

LIEBHERR

Diagnostics

LICCON 1

Operating instructions

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Werk-Number	
Date	

The operating manual is part of the crane!

It must always be available within reach!

**The traffic regulations and those for crane operation
must be observed!**

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Foreword

General




This crane has been built according to the present level of technology and recognized safety technical regulations. Despite that, dangers to body and life for the user and/or third persons or damage to the crane and /or other material assets can occur.

This crane may only be used in flawless technical condition and according to its mission as well as with constant awareness of safety and dangers. Any problems, which could affect safety must be fixed immediately.

Modifications on the crane may only be made with written approval by Liebherr-Werk Ehingen GmbH.


Warning notes

The following terms that are used in these operating instructions **DANGER**, **WARNING**, **CAUTION** and **ATTENTION** are intended to point out certain important rules of conduct to all persons who work with the crane.

Warn- ing signs	Signal word	Explanation
	DANGER	Designates a dangerous situation which will lead to death or serious injury if it is not prevented.
	WARNING	Designates a dangerous situation, which can lead to death or serious injury if it is not prevented.
	CAUTION	Designates a dangerous situation, which can lead to slight or medium-grade injury if it is not prevented.
	ATTENTION	Designates a dangerous situation, which can lead to property damage if it is not prevented.

Further notes

The term **Note** used in this operating instructions is intended to point out useful information and tips to all persons who work with the crane.

Sym- bol	Signal word	Explanation
	Note	Designates useful information and tips.

Operating instructions

These operating instructions are intended to put you in a position to operate the crane safely and utilize the reliable usage options that it provides. The instructions also provide information about the function of important components and systems.

Certain expressions are used in these operating instructions. In order to avoid misunderstandings, the same expressions should always be used.

These operating instructions have been translated to be best of one's knowledge. Liebherr-Werk Ehingen GmbH assumes no liability for translation errors. The German version of the operating instructions is solely applicable for factual accuracy. If you find any errors or if any misunderstandings arise when reading these operating instructions, please contact Liebherr-Werk Ehingen GmbH immediately.



DANGER!

Risk of fatal accidents if crane is not operated correctly!

Incorrect operation of the crane can result in death or serious injury!

► Only authorized and trained expert personnel are permitted to work on the crane!

The operating instructions and on-site regulations and specifications (such as accident prevention regulations) must be followed.

Using these operating instructions:

- **makes it easier** to become familiar with the crane
- **avoids** problems due to improper operation

Observing these operating instructions:

- **increases** reliability in use
- **extends** the service life of your crane
- **reduces** repair costs and downtime

Always keep these operating instructions handy in the driver's or crane cab.

The operating instructions belong with the crane!

Only operate the crane if you are well familiarized with the equipment, and always follow these operating instructions.



Note!

► If you have received additional information from us relating to the crane, such as technical information bulletins, instructions and / or supplements to the operating instructions, then this information must also be observed and kept with the operating instructions.

If there is anything in the operating instructions or the individual chapters that you do not understand, please contact us before starting the relevant work.

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All accident prevention guidelines, operating instructions, etc. are based on destined use of the crane.

Destined use

The destined use of the crane consists solely in vertical lifting and lowering of free and non-adhered loads, whose weight and center of gravity are known.

To do so, a hook or hook block approved by Liebherr must be reeved on the hoist rope and it may only be operated within the permissible crane configurations.

Driving with the crane, with or without an attached load is only permissible if a corresponding driving or load chart is available. The crane configurations intended for it and the safety conditions must be observed according to the corresponding operating instructions.

Any other use or any other exceeding utilization is **not** destined use.

Part of destined use is also adherence of required safety regulations, conditions, preconditions, crane configurations and working steps as noted in the crane documentation (operating instructions, load chart, job planer).

The manufacturer is **not** liable for damages, which are caused by non-destined use or improper use of the crane. Any associated risk it is carried solely by the owner, the operator and the user of the crane.

Non-destined use

Non -destined use is:

- Working outside the permissible crane configurations according to the load chart
- Working outside the permissible projection radii and slewing ranges according to the load chart
- Selecting load values, which do not correspond to the actual crane configuration
- Selecting LMB-Codes, which do not match the actual crane configuration
- Working with bypassed load moment limiter or bypassed hoist limit switch
- Increasing the projection radius of the lifted load after a LMB shut off, for example by diagonally pulling the load
- Using the support pressure display as a safety function against tipping over
- Using equipment or attachment parts which are not approved for the crane
- Using the crane at sports and recreational events, especially for 'Bungee' jumps
- Driving on a public road in non-permissible driving condition (axle load, dimension)
- Driving with the equipment in place in a non-permissible driving condition
- Pushing, pulling or lifting loads with the leveling regulation, the sliding beams or the support cylinders
- Pushing, pulling or lifting loads by actuating the slewing gear, the luffing gear or the telescoping gear
- Ripping stuck objects loose with the crane
- Utilizing the crane for a longer period of time for material handling tasks
- Releasing the crane suddenly (grapple or dumping operation)
- Putting the crane into service when the weight of the load, which is suspended load on the crane, is changed, for example by filling a container suspended on the load hook

The crane may **not** be used for:

- attaching a stuck load for which the weight and center of gravity are not known and which has been released first, for example with a cutting torch
- letting persons drive along outside the driver's cab
- transporting personnel in the crane cab while driving
- transporting personnel with the lifting equipment and on the load
- transporting personnel with containers (cherry pickers), if no written approval of the corresponding job safety board has been issued
- transporting loads on the chassis
- two hook operation without auxiliary equipment
- extended material handling operation

The operating instructions must be read and used by all persons who are involved in use, operation, assembly and maintenance of the crane.

Safety equipment

Special attention must be paid to the safety equipment built into the crane. The functionality of the safety equipment must be monitored at all times. The crane must not be operated if the safety equipment is not working or not working correctly.



Note!

Your motto must always be

► Safety first!

The crane has been built in accordance with the applicable crane operation and driving regulations and has been approved by the relevant authorities.

Attachment and spare parts

**DANGER!**

Danger to life if original attachment parts are **not** used!

If the crane is operated with attachment parts, which are **not** original, then the crane can fail and cause fatal accidents!

Crane components can be damaged!

- ▶ Operate the crane only with original attachment parts!
- ▶ Crane operation with attachment parts, which do **not** belong to the crane is prohibited!

**DANGER!**

The crane permit and the manufacturer's warranty will become void!

If originally installed parts are modified, manipulated or replaced (e.g. removal of parts, installation of non-original parts), both the crane permit as well as the manufacturer's warranty will become void.

- ▶ Do not modify original parts!
- ▶ Do not remove original parts!
- ▶ Always use Liebherr original spare parts!

Definition of directional data

Forward driving means driving with the driver's cab on the front.

Reverse driving means driving with the tail lights of the chassis on the front.

Front, rear, right, left on the **crane** refer to the condition, that the driver's cab and the boom point in the same direction. Front is always in direction of the driver's cab.

Front, rear, right, left in the **driver's cab** refer to the crane chassis. The driver's cab is always in the front.

Front, rear, right, left in the **crane operator's cab** refer to the superstructure. Front is always in direction of the boom.

Customer request *

Customer-specific equipment is marked with *.

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