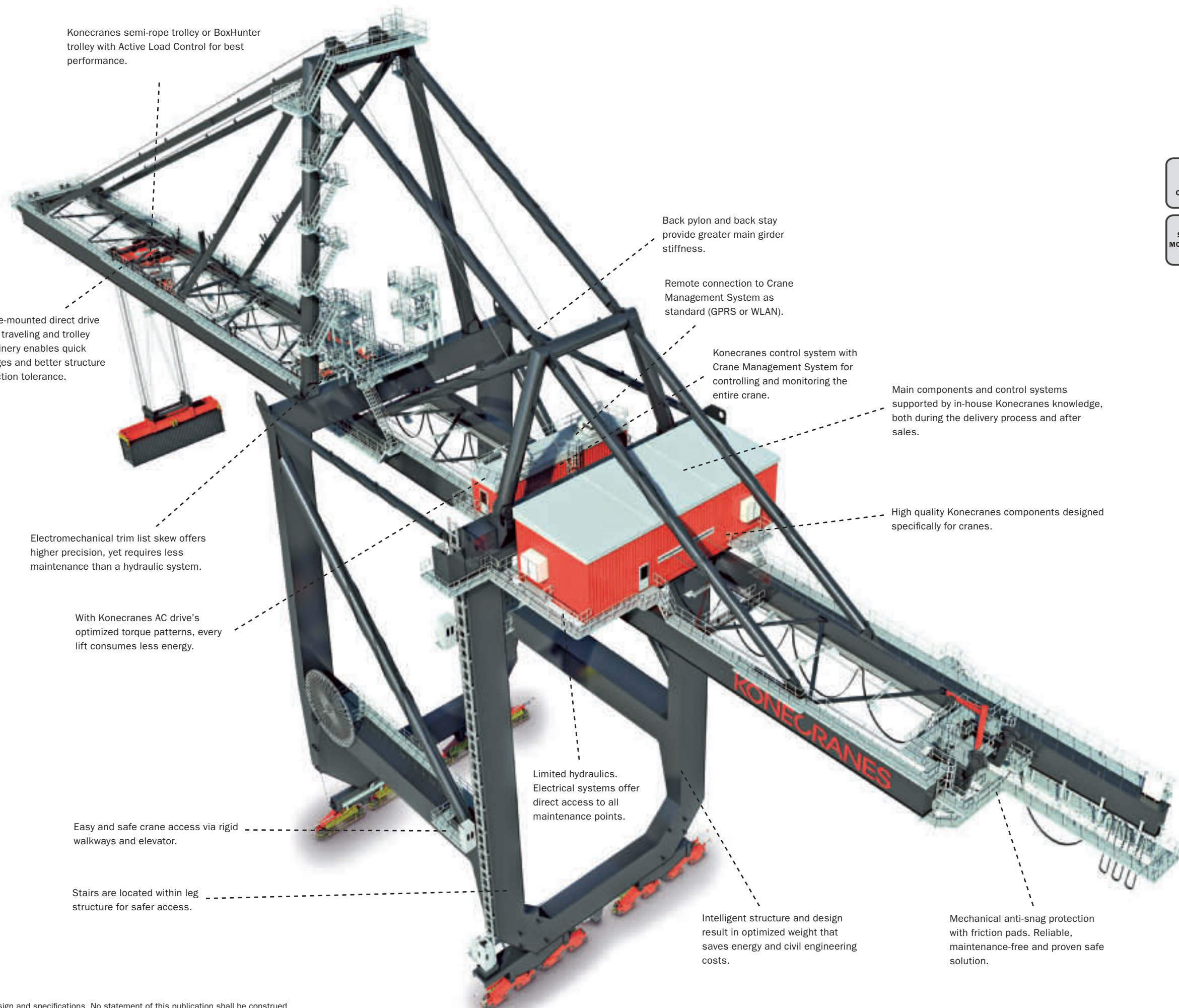
	Panamax	Post Panamax	Super Post Panamax
<b>Lifting Capacity</b>	40-50 tons	50-65 tons	50-70 tons
<b>Dimensions</b>			
Outreach	up to 13 rows	up to 18 rows	22-24 rows
Lifting height	28-32 m	32-36 m	36-40 m
<b>Speeds</b>			
Gantry travel speed		45 m/min	
Hoisting speed empty	120 m/min	150 m/min	180 m/min
Hoisting speed laden	60 m/min	75 m/min	90 m/min
Trolley speed	150 m/min	180 m/min	210-240 m/min
<b>Trolley type</b>	Semi-rope trolley or BoxHunter (with Active Load Control)		
<b>Spreader</b>	Electrical (Hydraulic)		
Spreader drive	Electrical (Hydraulic)		
Floating twistlocks	ISO		
Positions	20 ft, 30 ft, 40 ft, 45 ft, twin, single, twin twenty and long twin		
<b>Quay interface</b>			
Rail span	15-23 m	18-30,48 m	26-30,48 m
Bogie arrangements	8 wheels per corner, or more depending on maximum admissible wheel loads		
<b>Typical wheel loads</b>			
	35-45 tons/wheel	45-70 tons/wheel	46-90 tons/wheel
	30-40 tons/m	35-55 tons/m	45-65 tons/m

\* wheel loads are calculated case-by-case, according to the crane dimensions and the local conditions.

<b>Maintenance</b>
Konecranes Crane Management System
GPRS connection for Remote Diagnostics

# WORLD'S SMOOTHEST RIDE

Konecranes Ship-to-Shore gantry cranes are the workhorses of any high performance container handling operation. They work 24/7, giving more value to your investment. Konecranes' goal is to ensure that you get the best performance of your cranes throughout the lifetime of the cranes. Our new design improves the crane operator's control, ensuring the world's smoothest ride. High operational performance and low running costs mean positive impact on your business. Konecranes will take care of your cranes in all phases during the lifetime of the cranes.



Konecranes semi-rope trolley or BoxHunter trolley with Active Load Control for best performance.

Flange-mounted direct drive on all traveling and trolley machinery enables quick changes and better structure deflection tolerance.

Back pylon and back stay provide greater main girder stiffness.

Remote connection to Crane Management System as standard (GPRS or WLAN).

Konecranes control system with Crane Management System for controlling and monitoring the entire crane.

Main components and control systems supported by in-house Konecranes knowledge, both during the delivery process and after sales.

High quality Konecranes components designed specifically for cranes.

Electromechanical trim list skew offers higher precision, yet requires less maintenance than a hydraulic system.

With Konecranes AC drive's optimized torque patterns, every lift consumes less energy.

Limited hydraulics. Electrical systems offer direct access to all maintenance points.

Easy and safe crane access via rigid walkways and elevator.

Stairs are located within leg structure for safer access.

Intelligent structure and design result in optimized weight that saves energy and civil engineering costs.

Mechanical anti-sag protection with friction pads. Reliable, maintenance-free and proven safe solution.