LIEBHERR

Driving with the equipment in place

LR 1600/2-W

LR 1600-2-002

Operating instructions

BAL No.: 218112-01-02

Serial No.	
Date	

ORIGINAL OPERATING INSTRUCTIONS

The operating instructions are part of the crane!

They must always be available within reach!

The regulations for on-road driving and crane operation must be observed!

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Preface

Manufacturer

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General

This crane was built according to the state 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 impeccable technical condition.
- For destined use.
- By trained personnel, which acts in a safety and danger conscious way.
- When no safety relevant problems are present.
- When no modifications were made on the crane.

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.

Data logger

This crane is equipped with a data recording device. Among others, the following data is recorded:
- Date and time of day.
- Entered set up configuration of the crane.
- Actual load.
- Percentage of utilization of the crane.
- Boom radius (working radius).
- Main boom angle, luffing jib angle.
- Total telescopic boom length, length of each telescopic section.
- Every actuation of bypass devices.

The recorded data can be read with a respective software.

Safety and warning display

The safety and warning display is directed to all persons who work with the crane.

The terms **DANGER**, **WARNING**, **CAUTION** and **NOTICE** used in the crane documentation are intended to point out certain rules of conduct to all persons working with the crane.

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Warning signs	Signal word	Explanation
	**DANGER**	Designates a dangerous situation which will lead to death or serious injury if it is not prevented. [1)]
	**WARNING**	Designates a dangerous situation, which can lead to death or serious injury if it is not prevented. [1)]
	**CAUTION**	Designates a dangerous situation, which can lead to slight or medium-grade injuries if it is not prevented. [1)]
	NOTICE	Designates a dangerous situation, which can lead to property damage if it is not prevented.

[1)] This could also result in property damage.

Additional notes

The term **Note** is used in the crane documentation to make all persons working with the crane aware of useful information and tips.

Sign	Signal word	Explanation
	**Note**	Designates useful information and tips.

Crane documentation

The crane documentation is comprised of:
- All supplied documents on paper and in digital form.
- All supplied programs and applications.
- All subsequently supplied information, updates and addenda for the crane documentation.

The crane documentation:
- Makes it possible for you to operate the crane safely.
- Supports you to utilize the permissible application possibilities of the crane.
- Provides you with information about the functionality of important components and systems.

Note
Terminology in the crane documentation.
Certain expressions are used in the crane documentation.
▶ In order to avoid misunderstandings, the same expressions should always be used.

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

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WARNING
Danger of accident due to incorrect operation of the crane!
Incorrect operation of the crane can lead to accidents!
Personnel can be killed or seriously injured!
This could result in property damage!
- ▶ Only authorized and trained expert personnel are permitted to work on the crane.
- ▶ The crane documentation is part of the crane and must be accessible on the crane.
- ▶ The crane documentation and on-site regulations and specifications (such as accident prevention regulations) must be observed.

Using the crane documentation:
- **Makes it easier** to become familiar with the crane.
- **Avoids** problems due to improper operation.

Observing the crane documentation:
- **Increases** reliability in use.
- **Extends** the service life of the crane.
- **Minimizes** repair costs and downtime.

Place the crane documentation accessible in the driver's cab or in the crane cab.

WARNING
Outdated version of crane documentation!
If subsequently supplied information, updates and addenda to the crane documentation are not observed and added, there is a danger of accidents!
Personnel can be killed or seriously injured!
This could result in property damage!
- ▶ Observe and add all subsequently supplied information, updates and addenda for the crane documentation.
- ▶ Make sure that all affected persons always know and understand the latest version of the crane documentation.

WARNING
Crane documentation is not understood!
If parts of the crane documentation are not understood and the tasks are carried out on or with the crane, then there is a danger of accidents!
Personnel can be killed or seriously injured!
This could result in property damage!
- ▶ Clear up open questions regarding the crane documentation with Liebherr Service before carrying out the respective task.

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

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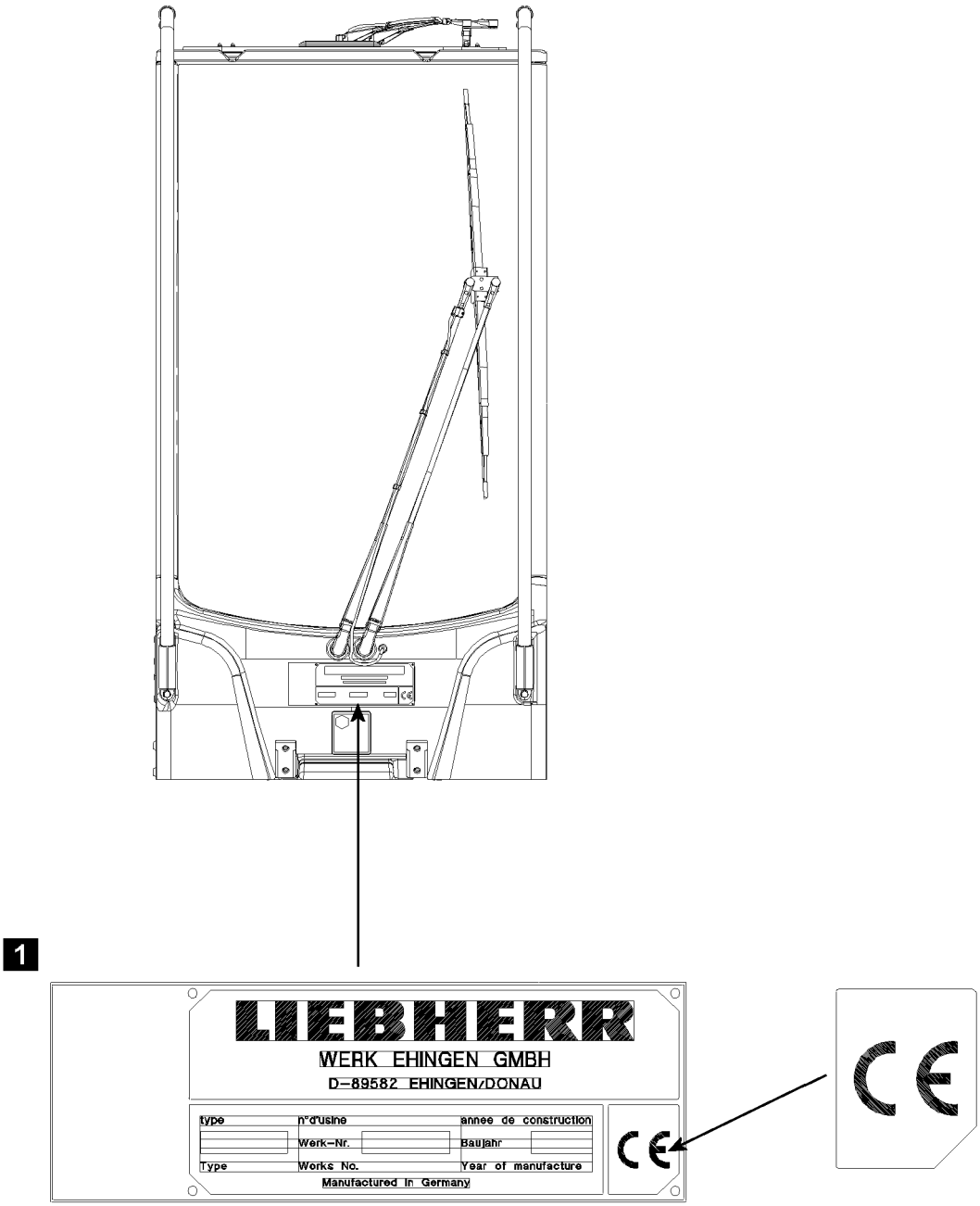

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Fig.110001

CE marking

The CE marking is a mark according to EU laws:
- Cranes with CE-marking according to the European machinery directive 2006/42/EC and the EN 13000! Data tag Crane with CE-marking, see illustration **1**.
- Cranes that are operated outside the respective area of application of the European machinery directive do not require a CE marking. Data tag Crane without CE marking, see illustration **2**.
- It is prohibited to market and operate cranes without CE marking, which do not meet the product-specific regulations valid in Europe, when a CE marking is specified for the country.
- It is prohibited to operate cranes with a tipping load utilization of 85 % within the European Union or in countries that only permit a lower tipping load utilization! The national regulations apply. These cranes may not have a CE marking!

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 set up configurations intended for it and the safety conditions must be observed according to the corresponding crane documentation.

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

Destined use also includes the adherence of the required safety guidelines, conditions, prerequisites, set up conditions and working steps in the crane documentation (for example: Operating instructions, load charts, erection and take down charts, job planner).

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 set up configurations according to the load chart.
- Working outside the permissible boom radii and slewing ranges according to the load chart.
- Selecting load charts, which do not correspond to the actual set up configuration.
- Selection of a set up configuration via code or via manual entry, which does not correspond to the actual set up configuration.
- Working with bypassed / deactivated safety equipment, for example bypassed load torque limiter or with bypassed hoist limit switch.
- Increasing the boom radius of the lifted load after a LMB shut off, for example by diagonally pulling the load.
- Using the support pressure display as information in order to utilize the crane up to the tipping limit!
- Use of equipment parts which are not approved for the crane.
- Operation of the crane in an area exposed to explosion hazards.
- Using the crane at sports and recreational events, especially for "Bungee" jumps and / or "Dinner in the sky".
- On-road driving in non-permissible travel condition (axle load, dimension).
- Driving with the equipment in place in a non-permissible travel condition.
- Pushing, pulling or lifting loads with the level control, 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).
- Utilizing the crane when the weight of the load, which is suspended on the crane is changed, for example by filling a container suspended on the load hook, except:

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- The load torque limiter was checked before for function with a known load.
- The crane cab is occupied.
- The crane is operational.
- The container size is selected in such a way that an overload of the crane with full load is eliminated within the valid used load chart.

The crane may **not** be used for:
- Attaching a stuck load for which the weight and center of gravity are not known and which is released only by flame cutting, for example.
- Letting persons drive along outside the driver's cab.
- Transporting personnel in the crane cab while driving.
- Transporting personnel with the load handling equipment and on the load.
- Transporting of persons with work baskets (cherry pickers), if the national regulations of the responsible work safety organization are not observed.
- Transporting loads and objects on the crane chassis.
- Transporting loads and objects on the crane superstructure.
- Transporting loads and objects on the boom lattice sections and / or the crane boom.
- Two hook operation without auxiliary equipment.
- Extended material handling operation.
- Crane operation on a barge if the conditions are not determined and the written release by **Liebherr Werk Ehingen GmbH** is not present.

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

Ambient temperature

The crane is designed for an ambient temperature of -20 °C to +50 °C.

If the ambient temperature is lower than -20 °C the crane must be modified with "auxiliary equipment for working at low temperatures".

WARNING
Working at low temperatures without the corresponding auxiliary equipment!
The crane components can be damaged and fail. The load can rip off.
Death or severe bodily injuries.

If the crane is operated at an ambient temperature lower than -20 °C:
▶ Make sure that the crane is equipped with the corresponding "auxiliary equipment for working at low temperatures". Observe and adhere to the Crane operating instructions, chapter 2.08.
▶ Use the operating fluids for the corresponding ambient temperature in time. Observe and adhere to the Crane operating instructions, chapter 7.07.

Safety equipment

Special attention must be paid to the safety equipment built into the crane. The safety equipment must constantly be checked for functionality. The crane may not be operated if the safety equipment are not working or not working correctly.

Note
Your motto must always be:
▶ **Safety first!**

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

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Equipment and spare parts

WARNING
Danger to life if original equipment parts are **not** used!
If the crane is operated with equipment 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 equipment parts!
- ▶ Crane operation with equipment parts, which do **not** belong to the crane is prohibited!
- ▶ If there is any doubt about the origin of equipment parts, contact Liebherr Service!

WARNING
The crane permit and the manufacturer's warranty will become void!
If any original installed parts are modified, manipulated or replaced (e.g. removal of parts, installation of non-original Liebherr parts), both the crane permit and the manufacturer's warranty will become void.
- ▶ Leave installed original parts unchanged!
- ▶ Do not remove installed original parts!
- ▶ Use only Original Liebherr spare parts!
- ▶ If there is any doubt about the origin of spare parts, contact Liebherr Service!

For ordering equipment and spare parts, always keep the crane number handy and provide it.

Definition of directional data for mobile cranes

Driving forwards: Driving with the driver's cab on the front.

Driving in reverse: Driving with the taillights of the crane chassis on the front.

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 cab** refer to the crane superstructure. Front is always in direction of the placed down boom.

0° turning angle of the crane superstructure: The boom points in the longitudinal direction to the rear past the rear of the vehicle.

180° turning angle of the crane superstructure: The boom points in the longitudinal direction to the front past the driver's cab.

Definition of directional data for crawler cranes

Driving forward driving forward from the view of the crane operator seated in the crane cab. Turntable in 0° or 180° position.

Driving reverse driving backward from the view of the crane operator seated in the crane cab. Turntable in 0° or 180° position.

Front, **rear**, **right**, **left** always orient themselves on the **crawler track** from the position of the chain tension devices. The chain tension devices on the crawler track are always on the front.

Front, **rear**, **right**, **left** refer to the direction of view of the crane operator seated in the **crane cab**. Front is always in direction of the placed down boom.

Optional equipment and functions

The equipment marked with ***** and the functions are optionally available and are **not** part of the standard crane (optional equipment).

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Conversion chart

	Initial unit	Multiplication factor	Target unit
Length	mm	0.03937	in
	in	25.4000	mm
	mm	0.00328	ft
	ft	304.8	mm
	cm	0.39370	in
	in	2.5400	cm
	cm	0.0328	ft
	ft	30.48	cm
	m	39.37	in
	in	0.0254	m
	m	**3.281**	**ft**
	ft	**0.3048**	**m**
	km	0.62137	mile
	mile	1.6093	km
Surface	cm^2	0.155	in^2
	in^2	6.4516	cm^2
	m^2	**10.764**	**ft^2**
	ft^2	**0.0929**	**m^2**
Volume	cm^3	0.06102	in^3
	in^3	16.387	cm^3
	m^3	35.3147	ft^3
	ft^3	0.0283	m^3
	l	0.001	m^3
	m^3	1000	l
	l	61.024	in^3
	in^3	0.016387	l
	l	0.0353	ft^3
	ft^3	28.32	l
	l	0.264178	US. liq. gal
	US. liq. gal	3.7853265	l

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	Initial unit	Multiplication factor	Target unit
Mass (weight)	kg	2.20462	lb
	lb	0.45359	kg
	t	**2204.62**	**lb**
	lb	**0.0004536**	**t**
	t	1.1023	short ton US (tn. sh.)
	short ton US (tn. sh.)	0.90718	t
	t	**0.45359**	**kip**
	kip	**2.20462**	**t**
Mass / length	kg/m	0.055998	lb/in
	lb/in	17.857781	kg/m
	kg/m	0.67197	lb/ft
	lb/ft	1.48816	kg/m
Force	N	0.2248	lbf
	lbf	4.4483986	N
	kN	**224.809**	**lbf**
	lbf	**0.0044483986**	**kN**
Turning moment	Nm	8.85075	lbf·in
	lbf·in	0.112984	Nm
	Nm	0.73756	lbf·ft
	lbf·ft	1.3559	Nm
Performance	HP (DIN HP)	0.7355	kW
	kW	1.3596	HP (DIN HP)
Speed	m/s	39.37	in/s
	in/s	0.0254	m/s
	m/s	**3.28084**	**ft/s**
	ft/s	**0.3048**	**m/s**
	km/h	0.62137	mph (mi/h)
	mph (mi/h)	1.60935	km/h
	m/s	2.2369	mph (mi/h)
	mph (mi/h)	0.44704	m/s

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	Initial unit	Multiplication factor	Target unit
Pressure	kPa (kN/m²)	0.01	bar
	bar	100	kPa (kN/m²)
	bar	14.5038	psi
	psi	0.06895	bar
	kPa (kN/m²)	**0.145038**	**psi**
	psi	**6.894759**	**kPa (kN/m²)**
	N/cm²	1.450377	psi
	psi	0.6894759	N/cm²
	N/m²	0.000145038	psi
	psi	6894.759	N/m²
	t/m²	204.81	lbs/ft²
	lbs/ft²	0.0048828	t/m²
Load-related surface	m²/t	0.004882	ft²/lbs
	ft²/lb	204.81	m²/t
Temperature	**°C**	**([°C] · 1.8) + 32**	**°F**
	°F	**([°F] - 32) / 1.8**	**°C**

Conversion chart

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15.01 Travel operation with the equipment in place

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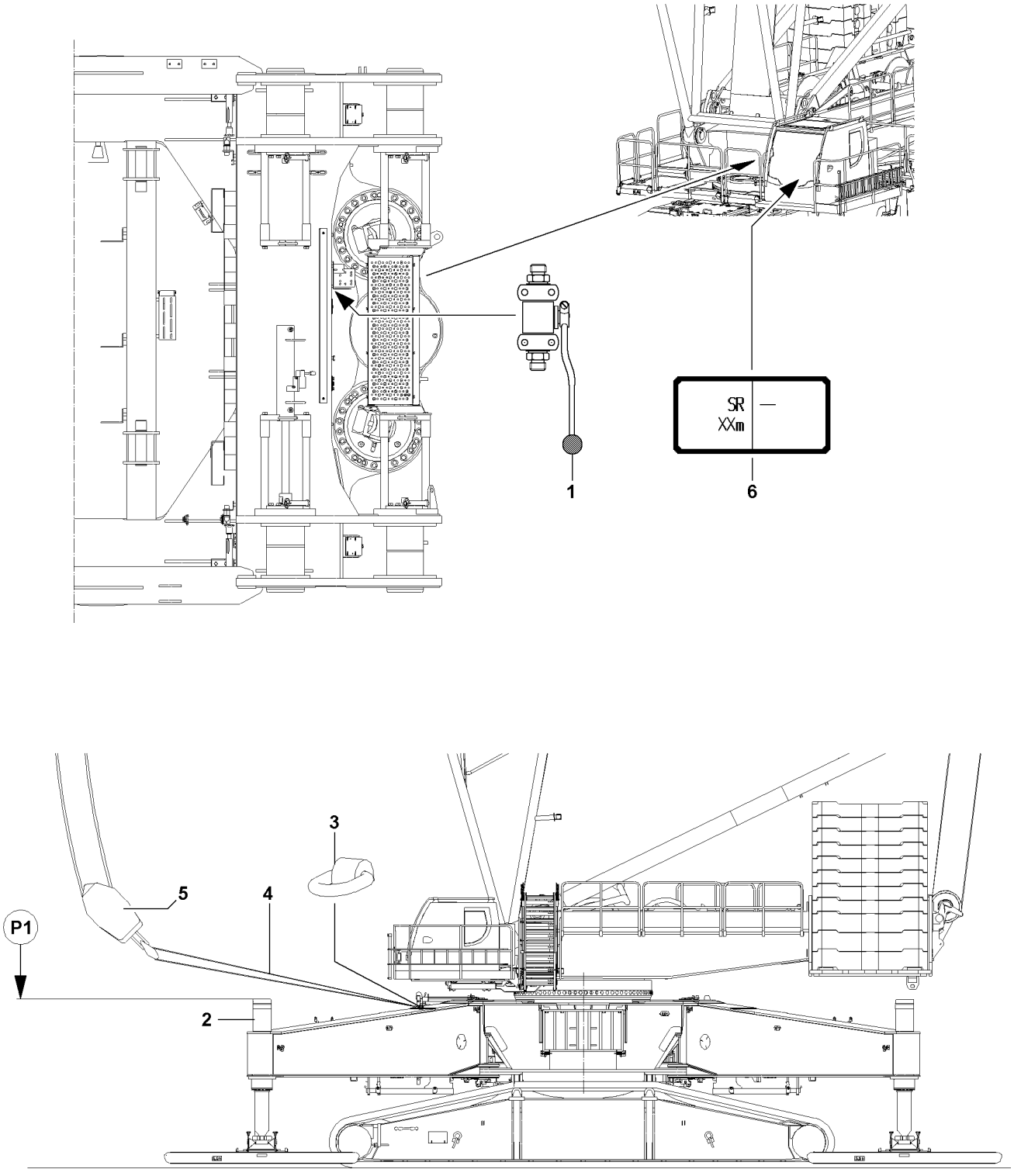

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Fig.109779

1 Measures to be taken before driving with the equipment in place

DANGER
The crane can topple over!
- ▶ When driving with the equipment in place, always comply with the conditions and notes specified in the driving charts, chapter 15.05!
- ▶ The driving chart must always be taken into consideration in reference to the operating mode and the boom lengths in connection with the rod plans!
- ▶ The rod plans must be observed and adhered to!

1.1 Preparatory work

The turntable must be secured before driving the crawler crane to prevent it from turning. To do so, close the ball valve **1**.

Make sure that the following prerequisites are met:
- The boom is set up returned to the length specified in the respective driving chart.
- The crane is properly supported and horizontally aligned.

Note
- ▶ Observe the additional instructions in the Crane operating instructions, chapter 4.10!

DANGER
The crane can topple over!
Before turning the turntable, the crane must be properly supported and horizontally aligned!
- ▶ Support the crane properly and horizontally!

- ▶ Turn the turntable to the position to the front or back as specified in the charts.

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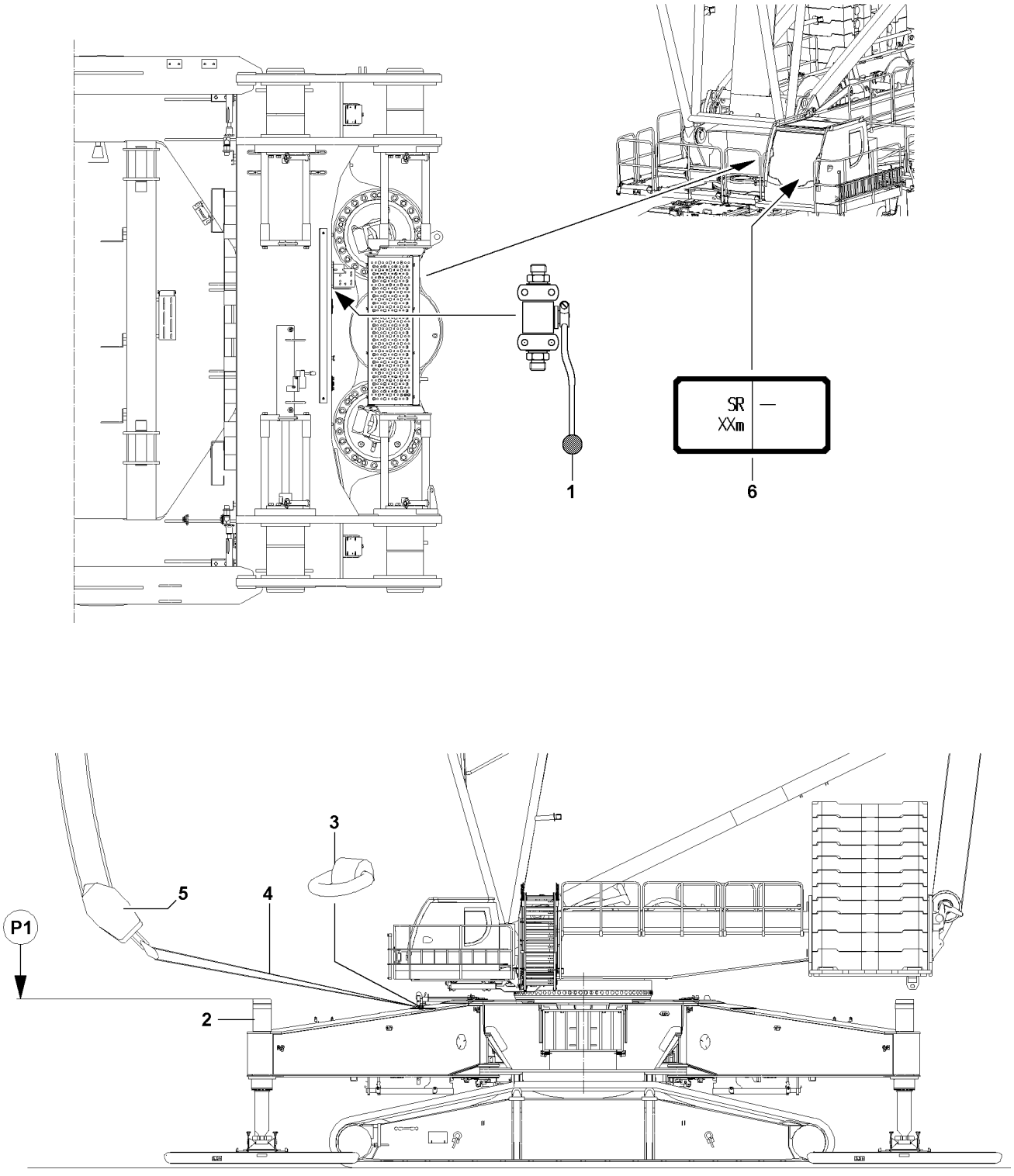

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Fig.109779

DANGER
The crane can topple over!
If the turntable turns by itself during crawler operation, then the crane can topple over!
Personnel can be severely injured or killed!
▶ Make sure that the turntable is turned in the travel direction and is secured to prevent it from turning!

▶ Turn the turntable in the travel direction to the front or to the rear.

Note
▶ The permissible deviation of the turntable to the longitudinal axis is ±5°!

When the turntable is in the travel position:
▶ Close the ball valve **1**.

Result:

– The multiple disk brake of the slewing gears is applied.
– The turntable is secured in the travel position to prevent it from turning.

▶ Luff the re-equipped boom to the angle specified in the respective chart.

Note
▶ If driving the crane with the hook block **5** is permitted according to the separate driving charts, then the hook block **5** must be secured on the load hooks **3** of the support beams to prevent it from swinging back and forth!

▶ Lower the hook block **5** approximately to the height of the “upper edge” of the support cylinders, point **P1**.

WARNING
Danger due to the hook block!
When the hoist rope is tensioned with the hook block secured, the load hooks can rip off and the hook block can suddenly start to swing back and forth!
Personnel can be severely injured or killed!
▶ Do not tension the hoist rope with the hook block secured, since the load hooks **3** may only be loaded with maximum 10 t !

▶ Secure the hook block with approx. 7 m long fastening ropes **4** on the left and right hand side on the load hooks **3** to prevent it from swinging back and forth.

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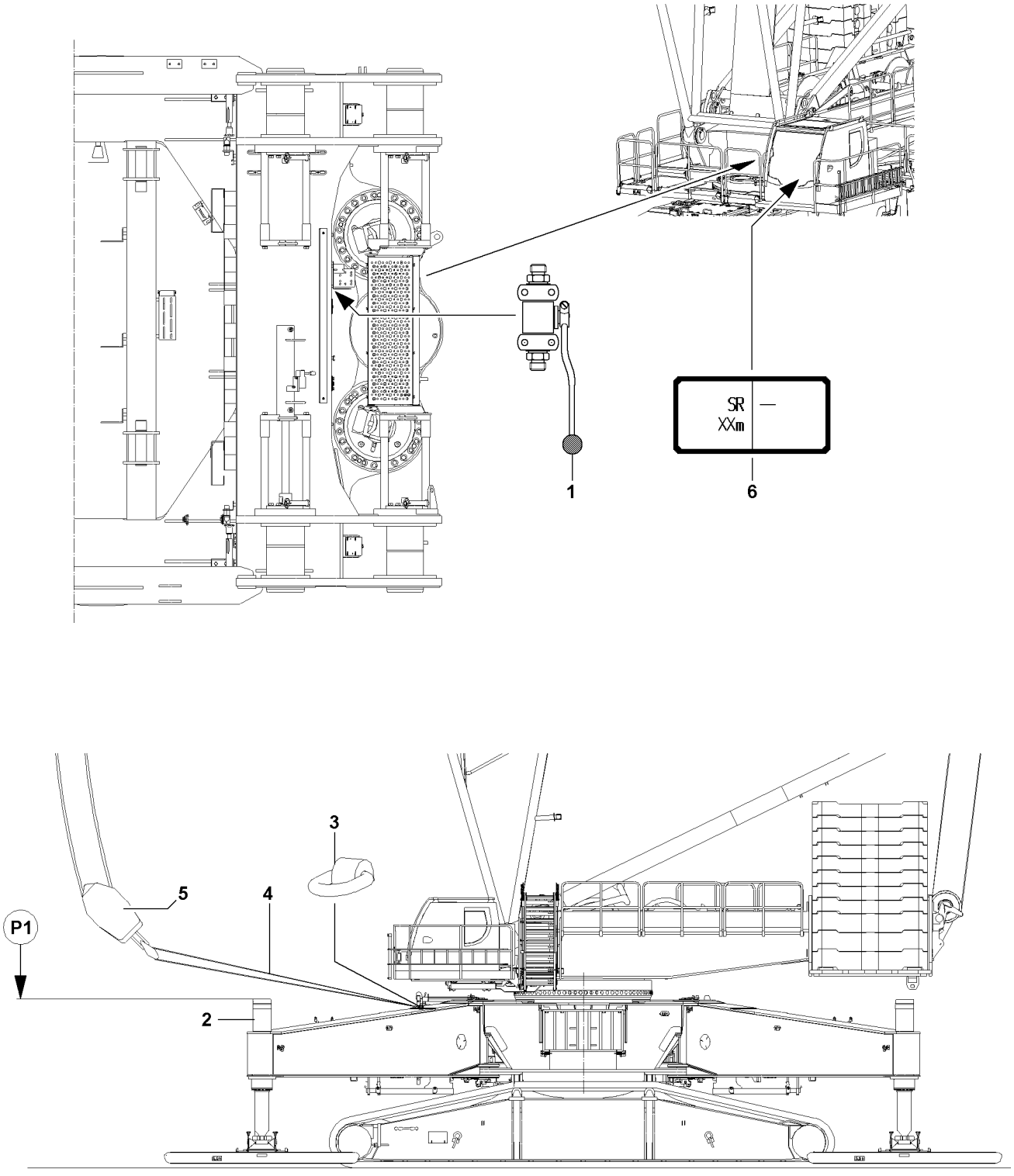

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Fig.109779

1.2 Lowering the crane on the crawler travel gear

DANGER
The crane can topple over!
▶ When lowering the crane on the crawler travel gear, the horizontal alignment of the crane must be monitored constantly!

▶ Retract the support cylinder carefully and at the lowest speed possible!

Result:

– The crane is lowered on the crawler travel gear.

WARNING
The crane can topple over!
▶ So that the crane can supported itself if the ground yields, do not retract the support cylinders completely!
▶ Secure the crane to prevent it from toppling!

▶ Retract the support cylinders with the support plates only to approximately 50 mm above the ground.

1.3 Setting the operating mode for driving with the equipment in place

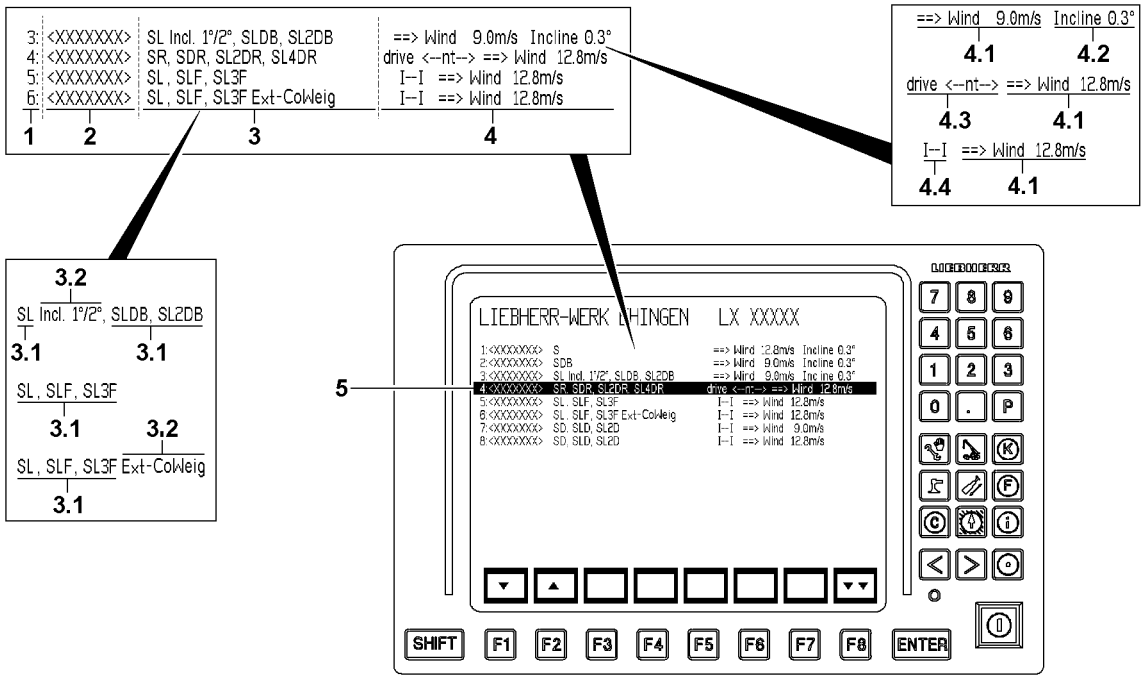

Fig.148696: Example: Operating mode selection on the LICCON Monitor

The operating mode is set in the operating mode preselection. The operating mode preselection appears temporarily after starting the LICCON computer system. If a new selection is not made within three seconds, the original operating mode is maintained.

Operating mode preselection	
Position	**Designation**
1	Consecutive numbering of the available operating modes
2	Liebherr administration number
3	List of available operating modes

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Operating mode preselection	
Position	**Designation**
3.1	Operating mode abbreviation
3.2	Additional information about the operating mode
4	Additional information used to differentiate the operating modes[1)]
4.1	*Wind speed* additional information
4.2	*Incline range* additional information
4.3	*Driving on the narrow track crawler travel gear* additional information
4.4	Additional information *on the crane support*

1) Only available when the additional information is necessary for the differentiation of the operating modes.

The selected operating mode is highlighted with a black field **5**.

– Operating mode *on crawler with returned boom set up*
  - Operating modes on the narrow track crawler travel gear are described with the additional information *Driving on the narrow track crawler travel gear* **4.3**.
  - The designation of the operating modes *on crawler with a returned boom set up normally ends with the letter R, for example SR, SDR, SL2DR, SL4DR.*
  - In operating modes on the narrow track crawler travel gear, it is necessary to drive with the crane lowered on the crawler travel gear and with the boom installed. A driving chart must be present for this. Driving chart, see the operating instructions “Driving with the equipment in place”.
– Operating mode *on supports*
  - Operating modes on supports (crane support) are described with the additional information *on the crane support* **4.4**.
  - In certain operating modes *on supports* it is possible to lower the crane on the crawler travel gear and to drive with boom installed. A driving chart must be present for this. Driving chart, see the operating instructions “Driving with the equipment in place”.

1.3.1 Setting the operating mode *on crawler, with returned boom set up*

Make sure that the following prerequisites are met:
– The required driving chart is available.
– The conditions for the selected driving chart are met, see operating instructions “Driving with the equipment in place”.
– The conditions in the Crane operating instructions, chapter 4.10 are fulfilled.
– The boom system is returned to the original set up accordingly.
– There is no load on the hook or the hook block is removed and the hoist rope secured.
– The turntable is secured to prevent it from turning.
– The support plates and the track pads are positioned for driving the crane.

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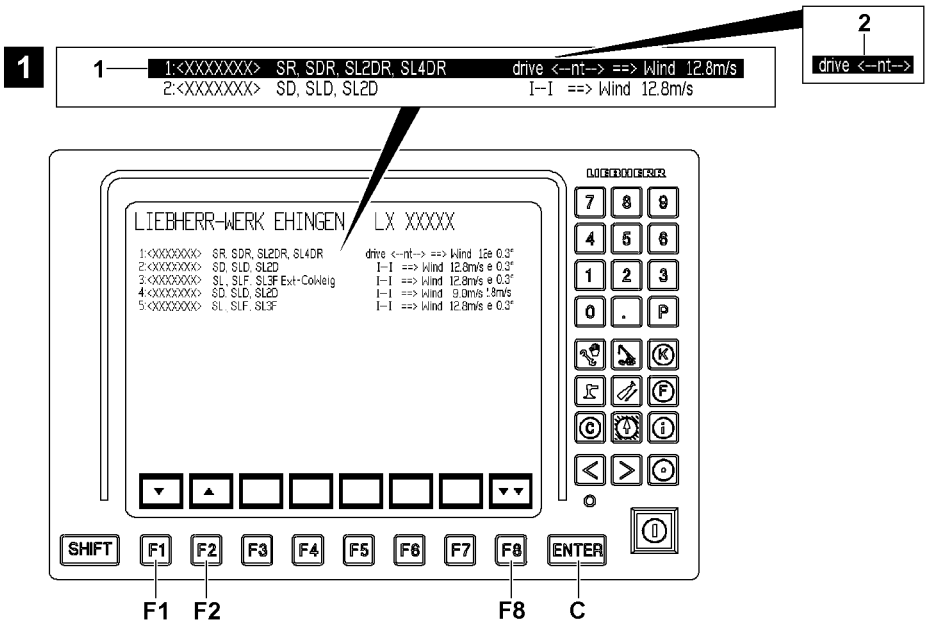

Fig.148698: Example: Operating mode selection on the LICCON Monitor

▶ Start the LICCON computer system.

If the operating mode preselection screen is shown on the LICCON monitor, see illustration **1**.

▶ Press the function key **F1** or the function key **F2** within three seconds and select the corresponding operating mode with Text **2**, see the example.

▶ Confirm the selected operating mode with the function key **F8**.

Result:

– The set up screen is shown on the LICCON monitor.

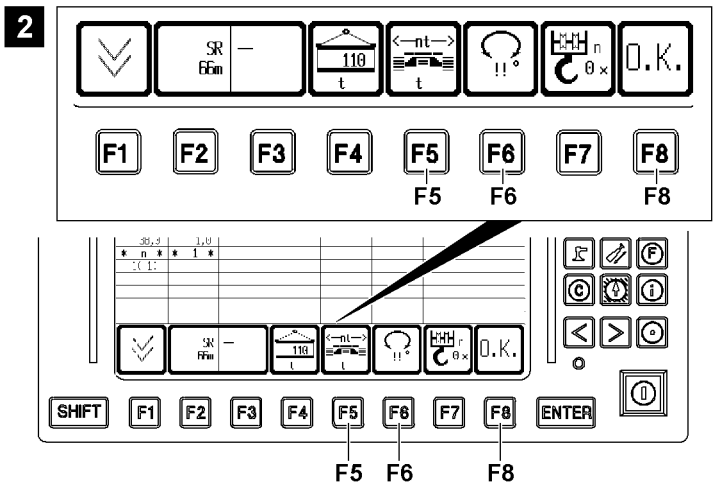

Fig.148693: Example: Checking or adjusting the settings in the set up program

Note

▶ The *on narrow track crawler* icon (above function key **F5**) is shown.

▶ The *working range* icon (over the function key **F6**) shows "!!": The turntable may not be turned.

▶ Check or adjust settings in the set up program, see the example in the illustration **2**.

When all settings in the set up program are correct:

▶ Press the function key **F8**.

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Result:

- The operating mode is confirmed.
- The operating screen is shown on the LICCON monitor.
- The crane may be driven according to the crane documentation without a load.

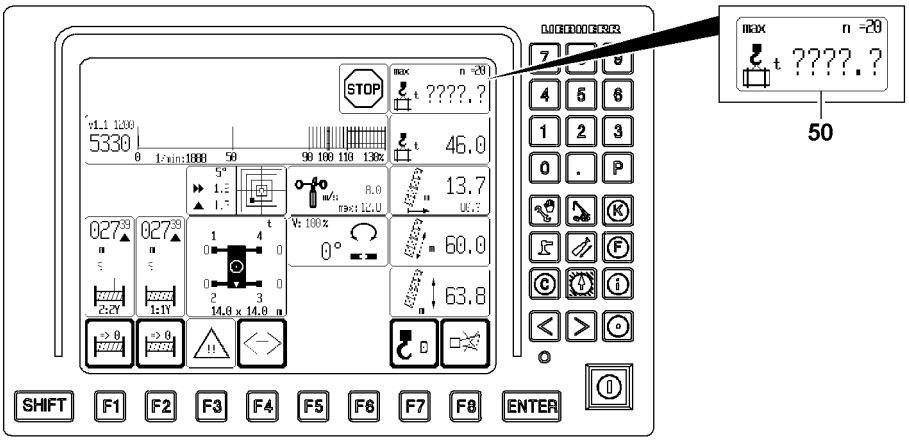

Fig.148694: Example: No maximum load available

▶ If the crane is set down on the crawler travel gear, there may not be any load on the hook. No maximum load capacity value is shown in the icon **50**.

Note

▶ Crawler operation may only be activated from one position: Either on the radio remote control **or** in the crane cab.

1.3.2 Setting the operating mode *on supports*

Note

▶ In certain operating modes *on supports* it is possible to lower the crane on the crawler travel gear and to drive with boom installed.

Make sure that the following prerequisites are met:

- An operating mode *on supports* is selected, in which the crane with installed boom may be driven.
- The required driving chart is available.
- The conditions for the selected driving chart are met, see operating instructions “Driving with the equipment in place”.
- The conditions in the Crane operating instructions, chapter 4.10 are fulfilled.
- The turntable is secured to prevent it from turning.
- There is no load on the hook.
- The support plates and the track pads are positioned for driving the crane.
- The operating screen is shown on the LICCON monitor, see illustration.
- On the BTT, the menu *Crawler operation* is selected, see illustration.

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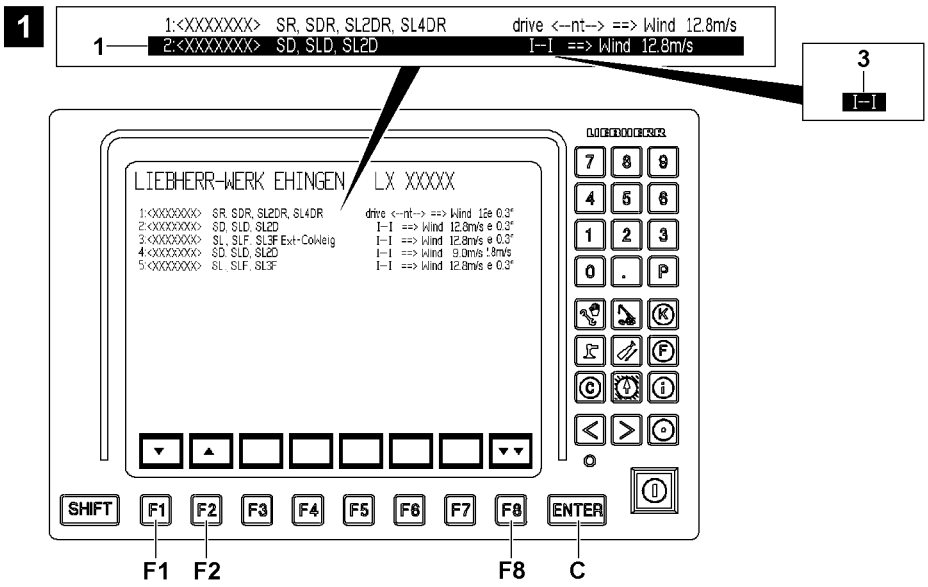

Fig.148699: Example: Setting the operating mode on supports

▶ Start the LICCON computer system.

If the operating mode preselection screen is shown on the LICCON monitor, see illustration **1**.

▶ Press the function key **F1** or the function key **F2** within three seconds and select the corresponding operating mode with character string **3** (on supports), see the example.

▶ Confirm the selected operating mode with the function key **F8**.

Result:

– The set up screen is shown on the LICCON monitor.

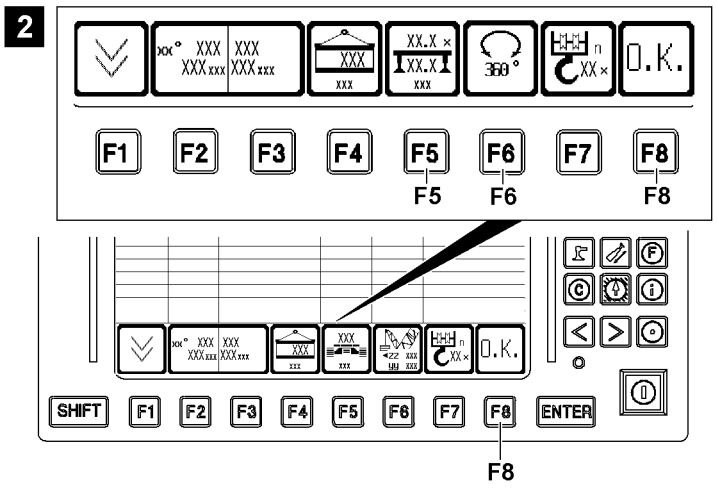

Fig.148700: Example: Setting the operating mode on supports

Note

▶ The icon *on supports* (above function key **F5**) is shown.

WARNING

Independently of the display of the turning range above the function key **F6**, it is prohibited to turn the turntable to the side!

▶ The permissible deviation of the turntable to the longitudinal axis is ±5°!

▶ Check or adjust settings in the set up program, see the example in the illustration **2**.

When all settings in the set up program are correct:

▶ Press the function key **F8**.

Result:

– The operating mode is confirmed.
– The operating screen is shown on the LICCON monitor.
– The crane may be driven according to the crane documentation without a load.

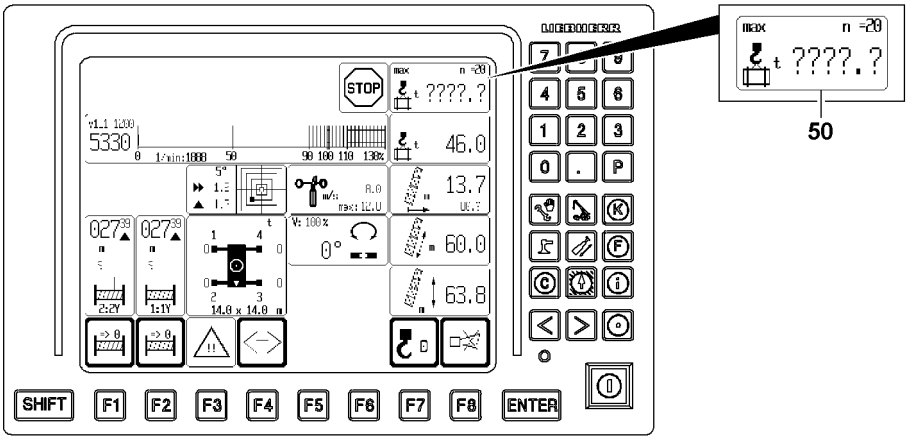

Fig.148694: Example: No maximum load available

▶ As soon as crawler operation is activated:

Result:

– Crawler operation is activated.
– No maximum load capacity value is shown in the icon **50**.
– The flashlight on the crane operator's cab blinks.
– The crane may be driven according to the crane documentation.

Note

▶ Crawler operation may only be activated from one position: Either on the radio remote control **or** in the crane cab.

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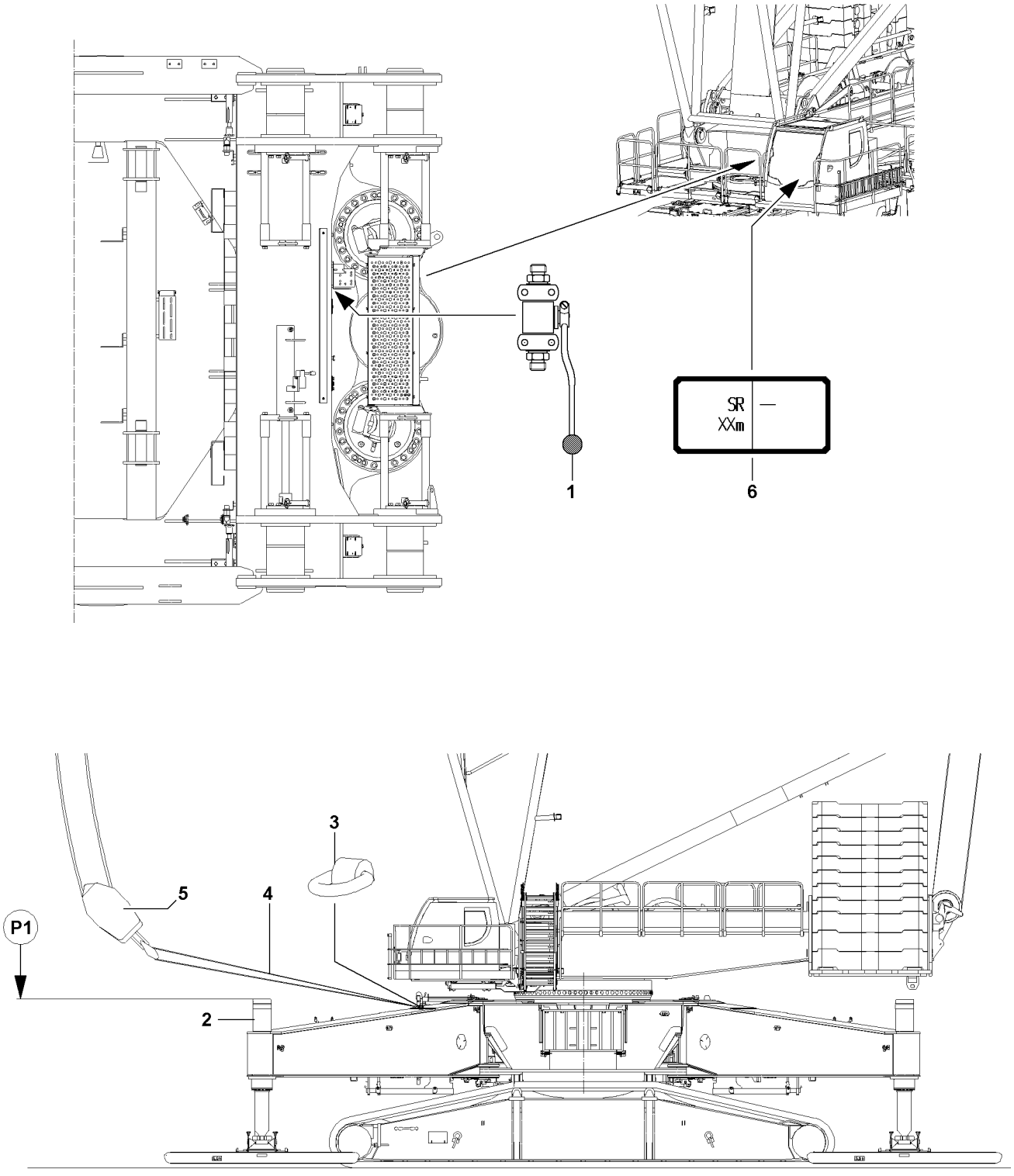

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Fig.109779

2 Driving with the equipment in place

Note

- ▶ Driving the crawler crane is possible under optimum prerequisites from the crane operator's cab as well as with the radio remote control! However, it is recommended to drive the narrow track crane with the radio remote control, for example to recognize obstacles in time and to be able to better judge the "behavior" of the crane while driving!
- ▶ Driving the crawler crane with the radio remote control is described in the Crane operating instructions, chapter 6.08!

WARNING

The crane can topple over!
If the following prerequisites are not observed for driving the crawler crane, the crane can topple over!
Personnel can be severely injured or killed!

- ▶ Ensure that all the following prerequisites are met!
- ▶ If the following prerequisites are not met, then driving the crawler crane from the crane operator's cab is prohibited!

Note

- ▶ Observe the additional instructions in the Crane operating instructions, chapter 4.10!

Make sure that the following prerequisites are met:

- The crane is lowered on the crawler travel gear.
- The turntable is positioned in longitudinal direction of the vehicle to the rear or to the front.
- The turntable is secured to prevent it from turning by actuating the ball valve **1**.
- A crawler operating mode, for example: SR **6**, is set on the LICCON monitor.
- The counterweight is assembled as specified in the driving charts in chapter 15.05.
- The boom is returned to original configuration to the length specified in the respective driving chart, see chapter 15.05.
- The support beams are swung out to the respective support base according to the driving chart, see the Crane operating instructions, chapter 3.10.
- The base plates are in the travel operation position, see the Crane operating instructions, chapter 3.10.
- The base plates are approx. 50 mm above the ground.
- The ground is level and horizontal and is solid enough to absorb the expected ground pressures.
- It is prohibited for anyone to remain in the side area of the crane.
- No persons or obstacles are present in the driving range of the crane.
- The crane is driven according to the driving charts in chapter 15.05.

Note

- ▶ The maximum permissible driving speeds in the Crane operating instructions, chapter 4.10 may not be exceeded!
- ▶ Observe the additional instructions in the Crane operating instructions, chapter 4.10!

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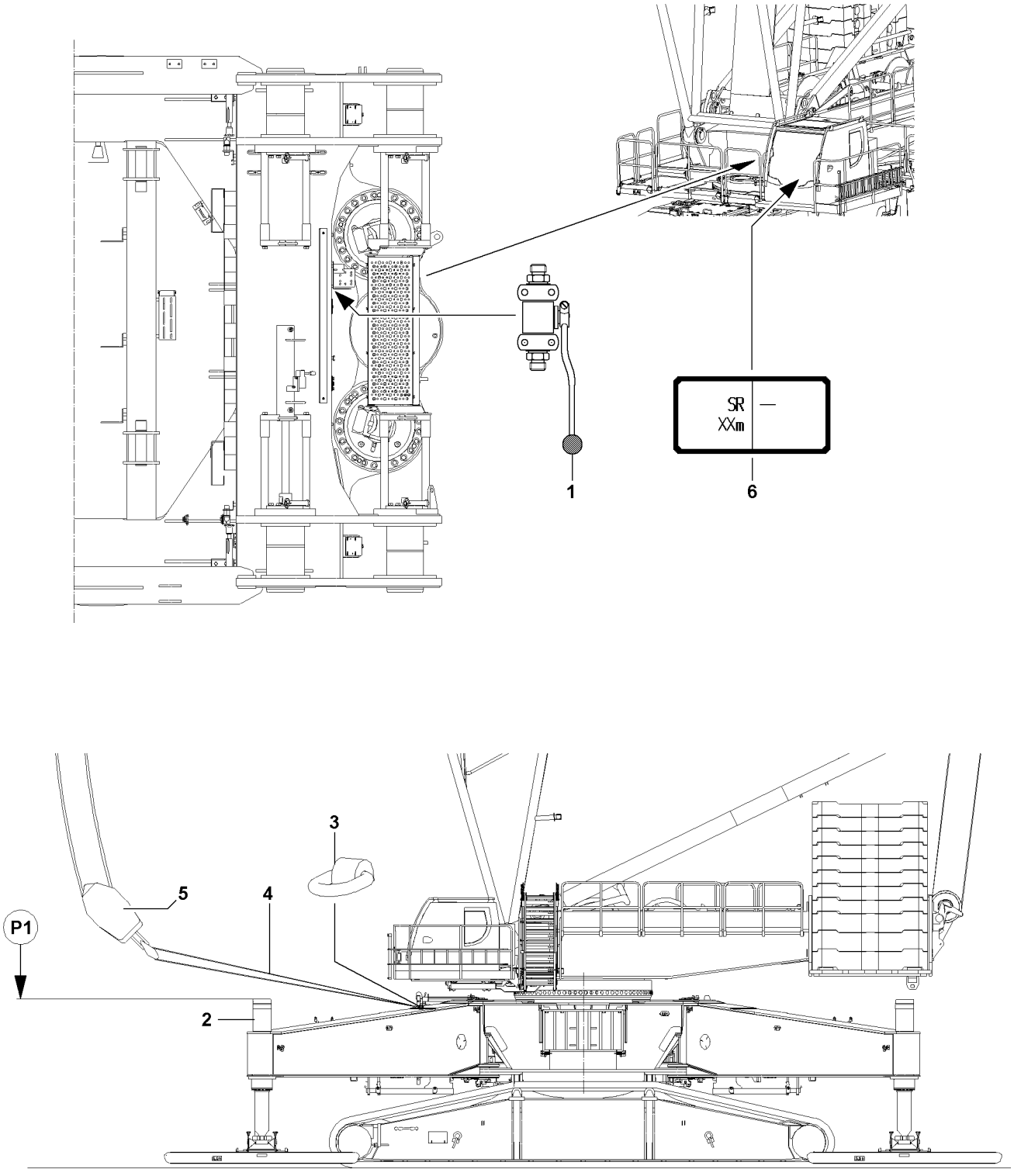

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Fig.109779

2.1 Procedure

WARNING
The crane can topple over!
If the following conditions are not met, the crane can topple over!
Personnel can be severely injured or killed!
- ▶ The road must be level and of sufficient load carrying capacity. Check its slope and unevenness before driving the crane!
- ▶ The permissible inclines in chapter 15.05 must be observed and adhered to!
- ▶ Comply with the counterweights listed in the charts in chapter 15.05!

While driving, the boom as well as the support beams must be monitored for danger of collision.

WARNING
The crane can topple over!
- ▶ Drive the crane only with utmost caution, the least possible acceleration as well as careful braking!

Note
- ▶ If a crawler operating mode is set and confirmed on the LICCON monitor, the icons and values are shown as follows!

If a crawler operating mode is set and confirmed on the LICCON monitor!
- – The maximum load carrying capacity is shown blinking with three question marks “**???**” on the LICCON monitor.
- – The utilization bar on the LICCON monitor shows zero percent.
- – The LMB stop icon is shown on the LICCON monitor.

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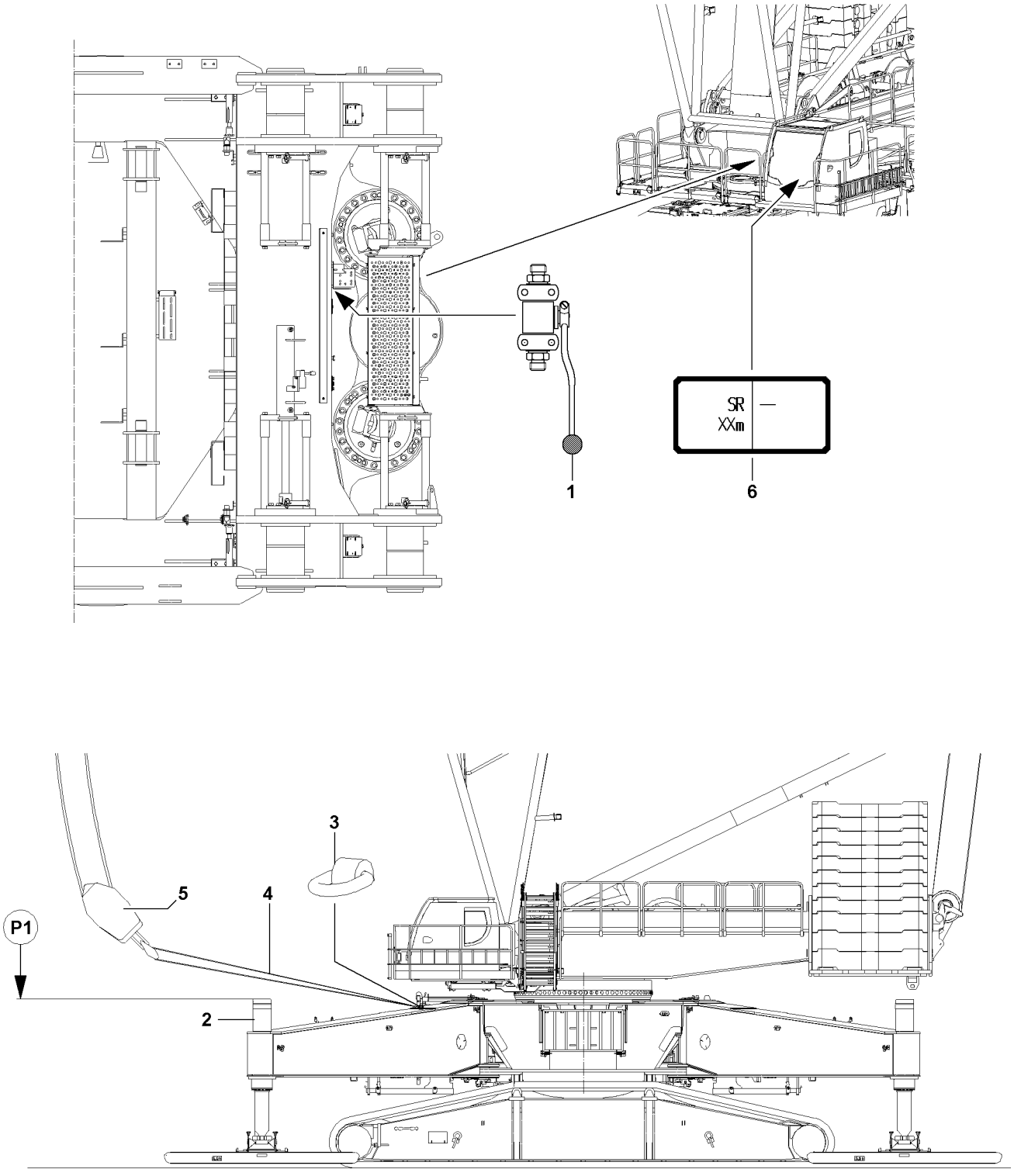

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Fig.109779

2.1.1 Driving from the crane operator's cab

Note

▶ Driving the crane from the crane operator's cab is described in detail in the Crane operating instructions, chapter 4.10!

2.1.2 Driving with the radio remote control

Note

▶ Driving the crane with the radio remote control is described in detail in the Crane operating instructions, chapter 6.08!

WARNING

The crane can topple over!

If the crane operator does not constantly monitor the driving route and the crane, then there is the danger that the crane operator will not recognize obstacles, for example and that dangerous situations can occur as a result, even the toppling of the crane!

Personnel can be severely injured or killed!

▶ The crane operator must always be positioned in the travel direction in front of the crane to be able to optimally see and monitor the travel route and the crane!

▶ Always maintain a sufficiently large safety distance from the crane!

3 Charts for driving with the equipment in place

Note

▶ In case of returned set up boom systems, the associated rod plans and the crawler operating modes are indicated with an R (R = returned) is added to the description!

WARNING

The crane can topple over!

If the crane in connection with the derrick system is **not** returned to the original configuration before "driving with the equipment in place", then the crane can topple over when it is driven!

Personnel can be severely injured or killed!

▶ Always return cranes with derrick system to their original configuration before "driving with the equipment in place"!

Note

▶ When driving the crane in with the equipment in place, observe the driving charts, see chapter 15.05!

▶ Return the crane to the boom lengths specified in the driving charts!

▶ Observe the rod plans for the boom systems which were returned to the original configuration!

▶ Make sure that the respective operating mode for driving the crane is set and confirmed on the LICCON monitor!

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15.05 Charts for driving with the equipment in place

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Fig.195219

1 General

WARNING
The crane can topple over!
If the crane is driven with the equipped ballast combination **var3 (90 t / 47.5 t / 45 t)** or with the equipped ballast combination **var4 (90 t / 27.5 t / 45 t)**, the crane will topple.
Death, severe bodily injuries, property damage.

- ▶ Driving the crane with the equipped ballast combinations **var3 (90 t / 47.5 t / 45 t)** is prohibited.
- ▶ Driving the crane with the equipped ballast combinations **var4 (90 t / 27.5 t / 45 t)** is prohibited.
- ▶ Make sure that the crane is only driven with the permissible ballast combinations according to the following charts.
- ▶ Driving the crane with ballast combinations, for which no “charts for driving with the equipment in place” exist, is **prohibited**.

1.1 Display for the incline and main boom angle

- Crane cab displays: The displays for the incline and main boom angle refer to the direction of view *to the front from the cab*, see the following examples. For a detailed description of the crane cab displays, see the Crane operating instructions, chapter 4.02.
- Radio remote control displays: The displays for the incline and main boom angle refer to the crane travel gear, see the following examples. For a detailed description of the radio remote control displays, see the Radio remote control operating instructions, chapter 6.08.
- At turning angle display 0°, the crane superstructure is on the longitudinal axis to the front. At turning angle display 180°, the crane superstructure is on the longitudinal axis to the rear.

1.1.1 Crane is horizontally aligned

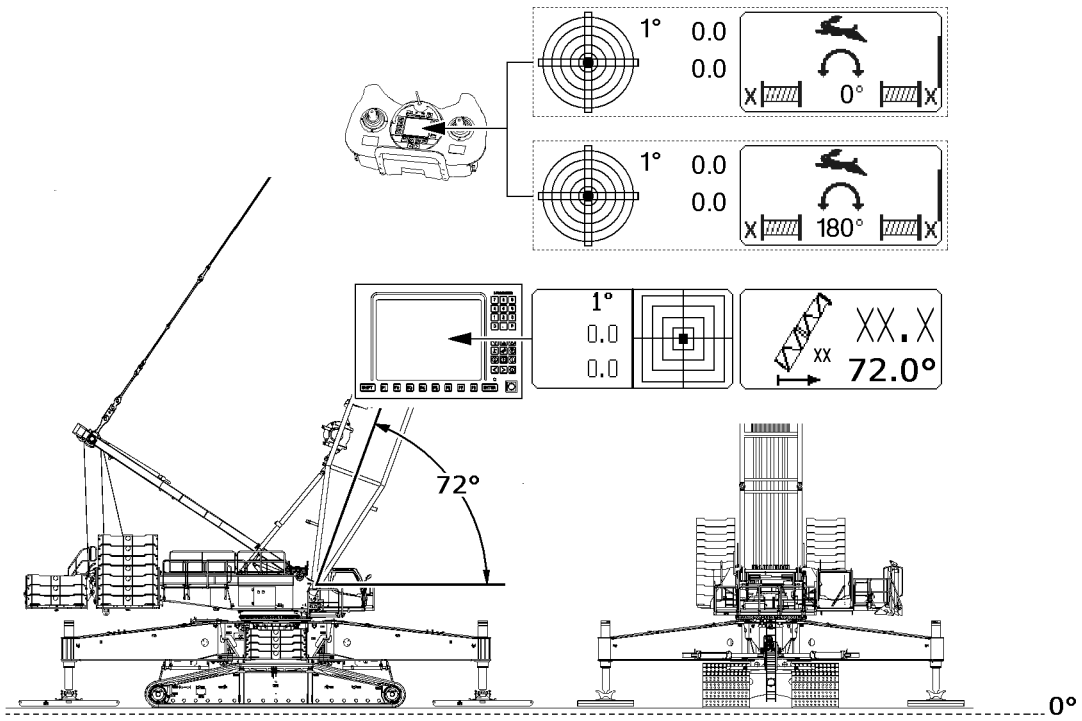

Fig.148701: Crane is horizontally aligned

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1.1.2 Crane at 4° uphill incline (positive longitudinal incline), no lateral incline

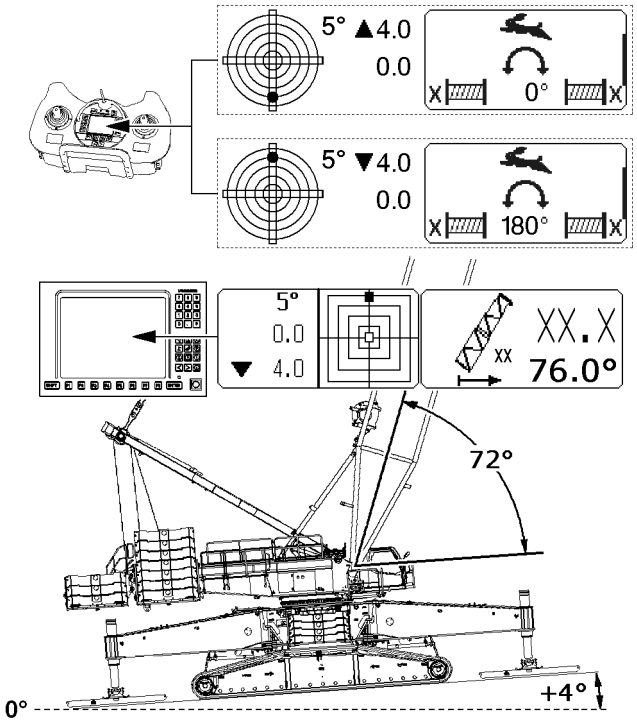

Fig.148702: Crane at 4° uphill incline (positive longitudinal incline), no lateral incline

Note
- ▶ The boom angle is always shown to the horizontal.
- ▶ Example display of boom angle = 76° (72° + 4°).

1.1.3 Crane at 4° downhill slope (negative longitudinal incline), no lateral incline

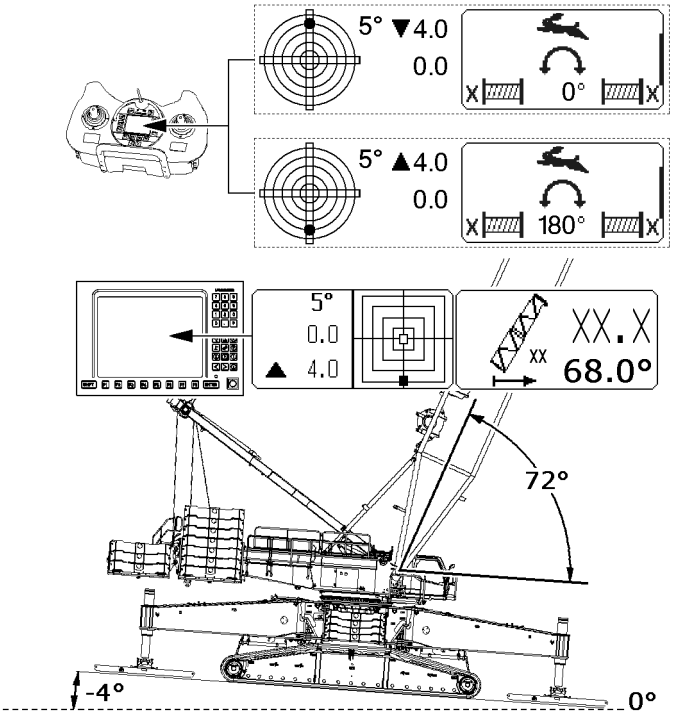

Fig.148703: Crane at 4° downhill slope (negative longitudinal incline), no lateral incline

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Note
- ▶ The boom angle is always shown to the horizontal.
- ▶ Example display of boom angle = 68° (72° minus 4°).

1.1.4 Crane at 1.5° side incline to the left, no longitudinal incline

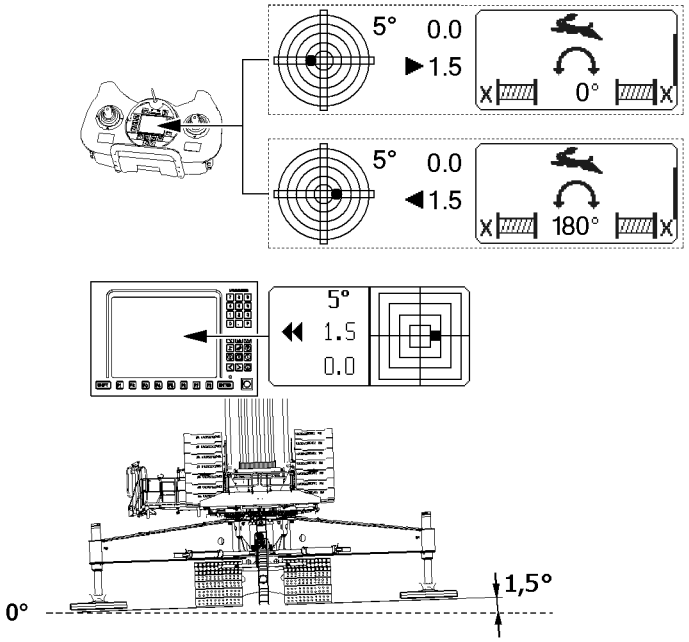

Fig.148704: Crane at 1.5° side incline to the left, no longitudinal incline

1.1.5 Crane at 1.5° side incline to the right, no longitudinal incline

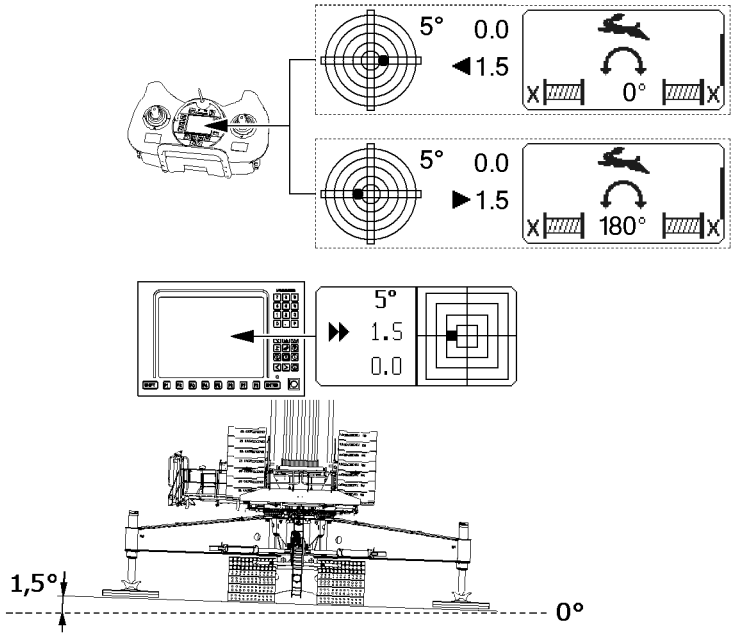

Fig.149610: Crane at 1.5° side incline to the right, no longitudinal incline

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1.2 Mounting positions of ballast plates for ballast combinations

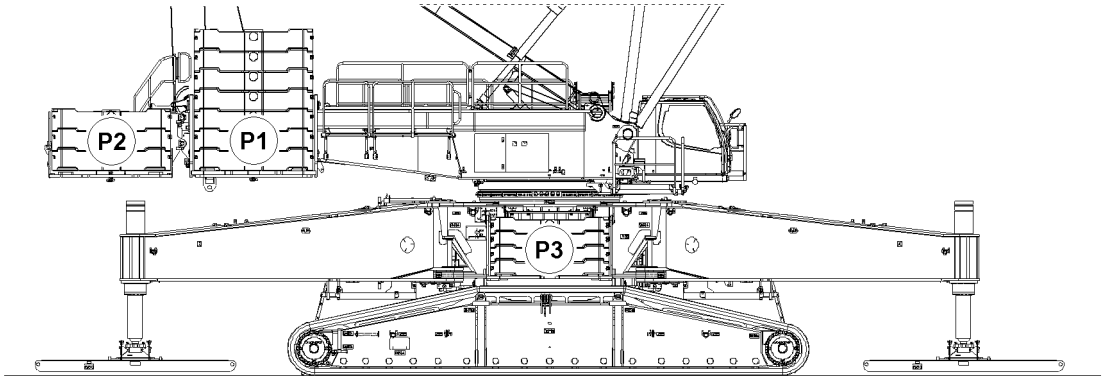

Fig.113463: Mounting positions of ballast plates for ballast combinations

P1 Mounting position for turntable ballast (counterweight)

P2 Mounting positionfor ballast on the turntable extension (counterweight on the turntable extension)

P3 Mounting position for central ballast

1.2.1 Boom position when driving the crane

Note
Taking account of the LICCON job planner (display of center of gravity and calculated ground pressure):

- ▶ When driving from level ground (longitudinal incline 0°) on to an uphill gradient: Set the boom to the value for the flattest boom angle for longitudinal incline 0°.
- ▶ When driving on level ground (longitudinal incline 0°): Set the boom to the medium value for the boom angle for longitudinal incline 0°.
- ▶ When driving from level ground (longitudinal incline 0°) on to a downward slope: Set the boom to the steepest value for the boom angle for longitudinal incline 0°.

2 Driving with the SLR-boom

The operating mode SLR in connection with the respective length data (for example: SLR- 78 m), does not represent the permissible boom length with which the crane may be driven!

WARNING
The crane can topple over!
If the boom is not **reset** to the maximum permissible boom length for driving before driving the crane, the crane can topple over!
Personnel can be severely injured or killed!

- ▶ Before driving the crane, reset the boom to the boom length **D** provided on the chart.

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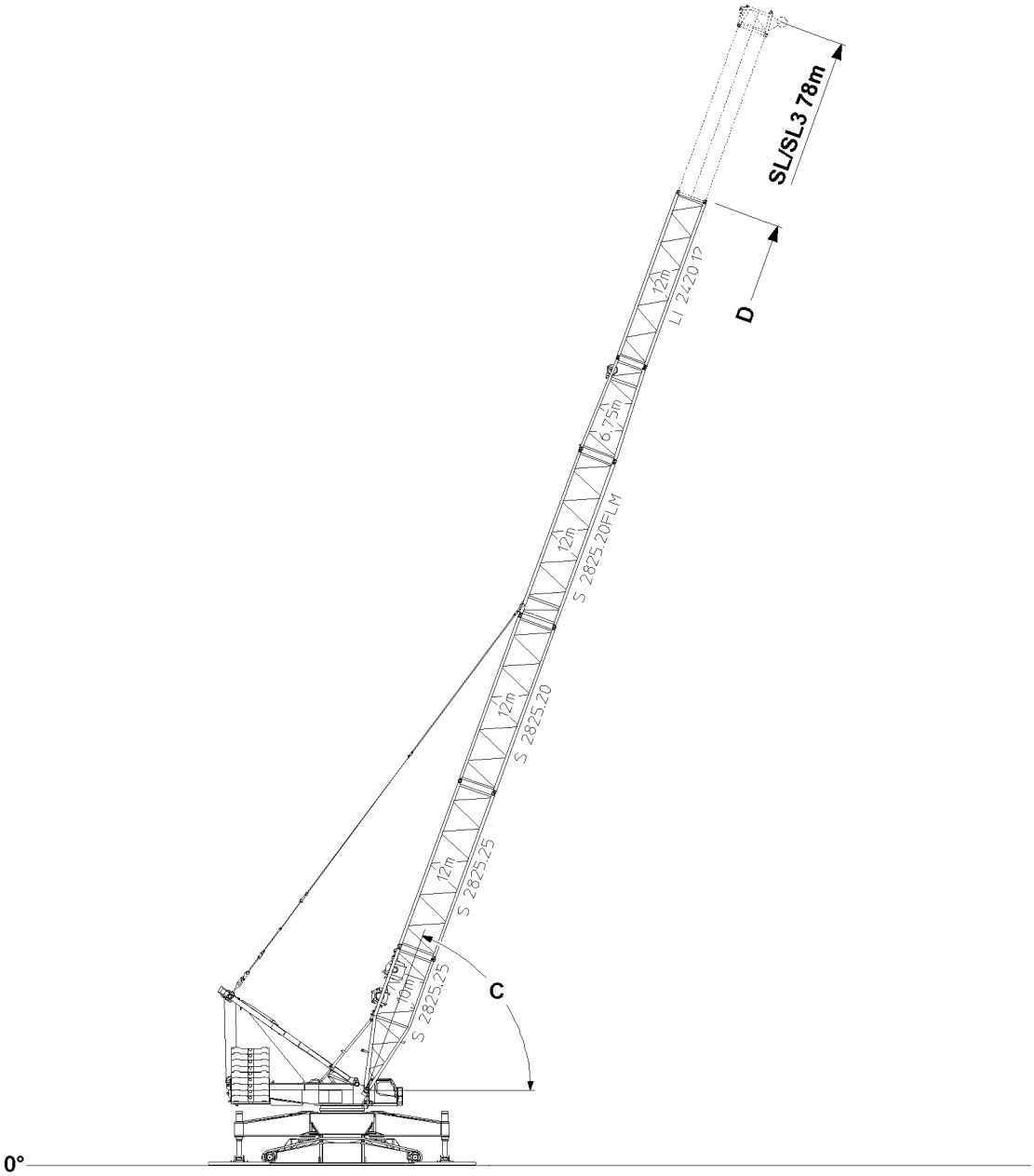

SLR-78 m

*Fig.114484: SLR- 78 m - boom length **D** 64.8 m*

2.1 90 t turntable ballast (TB)

WARNING
The crane can topple over!
- ▶ LICCON job planner must be used for job planning purposes!
- ▶ It must be ensured that the turntable is aligned parallel to the crawler carriers before lowering on the narrow track crawler and during driving. Maximum permissible deviation: ±5°!
- ▶ Before lowering on the crawler travel gear, it must be ensured that one is in an angle range within the chart!
- ▶ Hook blocks must not be reeved!

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2.1.1 TAB 181 00 121-01

The charts are valid for:
- SL-boom returned to original configuration in SL-operation
- SL-boom returned to original configuration in SLF-operation
- SL3-boom returned to original configuration in SL3F-operation
- On narrow track 8.7 m x 3.8 m x 2.0 m
- With installed supports 14.0 m x 14.0 m and support plates (3.3 t each)
- Boom with 12 m intermediate section for flying assembly
- Without hook block
- 90 t turntable ballast
- Wind speed to 12.8 m/s

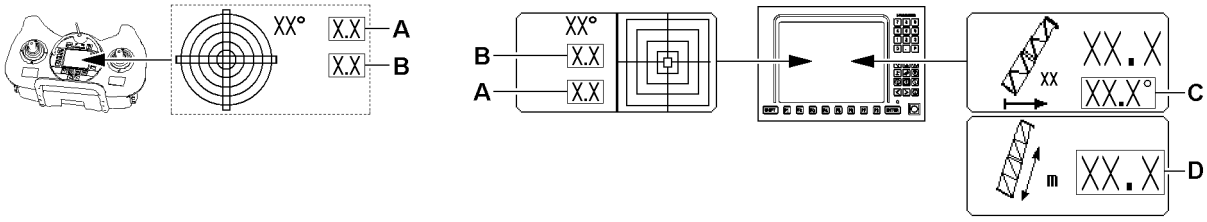

Fig.114482

A Longitudinal incline
B Lateral incline
C Boom angle
D Boom length

		Operating mode SLR- 78 m			Operating mode SLR- 81 m			Operating mode SLR- 84 m		
Crane incline		Boom length D			Boom length D			Boom length D		
A	B	64.8 m			67.8 m			70.8 m		
		Boom angle C			Boom angle C			Boom angle C		
[°]	[°]	[°]			[°]			[°]		
+9	-2.0...+2.0	52.5...	62.0		55.5...	65.5		57.0...	66.5	
0	**-2.0...+2.0**	**52.5...**	**62.0**	**...71.0**	**55.5...**	**65.5**	**...74.5**	**57.0...**	**66.5**	**...75.0**
-9	-2.0...+2.0		62.0	...71.0		65.5	...74.5		66.5	...75.0

System: S 2825.25/20/16; Li 2420.12.5

		Operating mode SLR- 87 m			Operating mode SLR- 90 m			Operating mode SLR- 93 m		
Crane incline		Boom length D			Boom length D			Boom length D		
A	B	73.8 m			64.8 m			67.8 m		
		Boom angle C			Boom angle C			Boom angle C		
[°]	[°]	[°]			[°]			[°]		
+9	-2.0...+2.0	59.5...	68.5		53.5...	64.0		56.5...	66.5	
0	**-2.0...+2.0**	**59.5...**	**68.5**	**...76.5**	**53.5...**	**64.0**	**...73.5**	**56.5...**	**66.5**	**...75.5**
-9	-2.0...+2.0		68.5	...76.5		64.0	...73.5		66.5	...75.5

System: S 2825.25/20/16; Li 2420.12.5

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		Operating mode SLR- 96 m			Operating mode SLR- 99 m			Operating mode SLR- 102 m		
Crane incline		Boom length D 70.8 m			Boom length D 73.8 m			Boom length D 70.8 m		
A	B	Boom angle C			Boom angle C			Boom angle C		
[°]	[°]	[°]			[°]			[°]		
+9	-2.0...+2.0	59.0...	68.0		61.5...	70.0		59.0...	68.0	
0	**-2.0...+2.0**	**59.0...**	**68.0**	**...77.0**	**61.5...**	**70.0**	**...78.0**	**59.0...**	**68.0**	**...77.0**
-9	-2.0...+2.0		68.0	...77.0		70.0	...78.0		68.0	...77.0

System: S 2825.25/20/16; Li 2420.12.5

		Operating mode SLR- 105 m			Operating mode SLR- 108 m		
Crane incline		Boom length D 73.8 m			Boom length D 70.8 m		
A	B	Boom angle C			Boom angle C		
[°]	[°]	[°]			[°]		
+9	-2.0...+2.0	61.5...	70.0		59.0...	68.0	
0	**-2.0...+2.0**	**61.5...**	**70.0**	**...78.0**	**59.0...**	**68.0**	**...77.0**
-9	-2.0...+2.0		70.0	...78.0		68.0	...77.0

System: S 2825.25/20/16; Li 2420.12.5

Note

- To obtain even ground pressure, it must be ensured that the crane's center of gravity is in the center. The medium value for the longitudinal incline 0° shows the central position of the center of gravity. When driving on a longitudinal incline, it is recommended to set the maximum / minimum boom angle!
- The boom incline is measured in the crane to the horizontal!
- Positive longitudinal incline means: Uphill slope in direction of the boom!
- Negative longitudinal incline means: Downhill slope in direction of the boom!
- The supports - if possible - must be held on support base 14 m x 14 m while driving, whereby the track pads must be directly above the ground!

2.2 110 t turntable ballast (TB)

2.2.1 TAB 181 00 122-01

Chart is valid for:

- SL-boom returned to original configuration in SL-operation
- SL-boom returned to original configuration in SLF-operation
- SL3-boom returned to original configuration in SL3F-operation
- On narrow track 8.7 m x 3.8 m x 2.0 m
- With installed supports 14.0 m x 14.0 m and support plates (3.3 t each)
- Boom with 12 m intermediate section for flying assembly
- Without hook block
- 110 t turntable ballast
- Wind speed to 12.8 m/s

LWE/LR 1600-2-002/218112-01-02/en

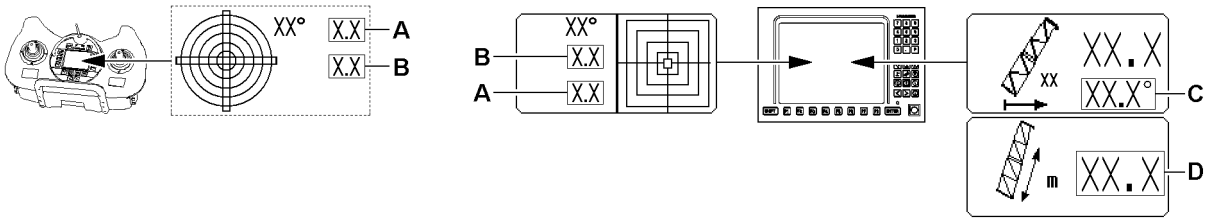

Fig.114482

A Longitudinal incline
B Lateral incline
C Boom angle
D Boom length

		Operating mode SLR- 78 m			Operating mode SLR- 81 m			Operating mode SLR- 84 m		
Crane incline		Boom length D 64.8 m			Boom length D 67.8 m			Boom length D 70.8 m		
A	B	Boom angle C			Boom angle C			Boom angle C		
[°]	[°]	[°]			[°]			[°]		
+9	-2.0...+2.0	46.5...	56.0		50.0...	59.5		52.0...	61.0	
0	**-2.0...+2.0**	**46.5...**	**56.0**	**...64.0**	**50.0...**	**59.5**	**...68.0**	**52.0...**	**61.0**	**...69.0**
-9	-2.0...+2.0		56.0	...64.0		59.5	...68.0		61.0	...69.0

System: S 2825.25/20/16; Li 2420.12.5

		Operating mode SLR- 87 m			Operating mode SLR- 90 m			Operating mode SLR- 93 m		
Crane incline		Boom length D 73.8 m			Boom length D 64.8 m			Boom length D 67.8 m		
A	B	Boom angle C			Boom angle C			Boom angle C		
[°]	[°]	[°]			[°]			[°]		
+9	-2.0...+2.0	55.0...	64.0		50.0...	59.0		52.5...	61.5	
0	**-2.0...+2.0**	**55.0...**	**64.0**	**...72.5**	**50.0...**	**59.0**	**...67.0**	**52.5...**	**61.5**	**...70.0**
-9	-2.0...+2.0		64.0	...72.5		59.0	...67.0		61.5	...70.0

System: S 2825.25/20/16; Li 2420.12.5

LWE/LR 1600-2-002/218112-01-02/en

		Operating mode SLR- 96 m			Operating mode SLR- 99 m			Operating mode SLR- 102 m		
Crane incline		Boom length D 70.8 m			Boom length D 73.8 m			Boom length D 70.8 m		
A	B	Boom angle C			Boom angle C			Boom angle C		
[°]	[°]	[°]			[°]			[°]		
+9	-2.0...+2.0	54.0...	64.0		57.0...	66.0		54.0...	64.0	
0	**-2.0...+2.0**	**54.0...**	**64.0**	**...72.5**	**57.0...**	**66.0**	**...74.0**	**54.0...**	**64.0**	**...72.5**
-9	-2.0...+2.0		64.0	...72.5		66.0	...74.0		64.0	...72.5

System: S 2825.25/20/16; Li 2420.12.5

		Operating mode SLR- 105 m			Operating mode SLR- 108 m		
Crane incline		Boom length D 73.8 m			Boom length D 70.8 m		
A	B	Boom angle C			Boom angle C		
[°]	[°]	[°]			[°]		
+9	-2.0...+2.0	57.0...	66.0		54.0...	64.0	
0	**-2.0...+2.0**	**57.0...**	**66.0**	**...74.0**	**54.0...**	**64.0**	**...72.5**
-9	-2.0...+2.0		66.0	...74.0		64.0	...72.5

System: S 2825.25/20/16; Li 2420.12.5

Note

- To obtain even ground pressure, it must be ensured that the crane's center of gravity is in the center. The medium value for the longitudinal incline 0° shows the central position of the center of gravity. When driving on a longitudinal incline, it is recommended to set the maximum / minimum boom angle!
- The boom incline is measured in the crane to the horizontal!
- Positive longitudinal incline means: Uphill slope in direction of the boom!
- Negative longitudinal incline means: Downhill slope in direction of the boom!
- The supports - if possible - must be held on support base 14 m x 14 m while driving, whereby the track pads must be directly above the ground!

3 Driving with the SR-boom

The operating mode SR in connection with the respective length data (for example: SR- 66 m), does not represent the permissible boom length with which the crane may be driven.

WARNING

The crane can topple over!
If the boom is not **reset** to the maximum permissible boom length for driving before driving the crane, the crane can topple over!
Personnel can be severely injured or killed!

- Before driving the crane, reset the boom to the boom length **D** provided on the chart.

LWE/LR 1600-2-002/218112-01-02/en

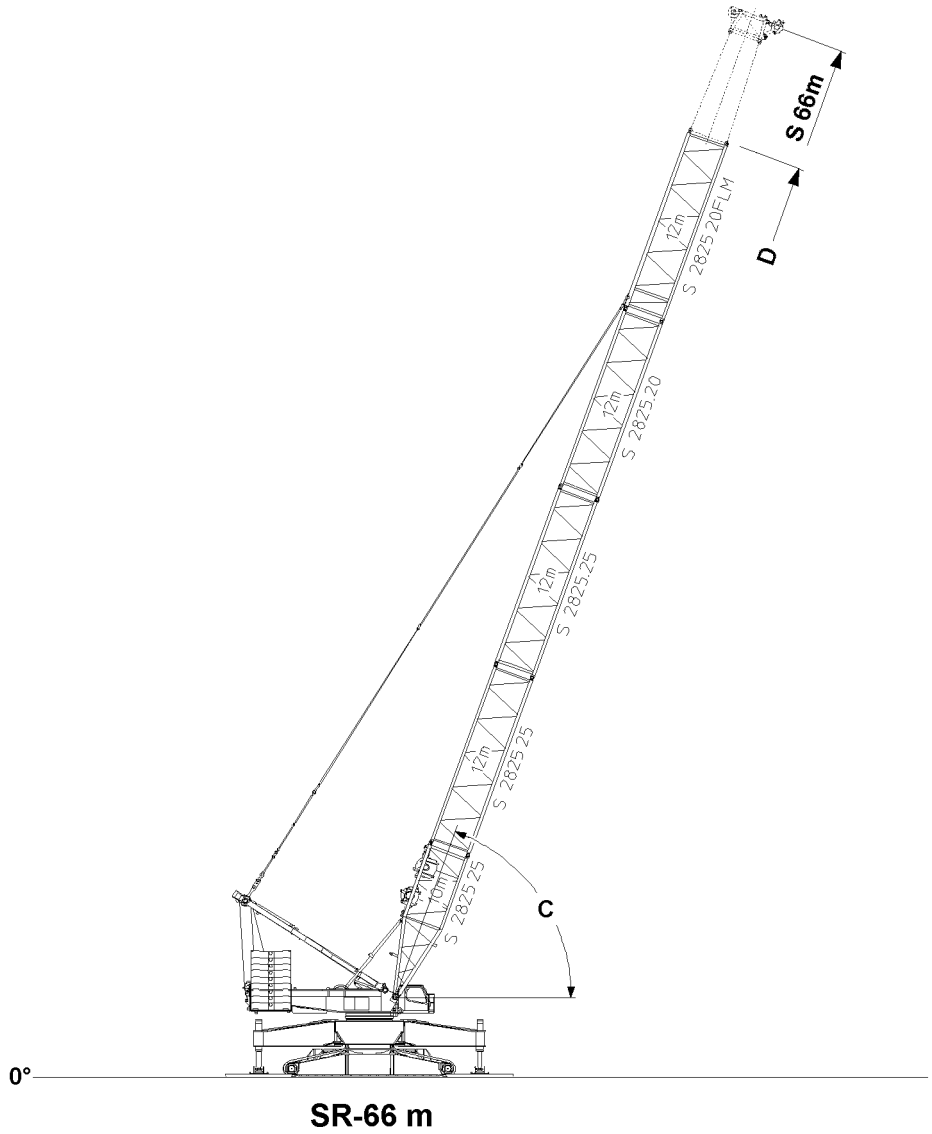

*Fig.114485: SR- 66 m - boom length **D** 58 m*

3.1 90 t turntable ballast (TB)

WARNING
The crane can topple over!
- ▶ LICCON job planner must be used for job planning purposes!
- ▶ It must be ensured that the turntable is aligned parallel to the crawler carriers before lowering on the narrow track crawler and during driving. Maximum permissible deviation: ±5°!
- ▶ Before lowering on the crawler travel gear, it must be ensured that one is in an angle range within the chart!
- ▶ Hook blocks must not be reeved!

3.1.1 TAB 181 00 123-01

The charts are valid for:
- S-boom returned to original configuration in S-operation

LWE/LR 1600-2-002/218112-01-02/en

- On narrow track 8.7 m x 3.8 m x 2.0 m
- With installed supports 14.0 m x 14.0 m and support plates (3.3 t each)
- Boom with 12 m intermediate section for flying assembly
- Without hook block
- 90 t turntable ballast
- Wind speed to 12.8 m/s

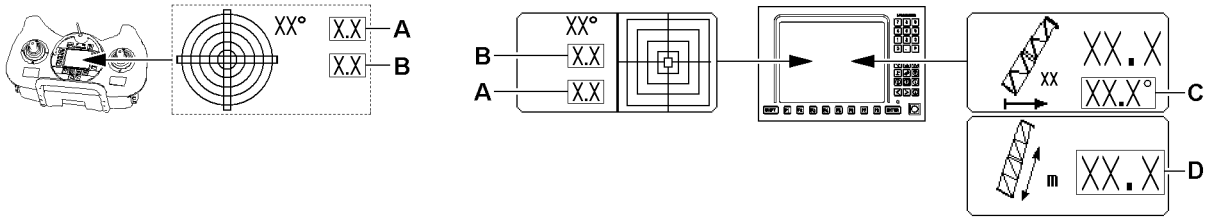

Fig.114482

A Longitudinal incline
B Lateral incline
C Boom angle
D Boom length

		Operating mode SR- 66 m			Operating mode SR- 72 m			Operating mode SR- 78 m		
Crane incline		Boom length D			Boom length D			Boom length D		
A	B	58.0 m			64.0 m			58.0 m		
		Boom angle C			Boom angle C			Boom angle C		
[°]	[°]	[°]			[°]			[°]		
+9	-2.0...+2.0	52.5...	61.0		57.5...	66.0		52.5...	61.0	
0	**-2.0...+2.0**	**52.5...**	**61.0**	**...68.5**	**57.5...**	**66.0**	**...73.5**	**52.5...**	**61.0**	**...68.5**
-9	-2.0...+2.0		61.0	...68.5		66.0	...73.5		61.0	...68.5

System: S 2825.25/20

		Operating mode SR- 84 m			Operating mode SR- 90 m			Operating mode SR- 96 m		
Crane incline		Boom length D			Boom length D			Boom length D		
A	B	64.0 m			58.0 m			64.0 m		
		Boom angle C			Boom angle C			Boom angle C		
[°]	[°]	[°]			[°]			[°]		
+9	-2.0...+2.0	57.5...	66.0		52.5...	61.0		57.5...	66.0	
0	**-2.0...+2.0**	**57.5...**	**66.0**	**...73.5**	**52.5...**	**61.0**	**...68.5**	**57.5...**	**66.0**	**...73.5**
-9	-2.0...+2.0		66.0	...73.5		61.0	...68.5		66.0	...73.5

System: S 2825.25/20

LWE/LR 1600-2-002/218112-01-02/en

Note

- To obtain even ground pressure, it must be ensured that the crane's center of gravity is in the center. The medium value for the longitudinal incline 0° shows the central position of the center of gravity. When driving on a longitudinal incline, it is recommended to set the maximum / minimum boom angle!
- The boom incline is measured in the crane to the horizontal!
- Positive longitudinal incline means: Uphill slope in direction of the boom!
- Negative longitudinal incline means: Downhill slope in direction of the boom!
- The supports - if possible - must be held on support base 14 m x 14 m while driving, whereby the track pads must be directly above the ground!

3.2 110 t turntable ballast (TB)

WARNING

The crane can topple over!

- LICCON job planner must be used for job planning purposes!
- It must be ensured that the turntable is aligned parallel to the crawler carriers before lowering on the narrow track crawler and during driving. Maximum permissible deviation: ±5°!
- Before lowering on the crawler travel gear, it must be ensured that one is in an angle range within the chart!
- Hook blocks must not be reeved!

3.2.1 TAB 181 00 124-01

The charts are valid for:

- S-boom returned to original configuration in S-operation
- On narrow track 8.7 m x 3.8 m x 2.0 m
- With installed supports 14.0 m x 14.0 m and support plates (3.3 t each)
- Boom with 12 m intermediate section for flying assembly
- Without hook block
- 110 t turntable ballast
- Wind speed to 12.8 m/s

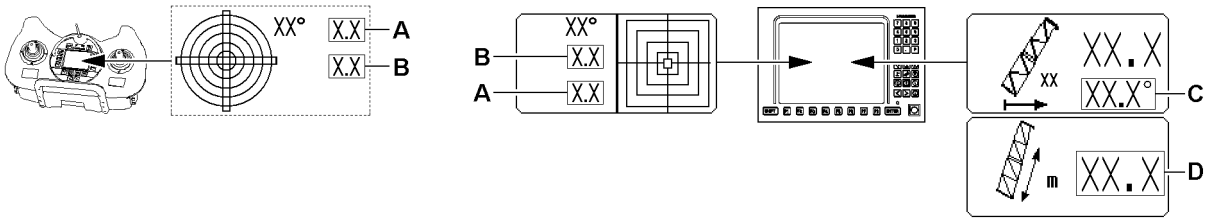

Fig.114482

A Longitudinal incline
B Lateral incline
C Boom angle
D Boom length

LWE/LR 1600-2-002/218112-01-02/en

		Operating mode SR- 66 m			Operating mode SR- 72 m			Operating mode SR- 78 m		
Crane incline		Boom length D 58.0 m			Boom length D 64.0 m			Boom length D 58.0 m		
A	B	Boom angle C			Boom angle C			Boom angle C		
[°]	[°]	[°]			[°]			[°]		
+9	-2.0...+2.0	45.5...	55.0		52.0...	60.5		45.5...	55.0	
0	**-2.0...+2.0**	**45.5...**	**55.0**	**...63.0**	**52.0...**	**60.5**	**...68.5**	**45.5...**	**55.0**	**...63.0**
-9	-2.0...+2.0		55.5	...63.0		60.5	...68.5		55.5	...63.0

System: S 2825.25/20

		Operating mode SR- 84 m			Operating mode SR- 90 m			Operating mode SR- 96 m		
Crane incline		Boom length D 64.0 m			Boom length D 58.0 m			Boom length D 64.0 m		
A	B	Boom angle C			Boom angle C			Boom angle C		
[°]	[°]	[°]			[°]			[°]		
+9	-2.0...+2.0	52.0...	60.5		45.5...	55.0		52.0...	60.5	
0	**-2.0...+2.0**	**52.0...**	**60.5**	**...68.5**	**45.5...**	**55.0**	**...63.0**	**52.0...**	**60.5**	**...68.5**
-9	-2.0...+2.0		60.5	...68.5		55.5	...63.0		60.5	...68.5

System: S 2825.25/20

Note

- To obtain even ground pressure, it must be ensured that the crane's center of gravity is in the center. The medium value for the longitudinal incline 0° shows the central position of the center of gravity. When driving on a longitudinal incline, it is recommended to set the maximum / minimum boom angle!
- The boom incline is measured in the crane to the horizontal!
- Positive longitudinal incline means: Uphill slope in direction of the boom!
- Negative longitudinal incline means: Downhill slope in direction of the boom!
- The supports - if possible - must be held on support base 14 m x 14 m while driving, whereby the track pads must be directly above the ground!

LWE/LR 1600-2-002/218112-01-02/en

4 Driving with the SDR-boom

4.1 70 t turntable ballast (TB)

WARNING
The crane can topple over!
- ▶ LICCON job planner must be used for job planning purposes!
- ▶ It must be ensured that the turntable is aligned parallel to the crawler carriers before lowering on the narrow track crawler and during driving. Maximum permissible deviation: ±5°!
- ▶ Before lowering on the crawler travel gear, it must be ensured that one is in an angle range within the chart!
- ▶ Hook blocks must not be reeved!
- ▶ The suspended ballast pallet must be removed!

4.1.1 TAB 181 00 125-01

The chart is valid for set up configuration:
- – S-boom returned to original configuration
- – With derrick boom 36 m
- – Derrick angle 112.7° (derrick radius 13 m)
- – On narrow track 8.7 m x 3.8 m x 2.0 m
- – With installed supports 14.0 m x 14.0 m and support plates (3.3 t each)
- – Boom with 12 m intermediate section for flying assembly
- – Without hook block
- – 70 t turntable ballast
- – Wind speed to 12.8 m/s

Note
- ▶ Erection of SDR-boom on support base 14.0 m x 14.0 m

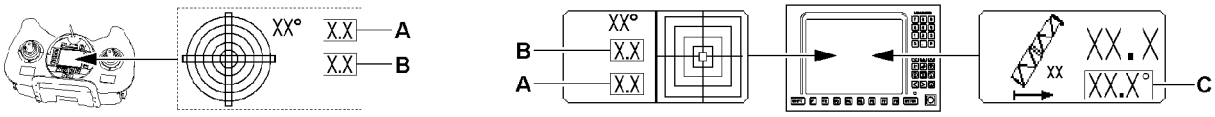

Fig.113458

A Longitudinal incline
B Lateral incline
C Boom angle

		Operating mode SDR- 58 m			Operating mode SDR- 64 m		
Crane incline		Boom angle			Boom angle		
A [°]	B [°]	C [°]			C [°]		
+6	-2.0...+2.0	43.0...	50.0		51.0...	57.5	
0	**-2.0...+2.0**	**43.0...**	**50.0**	**...56.0**	**51.0...**	**57.5**	**...64.0**
-6	-2.0...+2.0		50.0	...56.0		57.5	...64.0

System: S 2825.25/20; D 2420.20/16

LWE/LR 1600-2-002/218112-01-02/en

Note

- To obtain even ground pressure, it must be ensured that the crane's center of gravity is in the center. The medium value for the longitudinal incline 0° shows approximately the central position of the center of gravity. When driving on a longitudinal incline, it is recommended to set the maximum / minimum boom angle!
- The boom incline is measured in the crane to the horizontal!
- Positive longitudinal incline means: Uphill slope in direction of the boom!
- Negative longitudinal incline means: Downhill slope in direction of the boom!
- The supports - if possible - must be held on support base 14 m x 14 m while driving, whereby the track pads must be directly above the ground!

5 Driving with the SL2DR-boom

5.1 70 t turntable ballast (TB)

WARNING

The crane can topple over!

- LICCON job planner must be used for job planning purposes!
- It must be ensured that the turntable is aligned parallel to the crawler carriers before lowering on the narrow track crawler and during driving. Maximum permissible deviation: ±5°!
- Before lowering on the crawler travel gear, it must be ensured that one is in an angle range within the chart!
- Hook blocks must not be reeved!
- The suspended ballast pallet must be removed!

5.1.1 TAB 181 00 155-00

The charts are valid for set up configuration:

- SL2-boom returned to original configuration in SL2D- and SL2DF-operation
- With derrick boom 36 m
- Derrick angle 112.7° (derrick radius 13 m)
- On narrow track 8.7 m x 3.8 m x 2.0 m
- With installed supports 14.0 m x 14.0 m and support plates (3.3 t each)
- Boom with 12 m intermediate section for flying assembly
- Without hook block
- 70 t turntable ballast
- Wind speed to 12.8 m/s

Note

- Erection of SL2DR-boom on support base 14 m x 14 m !

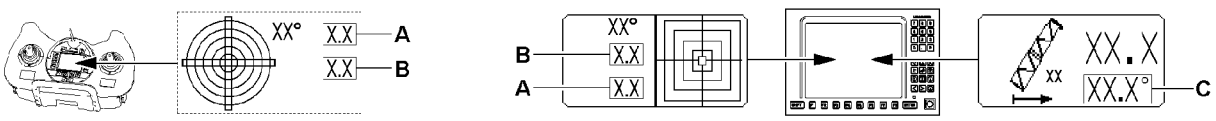

Fig.113458

A Longitudinal incline
B Lateral incline
C Boom angle

LWE/LR 1600-2-002/218112-01-02/en

		Operating mode SL2DR- 58 m			Operating mode SL2DR- 64 m			Operating mode SL2DR- 70 m		
Crane incline		Boom angle			Boom angle			Boom angle		
A	B	C			C			C		
[°]	[°]	[°]			[°]			[°]		
+6	-2.0...+2.0	43.0...	50.0		51.0...	57.5		52.0...	59.0	
0	**-2.0...+2.0**	**43.0...**	**50.0**	**...56.0**	**51.0...**	**57.5**	**...64.0**	**52.0...**	**59.0**	**...65.0**
-6	-2.0...+2.0		50.0	...56.0		57.5	...64.0		59.0	...65.0

System: S 2825.25/20/16; D 2420.20/16

Note

- To obtain even ground pressure, it must be ensured that the crane's center of gravity is in the center. The medium value for the longitudinal incline 0° shows the central position of the center of gravity. When driving on a longitudinal incline, it is recommended to set the maximum / minimum boom angle!
- The boom incline is measured in the crane to the horizontal!
- Positive longitudinal incline means: Uphill slope in direction of the boom!
- Negative longitudinal incline means: Downhill slope in direction of the boom!
- The supports - if possible - must be held on support base 14 m x 14 m while driving, whereby the track pads must be directly above the ground!

6 Driving with the SL4DR-boom

6.1 70 t turntable ballast (TB)

WARNING

The crane can topple over!

- LICCON job planner must be used for job planning purposes!
- It must be ensured that the turntable is aligned parallel to the crawler carriers before lowering on the narrow track crawler and during driving. Maximum permissible deviation: ±5°!
- Before lowering on the crawler travel gear, it must be ensured that one is in an angle range within the chart!
- Hook blocks must not be reeved!
- The suspended ballast pallet must be removed!

6.1.1 TAB 181 00 156-00

The charts are valid for set up configuration:

- SL4-boom returned to original configuration in SL4DF-operation
- With derrick boom 36 m
- Derrick angle 112.7° (derrick radius 13 m)
- On narrow track 8.7 m x 3.8 m x 2.0 m
- With installed supports 14.0 m x 14.0 m and support plates (3.3 t each)
- Boom with 12 m intermediate section for flying assembly
- Without hook block
- 70 t turntable ballast
- Wind speed to 12.8 m/s

Note

- Erection of SL4DR-boom on support base 14 m x 14 m !

LWE/LR 1600-2-002/218112-01-02/en

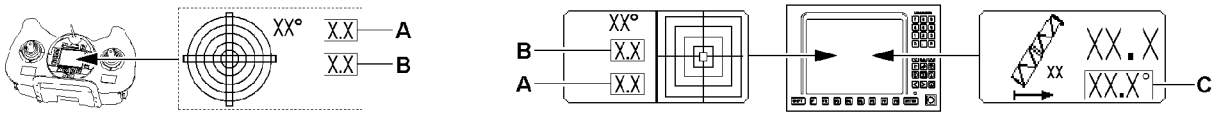

Fig.113458

A Longitudinal incline
B Lateral incline
C Boom angle

		Operating mode SL4DR- 58 m			Operating mode SL4DR- 64 m			Operating mode SL4DR- 70 m		
Crane incline		Boom angle			Boom angle			Boom angle		
A [°]	B [°]	C [°]			C [°]			C [°]		
+6	-2.0...+2.0	43.0...	50.0		51.0...	57.5		52.0...	59.0	
0	**-2.0...+2.0**	**43.0...**	**50.0**	**...56.0**	**51.0...**	**57.5**	**...64.0**	**52.0...**	**59.0**	**...65.0**
-6	-2.0...+2.0		50.0	...56.0		57.5	...64.0		59.0	...65.0

System: S 2825.25/20/16; D 2420.20/16

Note
- ▶ To obtain even ground pressure, it must be ensured that the crane's center of gravity is in the center. The medium value for the longitudinal incline 0° shows the central position of the center of gravity. When driving on a longitudinal incline, it is recommended to set the maximum / minimum boom angle!
- ▶ The boom incline is measured in the crane to the horizontal!
- ▶ Positive longitudinal incline means: Uphill slope in direction of the boom!
- ▶ Negative longitudinal incline means: Downhill slope in direction of the boom!
- ▶ The supports - if possible - must be held on support base 14 m x 14 m while driving, whereby the track pads must be directly above the ground!

7 Driving with the SL3F-boom

7.1 130 t turntable ballast (TB)

WARNING
The crane can topple over!
- ▶ LICCON job planner must be used for job planning purposes!
- ▶ It must be ensured that the turntable is aligned parallel to the crawler carriers before lowering on the narrow track crawler and during driving. Maximum permissible deviation: ±5°!
- ▶ Before lowering on the crawler travel gear, it must be ensured that one is in an angle range within the chart!
- ▶ The hook block must be attached on the crane support!

7.1.1 TAB 181 00 126-00

The charts are valid for set up configuration:
- – On narrow track 8.7 m x 3.8 m x 2.0 m
- – With installed supports 14.0 m x 14.0 m and support plates (3.3 t each)
- – The hook block is attached on the crane support, see chapter 15.01
- – 130 t turntable ballast

LWE/LR 1600-2-002/218112-01-02/en

– Wind speed to 12.8 m/s

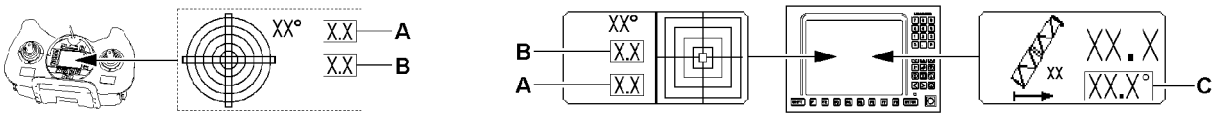

Fig.113458

A Longitudinal incline
B Lateral incline
C Boom angle

		Operating mode SL3- 72 m F- 12 m (ZW-11°)			Operating mode SL3- 75 m F- 12 m (ZW-11°)			Operating mode SL3- 78 m F- 12 m (ZW-11°)		
Crane incline		**Boom angle**			**Boom angle**			**Boom angle**		
A	**B**	**C**			**C**			**C**		
[°]	**[°]**	**[°]**			**[°]**			**[°]**		
+6	-2.0...+2.0	66.5...	69.5		68.0...	71.0		68.5...	71.5	
+5	-2.0...+2.0	67.5...	70.5		69.0...	72.0		69.5...	72.5	
+4	-2.0...+2.0	68.5...	71.5		70.0...	73.0		70.5...	73.5	
+3	-2.0...+2.0	69.5...	72.5		71.0...	74.0		71.5...	74.5	
+2	-2.0...+2.0	68.5...	71.5		70.0...	73.0		70.5...	73.5	
+1	-2.0...+2.0	67.5...	70.5		69.0...	72.0		69.5...	72.5	
0	**-2.0...+2.0**	**66.5...**	**69.5**	**...72.5**	**68.0...**	**71.0**	**...74.0**	**68.5...**	**71.5**	**...74.5**
-1	-2.0...+2.0		68.5	...71.5		70.0	...73.0		70.5	...73.5
-2	-2.0...+2.0		67.5	...70.5		69.0	...72.0		69.5	...72.5
-3	-2.0...+2.0		66.5	...69.5		68.0	...71.0		68.5	...71.5
-4	-2.0...+2.0		67.5	...70.5		69.0	...72.0		69.5	...72.5
-5	-2.0...+2.0		68.5	...71.5		70.0	...73.0		70.5	...73.5
-6	-2.0...+2.0		69.5	...72.5		71.0	...74.0		71.5	...74.5

System: S 2825.25/20/16; Li 2420.12.5/8.8; F 1916.6.3

		Operating mode SL3- 81 m F- 12 m (ZW-11°)		Operating mode SL3- 84 m F- 12 m (ZW-11°)	
Crane incline		**Boom angle**		**Boom angle**	
A	**B**	**C**		**C**	
[°]	**[°]**	**[°]**		**[°]**	
+6	-2.0...+2.0	70.0...	73.0	71.0...	74.0
+5	-2.0...+2.0	71.0...	74.0	72.0...	75.0
+4	-2.0...+2.0	72.0...	75.0	73.0...	76.0
+3	-2.0...+2.0	73.0...	76.0	74.0...	77.0
+2	-2.0...+2.0	72.0...	75.0	73.0...	76.0

LWE/LR 1600-2-002/218112-01-02/en

		Operating mode SL3- 81 m F- 12 m (ZW-11°)			Operating mode SL3- 84 m F- 12 m (ZW-11°)		
Crane incline		Boom angle			Boom angle		
A	B	C			C		
[°]	[°]	[°]			[°]		
+1	-2.0...+2.0	71.0...	74.0		72.0...	75.0	
0	**-2.0...+2.0**	**70.0...**	**73.0**	**...76.0**	**71.0...**	**74.0**	**...77.0**
-1	-2.0...+2.0		72.0	...75.0		73.0	...76.0
-2	-2.0...+2.0		71.0	...74.0		72.0	...75.0
-3	-2.0...+2.0		70.0	...73.0		71.0	...74.0
-4	-2.0...+2.0		71.0	...74.0		72.0	...75.0
-5	-2.0...+2.0		72.0	...75.0		73.0	...76.0
-6	-2.0...+2.0		73.0	...76.0		74.0	...77.0

System: S 2825.25/20/16; Li 2420.12.5/8.8; F 1916.6.3

Note

- To obtain even ground pressure, it must be ensured that the crane's center of gravity is in the center. The medium value for the longitudinal incline 0° shows the central position of the center of gravity. When driving on a longitudinal incline, it is recommended to set the maximum / minimum boom angle!
- The boom incline is measured in the crane to the horizontal!
- Positive longitudinal incline means: Uphill slope in direction of the boom!
- Negative longitudinal incline means: Downhill slope in direction of the boom!
- The supports - if possible - must be held on support base 14 m x 14 m while driving, whereby the track pads must be directly above the ground!

7.2 150 t turntable ballast (TB)

WARNING

The crane can topple over!

- LICCON job planner must be used for job planning purposes!
- It must be ensured that the turntable is aligned parallel to the crawler carriers before lowering on the narrow track crawler and during driving. Maximum permissible deviation: ±5°!
- Before lowering on the crawler travel gear, it must be ensured that one is in an angle range within the chart!
- The hook block must be attached on the crane support!

7.2.1 TAB 181 00 127-00

The charts are valid for set up configuration:

- On narrow track 8.7 m x 3.8 m x 2.0 m
- With installed supports 14.0 m x 14.0 m and support plates (3.3 t each)
- The hook block is attached on the crane support, see chapter 15.01
- 150 t turntable ballast
- Wind speed to 12.8 m/s

LWE/LR 1600-2-002/218112-01-02/en

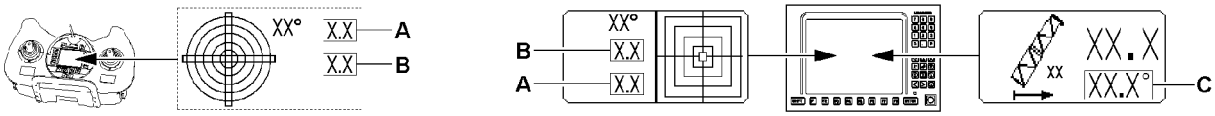

Fig.113458

A Longitudinal incline
B Lateral incline
C Boom angle

		Operating mode SL3- 72 m F- 12 m (ZW-11°)			Operating mode SL3- 75 m F- 12 m (ZW-11°)			Operating mode SL3- 78 m F- 12 m (ZW-11°)		
Crane incline		**Boom angle**			**Boom angle**			**Boom angle**		
A	**B**		**C**			**C**			**C**	
[°]	**[°]**		**[°]**			**[°]**			**[°]**	
+6	-2.0...+2.0	63.5...	66.5		65.0...	68.0		66.0...	69.0	
+5	-2.0...+2.0	64.5...	67.5		66.0...	69.0		67.0...	70.0	
+4	-2.0...+2.0	65.5...	68.5		67.0...	70.0		68.0...	71.0	
+3	-2.0...+2.0	66.5...	69.5		68.0...	71.0		69.0...	72.0	
+2	-2.0...+2.0	65.5...	68.5		67.0...	70.0		68.0...	71.0	
+1	-2.0...+2.0	64.5...	67.5		66.0...	69.0		67.0...	70.0	
0	**-2.0...+2.0**	**63.5...**	**66.5**	**...69.5**	**65.0...**	**68.0**	**...71.0**	**66.0...**	**69.0**	**...72.0**
-1	-2.0...+2.0		65.5	...68.5		67.0	...70.0		68.0	...71.0
-2	-2.0...+2.0		64.5	...67.5		66.0	...69.0		67.0	...70.0
-3	-2.0...+2.0		63.5	...66.5		65.0	...68.0		66.0	...69.0
-4	-2.0...+2.0		64.5	...67.5		66.0	...69.0		67.0	...70.0
-5	-2.0...+2.0		65.5	...68.5		67.0	...70.0		68.0	...71.0
-6	-2.0...+2.0		66.5	...69.5		68.0	...71.0		69.0	...72.0

System: S 2825.25/20/16; Li 2420.12.5/8.8; F 1916.6.3

		Operating mode SL3- 81 m F- 12 m (ZW-11°)		Operating mode SL3- 84 m F- 12 m (ZW-11°)	
Crane incline		**Boom angle**		**Boom angle**	
A	**B**	**C**		**C**	
[°]	**[°]**	**[°]**		**[°]**	
+6	-2.0...+2.0	67.5...	70.5	68.5...	71.5
+5	-2.0...+2.0	68.5...	71.5	69.5...	72.5
+4	-2.0...+2.0	69.5...	72.5	70.5...	73.5
+3	-2.0...+2.0	70.5...	73.5	71.5...	74.5
+2	-2.0...+2.0	69.5...	72.5	70.5...	73.5
+1	-2.0...+2.0	68.5...	71.5	69.5...	72.5

LWE/LR 1600-2-002/218112-01-02/en

		Operating mode SL3- 81 m F- 12 m (ZW-11°)			Operating mode SL3- 84 m F- 12 m (ZW-11°)		
Crane incline		Boom angle			Boom angle		
A	B	C			C		
[°]	[°]	[°]			[°]		
0	**-2.0...+2.0**	**67.5...**	**70.5**	**...73.5**	**68.5...**	**71.5**	**...74.5**
-1	-2.0...+2.0		69.5	...72.5		70.5	...73.5
-2	-2.0...+2.0		68.5	...71.5		69.5	...72.5
-3	-2.0...+2.0		67.5	...70.5		68.5	...71.5
-4	-2.0...+2.0		68.5	...71.5		69.5	...72.5
-5	-2.0...+2.0		69.5	...72.5		70.5	...73.5
-6	-2.0...+2.0		70.5	...73.5		71.5	...74.5

System: S 2825.25/20/16; Li 2420.12.5/8.8; F 1916.6.3

Note

- To obtain even ground pressure, it must be ensured that the crane's center of gravity is in the center. The medium value for the longitudinal incline 0° shows the central position of the center of gravity. When driving on a longitudinal incline, it is recommended to set the maximum / minimum boom angle!
- The boom incline is measured in the crane to the horizontal!
- Positive longitudinal incline means: Uphill slope in direction of the boom!
- Negative longitudinal incline means: Downhill slope in direction of the boom!
- The supports - if possible - must be held on support base 14 m x 14 m while driving, whereby the track pads must be directly above the ground!

7.3 Ballast combination 90 t / 67.5 t / 65 t (var1)

WARNING

The crane can topple over!

- LICCON job planner must be used for job planning purposes!
- It must be ensured that the turntable is aligned parallel to the crawler carriers before lowering on the narrow track crawler and during driving. Maximum permissible deviation: ±2°!
- Before lowering on the crawler travel gear, it must be ensured that one is in an angle range within the chart!
- The hook block must be attached on the crane support!

LWE/LR 1600-2-002/218112-01-02/en

7.3.1 TAB 181 00 167-01

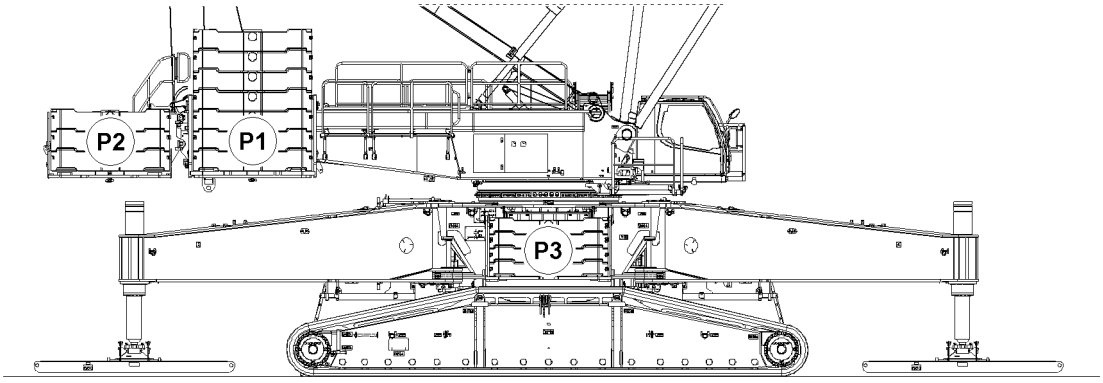

Fig.113463

The charts are valid for set up configuration:
- On narrow track 8.7 m x 3.8 m x 2.0 m
- With installed supports 14.0 m x 14.0 m and support plates (3.3 t each)
- The hook block is attached on the crane support, see chapter 15.01
- 90 t turntable ballast in position **P1**
- 67.5 t turntable extension in position **P2**
- 65 t central ballast in position **P3**
- Wind speed to 12.8 m/s

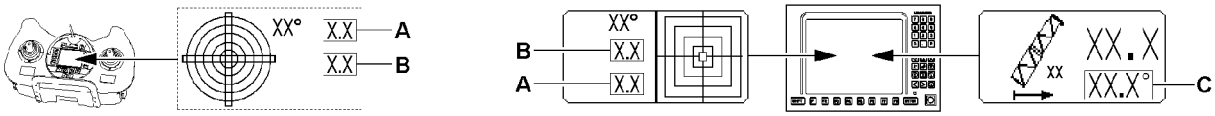

Fig.113458

A Longitudinal incline
B Lateral incline
C Boom angle

LWE/LR 1600-2-002/218112-01-02/en

		Operating mode SL3- 105 m F- 12 m (ZW-11°)			Operating mode SL3- 108 m F- 12 m (ZW-11°)		
Crane incline		Boom angle			Boom angle		
A	B	C			C		
[°]	[°]	[°]			[°]		
+6		71.0...	74.0		71.0...	74.0	
+5		72.0...	75.0		72.0...	75.0	
+4		73.0...	76.0		73.0...	76.0	
+3		74.0...	77.0		74.0...	77.0	
+2		73.0...	76.0		73.0...	76.0	
+1		72.0...	75.0		72.0...	75.0	
0	**-1.5...+1.5**	**71.0...**	**74.0**	**...77.0**	**71.0...**	**74.0**	**...77.0**
-1			73.0	...76.0		73.0	...76.0
-2			72.0	...75.0		72.0	...75.0
-3			71.0	...74.0		71.0	...74.0
-4			72.0	...75.0		72.0	...75.0
-5			73.0	...76.0		73.0	...76.0
-6			74.0	...77.0		74.0	...77.0

System: S 2825.25/20/16; Li 2420.12.5/8.8; F 1916.6.3

Note

- To obtain even ground pressure, it must be ensured that the crane's center of gravity is in the center. The medium value for the longitudinal incline 0° shows the central position of the center of gravity. When driving on a longitudinal incline, it is recommended to set the maximum / minimum boom angle!
- The boom incline is measured in the crane to the horizontal!
- It must be ensured that the superstructure is aligned parallel to the crawler carriers before lowering on the narrow track crawler and during driving. Maximum deviation: ±2°
- Positive longitudinal incline means: Uphill slope in direction of the boom!
- Negative longitudinal incline means: Downhill slope in direction of the boom!
- The supports - if possible - must be held on support base 14 m x 14 m while driving, whereby the track pads must be directly above the ground!
- Before lowering on the narrow track crawler, it must be ensured that one is in the angle range within the driving chart.

7.4 Ballast combination 90 t / 67.5 t / 45 t (var2)

WARNING

The crane can topple over!

- LICCON job planner must be used for job planning purposes!
- It must be ensured that the turntable is aligned parallel to the crawler carriers before lowering on the narrow track crawler and during driving. Maximum permissible deviation: ±2°!
- Before lowering on the crawler travel gear, it must be ensured that one is in an angle range within the chart!
- The hook block must be attached on the crane support!

7.4.1 TAB 181 00 168-01

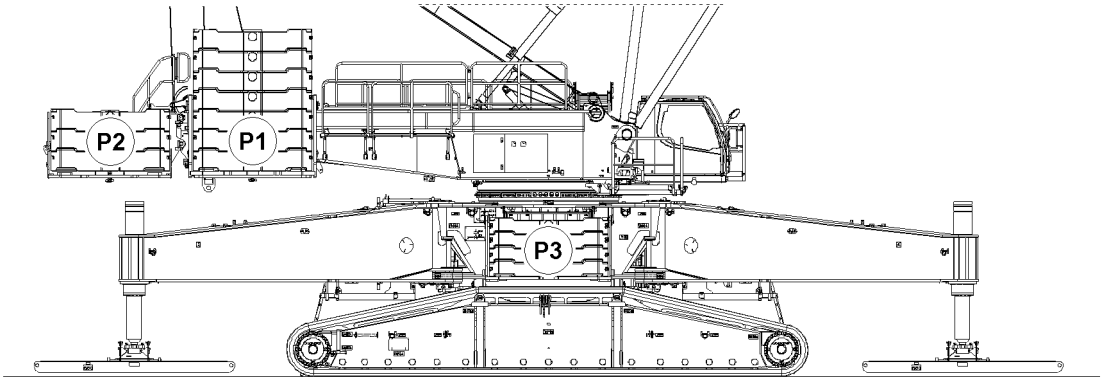

Fig.113463

The charts are valid for set up configuration:
- On narrow track 8.7 m x 3.8 m x 2.0 m
- With installed supports 14.0 m x 14.0 m and support plates. (3.3 t each)
- The hook block is attached on the crane support, see chapter 15.01
- 90 t turntable ballast in position **P1**
- 67.5 t turntable extension in position **P2**
- 45 t central ballast in position **P3**
- Wind speed to 12.8 m/s

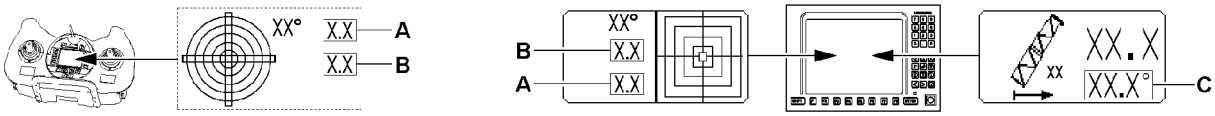

Fig.113458

A Longitudinal incline
B Lateral incline
C Boom angle

LWE/LR 1600-2-002/218112-01-02/en

		Operating mode SL3- 72 m F- 12 m (ZW-11°)	Operating mode SL3- 75 m F- 12 m (ZW-11°)	Operating mode SL3- 78 m F- 12 m (ZW-11°)
Crane incline		Boom angle	Boom angle	Boom angle
A	B	C	C	C
[°]	[°]	[°]	[°]	[°]
+6		56.5... 59.5	59.0... 62.0	60.0... 63.0
+5		57.5... 60.5	60.0... 63.0	61.0... 64.0
+4		58.5... 61.5	61.0... 64.0	62.0... 65.0
+3		59.5... 62.5	62.0... 65.0	63.0... 66.0
+2		58.5... 61.5	61.0... 64.0	62.0... 65.0
+1		57.5... 60.5	60.0... 63.0	61.0... 64.0
0	**-2.0...+2.0**	**56.5... 59.5 ...62.5**	**59.0... 62.0 ...65.0**	**60.0... 63.0 ...66.0**
-1		58.5 ...61.5	61.0 ...64.0	62.0 ...65.0
-2		57.5 ...60.5	60.0 ...63.0	61.0 ...64.0
-3		56.5 ...59.5	59.0 ...62.0	60.0 ...63.0
-4		57.5 ...60.5	60.0 ...63.0	61.0 ...64.0
-5		58.5 ...61.5	61.0 ...64.0	62.0 ...65.0
-6		59.5 ...62.5	62.0 ...65.0	63.0 ...66.0

System: S 2825.25/20/16; Li 2420.12.5/8.8; F 1916.6.3

LWE/LR 1600-2-002/218112-01-02/en

		Operating mode SL3- 81 m F- 12 m (ZW-11°)			Operating mode SL3- 84 m F- 12 m (ZW-11°)			Operating mode SL3- 87 m F- 12 m (ZW-11°)		
Crane incline		Boom angle			Boom angle			Boom angle		
A	B	C			C			C		
[°]	[°]	[°]			[°]			[°]		
+6		62.0...	65.0		63.0...	66.0		64.5...	67.5	
+5		63.0...	66.0		64.0...	67.0		65.5...	68.5	
+4		64.0...	67.0		65.0...	68.0		66.5...	69.5	
+3		65.0...	68.0		66.0...	69.0		67.5...	70.5	
+2		64.0...	67.0		65.0...	68.0		66.5...	69.5	
+1		63.0...	66.0		64.0...	67.0		65.5...	68.5	
0	**-2.0...+2.0**	**62.0...**	**65.0**	**...68.0**	**63.0...**	**66.0**	**...69.0**	**64.5...**	**67.5**	**...70.5**
-1			64.0	...67.0		65.0	...68.0		66.5	...69.5
-2			63.0	...66.0		64.0	...67.0		65.5	...68.5
-3			62.0	...65.0		63.0	...66.0		64.5	...67.5
-4			63.0	...66.0		64.0	...67.0		65.5	...68.5
-5			64.0	...67.0		65.0	...68.0		66.5	...69.5
-6			65.0	...68.0		66.0	...69.0		67.5	...70.5

System: S 2825.25/20/16; Li 2420.12.5/8.8; F 1916.6.3

LWE/LR 1600-2-002/218112-01-02/en

		Operating mode SL3- 90 m F- 12 m (ZW-11°)	Operating mode SL3- 93 m F- 12 m (ZW-11°)	Operating mode SL3- 96 m F- 12 m (ZW-11°)
Crane incline		Boom angle	Boom angle	Boom angle
A	B	C	C	C
[°]	[°]	[°]	[°]	[°]
+6		66.0... 69.0	67.0... 70.0	68.5... 71.5
+5		67.0... 70.0	68.0... 71.0	69.5... 72.5
+4		68.0... 71.0	69.0... 72.0	70.5... 73.5
+3		69.0... 72.0	70.0... 73.0	71.5... 74.5
+2		68.0... 71.0	69.0... 72.0	70.5... 73.5
+1		67.0... 70.0	68.0... 71.0	69.5... 72.5
0	**-2.0...+2.0**	**66.0... 69.0 ...72.0**	**67.0... 70.0 ...73.0**	**68.5... 71.5 ...74.5**
-1		68.0 ...71.0	69.0 ...72.0	70.5 ...73.5
-2		67.0 ...70.0	68.0 ...71.0	69.5 ...72.5
-3		66.0 ...69.0	67.0 ...70.0	68.5 ...71.5
-4		67.0 ...70.0	68.0 ...71.0	69.5 ...72.5
-5		68.0 ...71.0	69.0 ...72.0	70.5 ...73.5
-6		69.0 ...72.0	70.0 ...73.0	71.5 ...74.5

System: S 2825.25/20/16; Li 2420.12.5/8.8; F 1916.6.3

LWE/LR 1600-2-002/218112-01-02/en

		Operating mode SL3- 99 m F- 12 m (ZW-11°)			Operating mode SL3- 102 m F- 12 m (ZW-11°)		
Crane incline		Boom angle			Boom angle		
A	B	C			C		
[°]	[°]	[°]			[°]		
+6		69.5...	72.5		70.0...	73.0	
+5		70.5...	73.5		71.0...	74.0	
+4		71.5...	74.5		72.0...	75.0	
+3		72.5...	75.5		73.0...	76.0	
+2		71.5...	74.5		72.0...	75.0	
+1		70.5...	73.5		71.0...	74.0	
0	**-2.0...+2.0**	**69.5...**	**72.5**	**...75.5**	**70.0...**	**73.0**	**...76.0**
-1			71.5	...74.5		72.0	...75.0
-2			70.5	...73.5		71.0	...74.0
-3			69.5	...72.5		70.0	...73.0
-4			70.5	...73.5		71.0	...74.0
-5			71.5	...74.5		72.0	...75.0
-6			72.5	...75.5		73.0	...76.0

System: S 2825.25/20/16; Li 2420.12.5/8.8; F 1916.6.3

Note

- To obtain even ground pressure, it must be ensured that the crane's center of gravity is in the center. The medium value for the longitudinal incline 0° shows the central position of the center of gravity. When driving on a longitudinal incline, it is recommended to set the maximum / minimum boom angle!
- The boom incline is measured in the crane to the horizontal!
- Positive longitudinal incline means: Uphill slope in direction of the boom!
- Negative longitudinal incline means: Downhill slope in direction of the boom!
- The supports - if possible - must be held on support base 14 m x 14 m while driving, whereby the track pads must be directly above the ground!

8 Driving with the SLF-boom

8.1 Ballast combination 90 t / 67.5 t / 45 t (var2)

WARNING

The crane can topple over!

- LICCON job planner must be used for job planning purposes!
- It must be ensured that the turntable is aligned parallel to the crawler carriers before lowering on the narrow track crawler and during driving. Maximum permissible deviation: ±2°!
- Before lowering on the crawler travel gear, it must be ensured that one is in an angle range within the chart!
- The hook block must be attached on the crane support!

LWE/LR 1600-2-002/218112-01-02/en

8.1.1 TAB 181 00 175-01

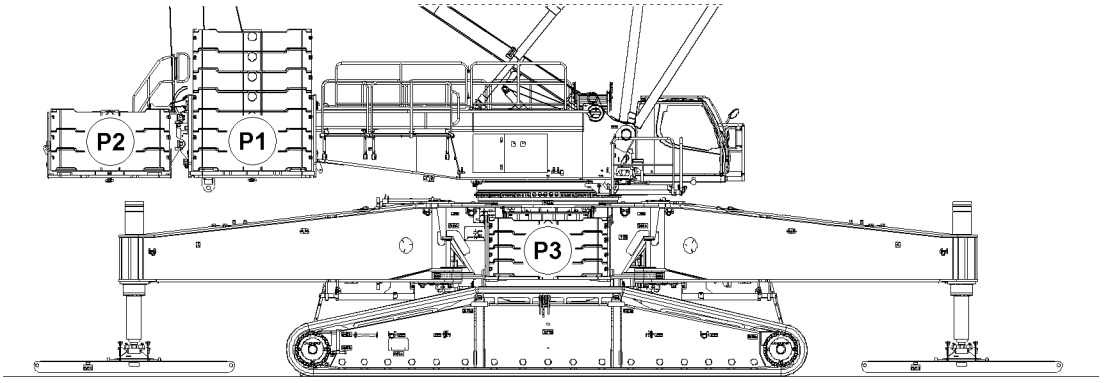

Fig.113463

The charts are valid for set up configuration:
- On narrow track 8.7 m x 3.8 m x 2.0 m
- With installed supports 14.0 m x 14.0 m and support plates (3.3 t each)
- The hook block is attached on the crane support, see chapter 15.01
- 90 t turntable ballast in position **P1**
- 67.5 t turntable extension in position **P2**
- 45 t central ballast in position **P3**
- Wind speed to 12.8 m/s

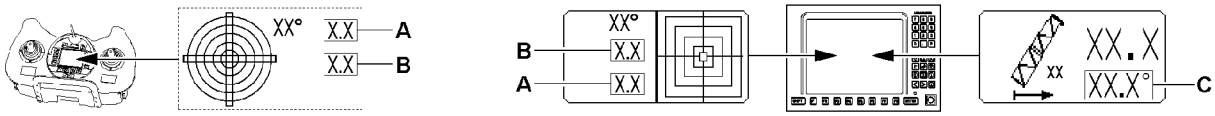

Fig.113458

A Longitudinal incline
B Lateral incline
C Boom angle

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		Operating mode SL- 72 m F- 12 m (ZW-11°)			Operating mode SL- 78 m F- 12 m (ZW-11°)		
Crane incline		Boom angle			Boom angle		
A	B	C			C		
[°]	[°]	[°]			[°]		
+6		60.5...	63.5		63.0...	66.0	
+5		61.5...	64.5		64.0...	67.0	
+4		62.5...	65.5		65.0...	68.0	
+3		63.5...	66.5		66.0...	69.0	
+2		62.5...	65.5		65.0...	68.0	
+1		61.5...	64.5		64.0...	67.0	
0	**-2.0...+2.0**	**60.5...**	**63.5**	**...66.5**	**63.0...**	**66.0**	**...69.0**
-1			62.5	...65.5		65.0	...68.0
-2			61.5	...64.5		64.0	...67.0
-3			60.5	...63.5		63.0	...66.0
-4			61.5	...64.5		64.0	...67.0
-5			62.5	...65.5		65.0	...68.0
-6			63.5	...66.5		66.0	...69.0

System: S 2825.25/20/16; Li 2420.12.5/8.8; F 1916.6.3

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		Operating mode SL- 84 m F- 12 m (ZW-11°)			Operating mode SL- 90 m F- 12 m (ZW-11°)		
Crane incline		Boom angle			Boom angle		
A	B	C			C		
[°]	[°]	[°]			[°]		
+6		66.0...	69.0		68.0...	71.0	
+5		67.0...	70.0		69.0...	72.0	
+4		68.0...	71.0		70.0...	73.0	
+3		69.0...	72.0		71.0...	74.0	
+2		68.0...	71.0		70.0...	73.0	
+1		67.0...	70.0		69.0...	72.0	
0	**-2.0...+2.0**	**66.0...**	**69.0**	**...72.0**	**68.0...**	**71.0**	**...74.0**
-1			68.0	...71.0		70.0	...73.0
-2			67.0	...70.0		69.0	...72.0
-3			66.0	...69.0		68.0	...71.0
-4			67.0	...70.0		69.0	...72.0
-5			68.0	...71.0		70.0	...73.0
-6			69.0	...72.0		71.0	...74.0

System: S 2825.25/20/16; Li 2420.12.5/8.8; F 1916.6.3

Note

- To obtain even ground pressure, it must be ensured that the crane's center of gravity is in the center. The medium value for the longitudinal incline 0° shows the central position of the center of gravity. When driving on a longitudinal incline, it is recommended to set the maximum / minimum boom angle!
- The boom incline is measured in the crane to the horizontal!
- Positive longitudinal incline means: Uphill slope in direction of the boom!
- Negative longitudinal incline means: Downhill slope in direction of the boom!
- The supports - if possible - must be held on support base 14 m x 14 m while driving, whereby the track pads must be directly above the ground!

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