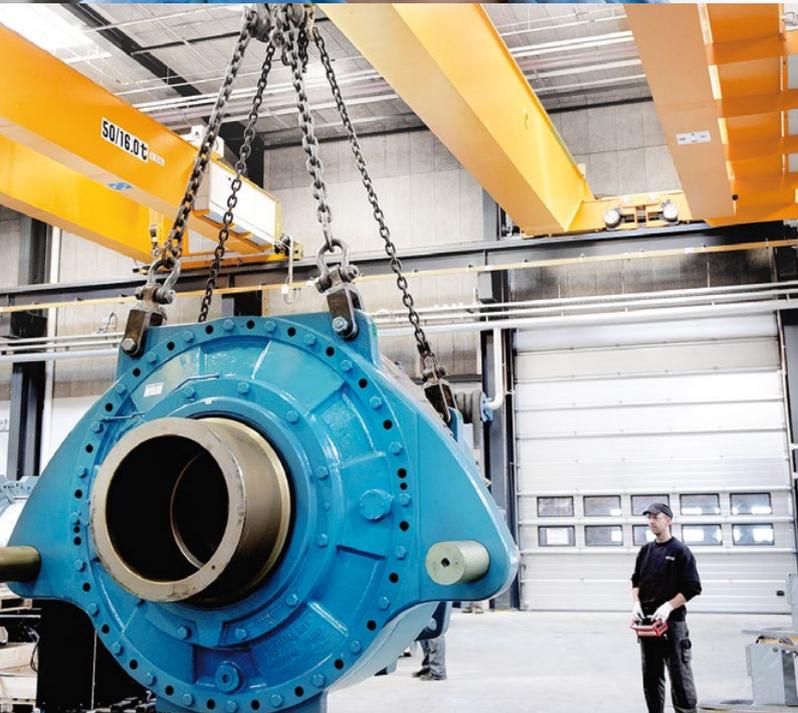


INDUSTRIAL CRANES  
NUCLEAR CRANES  
PORT CRANES  
HEAVY-DUTY LIFT TRUCKS  
SERVICE  
MACHINE TOOL SERVICE

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

THE CRANE WITH A BRAIN  
**SMARTON**<sup>®</sup>







## Over 80 years of experience **IN HEAVY LIFTING INDUSTRIAL APPLICATIONS**

**Konecranes has over 80 years of experience with heavy-duty lifting applications across a wide range of process industries. Working on the production frontline of industrial customers on every continent, we constantly have our hands on the pulse of the ever-evolving lifting needs.**

One reason that SMARTON has been adopted by many of the world's leading industrial companies is that our R&D efforts are always directly guided by customer needs. Just the right mix of mechanical excellence, lifting intelligence, and service support means that, regarding total cost of ownership, SMARTON works intelligently for your business throughout its lifecycle.



This publication is for general informational purposes only. Konecranes reserves the right at any time, without notice, to alter or discontinue the products and/or specifications referenced herein. This publication creates no warranty on the part of Konecranes, express or implied, including but not limited to any implied warranty or merchantability or fitness for a particular purpose.

# SMARTER LIFTING STARTS HERE

**SMARTON is a built-up heavy duty overhead crane for demanding process, assembly, and maintenance use. Each SMARTON is individually configured and backed by strict quality control and Konecranes global service support. As proof of this, hundreds of SMARTON cranes are already in use around the world.**

## UP TO 250 TONS

SMARTON has a lifting capacity of up to 250 tons with one trolley and up to 500 tons with two trolleys. The crane's speed range is wide, and duty classes range from M3 to M8 (CMAA Class A-F).

## PROVEN TECHNOLOGY

In-house design and component manufacturing, together with serial production ensure high quality and reliability. An example of this is the Konecranes CORE OF LIFTING, an engineered solution consisting of motor, gearbox and control unit, which forms the foundation for SMARTON's performance, safety, and long life.

## ENERGY EFFICIENCY

SMARTON is a powerful design, but that doesn't mean that its power consumption is big. Energy-saving Konecranes drives are designed especially for crane use, and features like an energy feedback system are available to maximize energy efficiency.

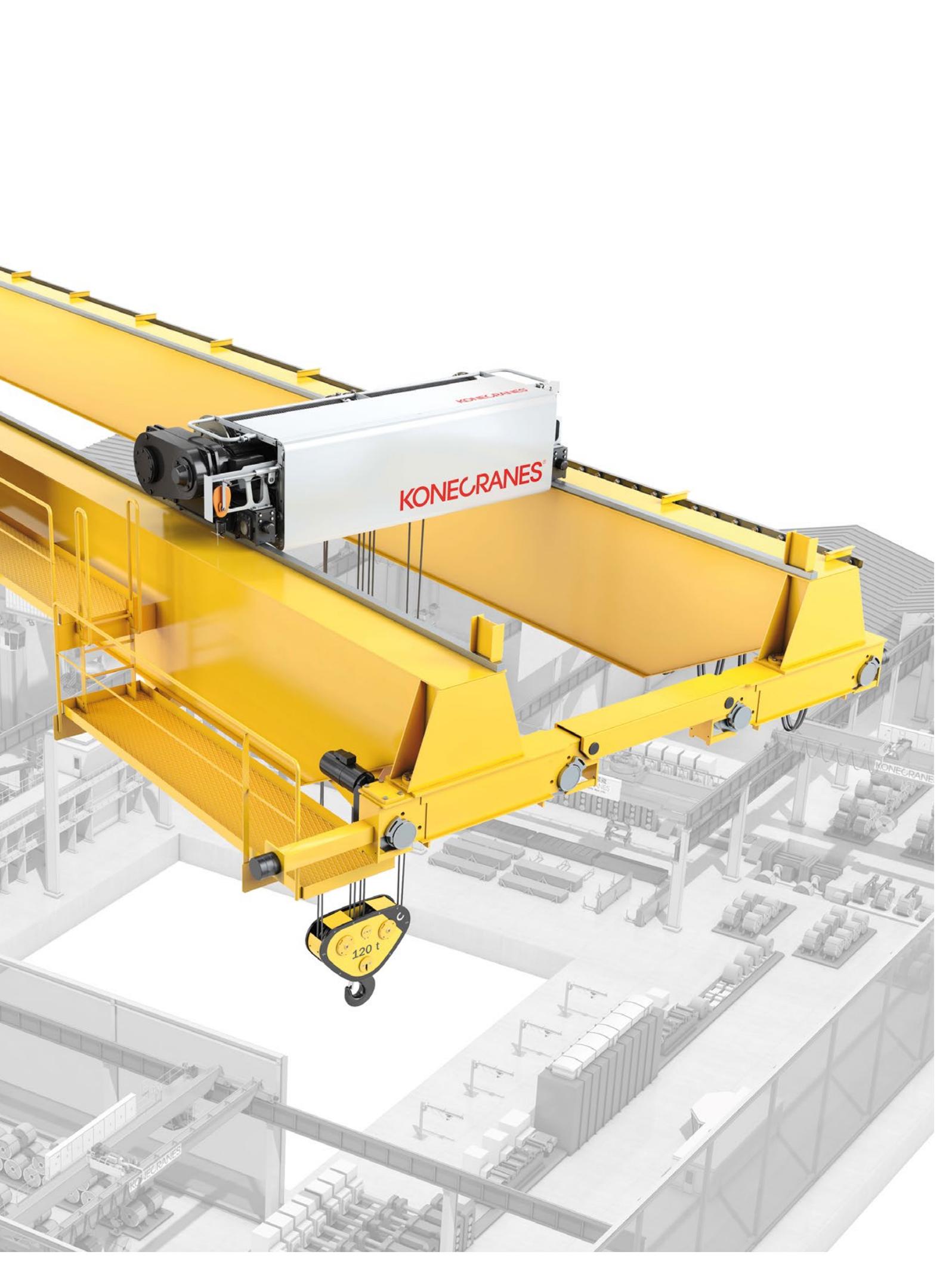
## INTELLIGENT OPERATION

In designing SMARTON, smooth and efficient operation has been one of our leading targets, with intelligence such as Smart Features built in.

## IMPROVED SAFETY

SMARTON is built for safe operation without compromise. Safety can be taken to a totally new level due to the proven design and advanced crane control system.





KONECRANES

120 t

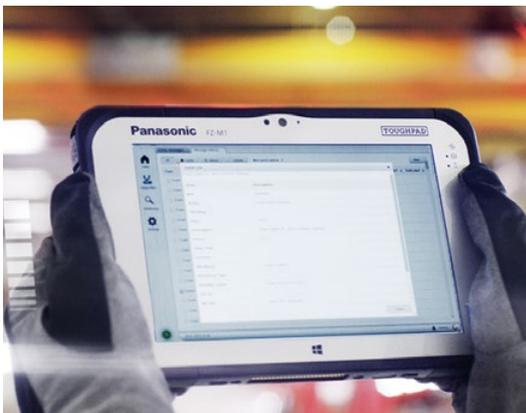
# USER- EXPERIENCE TAKEN TO THE NEXT LEVEL

## EASY TO OPERATE

The SMARTON Tablet is connected wirelessly to the crane control system. Together with the radio controller, it takes operating the crane to a new level by providing process and crane-related information and adjustments. The tablet can be mounted to the radio controller or in the operator's cabin.

## EASY TO MAINTAIN

For maintenance purposes, the SMARTON Tablet provides advanced troubleshooting and condition information of the crane controls. The application allows maintenance personnel to check the crane condition in real time without the need to climb up to the crane service platform. Wireless operation allows flexible use even during crane operation.



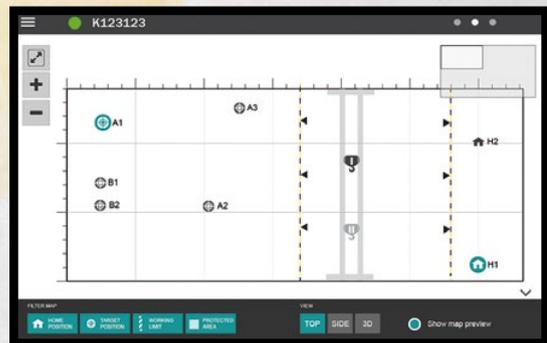
Designed to enhance crane operation and maintenance, the SMARTON Tablet offers a modern user experience.



## CUSTOMER BENEFITS



Information to assist the crane operator



Convenient way to give inputs to the Smart Features



Optional camera views for safer and more effective load handling

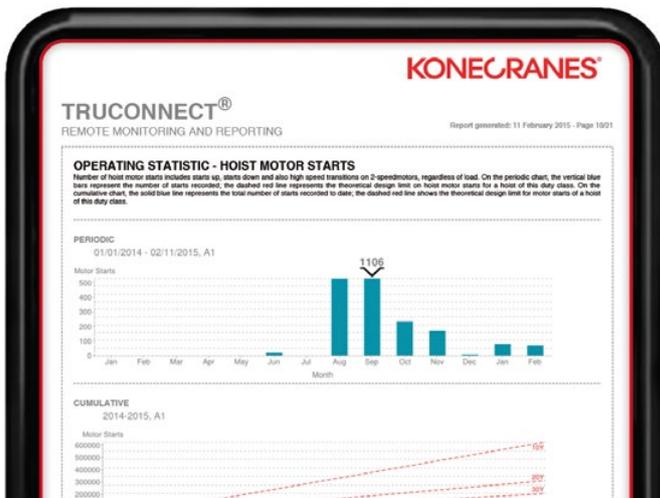
# TRUCONNECT® REMOTE SERVICE

**TRUCONNECT Remote Service connects data, machines and people to provide remote monitoring, diagnostics, analytics and usage-based predictive maintenance designed to help businesses address potential maintenance and performance issues before these issues become critical and threaten employee safety, productivity and revenue. The suite includes TRUCONNECT Remote Monitoring and TRUCONNECT Remote Support.**

**TRUCONNECT Remote Monitoring** provides visibility to crane usage and operating data, helping with decisions about maintenance investments and productivity. The data is utilized to estimate the remaining theoretical design working period (DWP) and service life of selected components. Additionally, crane usage patterns may identify where operator training could improve safety and productivity. An Alerts option provides notification by email and/or text message of selected occurrences, including over temperatures, attempted overloads and emergency stops, so that prompt action can be taken as appropriate.

**TRUCONNECT Remote Support** offers customers 24/7 access to a global network of support centers, with crane experts and specialists available to provide remote support and troubleshooting in the case of a breakdown or indication of a fault. Through a remote connection, the Konecranes experts at any of these support centers are able to access and troubleshoot the equipment and use the data to better understand the issue and identify corrective action.

\*The exact scope and terms of TRUCONNECT are agreed separately.



Condition and status information in online portal provided by the TRUCONNECT Remote Service allow maintenance activities and schedules to be optimized.





# SMART FEATURES

Konecranes software-based Smart Features bring concrete benefits to your lifting processes by improving safety and productivity. A wide selection of Smart Features ensures a streamlined lifting process for every industry.

## Latest Smart Features



### ACTIVE SWAY CONTROL

limits load swing by controlling the bridge and trolley acceleration and deceleration. Sway Control allows faster load handling and more precise positioning. This feature also prevents damage to the load, crane, and surrounding area.



### HOOK CENTERING

is designed to eliminate side pull during lifting by positioning the bridge and trolley automatically directly over the load. This feature means less wear and tear on your crane's components, faster load cycle times and ease of operation.



### SNAG PREVENTION

is designed to stop all crane movement if the hook, sling or load accidentally gets caught on something. This safety function reduces the risk of hazardous situations while moving loads and helps to prevent damage to the load, crane, and surrounding area.



**ADAPTIVE SPEED RANGE (ASR) AND EXTENDED SPEED RANGE (ESR)**



**PROTECTED AREAS**



**END POSITIONING**



**SHOCK LOAD PREVENTION**



**HOISTING SYNCHRONIZATION**



**SLACK ROPE PREVENTION**



**HOOK LEVELING**



**SWAY CONTROL**



**INCHING**



**TARGET POSITIONING**



**LOAD FLOATING**

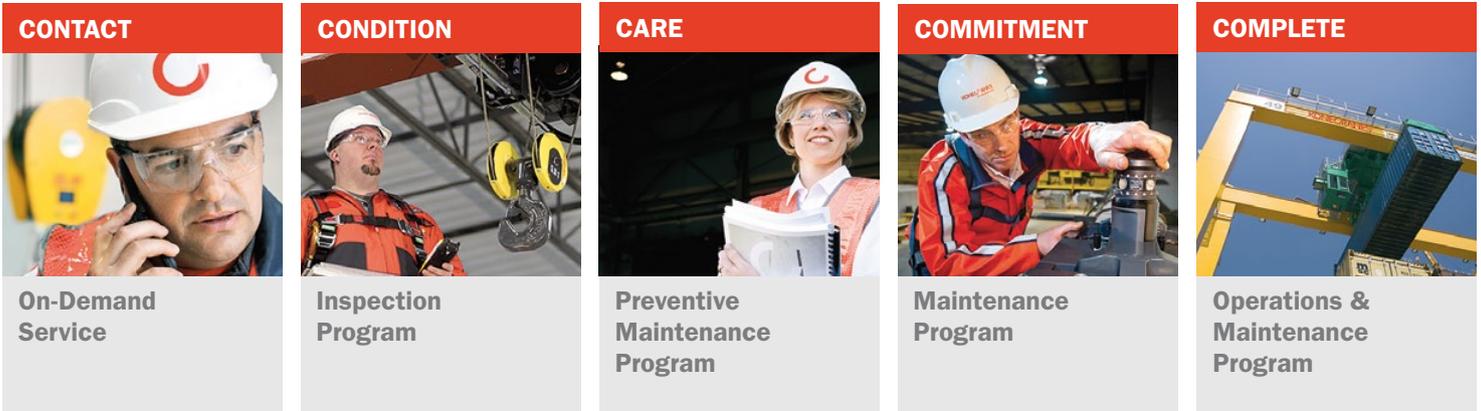


**WORKING LIMITS**



**MICRO SPEED**

Konecranes Service Programs



**IF YOU NEED LESS**

**Just the basics:** Inspections, spare parts, breakdown response.

**THE FOUNDATION OF LIFECYCLE CARE**

**IF YOU NEED MORE**

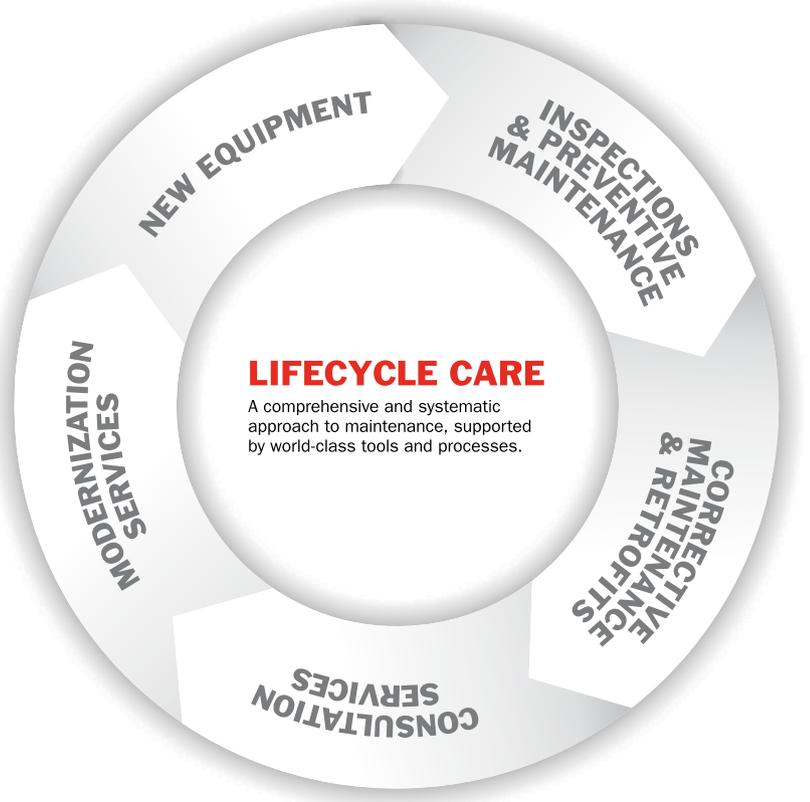
**Beyond preventive maintenance:** Full scope outsourcing and operations.

# KONECRANES SERVICE

**Lifting your business by maximizing lifecycle value**

**We provide specialized maintenance services and spare parts for all types and makes of industrial cranes – from a single piece of equipment to entire operations.**

Our objective is to improve the safety and productivity of your operations through our comprehensive and systematic Lifecycle Care approach, supported by world-class tools and processes. Lifecycle Care results in highest lifecycle value, maximizing the productivity of uptime and minimizing the cost of downtime.





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CRANES



NUCLEAR  
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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 Helsinki Ltd (symbol: KCR1V). With approximately 12,000 employees at 600 locations in nearly 50 countries we have the resources, technology and determination to deliver on the promise of Lifting Businesses™.

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