

Strength and precision



Toughness in a small package

The SM crane is a compact, high lifting capacity crane for precise, accurate and reliable lifting. This small but strong crane lifts loads of up to 1,000 tons.

The SM crane comes from years of working closely with our customers and a thorough experience of industrial facilities and processes. It is ideal when you need to lift large and heavy loads in production spaces that are sometimes cramped and hard to access.

Versatile across all kinds of industrial applications, it's been specially designed for very heavy lifting. The unique combination of lifting power and compact design allows the SM crane to fit into confined spaces that are even dangerous or difficult to reach.

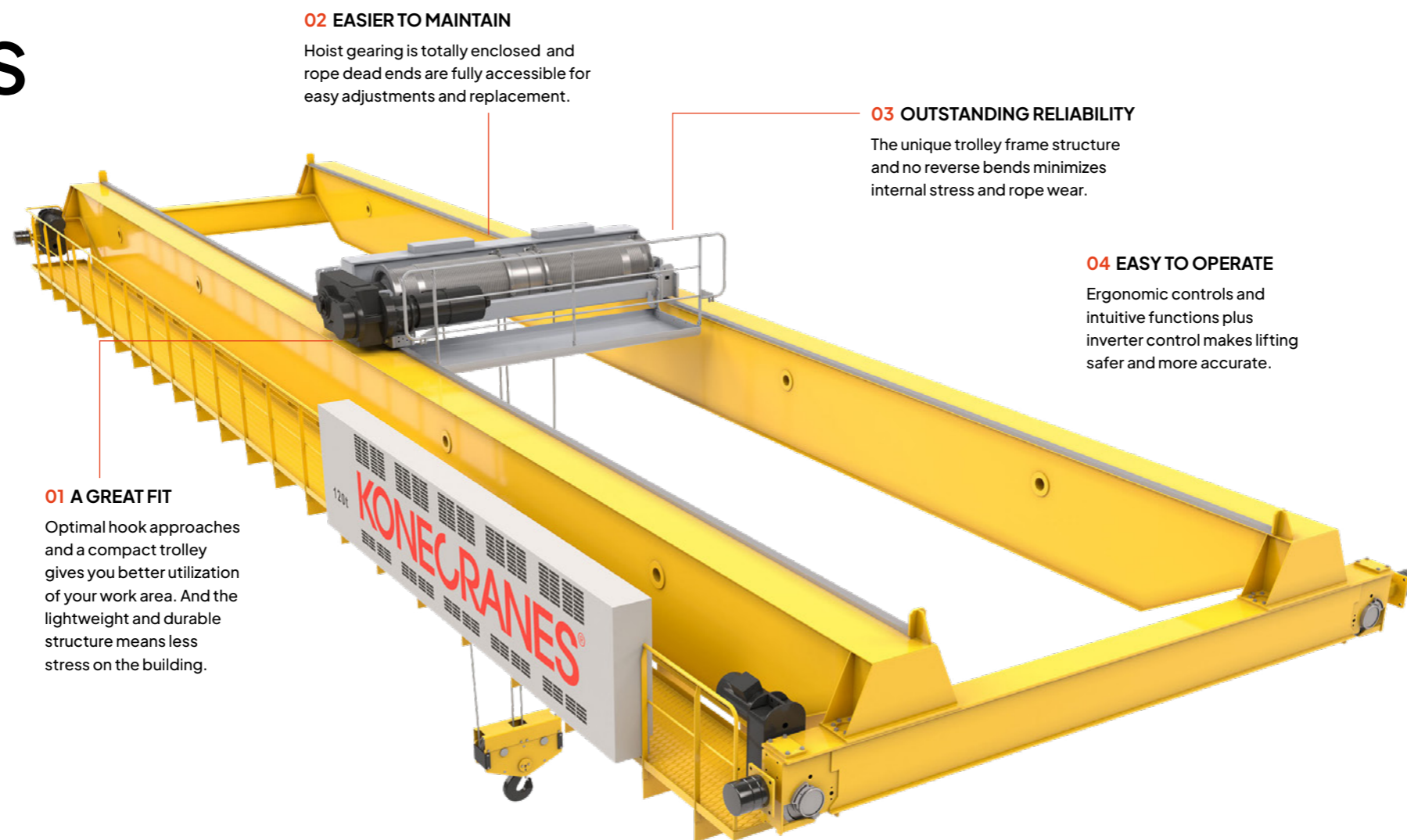
Intelligent lifting with Smart Features

Smart Features are software-based add-ons that help improve safety, cycle time and load positioning through partial automation. Smart Features gives you precision movement and lower the risk of collision with personnel or equipment. These three features come as a default on the SM crane, but you can always add additional features such as Active Sway Control, Microspeed or Inching.

Extended Speed Range (ESR) allows the hoist to run at up to double nominal speed, improving cycle times by up to 20% and boosting overall production volume.

Load Floating keeps the load in position after hoisting movement stops, so the brake is applied less frequently and experiences less wear. It also allows faster and smoother hoisting restart and better load control.

Shock Load Prevention gives you smooth load pickups and reduces mechanical stress by automatically reducing hoist speed if a load is picked up too fast.



01 A GREAT FIT
Optimal hook approaches and a compact trolley gives you better utilization of your work area. And the lightweight and durable structure means less stress on the building.

02 EASIER TO MAINTAIN
Hoist gearing is totally enclosed and rope dead ends are fully accessible for easy adjustments and replacement.

03 OUTSTANDING RELIABILITY
The unique trolley frame structure and no reverse bends minimizes internal stress and rope wear.

04 EASY TO OPERATE
Ergonomic controls and intuitive functions plus inverter control makes lifting safer and more accurate.

05 SAFER, MORE PRECISE POSITIONING
True vertical lift and Smart Features for load and area control help operators maintain steady, smooth movement for increased safety and productivity.



Learn more about our Smart Features: konecranes.com/equipment/overhead-cranes/smart-features-for-overhead-cranes



FEATURES	SPECIFICATIONS
Lifting capacity	Up to 1000 tons with two trolleys
Span	Up to 45 meters
Lifting height	Up to 44 meters
Runway length	No limitation
Hoist speed control	Inverter hoisting with Extended Speed Range (ESR)
Crane control options	Radio, cabin or Remote Operating Station (ROS)
Girder design	Box
Trolley supply	Flat cables or energy chain
Compliance	FEM 1Bm to 2m/ISO M3 to M5/ CMAA class B to D
Certifications	CE, RoHS, CSA
Temperature range	-20 C to +60 C
Integrated safety functions	<ul style="list-style-type: none"> Hoisting safety limit switch Overload protection Hoisting motor thermal protection Rope guides Hoist over speed supervision
Integrated Smart Features	<ul style="list-style-type: none"> Extended Speed Range Load Floating for hoisting Shock Load Prevention
Environment	Indoor or outdoor

Core of Lifting

The key components of the SM open winch crane—gears, motors and controls, all of which we have designed and manufactured—work together seamlessly as the Core of Lifting.





SM crane a great fit in many applications

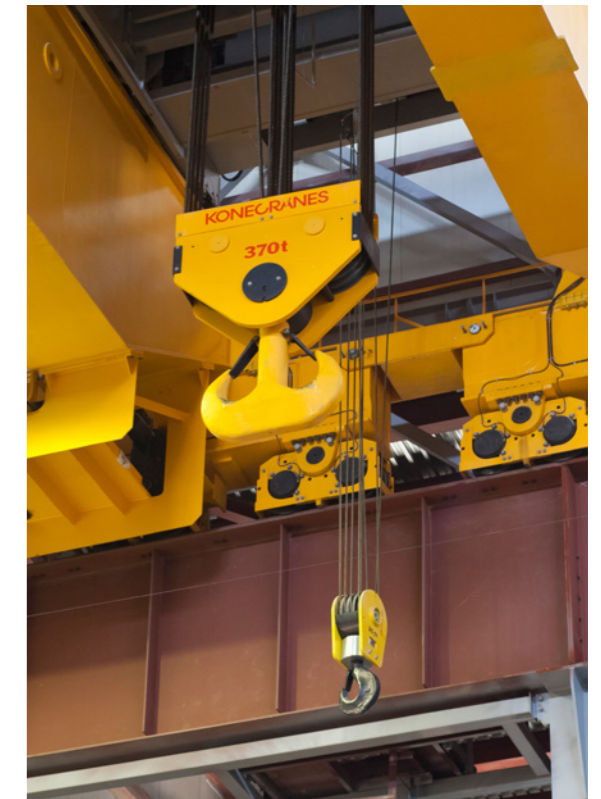
The power industry

In the turbine hall at a power plant, an SM crane can move your heavy but mechanically delicate turbines. Such an operation requires the high level of accuracy and reliability that you get with the SM crane.

Our SM11 and SM12 trolleys carry the heaviest loads. High capacity SM cranes can be tailored for all types of power plants. The SM crane is also ideal for assembling and maintaining other components, such as generators.

The SM crane is well suited for these industries:

- Shipyard
- Power
- Paper and Forest
- Metals production
- Mining
- Automotive
- General manufacturing



Field-proven reliability

The SM crane has been used as a turbine hall crane in power plants around the world for more than 40 years and is still our most popular crane for the power industry.

Compact design optimizes working area

Compared to other trolley types, the SM crane often gives you a reduction in the structural requirements of rails, runway beams and columns, and in the overall height of the building. Compact design and economy of space help you streamline production areas for smaller buildings and bigger cost savings.

Designed to make operator's work easier

The technology behind the SM crane closely follows the latest advances in industrial machinery handling processes. Crane speed control is more precise helping optimize the work area. Operator control, ergonomics and comfort is also significantly improved with this crane.

Safer and more precise lifting

Trolleys are constructed with a four-wheel or six-wheel bogie system and true vertical lift to distribute the load evenly along the crane girders. Smaller and lighter loads can be moved more quickly with an auxiliary hoist.

Built to last and easy to maintain

We can build an SM crane to meet your specific lifting requirements. The key components are Konecranes designed and manufactured and easy access simplifies maintenance procedures for less downtime.

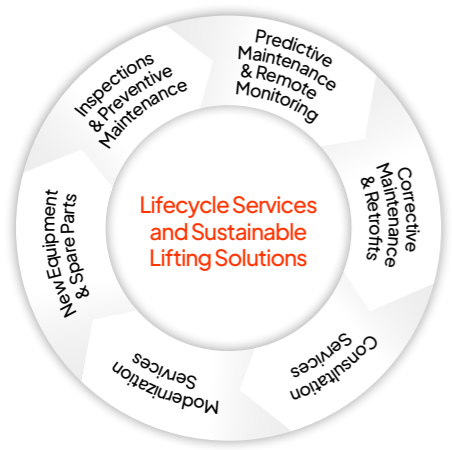
Modernize with SM trolley

If you're not looking to replace an entire crane, but you want to upgrade to meet new requirements, you can replace your original winch with the SM trolley. By doing so, it's possible to increase the capacity of your crane by as much as 20% with a modernization.

SM CRANE	DUTY CLASS	MAX. LOAD (with one trolley) [ton]	MAX. HEIGHT OF LIFT [m]	MAX. LIFTING SPEED (Norm/ESR) [m/min]
SM1208	M5	125	111	4.6 / 5.7
SM1208	M4	160	111	3.6 / 5.7
SM1208	M3	200	111	3.0 / 5.7
SM1212	M5	200	74	3.0 / 3.8
SM1212	M4	250	74	2.3 / 3.8
SM1212	M3	300	74	2.0 / 3.8
SM1216	M5	250	55	2.3 / 2.8
SM1216	M4	320	55	1.8 / 2.8
SM1216	M3	400	55	1.5 / 2.8
SM1220	M5	320	44	1.8 / 2.3
SM1220	M4	400	44	1.5 / 2.3
SM1220	M3	500	44	1.2 / 2.3

SM CRANE	DUTY CLASS	MAX. LOAD (with one trolley) [ton]	MAX. HEIGHT OF LIFT [m]	MAX. LIFTING SPEED (Norm/ESR) [m/min]
SM1108	M5	125	70	4.2 / 4.5
SM1108	M4	160	70	3.6 / 4.5
SM1108	M3	200	70	3.0 / 4.5
SM1112	M5	180	46	2.8 / 3.0
SM1112	M4	240	46	2.4 / 3.0
SM1112	M3	300	46	2.0 / 3.0
SM1116	M5	250	35	2.1 / 2.3
SM1116	M4	320	35	1.8 / 2.3
SM1116	M3	400	35	1.5 / 2.3

Other frame sizes are also available for special or modernization use.



Maximize crane reliability and performance

Regular inspections and preventive maintenance help identify risks and opportunities for improvement while supporting compliance with safety regulations.

Service programs tailored to your operations

Preventive maintenance conducted at regularly scheduled intervals can often be the most effective way to maintain and potentially extend the lifespan of your cranes. Konecranes experts can help you build a service program—from basic inspections to a comprehensive maintenance program—tailored to your operations.

Our service programs come with access to the Konecranes Portal. The portal provides you with a quick overview of maintenance activities, open safety and production risks, a fleet view of your assets, and a record of your service reports.

Why choose Konecranes as your crane service provider?

We have the largest and most extensive service network in the industry, servicing hundreds of thousands of assets each year of all different makes and models. You get the advantage of local inspectors and technicians with access to a wealth of knowledge from around the globe.

We take a comprehensive, systematic and collaborative approach to managing your assets throughout their lifecycle. We take time to meet with you one-on-one to share our findings, provide recommendations based on our industry-leading expertise and discuss how each action impacts your operations and the entire health of your business.



Learn more about Konecranes Service: konecranes.com/service



Technology you can rely on

SM cranes are designed to lift valuable equipment that must be treated with great care. So we worked hard to make the crane reliable and long-lasting.

All the core components of the SM crane, including its gears, motors and controls, are made in-house. They are designed specifically to withstand the mechanical stresses of crane use, and integrate seamlessly with each other for smooth crane movement and control.

We carefully manage our materials and manufacturing processes, which are supported by global certificates and standards. Every SM crane is also Factory Acceptance tested (FAT) and Site Acceptance tested (SAT). Process supervision, standards and rigorous testing all ensure the high quality you have come to expect from Konecranes.



Learn how Konecranes helped Alstom Power Systems safely move a 196 ton heat exchanger: konecranes.com/discover/alstom-power-systems-gmbh-germany



Committed to sustainable lifting solutions

Konecranes is committed to providing sustainable lifting solutions and services while preventing and minimizing emissions and waste. Lifecycle thinking combined with usability, eco-efficiency and safety guide us in the design of our products and services. Our aim is to maximize the lifecycle value of our products.





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 2022, Group sales totaled EUR 3.4 billion. Konecranes shares are listed on Nasdaq Helsinki (symbol: KCR).

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