

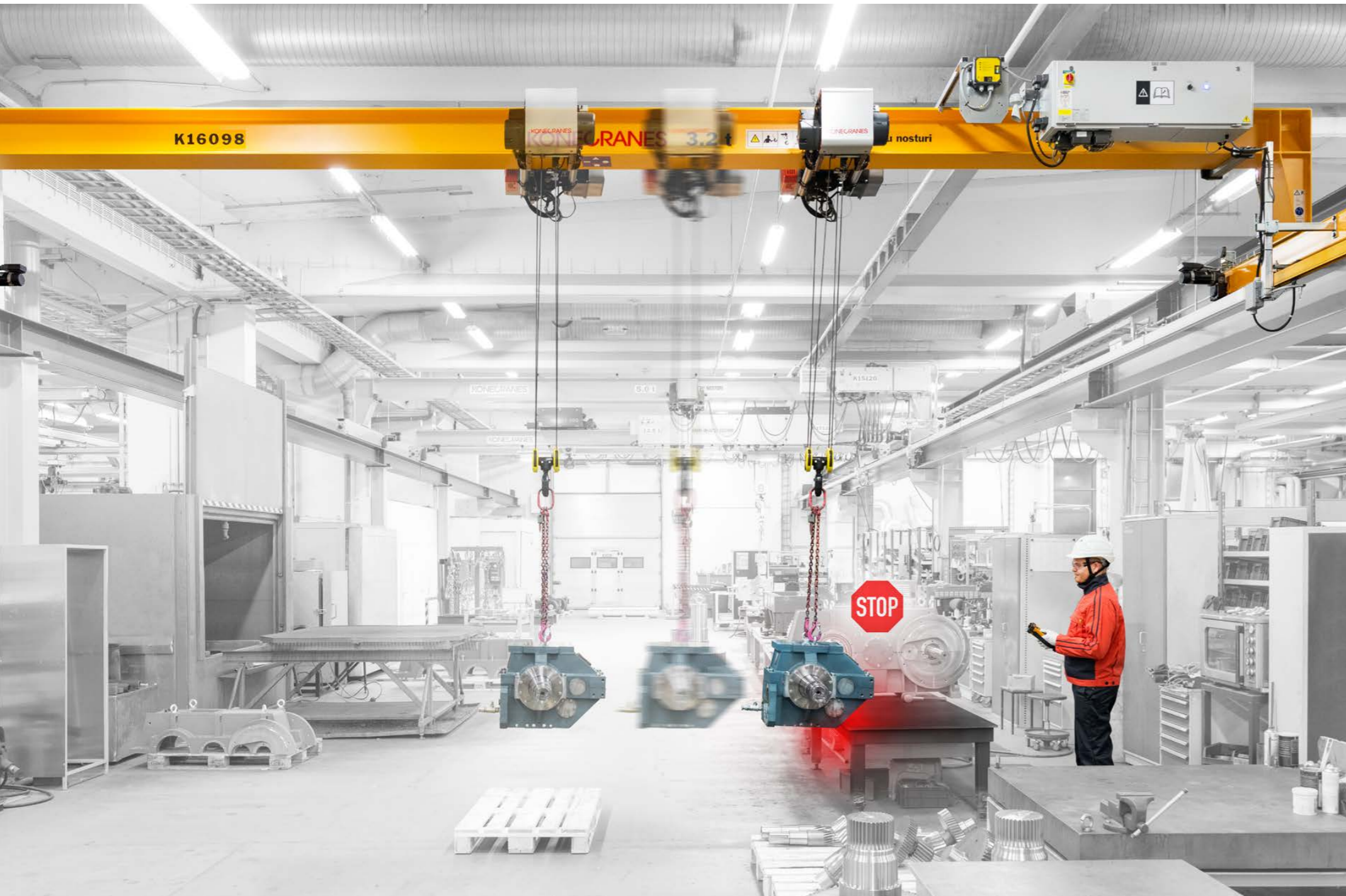
SMART FEATURES

Lift smart on every lift



Lift safety and productivity

At Konecranes, we've put all of our long experience in industrial technology into our Smart Features, a special combination of crane components and software designed specifically to improve the safety and productivity of your operations.



Intelligent lifting with Smart Features

By making some functions automatic and reducing load cycle and increasing safety, Smart Features give you total control of materials handling in your production process.

You can buy Smart Features already installed on new cranes, or have them added to your existing cranes. Choose the ones you want, or ask us to recommend a features package that fits the lifting needs of the processes in your facility.

Konecranes Smart Features are available on all of our electric overhead traveling cranes. They will refine your lifting processes and bring real, measurable benefits to your business.

In this brochure, we invite you to explore how Smart Features can benefit your business.

Load Control Features

Smart Features maintain a steady, smooth movement for maximum load control, leading to an increase in productivity with shorter load cycle times as well as greater safety for your operators and work environment.

SWAY CONTROL limits load swing by controlling the acceleration and deceleration of the bridge and trolley. It allows faster load handling and more precise positioning while reducing the risk of damage to the load, crane and surrounding area.

ACTIVE SWAY CONTROL dampens existing load sway.

SNAG PREVENTION stops crane movement if the hook, sling or load accidentally catches on something. This decreases risks during crane motion, helping to prevent damage to the load, crane and surrounding area.

ASSISTED LOAD TURNING helps turn the load by keeping the ropes straight and eliminating side pull. This function makes one of the most challenging crane operations easier and less risky. It speeds up duty cycles, extends crane lifetime and simplifies crane operation.

LOAD FLOATING keeps the load in position after the hoisting movement stops, so the brake is applied less frequently and it wears less than normally. It allows a faster and smoother restart of the hoisting movement and better control of the load.

HOISTING SYNCHRONIZATION monitors and controls the position difference of the hooks and synchronizes the movement of each hoist. This function provides better accuracy when two hoists are used at the same time.

MICROSPEED and **INCHING** assist in high-precision load handling. Microspeed turns large joystick movements on the operator interface into slow and exact load movements. Inching ensures accurate load positioning by allowing movement in small increments. Both functions reduce the risk of collision and can be used for hoisting and traveling.

SHOCK LOAD PREVENTION slows the hoist for a smoother movement if the load is picked up too fast. This prevents shocks to the load and crane, extending the life of the steel structure and its mechanical components.

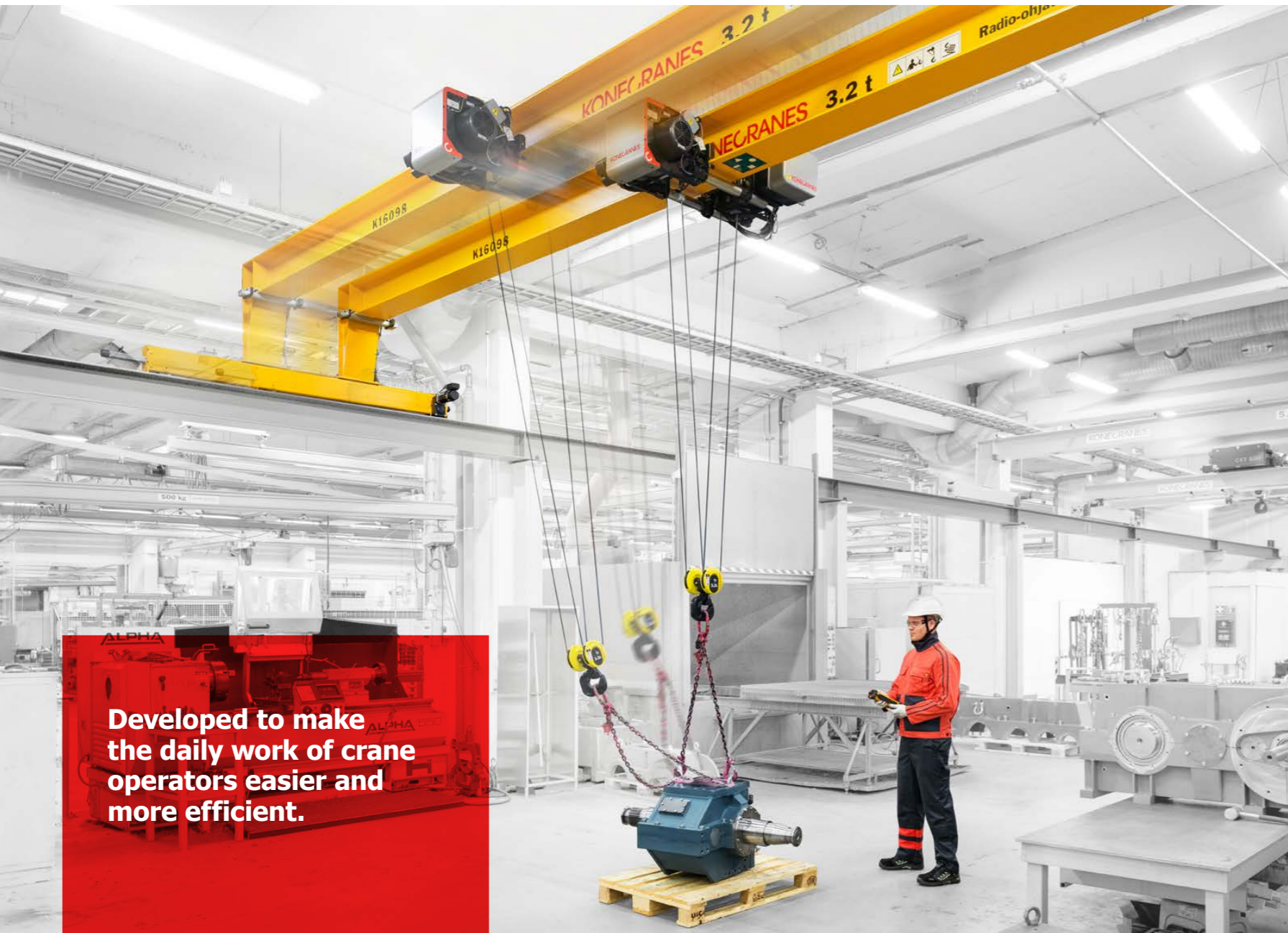
SLACK ROPE PREVENTION detects when the load has reached its final position and automatically stops the lowering movement. The hoist ropes do not slacken and lifting device does not fall over.

ASR, ADVANCED SPEED RANGE allows faster lifting and lowering speeds when handling light loads. The maximum speed is automatically calculated based on the measured load. For example, when the load is less than 10% of the maximum rated load, the operator can move the crane at up to 1.5 times the nominal speed, minimizing work cycle times.

ESR, EXTENDED SPEED RANGE allows higher lifting and lowering speeds when handling light loads. The maximum speed is automatically calculated based on the measured load. For example, when the load is less than 20% of the maximum rated load, the operator can move the crane at up to twice the nominal speed, minimizing work cycle times.

FOLLOW ME speeds up lifting operations by guiding the hook above the load by hand. Duty cycles are shorter as it is faster to load and unload the crane.

HOOK CENTERING eliminates side pull during lifting by positioning the bridge and trolley directly over the load. This reduces wear and tear on components, faster duty cycle times and easier operation.



Developed to make the daily work of crane operators easier and more efficient.





Area Control Features

Smart Features also give you more control over the working area of the crane, improving the efficiency and accuracy of load positioning by adapting the available space to the physical layout of your production line.

PROTECTED AREAS defines certain zones that the crane cannot enter. This improves safety by reducing the risk of accidents and preventing collisions between the crane and other equipment.

WORKING LIMITS creates temporary "virtual walls" which limit where the crane can move. It is a flexible safety tool in which settings can be easily changed for different tasks, shielding areas where people or equipment are located.

TARGET POSITIONING brings the load from home position to a predefined target position at the push of a single button. This simple movement increases safety and greatly reduces duty cycle times.

END POSITIONING brings the load to the center of a positioning window by pushing one button on the operator interface. Without having to bring the load to its exact destination manually, this feature makes positioning a safer, faster and easier process.

The following table shows our recommendations for Smart Features in five different common industry applications.

Ask us for more details on how Smart Features can benefit your industry and your business.

Smart Features	Automotive DIE HANDLING CRANE	Steel COIL HANDLING CRANE	Manufacturing ASSEMBLY LINE CRANE	Power TURBINE HALL CRANE	Pulp & Paper DRY END CRANE
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LOAD CONTROL FEATURES					
ACTIVE SWAY CONTROL	●	●	●	●	●
SWAY CONTROL	•	•	•	•	•
SNAG PREVENTION	●	•	•	•	•
ADVANCED SPEED RANGE (ASR)	•		●		•
EXTENDED SPEED RANGE (ESR)	•		●		•
ASSISTED LOAD TURNING	•		•		
HOOK CENTERING	●	●	•		●
FOLLOW ME			●		
LOAD FLOATING	●	●	●	●	●
HOISTING SYNCHRONIZATION	•		•	●	●
MICROSPEED	●		•	●	•
INCHING	●		•	•	•
SHOCK LOAD PREVENTION	•	•	•		•
SLACK ROPE PREVENTION	•	●	•		●

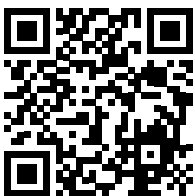
AREA CONTROL FEATURES					
PROTECTED AREAS	●	●	●		●
WORKING LIMITS			●		
TARGET POSITIONING	●	●	•		•
END POSITIONING	•	•	●		•

● Highly Recommended • Recommended

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 of all makes. In 2020, Group sales totaled EUR 3.2 billion. The Group has around 16,500 employees in 50 countries. Konecranes shares are listed on the Nasdaq Helsinki (symbol: KCR).

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