

---

# Container Cranes

---

## LIEBHERR

Liebherr Container Cranes Ltd.



# Contents

Ship to shore container cranes	6
Wide span ship to shore stacking cranes	18
Rail mounted gantry cranes	20
Rubber tyre gantry cranes	24
Performance and reliability	26
Partnership throughout	28
Advanced manufacturing technologies	30
Transport, shipping and installation	42
Extensive training	46
Exceptional product support	48
Unique product features	50



# Introduction



Liebherr Container Cranes Ltd. designs, manufactures and installs a complete range of ship to shore container cranes, rail mounted gantry cranes and rubber tyre gantry cranes.

Liebherr is recognized worldwide, as an industry leader, in the supply of high performance, ultra-reliable equipment and has supplied container cranes of all sizes from panamax size to the latest generation of megamax cranes to over 150 ports and terminals in over 60 countries of the world. The cranes are designed, manufactured and assembled at our specialist crane engineering factory in Killarney, Republic of Ireland, and erected and tested by experienced Liebherr personnel.

Each crane is pre-assembled and tested in the factory before shipping, ensuring that the time required for erection and commissioning is kept to the absolute minimum.

# Quality container cranes from Liebherr



In the modern port environment, reliability and productivity are key.

Container cranes require high availability in order to deliver the productivity rates demanded by shipping lines and port operators. This can only be achieved by purchasing the best equipment. Container cranes from Liebherr work on all five continents and use state-of-the-art technology to meet the rigorous demands of the port industry, time and time again. The high level of repeat business enjoyed by Liebherr Container Cranes stands as a testament to the high quality and productivity of Liebherr cranes.





Port of Southampton, UK

# Ship to shore cranes - post panamax



Post panamax ship to shore cranes, Koper, Slovenia





# Ship to shore cranes - super post panamax



Super post panamax ship to shore cranes, Puerto Central, San Antonio, Chile



# Ship to shore cranes - megamax



Megamax ship to shore cranes, DCT Gdansk, Poland



# Innovative design



Double boom crane, Aliaga, Turkey, Inset: Hatch cover platforms, Durban, South Africa



With over 60 years of experience in crane design and manufacturing, Liebherr's team of experienced engineers and designers provide tailor made solutions, specific to individual requirements.

# State of the art equipment



Liebherr utilises the latest technology to ensure that all Liebherr cranes are future proof. With Liebherr's open architecture and software, expensive upgrades are avoided. Technology such as automation and semi automation, positioning systems, profiling, OCR and collision avoidance systems, ensure that Liebherr cranes achieve industry leading productivity levels.



Articulated boom cranes, Sydney, Australia



# Wide span ship to shore stacking cranes



Wide span ship to shore stacking cranes, Gavle Container Terminal, Sweden

This multi purpose crane is specifically engineered to offer the ultimate in flexibility. The Liebherr wide span ship to shore stacking crane optimises port performance where space is at a premium.



# Rail mounted gantry cranes



Rail mounted gantry (RMG) cranes are manufactured to individual customer needs in a variety of different configurations. Stacking heights of up to eight containers high can be supplied, with custom spans and outreaches. Each RMG features Liebherr's crane management and reporting software and is designed for manual or automatic operation. The application of Liebherr's eight rope reeving no-sway system and simultaneous motion of all drives leads to increased productivity when compared with alternative designs.



Rail mounted gantry cranes, Felixstowe, UK

# Specific terminal solutions

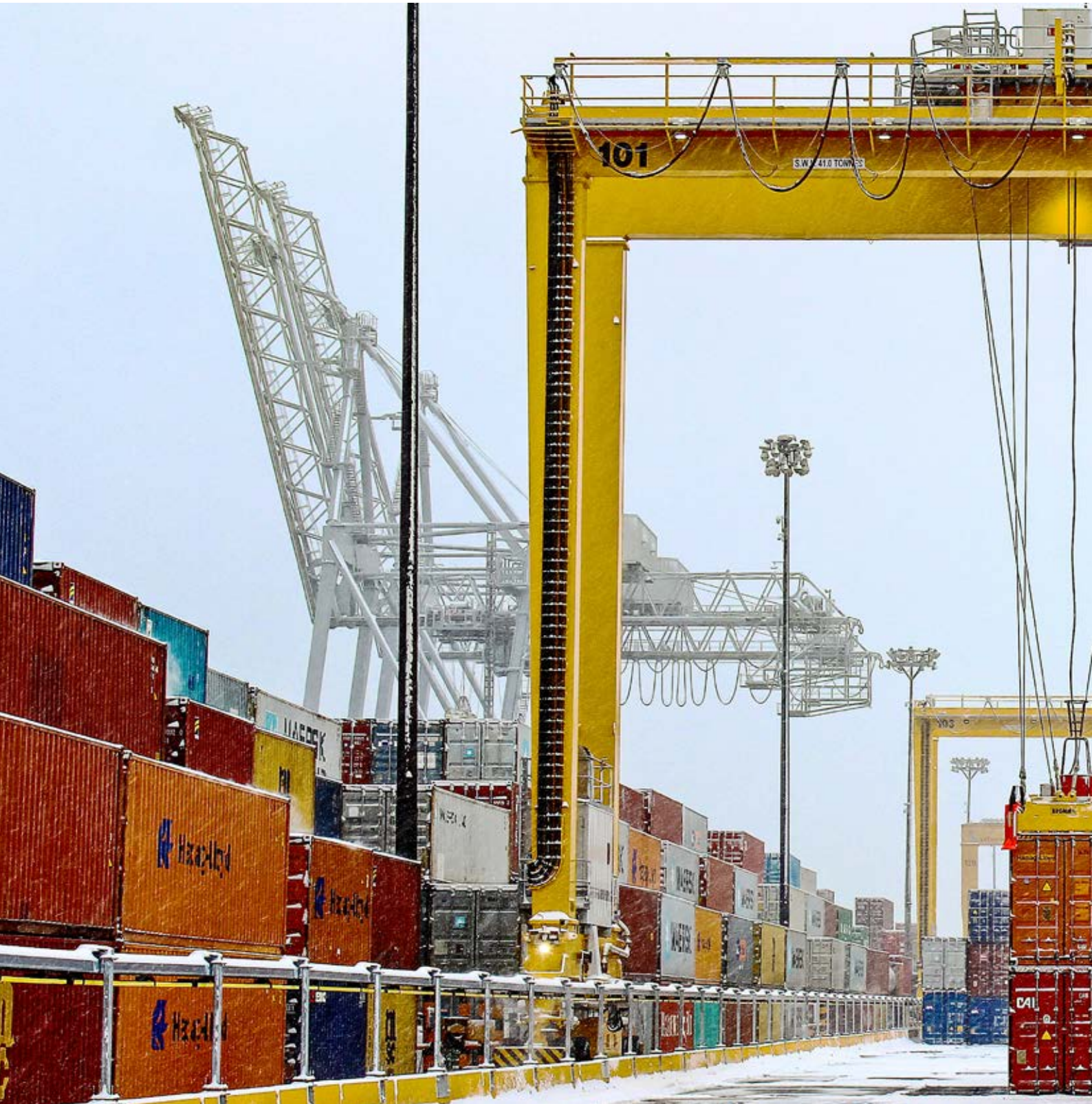


Whether the landside of a port operation, or a solution for intermodal terminals, Liebherr RMGs are available in a variety of different specifications, each tailored to specific requirements. Different levels of automation are available from simple stack destination control to multi-crane remote user configurations.



Rail mounted gantry cranes, stobart Group, Widnes, UK

# Rubber tyre gantry cranes



Liebherr rubber tyre gantry (RTG) cranes feature an eight rope reeving no-sway system and simultaneous drive motion of all drives. With increased productivity levels when compared with alternative designs, overall capital investment and costs per box handled are substantially reduced.



Rubber tyre gantry cranes, Montreal Gateway Terminal, Canada



# Performance and reliability



With cranes supplied to over 150 ports and terminals in over 60 countries worldwide, Liebherr availability figures are the benchmark for the industry. Liebherr container cranes are designed to the highest quality standards using cutting-edge technology, which meets the stringent demands of the modern port environment. In-house expertise in structural, mechanical, electrical and electronic engineering guarantees superior standards in innovative technology, product quality and long term performance, as well as reduced life time costs.



A busy Liebherr container crane, Paranagua Container Terminal, Brazil

# Partnership throughout



From the beginning of every contract Liebherr Container Cranes Ltd. is an equal and active partner. For more than 60 years, Liebherr has specialised in crane equipment design, installation/commissioning, service and training of personnel. Your success is Liebherr's goal.



# Advanced manufacturing technology



Liebherr's team of experienced personnel is unrivalled in the container handling industry, with over 60 years of experience. The Irish based manufacturing facility utilises the most modern manufacturing equipment to produce their cranes. This level of expertise and technology is evident in the quality of every container crane that Liebherr has supplied.









# Technology in detail



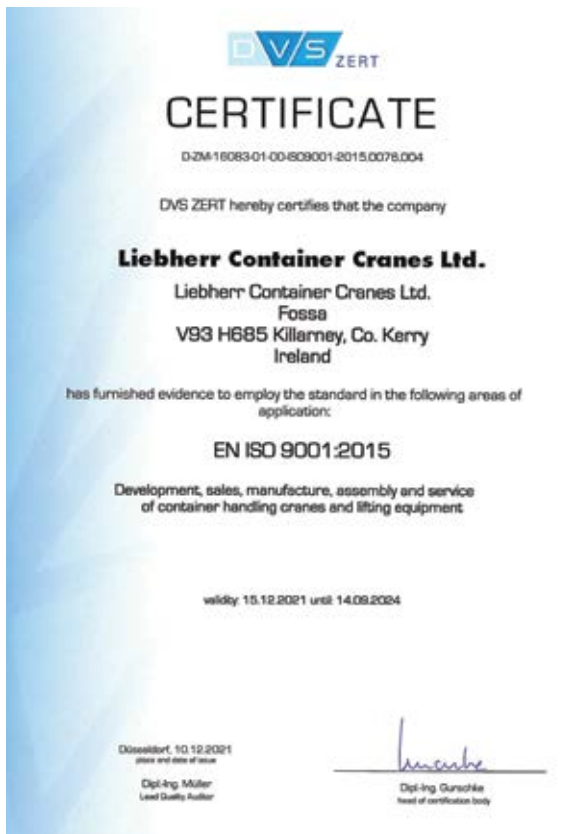
The structural and mechanical design of a Liebherr container crane has evolved over time into a perfectly adapted, highly productive, reliable machine. The incorporation of technological features such as container crane specific Liebherr Liduro drive systems, crane management and reporting software and a myriad of technological aids are essential steps in maintaining high productivity in increasingly demanding port and terminal environments.



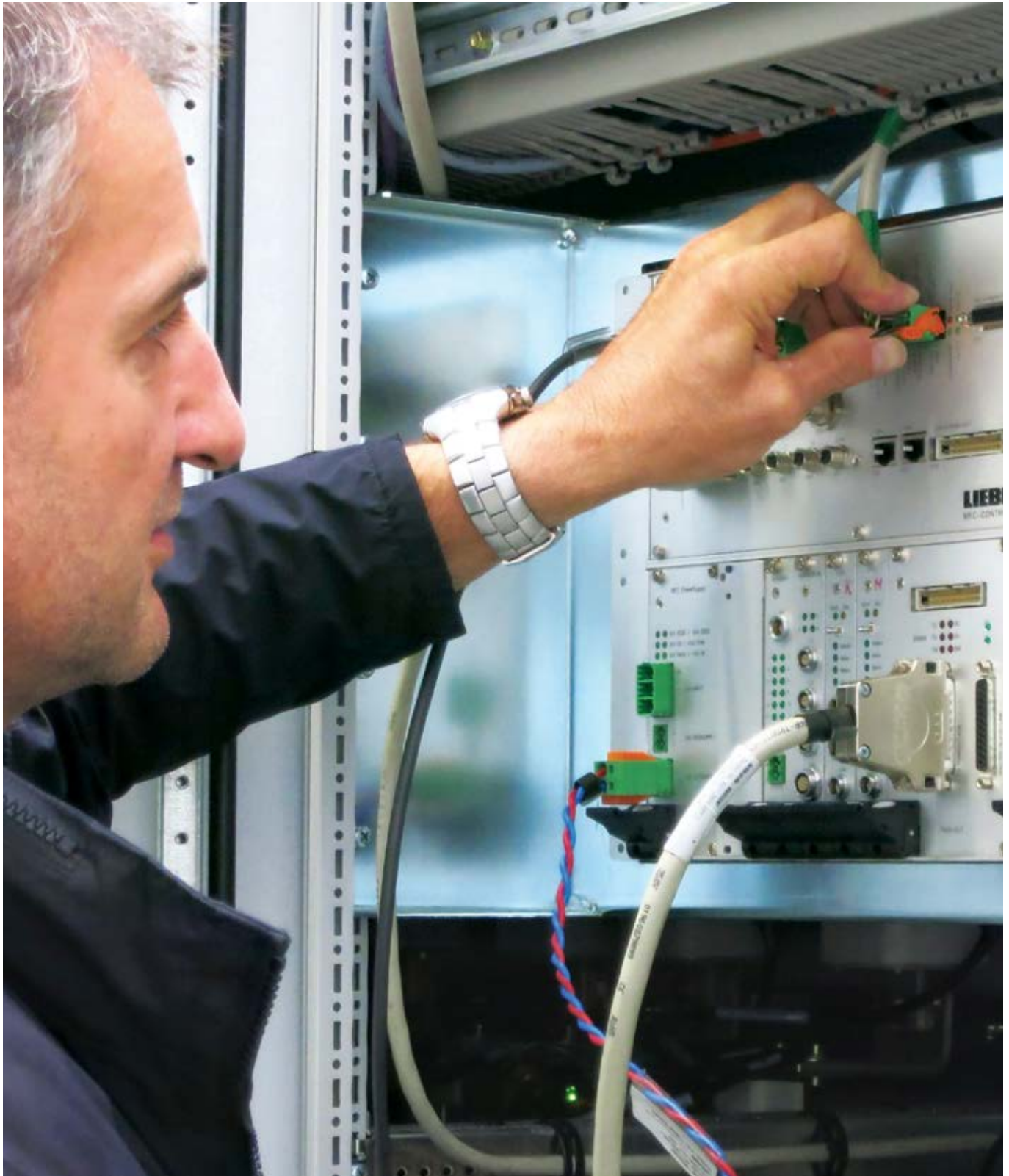
# Pre-assembly and quality control



All the main structural components are pre-assembled before each crane leaves the factory, to ensure a professional and speedy installation. A specialised team of quality control personnel confirm adherence to strict certified quality procedures, ensuring that each and every Liebherr crane is manufactured to the highest industry standards.



# Testing of all drives in-house



Liebherr designed and manufactured drive systems deliver the ultimate in crane control and performance. All drives are fully assembled, connected and thoroughly tested in-house, ensuring that at the heart of every Liebherr crane is a fully tested, high performance, crane specific, reliable drive system.



# Final assembly



Before a crane is dispatched, all electrical and machinery houses are assembled and electrically connected prior to testing. Container crane and RTG gantry bogies are assembled. Main beams and booms are equipped with cabling, lights etc. Trolleys and cabins are assembled, wired and tested, ready for shipping. Extensive testing in final assembly ensures a fast and efficient installation.





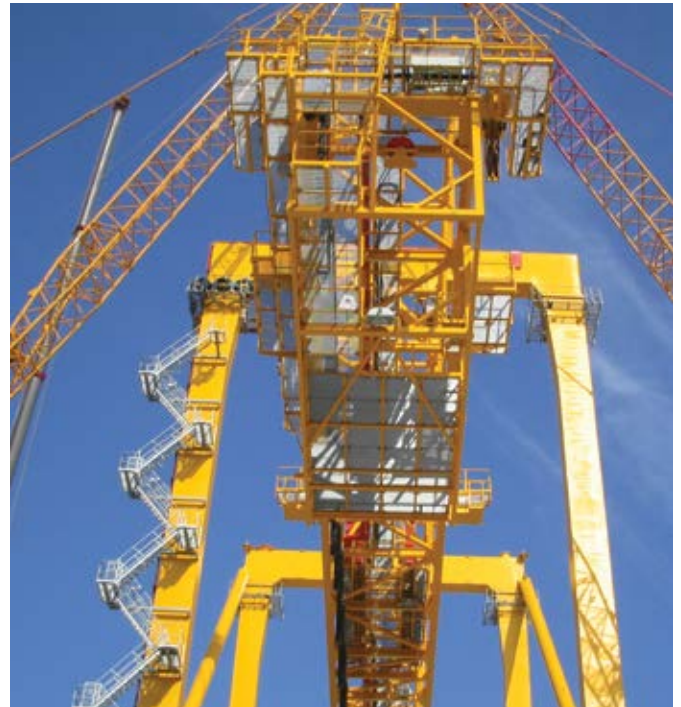
# Transport and shipping



Liebherr has extensive experience in shipping of cranes to all parts of the world. Cranes are exported through the nearby Port of Fenit in large preassembled components. In order to speed up the on-site installation, crane sections are assembled and tested to the maximum extent possible, prior to loading on to the delivery vessel. As an option, cranes can be shipped fully assembled from Liebherr's facility in the Port of Cork.



# Fast and efficient installation



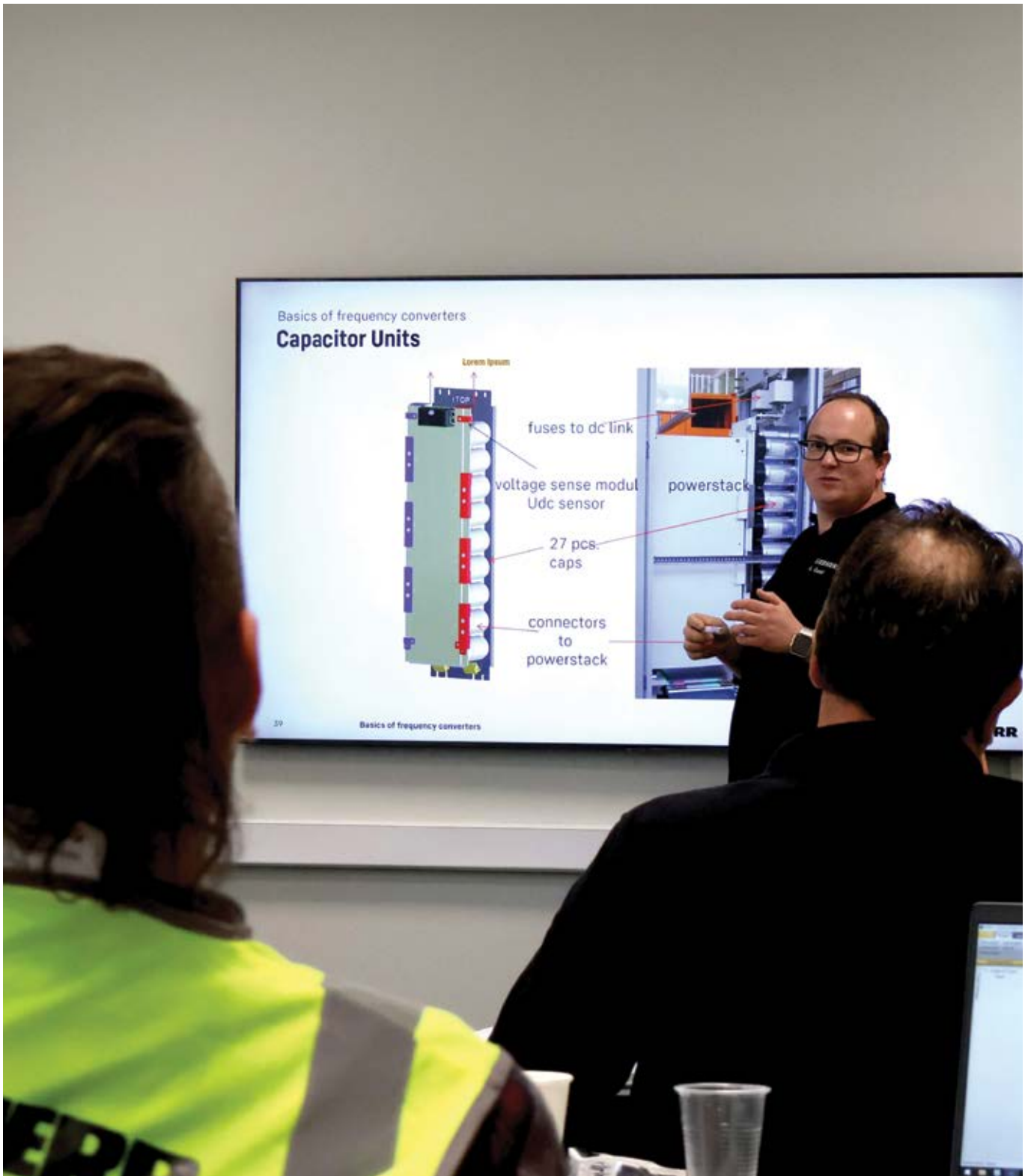
Installation planning is carried out by Liebherr engineers, in close co-operation with the client. All crane installations are undertaken by, and under the supervision of trained Liebherr personnel. The crane installations department is staffed by skilled and experienced engineers who have been selected on the basis of outstanding ability demonstrated in their various skills. Their wide international experience under a variety of working and climatic conditions has contributed greatly to Liebherr's worldwide success.

# Experience to suit every project



With experience in the design and delivery of cranes since 1958, Liebherr Container Cranes Ltd. is a partner that will bring this extensive knowledge to each new project undertaken.

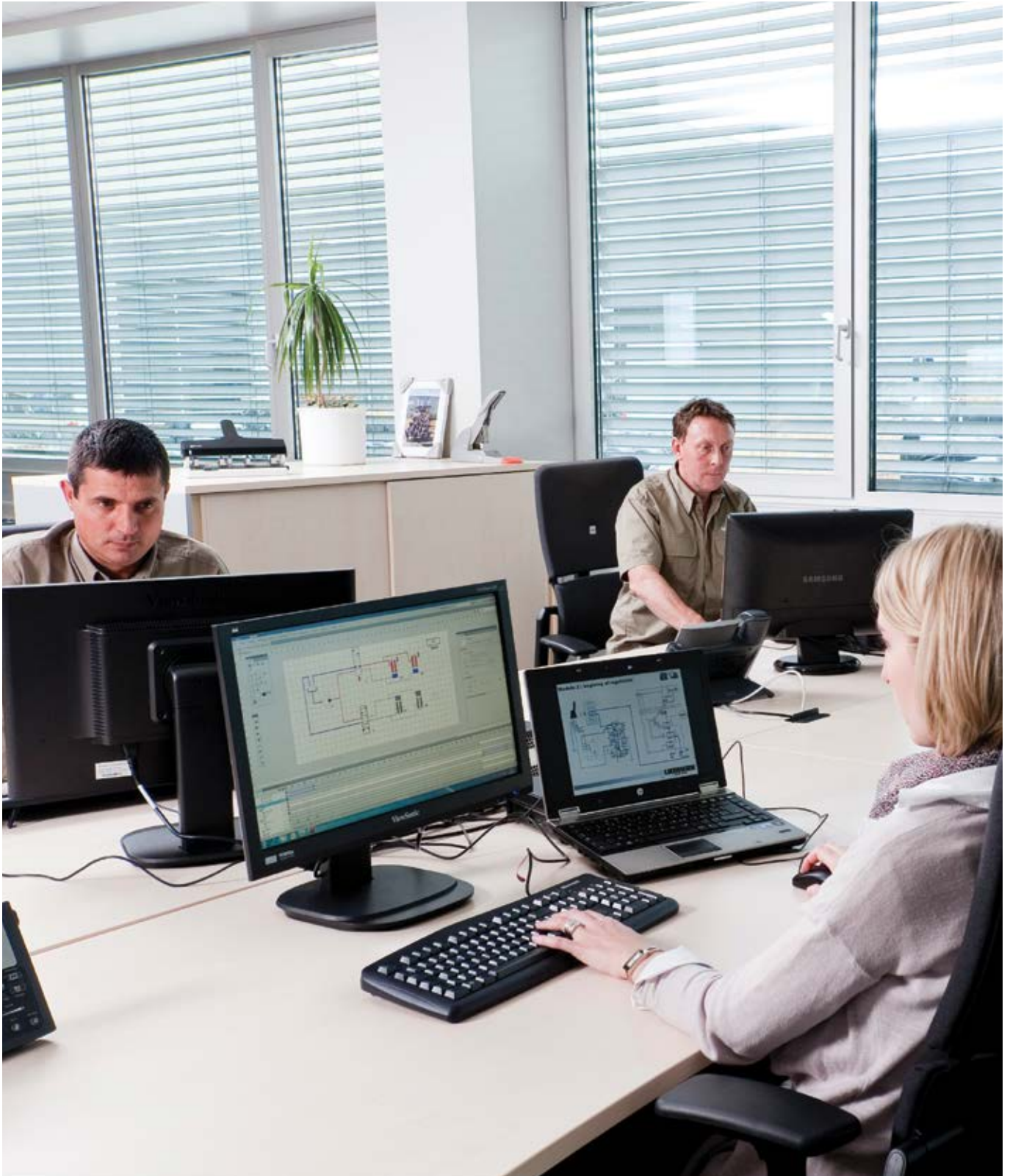
# Extensive training



Regular training and retraining courses are provided for technical staff of new and existing customers, providing information on developments. Comprehensive training courses for both operators and engineers are held at our Killarney facility as well as on-site. The training courses contain both classroom tuition and hands-on training. The tutors are the experienced engineers and designers who develop, design and commission cranes on a daily basis.



# Exceptional product support



Extensive factory testing and careful selection of high quality components results in low demand for spare parts which keeps maintenance costs to a minimum. A 24 hour backup service is available, providing assistance and service support worldwide, ensuring high availability of Liebherr machines.





# Unique product features





# Ship to shore cranes - panamax



Panamax ship to shore cranes, Racine Terminal, Port of Montreal, Canada



**Product Range**

Liebherr Container Cranes supply ship to shore container cranes, rail mounted gantry cranes and rubber tyre gantry cranes, designed to custom specifications, to discerning customers worldwide. Liebherr cranes have been designed and built in Killarney, Ireland since 1958, with the first container crane being manufactured in 1967. Each crane manufactured today, is built on the strength of this vast experience and innovation.

**Exceptional Customer Support**

Liebherr is a one-stop shop for customer and product support for the lifetime of the crane. From our base in Ireland, we offer spares and service worldwide. Service is available round the clock, 24/7 and is just a call away at any time of the day or night.

**State-of-the-art Technology**

Developed in house and utilising the latest technology and considerable experience of the Liebherr group, our cranes offer an extensive suite of productivity and safety technologies from automation to 3D profiling to boost throughput and efficiency.

**Worldwide and Independent**

Hans Liebherr founded the Liebherr family company in 1949. Since that time, the enterprise has steadily grown to a group of more than 140 companies with over 50,000 employees located on all continents. The corporate headquarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.

