

KONECRANES®

THE KONECRANES S-SERIES CRANE

# The new standard in lifting



# Innovations that boost your production

The Konecranes S-series crane has set a new industry benchmark by introducing a never-before-seen synthetic rope hoist and Smart Features that improve safety and productivity, for high usability and low maintenance.

Radically reconstructed both inside and out, the Konecranes S-series is designed to keep your production line up and running.

**S-series configurations**  
The S-series crane is a highly advanced lifting tool. With specially-tailored girder designs and hoist configurations, it suits many kinds of industry applications and processes.

## S-series hoist configurations



### SINGLE-GIRDER HOISTS UP TO 12.5 TONS

With only one bridge beam the S-series hoist operates or travels on the lower flange of the bridge girder. The Konecranes S-series single-girder crane is the right choice when you need a lifting capacity of up to 12.5 tons and want to maximize the working area underneath the crane. With the S-series hoist, load handling is smooth and accurate.



### DOUBLE-GIRDER HOISTS UP TO 20 TONS

With two bridge beams the S-series hoist travels on bridge girders attached to the top of or underneath the crane girder. The Konecranes S-series double-girder crane is the right choice when you need a higher hook height for applications up to 20 tons. A sturdy double-girder structure ensures safe lifting in all kinds of industrial settings.



### MACHINERY HOISTS UP TO 12.5 TONS

This is the right choice when you need a winch that can lift up to 12.5 tons. A typical customer application is raising or lowering huge objects like a stadium score clock. As a winch-type system, the S-series machinery hoist does not contain a hook block by default but it can be provided if needed. A sturdy steel rope and a reliable hoist handles repetitive work easily.



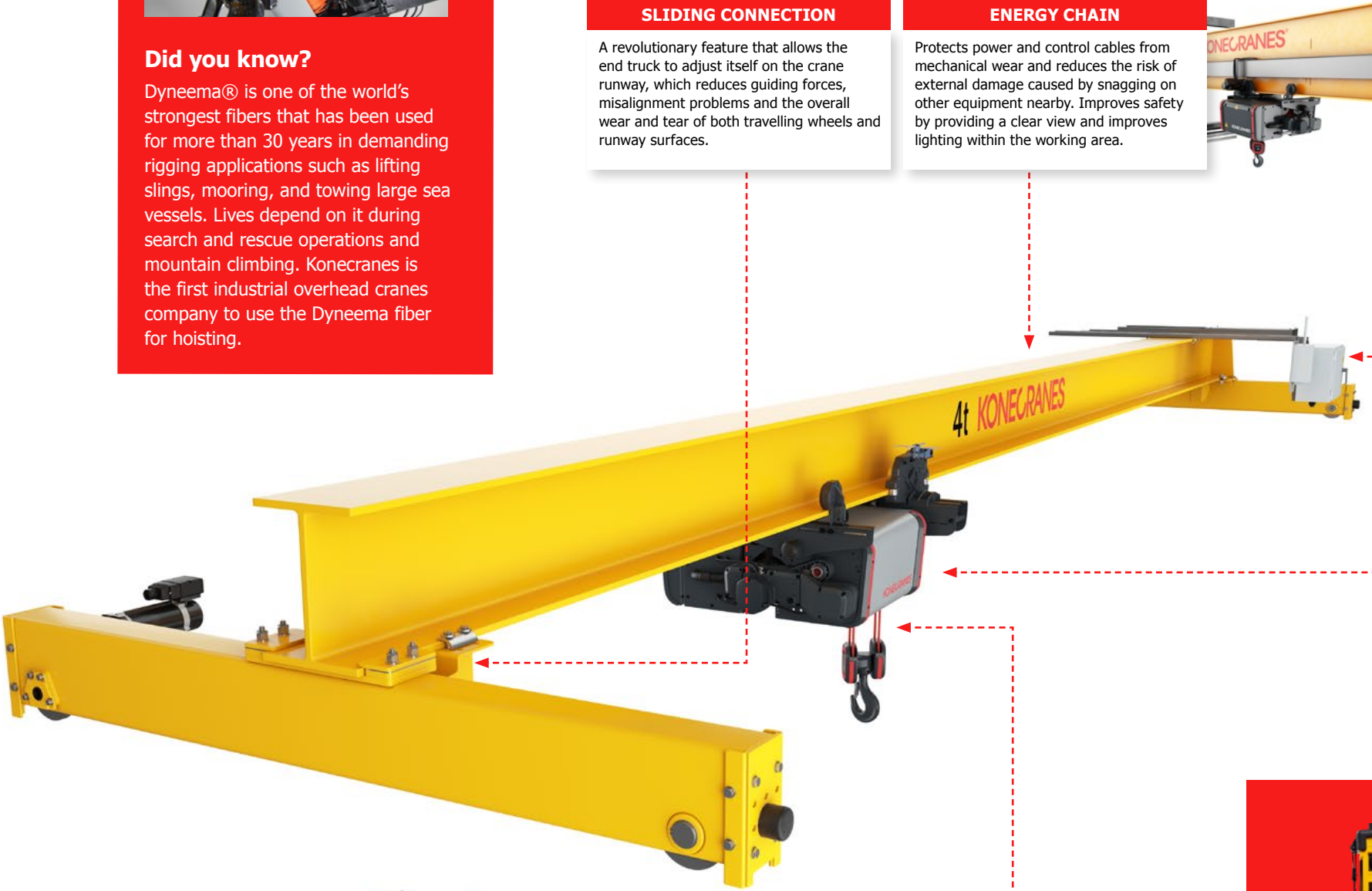
### FIXED HOISTS UP TO 12.5 TONS

This is the right choice when you need to utilize existing structures. Fixed hoist is delivered with a hook and is usually attached to some existing platform or trolley. A fixed hoist is basically a double girder trolley but without the trolley, only hoisting machinery, electrical wiring, and the hook. The S-series fixed hoist is a stationary unit with a strong and reliable structure that supports loads of up to 12.5 tons.



### Did you know?

Dyneema® is one of the world's strongest fibers that has been used for more than 30 years in demanding rigging applications such as lifting slings, mooring, and towing large sea vessels. Lives depend on it during search and rescue operations and mountain climbing. Konecranes is the first industrial overhead cranes company to use the Dyneema fiber for hoisting.



### SLIDING CONNECTION

A revolutionary feature that allows the end truck to adjust itself on the crane runway, which reduces guiding forces, misalignment problems and the overall wear and tear of both travelling wheels and runway surfaces.

### ENERGY CHAIN

Protects power and control cables from mechanical wear and reduces the risk of external damage caused by snagging on other equipment nearby. Improves safety by providing a clear view and improves lighting within the working area.





# Smart Features

**Our Smart Features technology improves safety and usability. In load control, it helps the crane operator to position the load quickly and accurately, reducing cycle times even more.**

The S-series offers the following integrated Smart Features:

**Snag Prevention** stops crane movement if the hook, sling or load accidentally gets caught. Decreasing risk during crane motion, it helps to prevent damage to the load, crane, and surrounding area.

**Hook Centering** eliminates side pull during lifting by positioning the bridge and trolley directly over the load. This reduces wear and tear on components, speeds up load cycle times and simplifies operation.

**Follow Me** improves cycle times and hook accuracy by having the operator manually guide the hook to any desired location. Once the feature is activated, the crane intuitively follows the hook. Follow Me makes moving the empty hook or light loads fast, for more efficient material handling.

**Optional Smart Features:** Sway Control, Micro Speed, Load Floating and many more are available. Ask our sales team for a recommendation.



## Facts at glance – S-series

FEATURES	SPECIFICATIONS
Lifting capacity	Up to 20 tons
Lifting height	36 m
Span	30 m
Crane options	Single and double girder, top and under-running
Girder design	Profile, Box, Compact Box
Rope	Synthetic rope default, steel wire rope option
Hoisting motor	Stepless inverter hoisting default 2-speed hoisting option
Temperature	Standard temperature: +5 ... +40°C.
Paint	Anodized aluminium frame painted with 70 µm epoxy powder
Hooks	DIN 15401
Trolley type	Single or double girder hoists, machinery hoist and fixed hoist
Power supply	Energy chain or flat cables
Control options	Radio, pendant as an option/backup
Integrated Smart Features	<ul style="list-style-type: none"><li>• Hook Centering</li><li>• Snag Prevention</li><li>• Follow Me</li></ul>
Environment	Indoor or Outdoor

FEATURE	SYNTHETIC ROPE	STEEL WIRE ROPE
Material	High performance synthetic	High strength steel
Breaking strength	Very high (consistently exceeds 5:1)	High (meets or exceeds 5:1)
Weight	Light – 80% lighter than steel	Heavy
Kink Resistance	Will not kink	Will kink and requires replacement
Resistance to bending	Returns to original shape with no permanent damage	Will bend and deform, requires replacement
Bird cage resistance	Returns to original shape with no permanent damage	Will bird cage and deform, requires replacement
Lubrication	Not required	Regular lubrication required
Safety	Synthetic rope does not barb, and is lightweight and flexible, reducing the chance of cuts to hands or ergonomic injury during rope handling	Steel wire can fray and is heavy and rigid, increasing the risk of hand lacerations or ergonomic injury during rope handling

# S-series for different industries

**Ground-breaking features on the S-series crane make it a precise, flexible lifting tool with a wide range of potential applications in many different industries, including:**

**General Manufacturing**  
Manufacturing facilities must maintain a constant process flow, from incoming prefab or raw materials all the way to packaging and shipping. When any interruption is a production loss, the right lifting equipment will help keep your manufacturing workflow running. The S-series is a robust and reliable crane that also provides the high accuracy needed for assembly work.

**Automotive** – The ASR and Smart Features increase speed and accuracy, while optimizing material handling and safety in critical automotive processes. Snag Prevention or Hook Centering reduces the risk of collision with equipment or operators nearby. Follow Me makes moving the empty hook or light loads fast, which speeds up material handling.

**Metals and Steel** – In challenging environments full of dust and heat, production must run smoothly without any unplanned interruptions. As a service crane, the S-series is safe, reliable, and easy to use, giving operators the freedom to concentrate on maintenance tasks.

**Paper and Forest** – In paper mills, load handling is demanding, so it is important that equipment is up and running whenever needed. Maintenance cranes are a critical part of the process. The S-series is an ideal service crane, reliable and easy to use for all kinds of maintenance tasks. Because the drum and synthetic rope do not require lubrication, the process area stays clean.



# A hoist for many cranes

You can use the S-series hoist on many different types of cranes, depending on your specific requirements. It's designed to improve the safety and productivity of your production flow.



### S-SERIES JIB CRANE

Jib cranes are integral to any production process that requires both speed and accuracy. Designed for flexibility, durability, and operator comfort, you can easily install a jib crane in a key position and later relocate it when your work environment changes. It can use a wide selection of hoists, including the S-series.



### S-SERIES GANTRY CRANE

When a traditional overhead crane is not suitable, a gantry crane with specially designed steel structures is ideal. It maximizes your operating area, especially when you place cranes at different levels. The S-series hoist adds extra performance and safety to your gantry crane.



### S-SERIES WALL CONSOLE CRANE

Wall console cranes can be used to transport materials to specialized workstations, and to handle components inside assembly cells. They operate below overhead cranes, managing logistics flows in production areas. The S-series hoist is an ideal choice for wall console cranes.



### S-SERIES SINGLE-GIRDER CRANE

A single-girder S-series crane, with the hoist on a box or profile girder, is ideal for loads of up to 12.5 tons. Its compact size and small approach dimensions allow you to make the most of your working area underneath the crane. Lightweight means less stress on your building structure, which is ultimately more cost efficient.



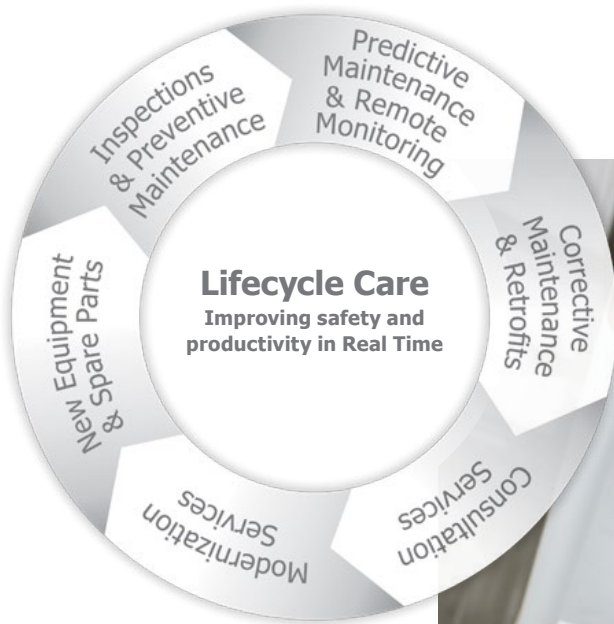
### S-SERIES DOUBLE-GIRDER CRANE

A double-girder S-series crane, with the hoist above the two main girders, is the best choice for heavier loads and longer spans. A capacity of up to 20 tons allows higher duty classes, while the double girder maximizes trolley approach dimensions, as well as the height of the hook. And it's big enough to accommodate a maintenance platform to improve service access.



### S-SERIES UNDER-RUNNING CRANE

An under-running S-series crane is a good choice for facilities that want to free floor space of obstructions. These cranes usually travel on the lower flange of a runway beam attached to the ceiling, with no need for supportive floor columns. The hoist can get very close to the end truck, maximizing the bridge end approach towards the end of the runway. Its structure limits the crane to a maximum load of 10 tons.



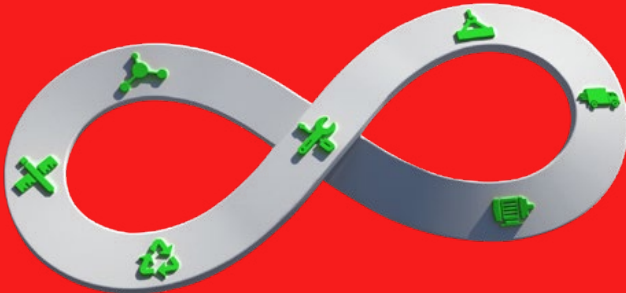
## Service

We can maximize the life cycle value of your S-series crane through our service concept Lifecycle Care using TRUCONNECT® Remote Monitoring and predictive maintenance to help you to improve your productivity and minimize your downtime.

Our customer portal, yourKONECRANES.com, gives you quick and easy access to the condition and usage of your cranes, their maintenance data, and your business agreements with Konecranes. The portal provides a transparent view of all maintenance activities and TRUCONNECT alerts over any defined time interval. You can view, analyze and share aggregated data quickly for a single crane, or your entire fleet.

### Data security

Konecranes is one of the first companies in the lifting equipment and service industry to obtain ISO/IEC 27001:2013 certification for information security management in digital services. Certification gives you the confidence that the data we share with you always stays secure, whether it covers remote monitoring for predictive maintenance, the cost of your service requests, or anything else related to your Konecranes equipment.



### SUSTAINABLE SOLUTIONS

- Konecranes is committed to providing customers with sustainable solutions and services while preventing and minimizing emissions and waste.
- Usability, eco-efficiency, and safety are the guiding principles in our product design, along with life cycle thinking.
- Our aim is to maximize the life cycle value of our products.



**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 2021, Group sales totaled EUR 3.2 billion. The Group has around 16,600 employees in 50 countries. Konecranes shares are listed on the Nasdaq Helsinki (symbol: KCR).**

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