

INDUSTRIAL CRANES
NUCLEAR CRANES
PORT CRANES
HEAVY-DUTY LIFT TRUCKS
SERVICE
MACHINE TOOL SERVICE

PORT SERVICE

KONECRANES[®]
Lifting Businesses[™]

Global Port Service

RELIABLE SERVICE, AROUND THE WORLD, AROUND THE CLOCK, AROUND YOUR PRODUCT





KONECRANES

WE KEEP PORTS RUNNING AROUND THE GLOBE

Running a successful business requires having high level equipment reliability and productivity, as well as keeping your costs at a reasonable level. Could your business do with lower maintenance costs and total cost of ownership? As different industries have different standards and requirements, working in the port industry, you may have also encountered safety and environmental issues. Konecranes Port Service helps our customers minimize the total cost of ownership and continuously improve their equipment reliability by combining state of the art knowledge of port equipment and services available through a global service network and local support.

We design, manufacture and deliver cranes for commercial and industrial seaports, shipyards and inland terminals along with expert maintenance and after-sale support, offering a complete range of services for all makes and brands of port and harbor equipment.

Our solid experience has been gained over half a century of building and servicing port equipment. We are a technology driven service company introducing new solutions to equipment performance and service.



COMPLETE RANGE OF GLOBAL SERVICES

INSPECTION SERVICES

We offer customized inspection programs for your equipment.

- > Periodical inspections
- > Compliance and safety inspections
- > Load testing services



MAINTENANCE PROGRAMS

We offer customized maintenance programs focusing on your specific operations, optimizing your maintenance and increasing your productivity.

- > Preventive and predictive programs
- > Full maintenance agreements



ON-CALL SERVICE

Our experts have local expertise, knowledge of best practices and the latest technologies to repair your equipment and get your production up and running.

- > On-call service, with 24/7 response



REPAIRS AND IMPROVEMENTS

Whether your repairs are an emergency, planned, or an upgrade, we will help you to get your equipment up and running.

- > Planned repairs based on inspections and maintenance reports
- > Pre-engineered modernizations

MOVES & RELOCATIONS

Konecranes is qualified to move equipment built by any manufacturer to a new location – nearby or half a world away.

- > cranes, bridges, ship sections
- > conventional methods
- > FLUIDTS Air Gliding system

SPARE PARTS

Konecranes parts centers are located all around the world – replacement parts for all makes and models of Ports equipment.

- > Total solution provider for all your parts needs – Konecranes or non-Konecranes parts.
- > Spare parts even for older cranes that are no longer manufactured

MODERNIZATIONS

We offer long-term modernization solutions to improve the reliability and performance of your equipment.

- > Maximum performance with complete and reliable modernization solutions
- > Energy savings with modern drives and speed control
- > Material savings by using the existing steel structures and components



SPECIAL SERVICES AND CONSULTATION

We have skilled trainers and specialists at your service around the world to help you with:

- > Operator training
- > Crane reliability surveys
- > Special assessments
- > Other consulting services



**For all makes
and brands of
port and harbor
equipment.**

HOW CAN WE LIFT YOUR BUSINESS?

Konecranes is committed to helping different ports globally through our vast know-how and local professional customer care by utilizing the latest technology and innovative engineering. We offer comprehensive solutions for our customers that may include consulting, engineering, upgrading and repair services, spare parts supply and installation service.

CONSULTING & ENGINEERING

When **Aarhus Havn** (Denmark) wanted to relocate one of their ship-to-shore (STS) cranes to another jetty and to modify the steel structure of the crane to correspond to the infrastructure of the new jetty, Konecranes provided the design, drawings and the components for the modification project. Based on our solution, the customer was able to carry out the required modifications cost-efficiently and to move the crane to the new location successfully. As a result, the life span of the crane was extended and optimal operational reliability ensured.

SPARE PARTS AND INSTALLATION

The bucket wheels of two **RWE npower's** Konecranes Continuous Ship Unloaders (CSU) at Bristol Bulk Terminal had reached the end of their operational lives and had to be replaced. Quickly and reliably, Konecranes produced the bucket wheels in accordance with the original specifications and delivered and installed them on-site at the agreed time – without causing any extra disturbance or inconvenience to the customer, and thus minimizing their downtime. Increase in cost efficiency was also gained through flawless functioning, long operational life and plant availability, as well as reduction of additional process failure costs.

UPGRADING

South Carolina State Ports Authority (USA) wanted to increase the storage capacity of their container yard by increasing the lifting height of the container yard equipment. Konecranes provided them with a complete package with a total of ten RTG (Rubber Tyred Gantry) cranes, including design, engineering and procedures, the necessary extension structures for the crane legs, machinery modifications, site activities, lifting arrangement and re-commissioning. As a result, the customer gained approximately 25 % more storage capacity in their container yard.

EMERGENCY REPAIRS

Suez Canal Container Terminal's ZPMC STS Crane was hit by a vessel, and pushed out of the rails damaging the travelling system and the steel structure of the crane. Konecranes secured the crane from collapsing and moved it to the repair position at the yard using the FLUIDTS Air Gliding Systems. The damaged long travel system was disassembled, and a new one installed. The moving of the crane had its challenges: the ground was shifting quicksand, hence it couldn't be laden with more than 3 tons and 6 tons per square meter. However, Konecranes succeeded in executing the task within five months, from initial inspection to delivery, and in replacing the supporting elements of the structural steelwork without any losses in terms of stability, reliability or safety.

ENGINEERING, CONSULTING & REPAIR

Due to several years of use in a harsh climate, **Vopak's** level luffing jib crane had sustained considerable damage due to corrosion in Venezuela. Konecranes carried out an inspection and a lifetime analysis in order to establish the structural condition of the crane. The inspection showed that the jib tie needed to be replaced. Konecranes provided the design and manufactured the parts for the jib tie, as well as supplied replacement procedures and supervised the replacement work. As a result, the operational life of the crane has been substantially increased. In addition, the work carried out by Konecranes made an important contribution to increasing safety and to the retention of the machinery's value.

REPAIR

In **Hyundai Heavy Industries** (Korea), a rubber bearing assembly in a Konecranes Goliath Gantry Crane was found to be defective and causing problems during ship block assembly. Konecranes provided the necessary components, engineering, procedures and supervision for the replacement of the bearing. The replacement work was carried out under difficult conditions: at a height of 85 meters, and handling massive weight. Committed around-the-clock efforts enabled Konecranes to complete the work punctually within just four days, after which the crane could be taken back into operation without any problems.



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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 and machine tools of all makes. In 2009, Group sales totaled EUR 1,671 million. The Group has 9,800 employees at 545 locations in 43 countries. Konecranes is listed on the NASDAQ OMX Helsinki Ltd (symbol: KCR1V).

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