

Lift smart on every lift





Lift safety and productivity

We've used our vast experience in industrial technology to develop our Smart Features, a special combination of crane components and software designed specifically to improve the safety and productivity of your operations.

Hook Centering Smart Feature

Intelligent lifting with Smart Features

Smart Features give you greater control of material handling in your production processes. From the moment operators take charge of the crane, their work gets easier. Lifting becomes more efficient due to shorter load cycle times, helping increase productivity.

And because the control system optimizes crane movement, your crane and its components wear more slowly, extending the life of the crane. Most importantly, though, safety improves because there is much less chance of human error.

How can Smart Features benefit your operations?

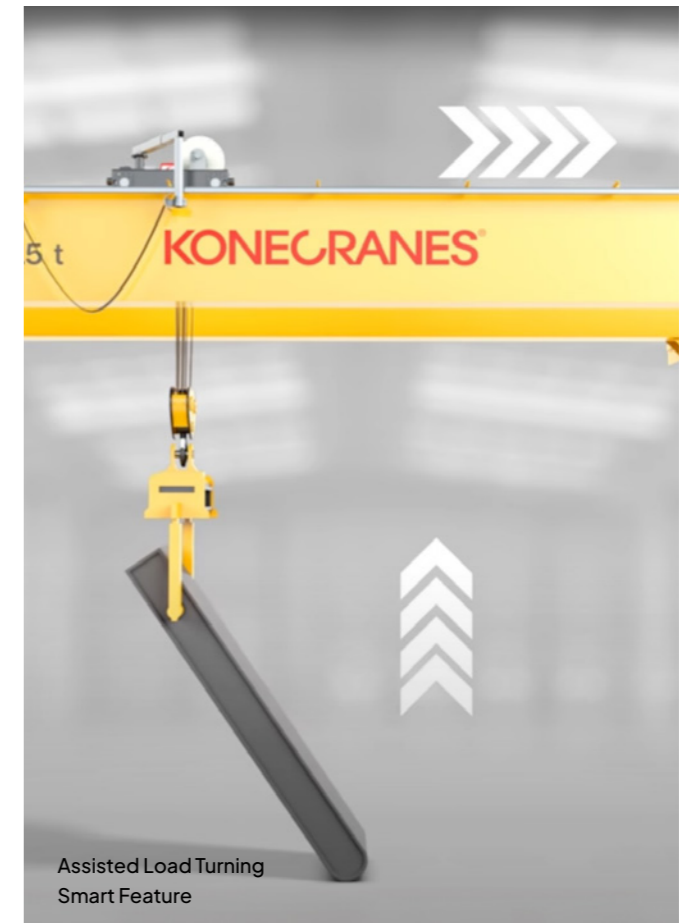
We have a wide range of features that can be beneficial in all kinds of different applications. Here are some examples of when a particular Smart Feature can be useful:

When you need to use some type of lifting device such as a coil tong, pressing tool tong or lifting beam - Slack Rope Prevention prevents hoist ropes from going slack which prevents the lifting device from falling or tilting.

Heavy lifting in assembly can mean highly accurate positioning in a tight space is needed. Microspeed makes movements slow and exact and Inching allows the operator to move the load in small increments.

Working Limits can be useful when you occasionally have transport vehicles entering your facility for unloading and loading goods. This feature allows you to build temporary virtual walls where the crane is designed to automatically stop.

When you have areas where incoming material is regularly unloaded/loaded from trucks or forklifts Protected Areas allows you to define protected areas where the crane is not allowed to enter.



"Speeding up coil supply to the machines and, more generally, improving the performance of the workshop, are objectives we're always trying to reach. Thanks to the Target Positioning feature, it is very easy to program the two destination points of the coils. It's time-saving and increases productivity. Target Positioning is exactly the feature we needed."

Daniel Durieux, Global Manager/Lifting Equipment, Renault



Snag Prevention Smart Feature

Load control features

Smart Features help maintain 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 and Active Sway Control

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.

Advanced Speed Range (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.

Extended Speed Range (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.

Hook Centering

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

Follow Me

Follow Me speeds up lifting operations by allowing the operator to guide the hook above the load by hand. This makes it faster to load and unload the crane and gives you shorter duty cycles.

Snag Prevention

Snag Prevention stops crane movement if the hook, sling or load accidentally catches on something. This feature helps prevent damage to the load, crane and surrounding area.

Shock Load Prevention

Shock Load Prevention slows the hoist for smoother movement if the load is picked up too fast. This prevents shocks to the load and crane, helping extend the life of the steel structure and its mechanical components.

Slack Rope Prevention

Slack Rope Prevention detects when the load has reached its final position and automatically stops the lowering movement so the hoist ropes don't go slack and the lifting device doesn't fall over.

Load Floating

Load Floating keeps the load in position after the hoisting movement stops without setting the brake. It gives you a faster and smoother restart of the hoisting movement and better control of the load. It also reduces wear on the mechanical brakes.



Microspeed and Inching

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 gives you accurate load positioning by allowing movement in small increments. Both functions reduce the risk of collision and can be used for hoisting and traveling.

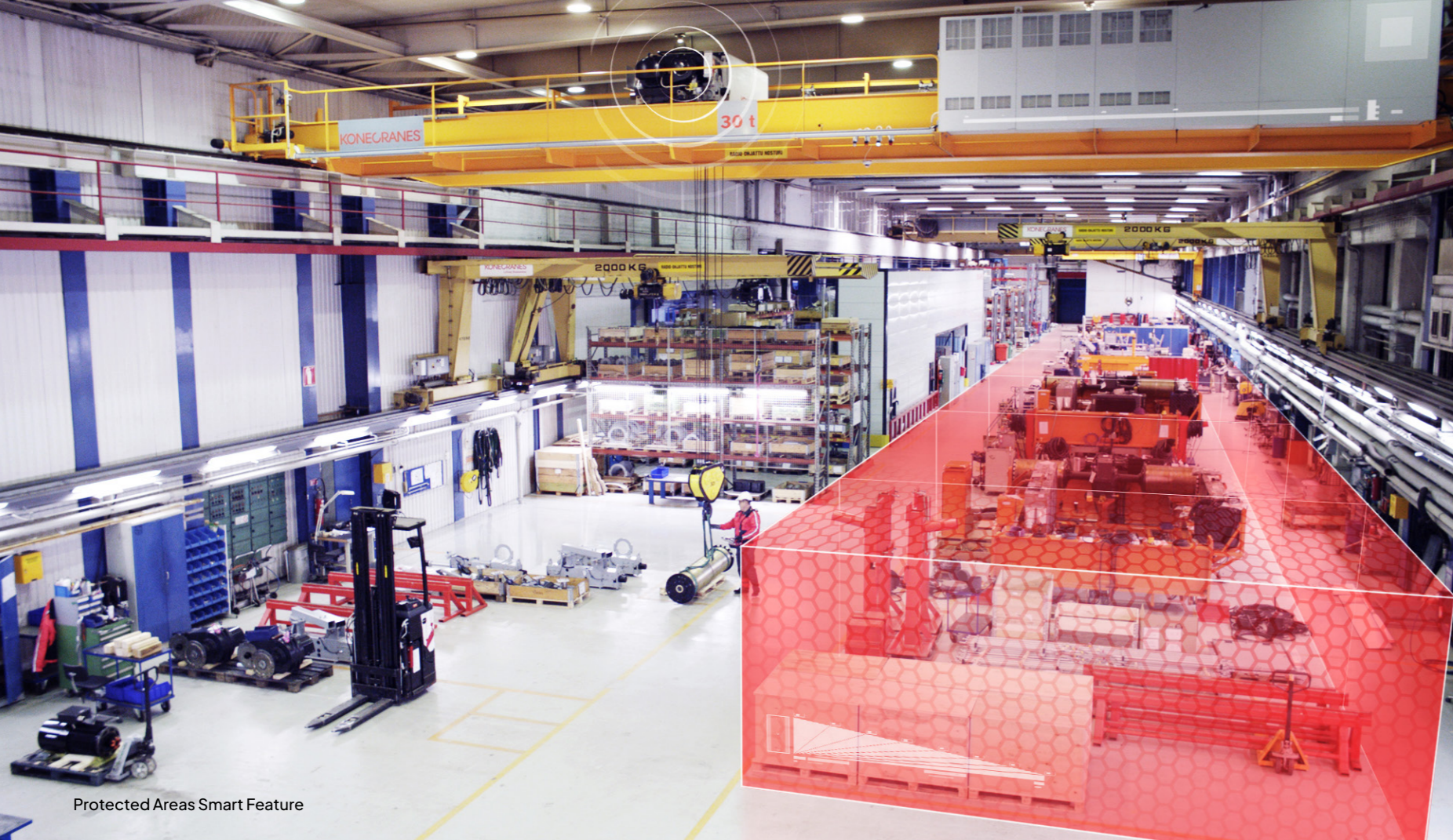
Assisted Load Turning

Assisted Load Turning eliminates side pull when lifting and keeps the ropes straight when lowering. 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.

Hoisting synchronization

In cranes with two main hoists, Hoisting Synchronization monitors and controls the position difference of the hooks and synchronizes the movement of each hoist to keep the load in alignment. This function works even when the load is not equal on each hook giving you better accuracy and faster, safer load handling.

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



Protected Areas Smart Feature

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

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

Working Limits creates temporary virtual walls that limit where the crane can move. The settings can easily be changed making it a flexible safety tool for different tasks and shielding areas where people or equipment are located.

Target Positioning

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 especially with predictable and repetitive work cycles.

End Positioning

End Positioning brings the load to the center of a positioning window by pushing one button on the operator interface and the operator manually lowers the load. This feature is especially useful when repetitively positioning loads in the same place around stationary machines or structures.

Smart Feature recommendations

The following table shows our recommendations for Smart Features in five different common industry applications. Contact us for more details on how Smart Features can benefit 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
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 global leader in material handling solutions, serving a broad range of customers across multiple industries. We consistently set the industry benchmark, from everyday improvements to the breakthroughs at moments that matter most, because we know we can always find a safer, more productive and sustainable way. That's why, with around 16,600 professionals in over 50 countries, Konecranes is trusted every day to lift, handle and move what the world needs. In 2023, Group sales totaled EUR 4.0 billion. Konecranes shares are listed on Nasdaq Helsinki (symbol: KCR).

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