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Crane radio control FASTER, SAFER, EASIER



MOVING TONS WITH JUST THE FLICK OF A FINGER

A crane is typically controlled from a distance. The usual way of controlling a regular assembly workshop crane is by using a pendant controller hanging from the crane or wirelessly with a radio control. In some special applications and full automation cranes, the control method can be a cabin or a separate control room or even a sophisticated ERP system.

A crane radio control needs a transmitter and a receiver. The transmitter is a handheld device for the crane operator and the interface between a crane and an operator. The operator gives commands with the transmitter, and the receiver – usually located in an electrical cubicle of the crane – forwards them to the crane control devices.

Konecranes has two product families for crane radio control, REMOX and MiniJoystick. MiniJoystick is a new, ergonomic radio, designed by Konecranes. The joystick makes the crane controlling extremely ergonomic, and it makes it easy way to control speed.

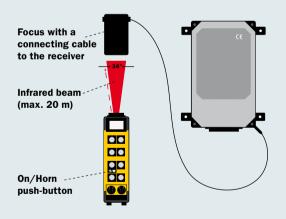


Examples of radio transmitters:
MiniJoystick on the left, REMOX on the right.





Infra-key module and principle



INFRA-KEY

Infra-key is an additional infrared module for crane activation between the transmitter and the receiver. It prevents the crane from becoming inadvertently enabled, thus increasing safety. The range of the infrared beam is approximately 20 meters.



ERGONOMIC IN DESIGN, ROBUST IN STRUCTURE

Konecranes MiniJoystick radio takes the ergonomy of controlling cranes to the next level. It is lightweight, easy to use and starts up fast. The joystick is for controlling the travelling movement of the crane and hoist, and the buttons are for lifting and lowering. The joystick allows the user to control the load with just a single grip and enables the operator to concentrate fully on the load.

MiniJoystick radio:

Applications: Cranes, Solo hoists, Chain hoists with motorized trolley (bridge)

Operation: Indoor, outdoor (when no need to install the receiver inside the bridge panel)

Control elements: 2-step joystick,

2-step push-buttons

Enclosure ratings: IP65 / NEMA4

Operating temperature range: -20 to 70 °C

(-4 to 158 °F)

Receiver power supply: 48, 115 and

230 VAC 50/60Hz

Antenna: Internal antenna in the receiver and in

the transmitter

Transmitter: Operating mode signalling Bi-Color

LED and internal buzzer

Battery: Two Li-lon batteries per system, 3.7 V / 1130mAh, over 16 hours operating time

with 50% duty cycle

Connections: Standardized Konecranes

Corporation connections

Carrying options and protection: The radio transmitter includes protective silicone cover, carabiner hook and wrist strap as a standard.

Certificates: CSA, CCC, CE

Storage: Storage cabinet with a key as an option

MiniJoystick radio control transmitter model:





PRECISION IN CRANE CONTROL

REMOX radio control increases efficiency and reduces operating risks. It allows the operator to have a good view of the load in the hook and to manually assist it, if necessary. A crane equipped with Smart Features – together with an intelligent HIM (Human Interface to Machine) transmitter – is a serious tool for even the most demanding applications.



REMOX radio transmitters use an iLOG key to store all the important data of the radio system. The key can be transferred to a spare transmitter and it will immediately have the correct frequency and the same system functionalities as the original transmitter.





Left: iLOG key.

Right: REMOX transmitter models MI, EC and SP have a vibration alarm as standard. When the battery is running low, the alarm goes off and the transmitter starts vibrating. Vibration alarms are optional in some models.

Available REMOX transmitter models:



QU = Push-button model



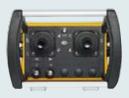
MI = Push-button model



M2 = Push-button model with display for ControlPro condition monitoring



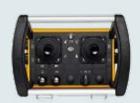
EC = Mini-joystick model, two joysticks



SP = Joystick model, two advanced joysticks



S2 = Joystick model, two advanced joysticks and a display for ControlPro condition monitoring



SA = Joystick model with two analog joysticks

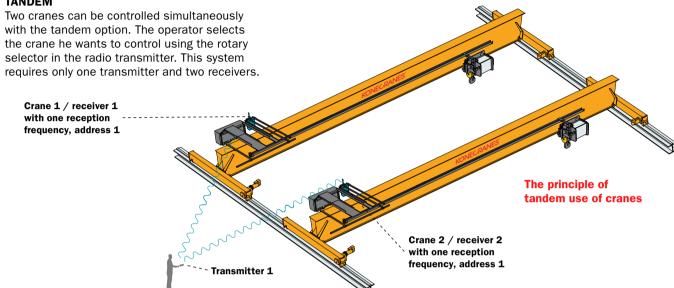


A lockable storage cabinet with two keys for transmitter storing is available for all REMOX models.

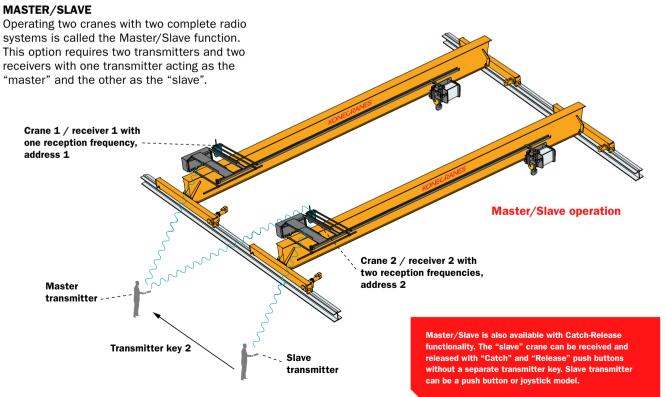


Optional features of KONECRANES RADIO CONTROLS

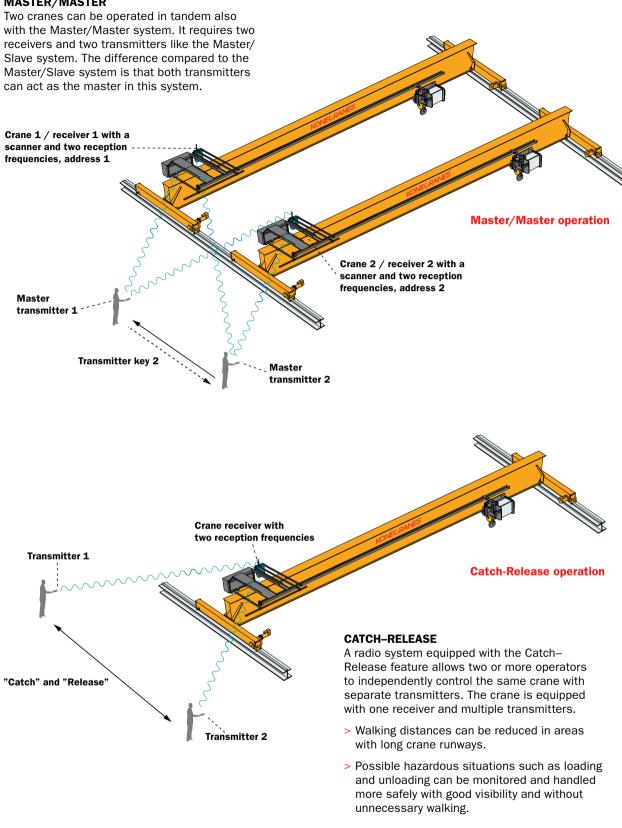
TANDEM



MASTER/SLAVE



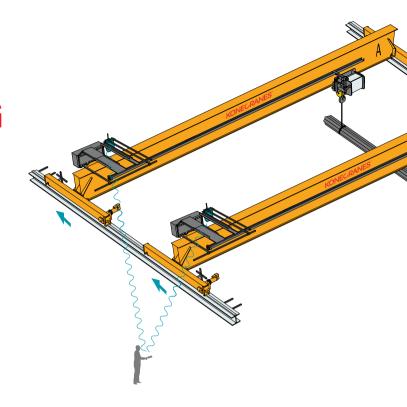
MASTER/MASTER

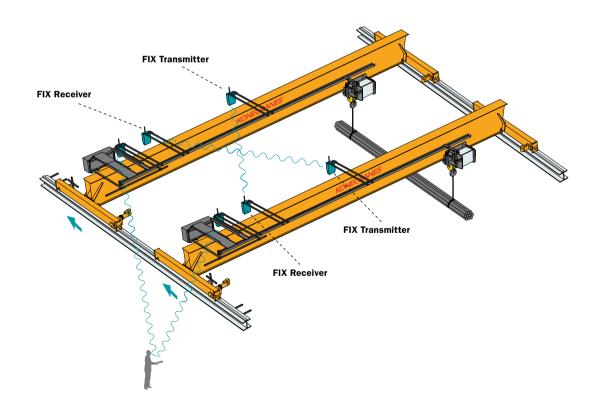


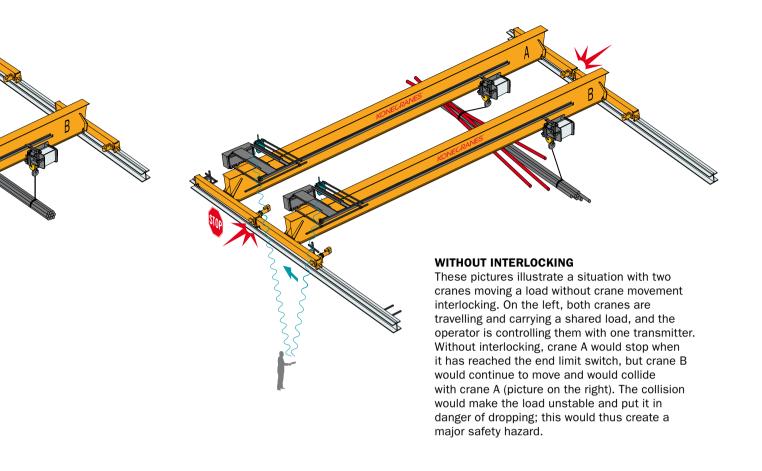
CRANE MOVEMENT INTERLOCKING

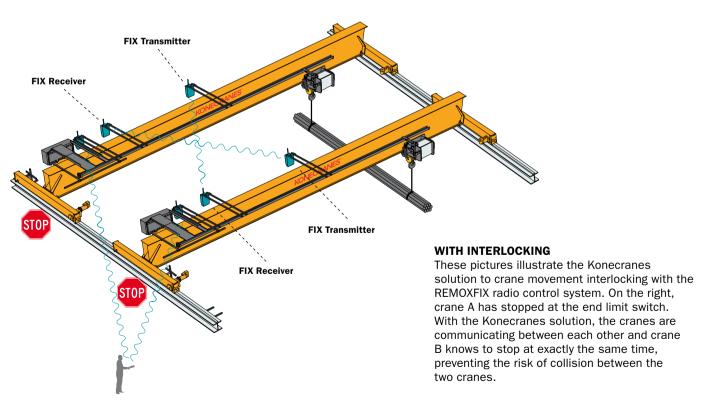
In situations where two cranes are carrying the same load, it is crucial for safety that the load is moved at exactly the same time and speed in each direction. Due to the hazardous nature of this type of load moving, standardization has been created to increase the safety of the employees and of the objects being moved. Konecranes fulfills EN ISO 13849-1 performance level C. We have the industry's most comprehensive monitoring of crane conditions on tandem controls.

Konecranes' REMOXFIX system monitors all the necessary signals between two cranes, to ensure safety. The control system monitors the movements and loads so that the operator can focus only on the effective load moving.











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Konecranes is a world-leading group of Lifting Businesses[™] offering lifting equipment and services that improve productivity in a wide variety of industries. The company is listed on NASDAQ OMX Helsinki Ltd (symbol: KCR1V). With over 12,000 employees at more than 600 locations in almost 50 countries we have the resources, technology and determination to deliver on the promise of Lifting Businesses[™].

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