

Project Introduction September 4th 2023

LIEBHERR

Liebherr Container Cranes Ltd.



Liebherr Container Cranes (LCC)



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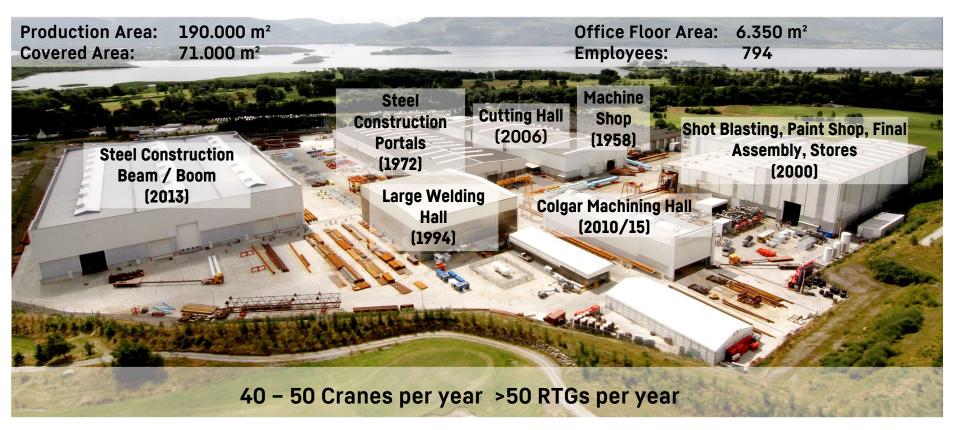
- 1958 Established in Killarney
 - First Liebherr factory set up outside of Germany (manufacturing tower cranes)
- 1967- Manufactured first container crane
- 1972 Liebherr Container Cranes incorporated.
 - Since 1972 over 600 container cranes manufactured in LCC
 - Cranes from feeder service up to Megamax
 - Wide span stacking cranes
- 1999 Commenced manufacture of Rubber Tyre Gantry (RTG) [>365 manufactured to date].
- Recent years automation and remote control





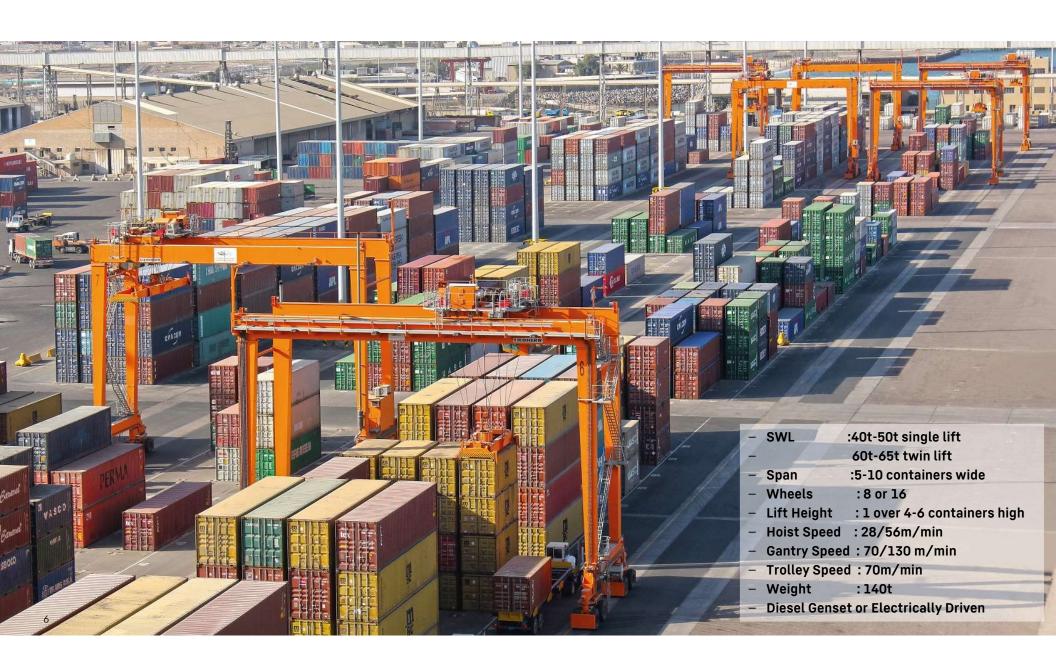
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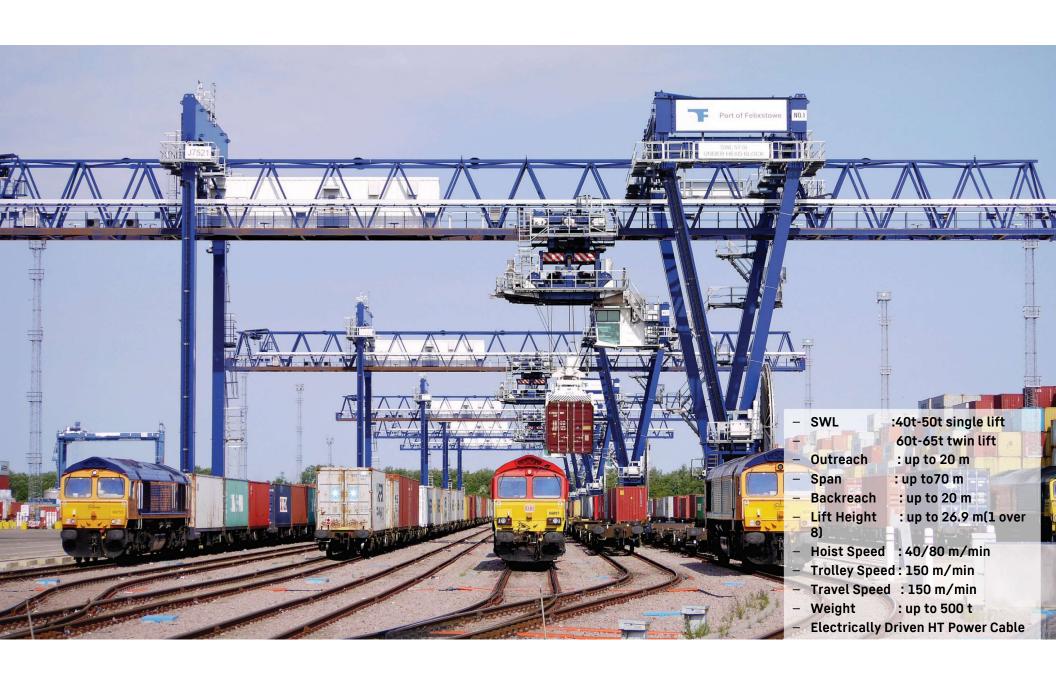
Liebherr Container Cranes – production facilities



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Liebherr Automation Systems

- Automation/semi automation for all container cranes
- Remote Operator Station (ROS)for operation/exception
- Fully flexible, tailored to your operation

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Development Highlights

Dual Trolley STS Crane

- Ongoing project (2 No.)
- Cabinless
- Automated / remotely driven
- Dual trolley
- Tandem headblock
- Elevated pinning platform and docking stations
- Decouples land and seaside
- Increases productivity
 - Reduced cost per box move

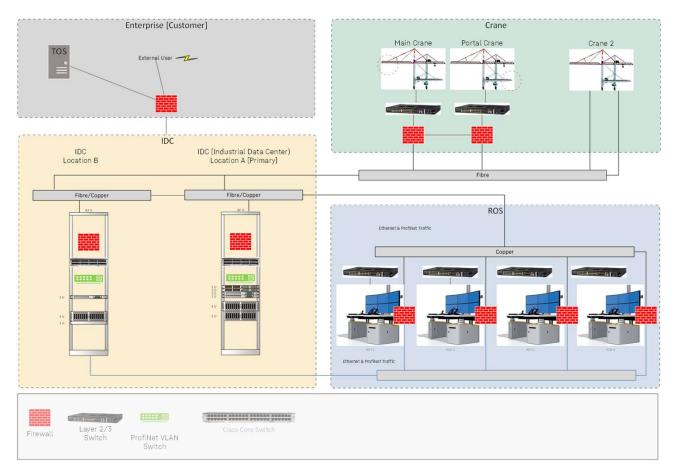
Key Features

- Outreach 73m
- Backreach 26m
- 81m total hoist height
- Span 30.480m
- Tandem lift



Automation Systems on Our Cranes

Example Project Scope for LCC



600 + Container Cranes | 365 + RTGs | 50 + Counties | 100 + ports

Liebherr container cranes at work



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Challenge Summary

The challenge is:

How to best formulate Service Level Agreements for a relatively small number of highly complex systems and how to manage and resource these in a way that delivers and is commercially viable for LCC and our Clients

SLA Services

The SLA shall include the following services:

Support Service

- The Support Service shall be provided during the Support Hours and shall comprise of:
 - A help desk contactable by telephone and e-mail/portal to provide first level technical support to users of the Supported Systems and Software
 - Where possible, remote diagnosis and correction of faults
 - Access to second level technical support for resolution of incidents or hardware repair / replacement

Updating Service

- The updating service shall provide Modifications of the Software as and when required to maintain the use of the Software
- The Updating Service shall include the supply to Purchaser of all revisions to the Documentation



Supported Software

The Supported Software is:

- All Software products, including Modifications
- Any other software which the Contractor and Purchaser agree should be Supported Software
- make Maintenance Releases available to Purchaser without any additional charge
- In relation to New Versions:
 - Provide any New Versions and integrate
 - Test New Versions to best industry practices or such other agreed test criteria

