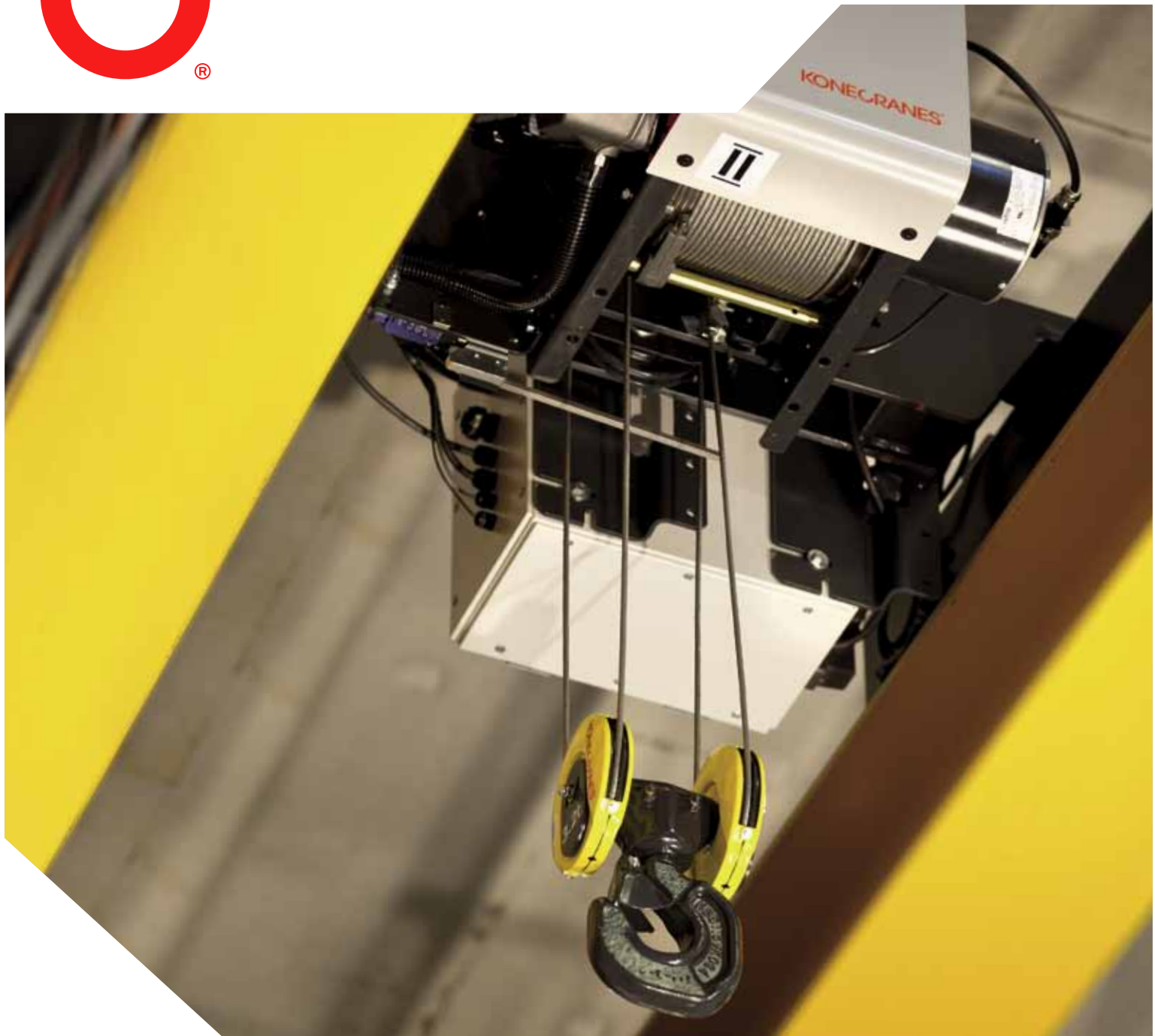


**INDUSTRIAL CRANES**  
NUCLEAR CRANES  
PORT CRANES  
HEAVY DUTY LIFT TRUCKS  
SERVICE  
MACHINE TOOL SERVICE

**CXT CRANES**

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

**A tool with benefits**  
**New, smarter CXT<sup>®</sup> Crane**



# New, smarter CXT<sup>®</sup> crane saves time and money

## DO YOU HAVE A SECOND? WE'LL KEEP THIS BRIEF

Time is money. This often heard phrase is so true when talking about material handling. As a world's leading manufacturer of lifting equipment, Konecranes wants to be a forerunner in developing productivity. To ensure that our cranes are safe, productive, and of the high quality, we make our own key components.

## SHORTER THE WORK CYCLE, LONGER THE LIFE CYCLE

In order to save your time and money, the work cycle of CXT Cranes can possibly be shorter and life cycle long. The CXT Crane is designed and manufactured to meet the common industrial material handling requirements safely and reliably. The CXT Smart Crane, an advanced version of the CXT Crane, has intelligent assisting features that help to make almost anyone a good crane operator. It speeds up load handling and offers unprecedented safety characteristics. The intelligent "brain" of the crane controls the crane's reliable operation; it can also learn to perform new tasks from the operator.

UP  
TO **80**  
TONS



## CXT CRANES

### **CXT Crane up to 80 tons**

Standard CXT cranes can be implemented with a single girder or double girder construction, a fixed single girder system (monorail) or with under-running construction.

### **CXT trolley models for single girder cranes**

- low headroom up to 12,5 tons
- normal headroom up to 40 tons

### **Double girder trolleys up to 80 tons**

Available with fixed installation and machinery hoist. Several trolleys are available for the same bridge; the most common configurations are two or even three trolleys on the same crane. Trolley types can vary.

### **Standardized span solutions up to 30 meters**

Main girders with a profile- or box-beam structure. As a result of our own product development, the optimized end carriages with travelling machineries are designed specifically for crane use.



*This publication is for general informational purposes only and we reserve the right at any time to alter the product design and specifications. No statement of this publication shall be construed as a warranty or condition, express or implied, as to any product, its fitness for any particular purpose, merchantability, quality or representation of the terms of any sales agreement.*

## A crane with a brain

The work cycle is substantially shorter with the Smart Features developed by Konecranes. An experienced operator can operate any crane fast and almost anybody can operate an intelligent crane fast and precisely. The advanced functionalities, like sway control, positioning and protected area functions, enable fast and safe load transfer even when the operator is not a seasoned professional.

Konecranes is a forerunner in the design and manufacture of intelligent cranes. We can offer functionalities that facilitate the use of a crane and add to safety, as well as intelligent solutions tailored to specific customers. As a world leading crane manufacturer, we have the knowledge and the resources to build the best cranes in the market.

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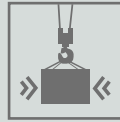
*According to a study by the Department of Mechanical Engineering, Georgia Institute of Technology, a crane with sway control is 60% faster than an ordinary crane.*

*(A. Khalid, W. Singhose, J. Huey and J. Lawrence: Study of operational behavior, learning and performance using an input-shaped bridge crane. Proceedings of the 2004 IEEE International Conference on Control Applications, 2004, pp.759-764)*



## SMART FEATURES

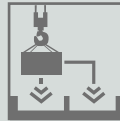
**SWAY CONTROL** prevents the load from swaying. Keeps the load stable and on its intended path, reducing the average work cycle time dramatically.



**WORKING LIMITS** help the operator define the working area by doing the settings from the radio controller. Load movement can be temporarily restricted to one direction, for example.



**PROTECTED AREAS** are no-go areas which operator cannot adjust. Up to 16 protected areas can be defined, allowing valuable machinery, busy working areas or other areas to be protected from possible operator error.



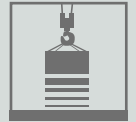
**POSITIONING** means that the operator can position a load to a predefined spot easily. With this assisting automation feature, the whole work cycle can be handled with only two buttons. Over 100 positions can be defined from the radio controller by the operator.



**ASR & ESR** allows the hoist to run at a higher than nominal rated hoisting speed with light loads. This Smart Feature significantly reduces load cycle and waiting times.



**SHOCK LOAD PREVENTION** ensures smooth load pick-up. The hoist drive monitors the load. If the load is picked up too roughly, the hoisting speed is automatically reduced until the load is in the air. This reduces load shocks to the crane's steel structure and mechanical parts and to the building.



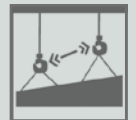
**MICROSPEED** slows the speed of normal crane movements and increases their precision. This feature helps to give the operator more load control in narrow and tight places where safety is paramount for the operator and for the load.



**INCHING** is another way to approach the destination with great accuracy. Predefined distances can be given to the crane, e.g. 25cm (~10") for hoisting movement. When this feature is switched on, the hoisting movement travels only that predefined distance.



**SYNCHRO** is a feature that synchronizes the movements when the crane has two or more hoists. This feature makes it easier and safer to handle long loads because all hoists can be operated from the same radio controller.



**60%  
FASTER**

## Communicating with cranes

Good crane operating characteristics and ergonomics guarantee good cooperation between the crane and the user.

The crane must function smoothly and safely, and it must endure heavy loads for many years. Konecranes is continuously developing its products to improve usability, ergonomics, and features that enhance the work process. Good design is one of the best ways to prevent delays caused by accidents or wear.

Konecranes' remote services represent top technology. Remote services make it possible to monitor crane use, determine the need to replace worn parts, and diagnose possible fault situations.

Maintenance and remote services together increase the usability and life span of the crane.

Technology frontrunners are able to keep products up to date for a longer period of time. A well serviced crane will last long. The life span and costs of the crane are something to consider when making the investment. Konecranes cranes are among the top in the industry.

The use of Konecranes' preventive maintenance and fast servicing can save time, prevent damage and thus result in a significant financial savings.

*Content of the remote services are agreed separately.*

**KNOWLEDGE  
IS POWER**

**TRUCONNECT®** is a suite of Remote Service products ranging from periodic data reporting to real-time diagnostics, technical support and production monitoring.

**TRUCONNECT® Remote Monitoring and Reporting** Remote monitoring and reporting service monitors the real usage of your equipment through a remote connection. Using the available usage data we provide you with information that can help you increase the safety of your crane usage, optimize your maintenance spending, and plan and budget your crane fleet's modernization needs in advance.

**Crane Reliability Survey (CRS)** is an in-depth analysis for overhead lifting equipment. The Crane Reliability Survey provides a roadmap for improving equipment performance and reliability. Konecranes has highly experienced teams to conduct the Crane Reliability Survey on all makes and models of cranes.

**The RailQ service** is a preventive maintenance service in which the rails of electric overhead traveling cranes are measured in order to detect any rail damage and variations in alignment before they disrupt production.

**The RopeQ inspection** checks both the exterior and the interior of the ropes (consisting of up to 400 separate wires) for evidence of wear. RopeQ Inspections improve the safe use of the wire rope during its installed life.



INDUSTRIAL  
CRANES



NUCLEAR  
CRANES



PORT  
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HEAVY DUTY  
LIFT TRUCKS




SERVICE



MACHINE  
TOOL  
SERVICE



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 11,500 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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