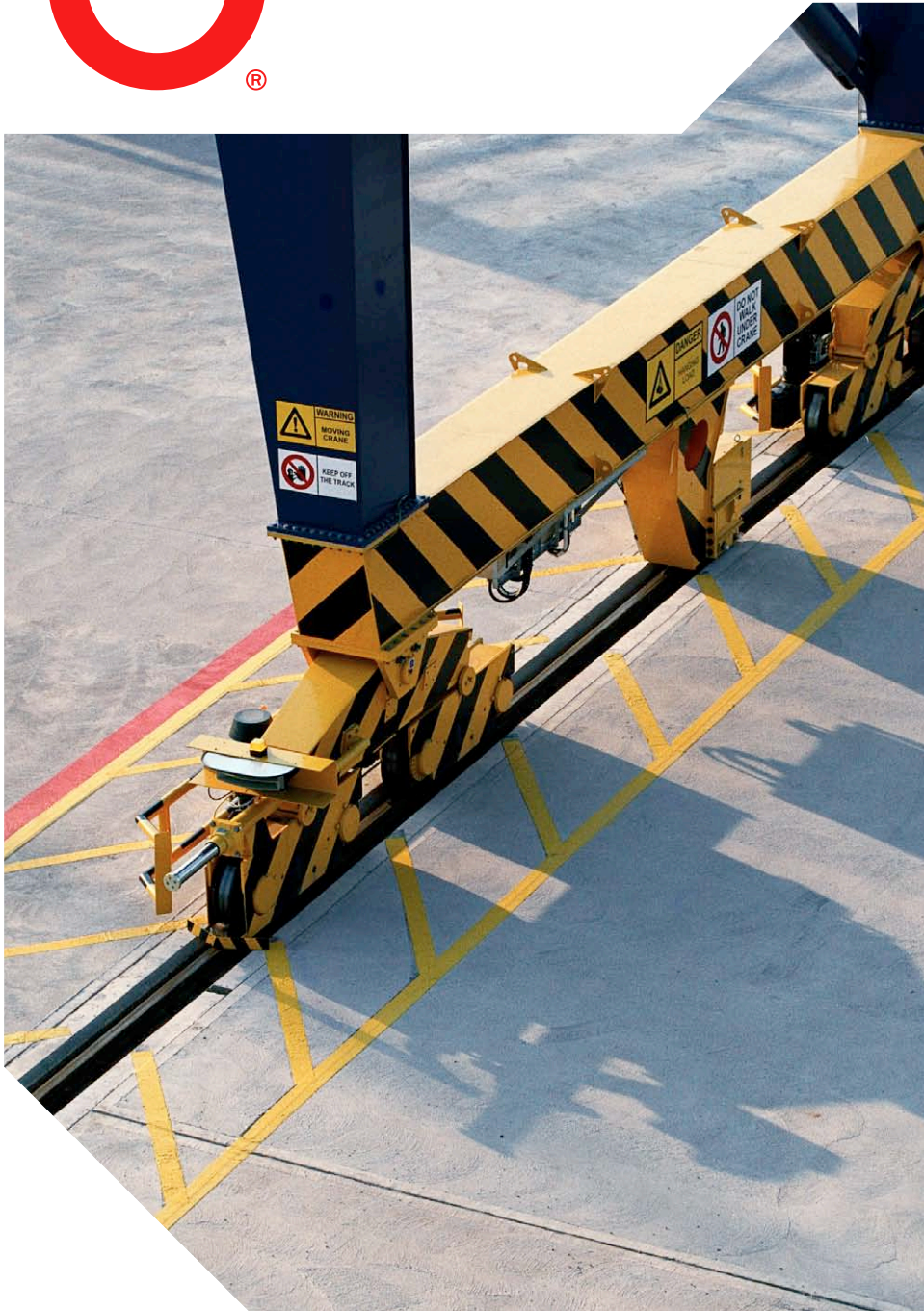


SERVICE
MACHINE TOOL SERVICE
LIGHT LIFTING
INDUSTRIAL CRANES
PROCESS CRANES
PORT CRANES
LIFT TRUCKS
YARD IT

SkewControl

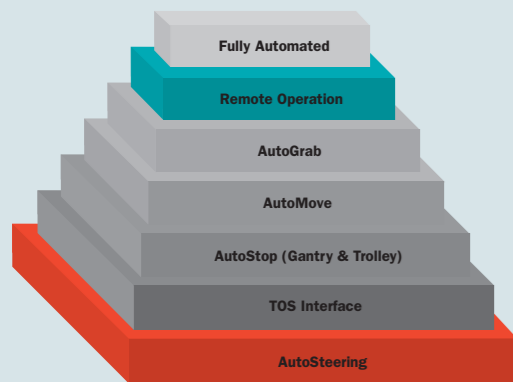
KONECRANES[®]
Lifting Businesses[™]

Combination of excellence **SKEWCONTROL FOR RMG AND SHIPYARD CRANES**



SAFETY THROUGH ACCURACY

Konecranes has the RAAS feature ("Shadow-support") built into the AutoSteering module. In practice the two-antenna solution means that the position/direction of the crane is not lost even if one of the antennae temporarily loses satellite connection due, for example, to a large obstacle such as an STS crane or building. RAAS is Konecranes' own patented GPS-calculation feature (ReAcquisition Accelerator System) and is exclusive to Konecranes.



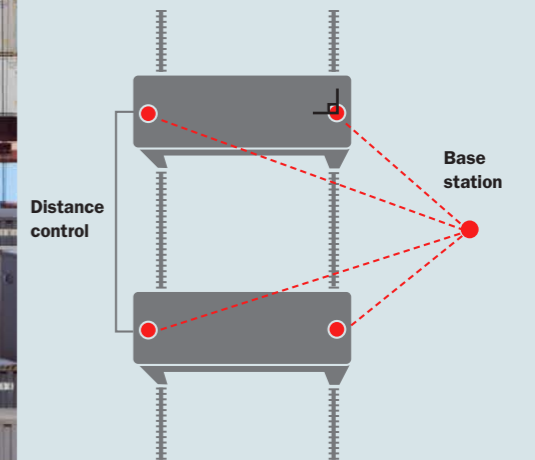
- Step-by-step automation for container operators
- Safe operation
- Does not interfere with daily operations
- Minimal labour issues
- Reasonable costs
- Utilizes existing investments



SKEWCONTROL AND ANTICOLLISION

The AutoSteering technology can be adapted for both RMG cranes on container terminals and also for gantry cranes on shipyards, as a **SkewControl**, where the cranes have an unfavorable steering ratio (rail span vs length of bogie system), thus skewing easily. SkewControl adjusts the travelling speed of each drive system. This corrects the crane perpendicular to rail line. This almost maintenance-free technology therefore replaces the existing inaccurate odometer/encoder wheels with the SkewControl system, which uses inductive sensors for location calibration.

The same system can also be used to control the distance(s) between two or more cranes on the same rails, providing **AntiCollision** protection. Looking ahead, this technology will also be able to be utilized to control the TandemHoist on the Goliath cranes in shipyards.



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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 2008, Group sales totaled EUR 2,103 million. The Group has 9,900 employees, at more than 485 locations in 43 countries. Konecranes is listed on the NASDAQ OMX Helsinki Ltd (symbol: KCR1V).

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