

Surahammars Bruk AB - Tata Steel, Sweden

**MODERN AND STABLE
PROCESS CRANE WITH
PRECISE SCALE SYSTEM**



Surahammars Bruk AB, the sole producer of electrical steel in Scandinavia, is located in Sweden and employs close to 170 people. The origin of the company can be traced back to the 16th century and the first delivery of electrical steels was made in 1916.

Today Surahammar is a subsidiary of Cogent Power Limited belonging to the Tata Steel Group. The Group is one of the world's top ten steel producers. Tata Steel is the second largest steel producer in Europe with a well diversified presence across the continent. Surahammars Bruk produces 80,000 tons of electrical steel 24/7 and exports 85% of its total present production. The largest customer group is manufacturers of electrical motors and generators.

OLD CRANE WAS UNABLE TO MEET TODAY'S NEEDS

Surahammar has seven overhead cranes which are critical in every step of the electrical steel process. The cranes originated back in the 1960s and one of them was reaching its end-of-design-life. This specific crane played an important role in the customer's process; it weighed, lifted and moved steel coils to different production lines.

The old crane was becoming unreliable with increased drops and had an increasingly inaccurate scale system. The crane needed to be either modernized or replaced with a new one in order to avoid breakdowns and to meet the required production standards. Additionally, the customer also needed to replace their old 1960s furnace with a modern one.





Modernization was considered the best option in this case. **Nils-Erik Lundh** (right), Technical Services Manager and **Lars Löfgren**, Electrical Maintenance, (left) at Surahammar sat together with **Veli-Matti Malmström**, Modernization Manager in Sweden (middle) to discuss the scope and schedule of this modernization.



The modernization project had a very tight deadline. The crane installation needed to take place at the same time as a new furnace installation. The modernization team consisted of the Surahammar's maintenance people, Konecranes crane specialists, component factory and global modernization support team.

CUSTOMIZED MODERNIZATION MET THE CUSTOMER'S NEEDS

In order to overcome all these challenges, Konecranes made the tailor-made modernization as follows:

- New Twin Hoist Trolley with double frame and Konecranes SMARTON® machinery (Process hoist: 25-ton capacity, Auxiliary hoist: 60-ton capacity)
- Crane cabin was equipped with modern air conditioning, new chair, electric cabinet, and the cabin was also painted
- New inverters



The whole team worked seamlessly together in order to complete the project successfully and meet the deadline in June 2012.

“We really appreciate the project team’s effort and real service-attitude to meet the tight schedule. As a result, we have a modern and stable crane, a scale system with 0.2% accuracy (±50 kg) and thus better control over hot rolling of steel. This helps us to optimize our production”, says Nils-Erik Lundh, Technical Services Manager at Surahammar.



INDUSTRIAL CRANES: Konecranes is the industry benchmark for safety, reliability, cost saving and productivity-enhancing innovation. Standard and heavy-duty cranes include electric overhead cranes up to 1,000+ tons and explosion-proof cranes and components. Workstation lifting systems feature enhanced material flow with ceiling-mounted monorails and free standing cranes systems, jib cranes and manual lifting products and electric chain hoist up to 7500 kg. Konecranes provides any lifting application in any industry.



NUCLEAR CRANES: With nearly a half century of nuclear crane experience Konecranes is the most seasoned supplier in the industry. Our wide range of products are designed specifically for operation in nuclear applications and our quality control program ensures that each nuclear crane and component is designed, manufactured and installed to the demanding standards of the nuclear industry.



PORT AND PORTAL CRANES & SERVICE: Konecranes designs, manufactures, and delivers large cranes for ports, container terminals, intermodal terminals, shipyards and bulk material handling. We also provide expert maintenance and after-sale support as well as complete crane service worldwide for all types and makes of harbor and shipyard cranes.



HEAVY-DUTY LIFT TRUCKS: Konecranes is a world-leading manufacturer of lift trucks with lifting capacities of 10 to 80 tons. For over 50 years Konecranes has designed and customized trucks for the most demanding applications and continues to offer a wide range of trucks for customers in many different industries. Products include forklifts, reach stackers, empty container handlers, gantry trucks/toploaders.



CRANE SERVICE: Konecranes provides an extensive range of services and unique capabilities dedicated to improving safety and helping your business decrease the cost of downtime and increase the productivity of uptime. We can service any make of crane and hoist. With a global network of maintenance professionals operating from more than 570 service depots around the world, we repair, inspect, modernize and maintain more cranes worldwide than any other company.



MACHINE TOOL SERVICE: As a global leader in machine tool maintenance service, Konecranes offers world-class service on all makes and models of machine tool equipment. From maintenance programs to rebuild, remanufacture and retrofit, we have the knowledge and expertise required to keep your equipment running effectively and efficiently.



PARTS: Konecranes is the OEM for many of the best known brands of hoists and cranes as well as the largest single source supplier for parts of all makes. We have the most extensive inventory in the industry, as well as dedicated in-house parts manufacturing and extensive reverse engineering services to assist you with obsolete and/or not readily available parts. Our expert technicians are always available to help with field installation and support.