



## KCI Special Cranes

With suppliers all over the world, KCI Konecranes is the leading supplier of harbour and shipyard cranes, industrial overhead cranes, hoists and maintenance services.

KCI Special Cranes is a fully owned subsidiary of the KCI Konecranes Plc. KCI Special Cranes has delivered over 600 harbour and shipyard cranes to customers in over 40 countries. Our first container handling cranes were delivered back in 1967.

## New generation of RMG cranes

The Konecranes **R**ail **M**ounted **G**antry crane is a successful example of the intelligence built into the product. The design utilizes well proven Konecranes components combined in a simple way ensuring the minimum maintenance and maximum reliability as well as providing performance consistent with all customer requirements.

A sophisticated Load control System without hydraulics, full AC frequency controlled drives with maintenance free squirrel cage motors form the basis of this very advanced RMG crane.

The key innovations of the Konecranes Rail Mounted Gantry crane are world wide patented.

## Performance exceeding your needs

The performance and the basic features of the Konecranes RMG crane are designed to satisfy the needs of all RMG crane users.

### MAIN DATA

|                          |                       |                      |
|--------------------------|-----------------------|----------------------|
| Lifting capacity         | up to 50,8 tons       | (50LT)               |
| Lifting height           | 1 over 3 ... 1 over 5 |                      |
|                          | 12 ... 18m            | (39 ... 59 feet)     |
| Span                     | 19 ... 50m            | (62 ... 164 feet)    |
| Outreaches               | up to 12m             | on one or both sides |
| Hoisting speed with load | 30m/min               | (100 fpm)            |
| with empty spreader      | 60m/min               | (200 fpm)            |
| Trolley traverse speed   | up to 150 m/min       | (492 fpm)            |
| Gantry travel speed      | up to 240 m/min       | (787 fpm)            |
| Slewing trolley (option) | 1... 2 rpm            |                      |



# Konecranes



## Innovative bogie design with realignable wheels

The philosophy of the minimum maintenance needs has been followed also in bogie and gantry wheel design. The RMG gantry wheels are made of surface hardened chrome molybdenum steel, which has exceptionally high impact strength and durability. The wheels can be easily realigned also in site conditions to ensure the smooth gantry travel and minimum wearing of the crane rails.

# nes RMG



## Active Load Control system

The trolley is provided with patented Load Control System for easy, fast and efficient spreader positioning. This system performs:

- sway prevention (anti-sway)
- spreader slewing
- horizontal fine positioning of spreader

Trimming of the spreader is done by independently controlling the main hoisting winches. No additional equipment is required for spreader trim.

### Horizontal fine positioning of the spreader:

Horizontal fine positioning is done by shortening and lengthening the auxiliary ropes. The spreader can be moved up  $\pm 300$  mm in the trolley traverse and gantry travel direction without moving the trolley or gantry.



## Minimum and easy maintenance of the trolley

- No hydraulics
- Easy accessibility to all components
- Proven Konecranes predesigned and engineered components
- No separate trim mechanism
- Flange mounted maintenance free squirrel cage AC motors
- No rope sheaves on the trolley
- No crossing of the ropes
- All trolley wheels center shaft driven

## Power regeneration

The regenerative network braking enables very efficient energy optimization. Traditionally the energy released by lowering the load or braking period has been wasted by the resistor braking. The regeneration units of Konecranes RMG cranes enable to feed the released energy back to the customer's own network. The saving in electricity cost because of the power regeneration can be as high as 70 %.



# World Leading Crane Technology

**KCI Konecranes is the leading crane and crane maintenance provider in the world and operates from over 300 locations in more than 35 countries.**

KCI Konecranes designs optimal solutions for your material handling needs. Based on these solutions, our highly automated in-house component manufacturing creates high quality and quick spare parts delivery.

KCI Konecranes is widely known for its state-of-the-art products. Continuous Research and Development work ensures the reliability of the equipment in various environment and applications. Components designed specifically for material handling applications allow us to offer more value to our customers.

KCI Konecranes is the world's biggest electrical drive supplier for crane applications. We have in-house expertise that can be utilized in connection with all kinds of drive and automation applications.

KCI Konecranes supplies lifting appliances from 125 kg chain hoists up to 3000 ton offshore cranes. We provide services from crane inspections to comprehensive maintenance contracts for your whole plant. Majority of the well over 200.000 cranes under our maintenance contract are manufactured by others. KCI Konecranes' after sales services is the world-class organization backed with the global engineering network.



HARBOUR AND SHIPYARD CRANES

KCI SPECIAL CRANES

P.O. BOX 662 • FIN - 05801, Hyvinkää • Finland

Tel +358 (0)20 427 11 • Fax +358 (0)20 427 2599

