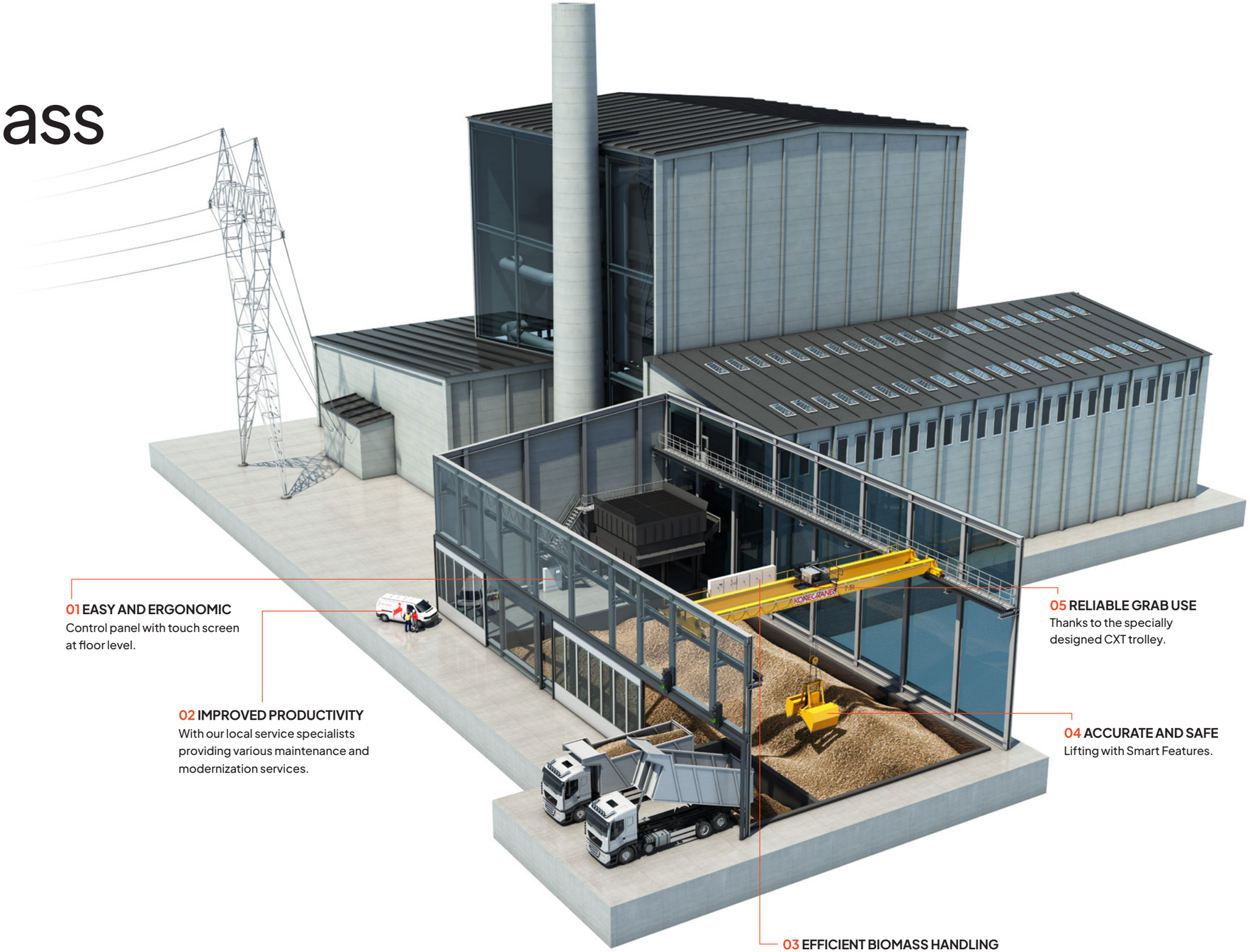
Optimal solution for biomass power plants



We know biomass

Some of the most challenging locations for heavy-duty crane applications exist in the renewable energy industry. Konecranes has 50 years of experience in meeting the rigorous demands of renewable energy plants. We know your process, and we have taken its requirements into account in our crane design.

Our optimized biomass software enables fully automated cranes to perform biomass handling efficiently and reliably, and by letting us take care of maintenance, you can fully concentrate on your core business.
All of this is possible with our global knowledge combined with our local service and expertise.



01 EASY AND ERGONOMIC
Control panel with touch screen at floor level.

02 IMPROVED PRODUCTIVITY
With our local service specialists providing various maintenance and modernization services.

03 EFFICIENT BIOMASS HANDLING
With fully automated crane.

04 ACCURATE AND SAFE
Lifting with Smart Features.

05 RELIABLE GRAB USE
Thanks to the specially designed CXT trolley.

We have more than 50 years of experience in meeting the rigorous demands of renewable energy plants.



Safer, smarter and agile

Our deep knowledge of the biomass process has helped us design a solution that is suitable for most biomass handling needs, the CXT Biomass – a fully automated, versatile, and reliable crane with a compact and robust design.

The CXT Biomass is packed with valuable features. A hoisting inverter with Extended Speed Range (ESR) provides smooth and fast operation and reduced cycle times. TRUCONNECT Remote Monitoring gives you real-time visibility into crane condition and usage to help you proactively manage maintenance, enhance safety and optimize productivity.

Smart Features such as Sway Control and Slack Rope Prevention increase the productivity and safety of your process. CXT Biomass gives you more floor space, is quieter, and produces less dust and fuel emissions than a loader conveyor-based solution. It also help increase the fuel storage capacity of your plant making your process more efficient.

01 SHOCK LOAD
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.

02 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 grab doesn't fall over when digging into the material.

03 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 surrounding area so you can safely work closer to the pit walls.



CXT Biomass crane product offering

Duty class	Range					
M8	GL trolley series					LV trolley
M7						
M6		CXT Biomass crane				
Tons	1	5	8	10	...	20

Fully automatic movements

The CXT Biomass crane is a fully automated, completely operator-free system. The crane takes care of the fuel material management all by itself.

Automatic cycles

The receiving cycle is used for moving biomass from the dumping area to the storage area. Trucks usually unload during standard working time. The crane picks up biomass from the dumping area and drops it into the storage area or directly to the hopper. The crane clears the dumping area until the dumping bunker is empty.

The feeding cycle is used to feed the hopper. The pickup area can be the storage bunker or the dumping area.

CXT Biomass crane benefits

- **More efficient operations with full automation.**
- **Increased safety with Smart Features.**
- **Less noise and emissions, more space for your process.**
- **TRUCONNECT Remote Monitoring for crane condition and usage data.**

We make sure the process continues

Service, done properly, is not an expense. It is a business investment that provides a return. With hundreds of thousands of assets serviced each year around the world, and more than 50 years behind us, our experience sets us apart.

Specialized maintenance and modernization services

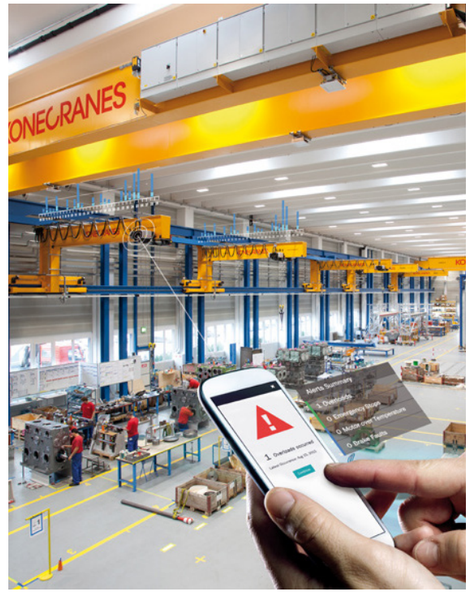
We provide lifecycle services for all types and makes of industrial cranes and hoists as well as sustainable lifting solutions for all kinds of industrial applications. Our objective is to provide you with services and solutions that can help improve the safety, productivity and sustainability of your operations.

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. Our experts can help you build a service program—from inspections and maintenance to advanced services and spare parts to help enhance the performance and reliability of your cranes.

Remote monitoring
In between regular inspections and preventive maintenance, issues can arise due to operator error, irregular crane usage or other unforeseen events. Real-time condition monitoring from TRUCONNECT Remote Monitoring helps detect early signs of wear in key components before they give way to critical issues that can impair safety and performance. Optimizing maintenance schedules based on actual usage rather than fixed intervals helps prevent unplanned downtime and can extend equipment lifespan.

Advanced diagnostics
Our Consultation Services give you deeper, more specific insights into the health and performance of your equipment. While routine inspections and maintenance can catch obvious issues, detailed analyses can spot cracks, fatigue, misalignment or other issues that standard checks might miss. By highlighting small issues before they escalate, these services can help keep cranes available and operational when needed most. These services can also provide insights to help you make informed decisions about component overhauls, modernizations or crane replacements for smarter long-term planning and budgeting.

Modernization
Tailored upgrades or modifications are designed to extend the service life of your crane and help meet current regulatory, maintenance and production requirements. A decision to modernize is often based on a need to achieve greater performance and throughput, and sometimes to support an entirely new process. We can rebuild your old crane to meet the demands of today's high-technology standards, typically at a substantially lower cost than for a new crane.



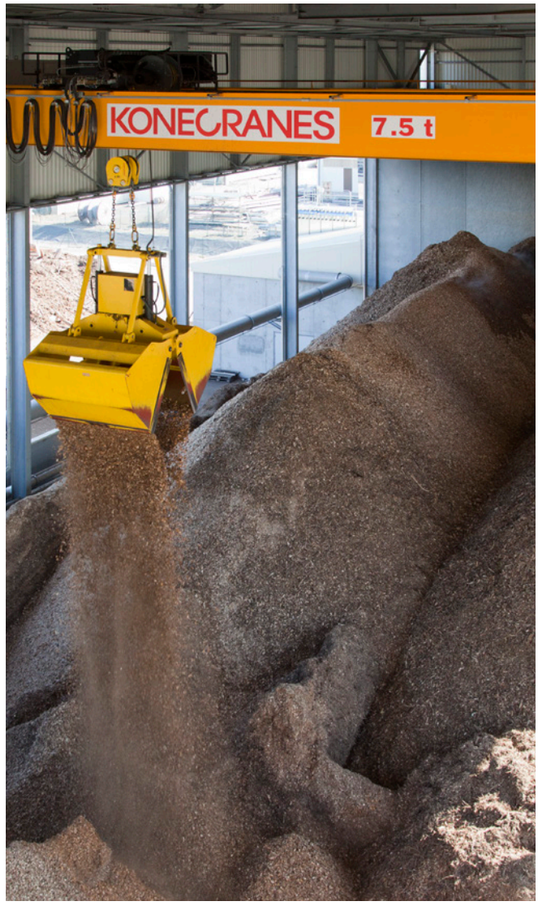
Fully automatic, fully reliable

Scaldis is an experienced provider in the field of biomass handling. Scaldis' client in Beinheim wanted to diversify its steam production that is traditionally based on gas, and it required a new biomass boiler. Scaldis contacted Konecranes to design a solution together for the boiler's feeding cycle.

The challenge
The crane needed to fulfill a multitude of important requirements. It needed to have sufficient capacity to provide the boiler's consumption flow and to fit to the building within the constraints of the passage and headroom sizes. The crane also needed to be extremely reliable as the plan was to install only one device to feed the boiler 24/7 with no backup available.

The solution
The CXT's compact design was a perfect fit for the building, and its lifting capacity answered to Beinheim's needs. Scaldis and Konecranes customized the speed range of the crane together. The majority of the technical solutions used in the crane were proven to increase reliability.

The result
The boiler in Beinheim started on its target date, and the end client is completely satisfied with the solution Scaldis and Konecranes came up with. CXT is a major part of the solution – it feeds the plant daily in the expected volume, and thanks to the fully automated crane, there are no interruptions in the process.



"What made us decide to work with Konecranes is, above all, the technical competence and the thorough knowledge of cranes and crane automation."

Fabien Gautier
Head of the Bioenergy department at Scaldis

Assuring a continuous flow of fuel

New Heat, a recognized EPC provider of boiler houses and combined heat and power (CHP) plants, constructed, for Lorizon Energy, a new biomass power plant located in Kaunas, Lithuania. The plant is equipped with a 10 MW boiler house, where heat is produced. The plant is capable of using three different types of biomass – straw pellets, wood chips, and peat.

The challenge
The biomass power plant is designed to be operated 24/7 by only one person. This sets high demands on the automation level, safety, and usability. The biomass hall has three tipping bunkers, three storage areas, and a double hopper due to different fuel types. Environmental conditions, like dust and humidity, set special requirements for the protection of the crane equipment.

The solution
The end customer required that a fully automated crane be used in the biomass hall instead of a front loader and conveyers. Cycle times were calculated to make sure that the duty class M7 (FEM 4m) hoist, with the required four-ton capacity, was suitable.

A clamshell 2,5 m³ hydraulic grab was used and the crane was equipped with Smart Features including Sway Control and Slack Rope Prevention.

The result
The crane was delivered and erected on time. The crane is equipped with the TRUCONNECT Remote Monitoring, that lets the customer and Konecranes Service monitor crane condition and usage. The crane handles the expected volume of biomass daily, and the automation ensures that there is always enough fuel to burn. To make sure that the process continues with minimal disruptions, the customer has made a service contract with Konecranes.



"It was very nice to work with Konecranes professionals, and in the future I will be happy to work with them again."

Jonas Pugzlys
Project manager at New Heat





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 16,500 professionals in over 50 countries, Konecranes is trusted every day to lift, handle and move what the world needs. In 2025 Group sales totalled EUR 4.2 billion. Konecranes shares are listed on Nasdaq Helsinki (symbol: KCR).

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