

# Material Handling Machines

## LH 40 Industry

Litronic®

## LH 50 Industry

Litronic®

### Generation

6

### Operating Weight

36,400 – 54,900 kg \*

### Engine

155 kW / 211 HP

Stage V

Stage IIIA (compliant)

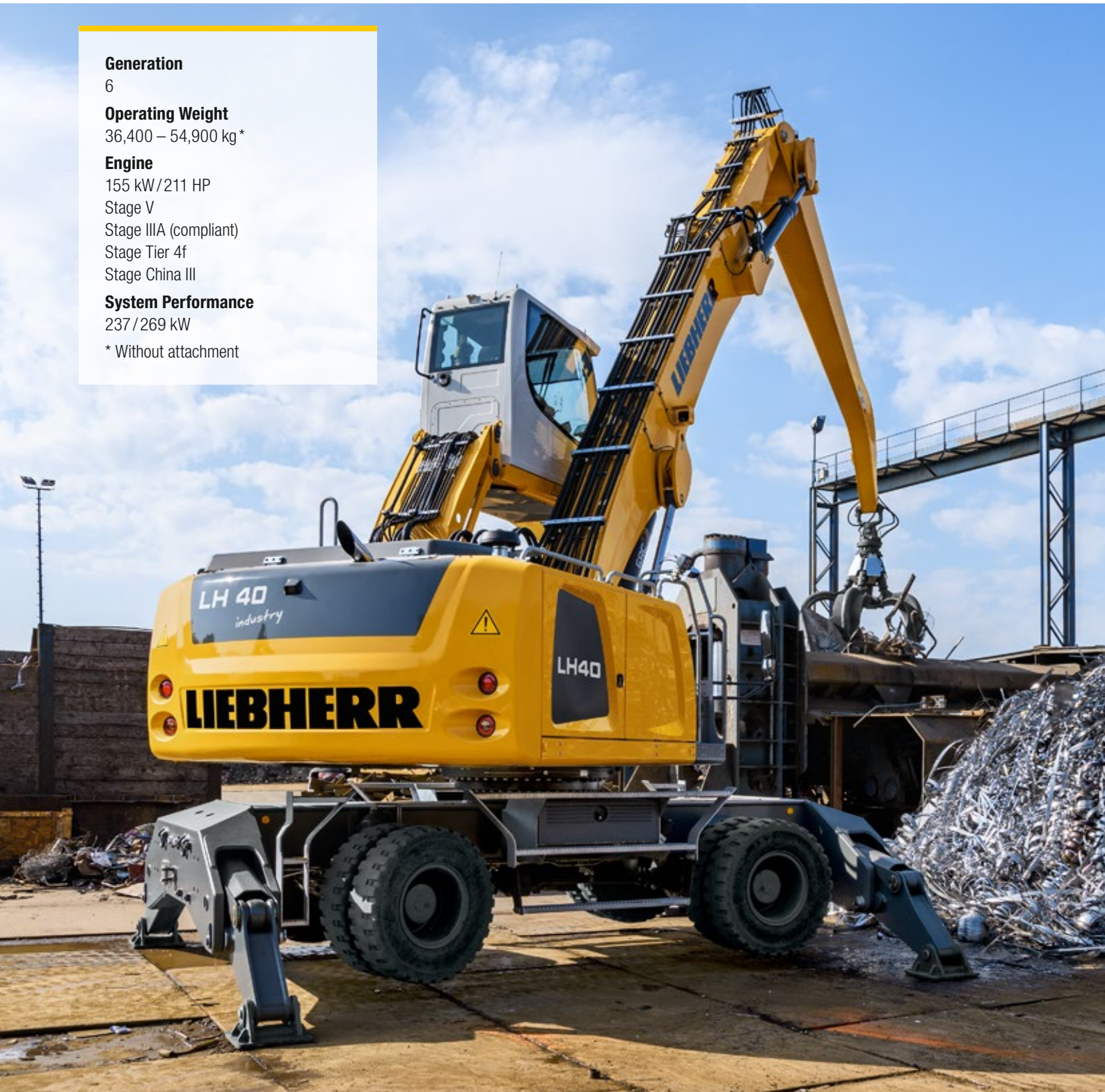
Stage Tier 4f

Stage China III

### System Performance

237 / 269 kW

\* Without attachment



# LIEBHERR



## Performance

Power Plus Speed –  
Redefined Performance

## Economy

Good Investment –  
Savings for the Long-Term

### LH 40 M Industry Litronic

**Operating Weight**

36,400 – 38,700 kg \*

**Engine**

155 kW / 211 HP

**Emissions Stages**

V / IIIA (compliant) / Tier 4f / China III

**System Performance**

237 kW

### LH 50 M Industry Litronic

**Operating Weight**

40,000 – 43,500 kg \*

**Engine**

155 kW / 211 HP

**Emissions Stages**

V / IIIA (compliant) / Tier 4f / China III

**System Performance**

269 kW

### LH 40 C Industry Litronic

**Operating Weight**

37,600 – 40,900 kg \*

**Engine**

155 kW / 211 HP

**Emissions Stages**

V / IIIA (compliant) / Tier 4f / China III

**System Performance**

237 kW

### LH 50 M High Rise Industry Litronic

**Operating Weight**

46,400 – 46,900 kg \*

**Engine**

155 kW / 211 HP

**Emissions Stages**

V / IIIA (compliant) / Tier 4f / China III

**System Performance**

269 kW

### LH 50 C High Rise Industry Litronic

**Operating Weight**

53,300 – 54,900 kg \*

**Engine**

155 kW / 211 HP

**Emissions Stages**

V / IIIA (compliant) / Tier 4f / China III

**System Performance**

269 kW

\* Without attachment



## Reliability

Durability and Sustainability –  
Quality Down to the Last Detail

## Comfort

Perfection at a Glance –  
When Technology is Comfortable

## Maintainability

Efficiency Bonus –  
Even with Maintenance and Service





# Performance



## Power Plus Speed – Redefined Performance

Liebherr has been designing and manufacturing market leading material handling machines for over 50 years. The new generation of Liebherr handlers, the LH 40 and LH 50, are high performance yet economical machines specially designed for use in scrap recycling, in timber yards and also for bulk handling.



## Maximum Handling Capacity

### Increased Engine Output

Engine output has been increased from 140 kW to 155 kW compared to the predecessor models, giving the system more torque for more powerful and faster movement. Furthermore, the machine automatically compensates for load peaks, meaning full torque is available at all times for maximum handling capacity.

### High Swing Torque

The separate hydraulic pump in the closed slewing circuit only supplies hydraulic fluid to the swing mechanism. The maximum delivery volume is thus available at any time for turning the uppercarriage for fast and dynamic rotational movements.

### Energy Recovery System ERC

The energy saved by lowering of the equipment in the ERC is also available to the machine for the engine power, the resulting system performance for the LH 40 and LH 50 is 237 kW and 269 kW respectively. The result is more powerful, faster and more homogeneous operating cycles, which lead to increased handling capacity.



#### Liebherr Diesel Engine

- Powerful, robust and reliable
- Maximum torque even at low speeds to ensure fast movements with low fuel consumption
- Common-Rail injection system for maximum efficiency
- Emissions treatment with Liebherr SCR technology at Stage V



#### Closed Slewing Circuit

- High torque for maximum acceleration and fast rotary movements
- Integrated speed sensor for controlling and monitoring braking movement for greater safety
- Greater fuel efficiency thanks to intelligent energy management in the closed system

## Precision Operation

### LSC Hydraulic System with Electrical Pilot Control

The new 2-circuit Liebherr-Synchron-Comfort-system (LSC) with LUDV technology (flow distribution independent of load pressure) ensures faster working movements with up to 20 % less fuel consumption in comparison to the predecessor models.

All work functions of the machine are controlled electrically, whereby the signals of the transmitters are only converted directly at the control block by hydraulic means. This technology enables end position damping of the equipment in order to protect the components and thus extend their service life. Simple, individual setting and adjustment of the working speed of boom, stick and slewing mechanism allow the driver to adjust the machine to each application and fully utilise the machine's capacity.

### Firm and Stable Positioning

An essential prerequisite for precise working and maximum handling capacity is the firm and stable positioning of the machine. The design of the Liebherr undercarriage optimises the way forces are induced on components to minimise stress and guarantee maximum stability and durability.



#### Electrical Pilot Control

- Precision control irrespective of the ambient temperature for maximum precision
- Simpler and faster fault diagnostics for optimal availability
- Up to 5 individual driver profiles can be saved

# Economy



## Good Investment – Savings for the Long-Term

Liebherr material handling machines combine high productivity with excellent economy thanks to the use of in-house components as well as sophisticated engine technology and highly efficient demand-controlled hydraulics.



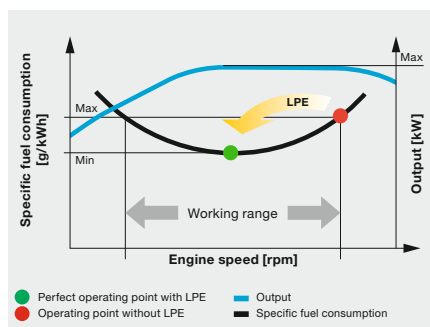
# Fuel Efficiency

## Engine Idling and Engine Shut-Down

The standard automatic idling function reduces the engine speed to idle as soon as the operator takes his hand from the joystick so that no hydraulic function is activated. Proximity sensors in the joystick levers restore the original engine speed as soon as the operator's hand is moved towards the lever again. This ensures that the set engine speed is available immediately. The result is a combination of fuel savings and reduced noise levels. Operating costs can be reduced even further with the optional automatic engine shut down function.

## Closed Hydraulic Circuit for the Swing Mechanism

The closed slewing circuit feeds the braking energy back into the system when the uppercarriage is braked. Here, new standards are set in terms of efficiency and economy. Simple yet effective.



## Low Fuel Consumption Thanks to Intelligent Machine Control

- Liebherr-Power Efficiency (LPE) optimises the interaction of the drive components in terms of efficiency
- LPE enables machine operation in the area of the lowest specific fuel use for less consumption and greater efficiency with the same performance

# Increased Productivity

## Energy Recovery System ERC

The ERC system not only brings about an enormous increase in performance and a higher handling capacity, but it also generates fuel savings of up to 30 %, lower operating costs and reducing noise pollution.

## Efficient Management

LiDAT, Liebherr's own data transmission and positioning system, facilitates efficient management, monitoring and control of the entire fleet park in terms of machinery data recording, data analysis, fleet management and service. All of the important machinery data can be viewed at any time in a web browser. LiDAT offers you comprehensive work deployment documentation, greater availability thanks to shorter downtimes, faster support from the manufacturer, quicker detection of strain/overload and subsequently a longer service life of the machine as well as greater planning efficiency in your company. This service includes 1 year of use without charge as standard for the LH 40 and LH 50.



## Liebherr-Attachments

- Robust and service-friendly slewing drive, can be turned 360°
- Optimum filling and clamping performance for effective material handling
- Finite element method (FEM) optimised for a perfect relationship between grapple weight, volume and a very long service life

## ERC System

- Increased total power
- Higher handling capacity
- Fuel savings of up to 30 %
- Lower running costs
- Reduced pollutant and noise emissions

# Reliability



## Durability and Sustainability – Quality Down to the Last Detail

Every day Liebherr material handlers demonstrate their qualities in a range of industrial applications all over the world. Years of experience, continuous development and the latest technologies provide maximum safety in use. Their robust design and the use of components produced in-house ensure that the LH 40 and LH 50 are designed for a long service life.



## More Safety

### Pipe Fracture Safety Valves

The standard pipe fracture safety valves on the stick and hoist cylinders prevent the equipments from dropping in an unregulated way and ensure maximum safety during every operation.

### Working Range Limiters

For operations in which the working range should be limited, the material handling machines can be optionally equipped with a working range limitation feature. Height, depth, width and proximity settings can be made to ensure that collisions and resulting component damage are avoided.

### Overload Warning Device and Load Torque Limitation

The audible and visual overload warning system continuously tells the operator about the current load situation of the machine. Furthermore, load torque limitation automatically regulates the speed of the working hydraulics to allow the maximum load bearing capacity to be approached safely. In the event of an overload, the functions which could cause the machine to topple are disabled. Only movements back to the safe working range are then possible.



## High Machine Availability

### Quality and Competence

Our experience, understanding of customer needs and the technical implementation of these findings guarantee the success of our products. For decades, Liebherr has been inspirational with its depth of production and system solutions. Key components such as the diesel engine, electronic components, slew ring, swivel drive and hydraulic cylinders are developed and produced by Liebherr itself. The extent of in-house manufacturing guarantees maximum quality and ensures that components are optimally configured to each other.

### Robust Design

All steel components are designed and manufactured by Liebherr. High-strength steel plates configured for the toughest of requirements result in high torsional stiffness and optimum absorption of forces induced for a longer service life.

### Intelligent Self Diagnostics

The innovative control electronics permanently monitor the vital functions of the machine to guarantee a high level of machine availability. Components which are critical for safety are designed with redundancy to guarantee maximum reliability.



### QPDM – Quality and Process Data Management

- QPDM allows production data to be logged, documented and evaluated
- Automation of documentation and test specifications
- Ability to handle large quantities of data while maintaining uniform high quality

### Piston Rod Protection

- Maximum protection of piston rod
- Robust construction of hot-dip galvanised steel for a long service life in tough applications
- Available for outriggers, hoist cylinders, ERC cylinder and tip cylinder as an option

### Equipment

- Components enhanced using FEM for maximum service life even if subjected to heavy lateral stresses during demanding tasks
- Cables routed internally to protect them from damage
- High load capacities with long reaches
- Reaches up to 19 m

# Comfort



## Perfection at a Glance – When Technology is Comfortable

The newly designed operator's work station sets new standards in comfort. The Liebherr deluxe cab is spacious, has an ergonomic design and is very quiet. This ensures that the operator is able to fully focus throughout the working day.



## Deluxe Cab

### Ergonomic Design

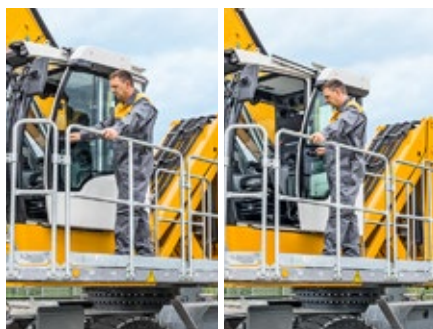
The modern cab design provides excellent conditions for healthy, focussed and productive work in maximum comfort. The colour touchscreen display, the controls and operator's Comfort seat are all coordinated to form a perfect ergonomic unit. In addition the ergonomic joysticks allow the machine operation to be both pleasant and precise.

### Excellent All-Round Vision

The large areas of glass, different versions of cab elevations and the rear and side area monitoring systems provide the operator with an excellent view of their working area and the zone around the machine. This perfect view enhances the operator's safety and ensures that they can handle the machine safely at all times.

### Low Noise Levels

The use of viscoelastic mounts, good insulation and low noise diesel engines from Liebherr minimises noise emissions and vibrations. The noise levels of the LH 40 and LH 50 are just 70 dB(A) in the operator's cab and 103 dB(A) outside. This means that the material handlers LH 40 and LH 50 have low noise to preserve people and the environment.



#### Safe Access

- Foldable left arm console as well as wide, non-slip steps, catwalks and platforms, and ergonomically positioned handles for easy and safe access
- All access systems are designed to national guidelines and statutory regulations
- Sliding door for comfortable entry with narrow platforms is available as an option



#### Comfort Operator's Seat with Adjustable Armrests

- Greater seating comfort due to variable damper hardness, lockable horizontal suspension, pneumatic lumbar support, seat heating and passive seat air conditioning for concentrated working
- Individual adjustment options for armrests, seat cushion depth, seat angle and head restraint for comfortable working

## Comfortable Operation

### Proportional Control

Precision control of the material handling machine is especially important in applications such as waste separation or scrap recycling. Thanks to the standard proportional control, even such demanding operations can be mastered with ease.

### Joystick Steering and Stabilizing

The standard joystick steering gives the operator an additional comfort boost. The steering movement can be conveniently executed using the joystick, eliminating the need to reposition during the work cycle. Substituting the steering wheel in favour of joystick steering provides additional leg-room and a clear view of the working area. A new standard feature is Joystick control of the outriggers for more convenience and an increased productivity.

### Colour Touchscreen Display and Operation Unit

The 7" colour touchscreen display is intuitive in its operation and provides continuous information about all important operating data. The shortcut keys can be individually assigned and are selected quickly and easily with the menu strip.



#### Joystick with Proportional Control

- Good functionality with streamlined, ergonomic design
- 4-way mini joystick can be used to control all operations e.g. steering, outriggers and attachments etc.
- Joysticks — each with two newly designed buttons and a rocker switch — increase the number of functions available.

# Maintainability



## Efficiency Bonus – Even with Maintenance and Service

The Liebherr LH 40 and LH 50 material handling machines are powerful, robust, precise and efficient. They also feature integral maintenance benefits as a result of their service-based machine design. All maintenance work for Liebherr material handlers can be carried out quickly, easily and safely. This minimises the machine's maintenance costs and downtime.



# Efficient Maintenance Concept

## Service-Based Machine Design

The service-based machine design guarantees short servicing times, thus minimising maintenance costs. All the service points are positioned in close proximity to one another, are easily accessible from the ground or from catwalks and platforms, and easy to reach thanks to the large, wide-opening service doors. This means that service work can be completed even more quickly and efficiently.

## Integral Maintenance Benefits

Maintenance work helps to keep the machine fully functional. However this kind of work leads to machine downtimes which have to be minimised. With change intervals of up to 2,000 hours for engine oil and up to 8,000 hours for hydraulic oil, Liebherr has significantly reduced the amount of maintenance and increased the productivity of the material handlers. In addition, central lubrication systems minimise daily maintenance.

# Your Competent Service Partner

## Remanufacturing

The Liebherr remanufacturing program offers cost-effective reconditioning of components to the highest quality standards. Various reconditioning levels are available: Replacement components, general overhaul or repair. The customer receives components with original part quality at a reduced cost.

## Competent Advice and Service

Competent advice is a given at Liebherr. Experienced specialists provide decision guidance for your specific requirements: application-oriented sales support, service agreements, economical repair alternatives, original parts management, as well as remote data transmission for machine planning and fleet management.

## Fast Spare Parts Service

The Liebherr spare parts service provides 24-hour delivery and is therefore available to our dealers around the clock. Thanks to the electronic spare parts catalogue the parts can be selected and ordered quickly and reliably using the Liebherr online portal. Your order can be tracked at any time using the online tracking system.



## Lubrication as it Works

- Fully automatic central lubrication system for uppercarriage and equipment
- Fully automatic central lubrication system for the undercarriage available as an option
- Lubricates without interrupting work to ensure better productivity and a long component service life

## Excellent Service Access

- Large, wide-opening service doors
- Engine oil, fuel, air and cab air filters are easily and safely accessible from the ground or from catwalks and platforms
- The oil level in the hydraulic tank can be checked from the cab
- Short service times for more productivity

## SCRFilter for Stage V

- The SCR filter system developed by Liebherr includes a DOC catalyst, an SCR catalyst and an SCR-coated particulate filter
- The DOC catalyst requires no maintenance and the coated particulate filter is regenerated passively
- The maintenance intervals can be extended to more than 4,500 operating hours

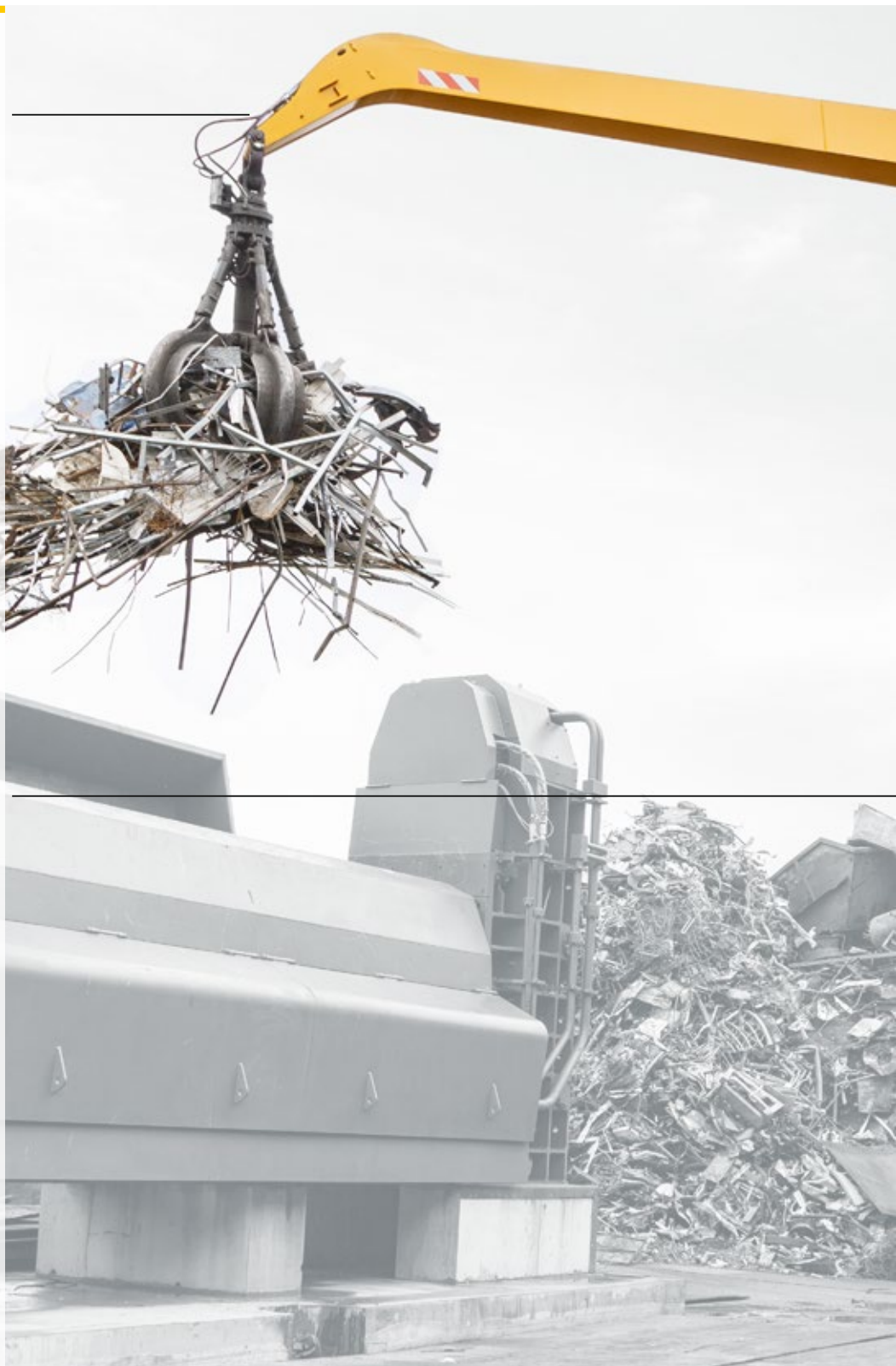
# Material Handling Machines Overview

## Equipment

- High load capacities and long reaches thanks to optimised kinematic properties and robust construction for greater handling performance
- Energy recovery cylinder filled with nitrogen for maximum efficiency through less fuel consumption at more handling capacity
- Pipe fracture safety valves on hoist and stick cylinders and retract stick shut-off for maximum safety during every application
- Quick coupling systems and attachments made by Liebherr for maximum machine capacity utilisation and greater handling performance

## Operator's Cab

- Joystick steering without steering column as standard for convenient operation, greater legroom and clear view of the working area
- Less strain on the operator, workers and reduced environmental pollution due to lower noise emissions
- Optimum visibility thanks to large glass surfaces and standard rear and side area monitoring with camera
- Proportional control as standard with 4-way mini joystick for greater precision, high precision control and functions







### Uppercarriage

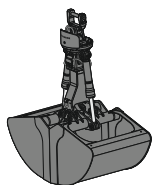
- 2-circuit Liebherr-Synchron-Comfort-system (LSC) with LUDV technology for faster working speed at up to 20 % less fuel consumption
- 155 kW engine output and greater pump flow for fast work cycles and maximum handling performance
- Electrical pilot control enables individual settings for the operator and an end position damping of the equipment
- Reduction in operating costs thanks to built-in maintenance advantages and optimum service accessibility

### Undercarriage

- Optimised hydraulics with closed slewing mechanism circuit for greater fuel efficiency and faster work cycles
- Central lubrication system (manual / fully automatic) for more productive working time (optional available)
- Load-holding valves fitted as standard on all support cylinders for maximum stability in every application
- Less downtimes thanks to maintenance-free support cylinders

# The Perfect Solution for Every Application

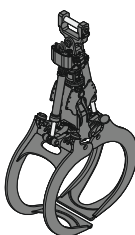
## Attachments



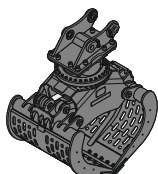
Grab for loose material



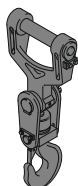
Multi-tine grab



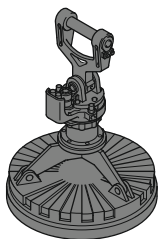
Wood grab



Sorting grab

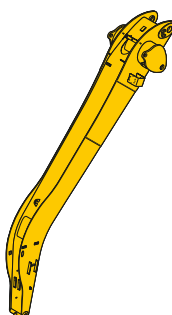


Load hook

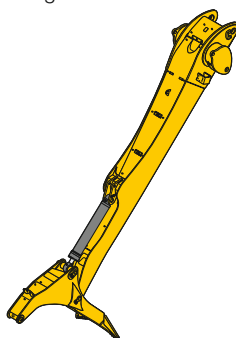


Magnet plate

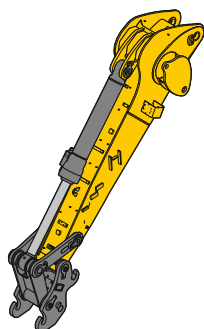
## Sticks



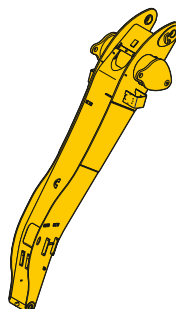
Angled stick



Stick with counterstay

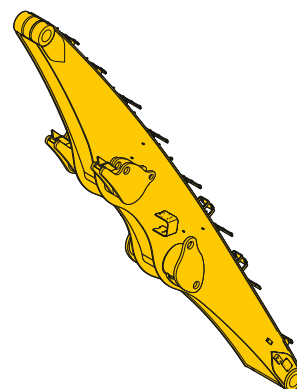


Stick for scrap shear

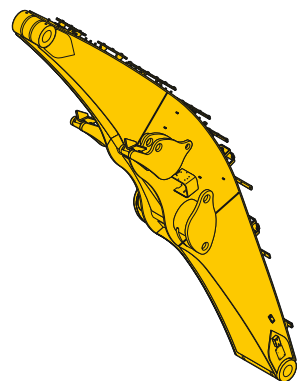


Flat angled stick

## Booms



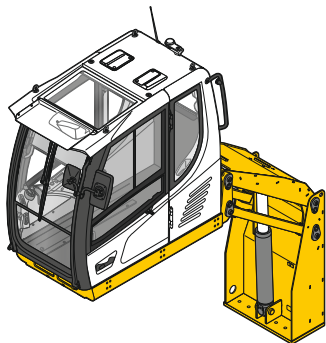
Straight boom



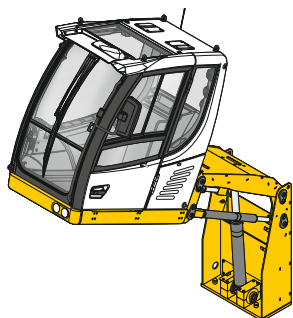
Angled boom



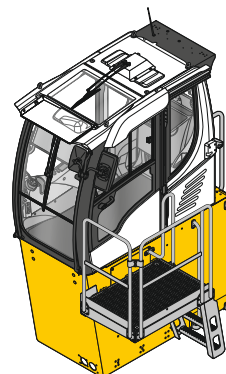
## Cab Elevations



Hydraulic cab elevation

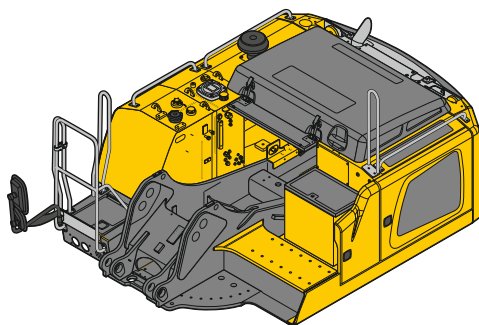


30° tilt function

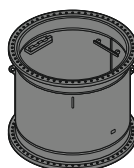


Rigid cab elevation

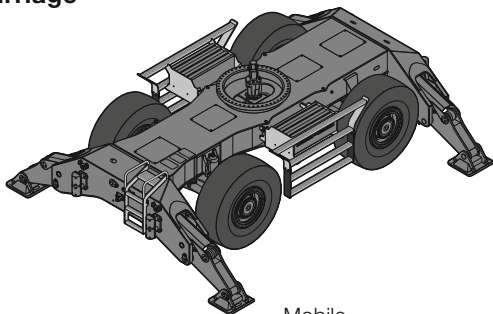
## Uppercarriage



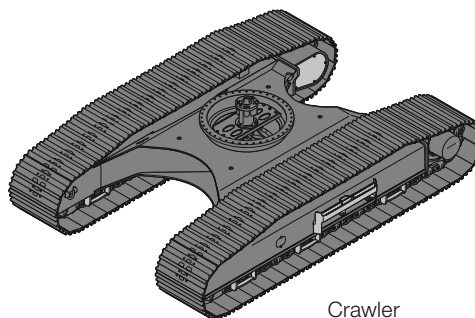
## Turret Elevations



## Undercarriage



Mobile



Crawler

## Examples of Use



LH 50 M Industry Litronic in scrap handling operation



Container dismantling with the LH 40 M Industry Litronic



LH 50 M Industry Litronic in trailer operation when handling logs



Scrap handling with the LH 50 M Industry Litronic





Loading extruded aluminium bundles onto wagons with the LH 50 M Industry Litronic



Loading a concrete mixing plant with the LH 40 M Industry Litronic



LH 50 C High Rise Industry Litronic loading waste wood



LH 40 M Industry Litronic for disassembling steel girders with a scrap shear

# Technical Data



## Diesel Engine

<b>Rating per ISO 9249</b>	155 kW (211 HP) at 1,800 RPM
<b>Model</b>	Liebherr D934
<b>Type</b>	4 cylinder in-line
Bore/Stroke	122/150 mm
Displacement	7.0 l
<b>Engine operation</b>	4-stroke diesel Common-Rail turbo-charged and after-cooled reduced emissions
<b>Air cleaner</b>	dry-type air cleaner with pre-cleaner, primary and safety elements
<b>Engine idling</b>	sensor controlled
<b>Electrical system</b>	
Voltage	24 V
Batteries	2 x 180 Ah/12 V
Alternator	three-phase current 28 V/140 A
<b>Stage V</b>	
Harmful emissions values	according to regulation (EU) 2016/1628
Emission control	Liebherr-SCRFilter technology
Fuel tank	453 l
Urea tank	65 l
<b>Stage IIIA (compliant)</b>	
Harmful emissions values	in accordance with ECE-R.96 Power Band H
Fuel tank	453 l
<b>Stage Tier 4f</b>	
Harmful emissions values	in accordance with EPA/CARB-40CFR stage Tier 4f
Emission control	Liebherr-SCR technology
Fuel tank	453 l
Urea tank	65 l
<b>Stage China III</b>	
Harmful emissions values	in accordance with GB 20891-2014 stage III
Fuel tank	453 l



## Cooling System

<b>Diesel engine</b>	water-cooled compact cooling system consisting cooling unit for water, hydraulic oil and charge air with step-less thermostatically controlled fan
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## Hydraulic Controls

<b>Power distribution</b>	via control valves with integrated safety valves, simultaneous actuation of chassis and equipment. Swing drive in separate closed circuit
<b>Servo circuit</b>	
Equipment and swing	with electro-hydraulic pilot control and proportional joystick levers
Chassis	
Mobile	electro-proportional via foot pedal
Crawler	with electric proportionally functioning foot pedals or adjusted with plugable levers
<b>Additional functions</b>	via switch or electro-proportional foot pedals
Proportional control	proportionally acting transmitters on the joysticks for additional hydraulic functions



## Hydraulic System

<b>Hydraulic pump</b>	
for equipment and travel drive	2 Liebherr axial piston variable displacement pumps (double construction)
Max. flow	2 x 237 l/min.
Max. pressure for swing drive	350 bar
	reversible axial piston variable displacement pump, closed-loop circuit
Max. flow	144 l/min.
Max. pressure	370 bar
<b>Hydraulic pump regulation and control</b>	2 circuit Liebherr-Synchron-Comfort-system (LSC) with electronic engine speed sensing regulation, pressure and flow compensation, automatic oil flow optimizer
<b>Hydraulic tank</b>	285 l
<b>Hydraulic system</b>	605 l
<b>Hydraulic oil filter</b>	1 main return filter with integrated partial micro filtration (5 µm)
<b>MODE selection</b>	adjustment of engine and hydraulic performance via a mode pre-selector to match application, e.g. for especially economical and environmentally friendly operation or for maximum material handling and heavy-duty jobs
S (Sensitive)	mode for precision work and lifting through very sensitive movements
E (Eco)	mode for especially economical and environmentally friendly operation
P (Power)	mode for high performance with low fuel consumption
P+ (Power-Plus)	mode for highest performance and for very heavy duty applications, suitable for continuous operation
<b>Engine speed and performance setting</b>	stepless alignment of engine output and hydraulic power via engine speed
Option	Tool Control: 20 pre-adjustable pump flows and pressures for add-on attachments



## Swing Drive

<b>Drive</b>	Liebherr axial piston motor in a closed system, Liebherr planetary reduction gear
<b>Swing ring</b>	Liebherr, sealed race ball bearing swing ring, internal teeth
<b>Swing speed</b>	0 – 7.5 RPM stepless (LH 40) 0 – 8.0 RPM stepless (LH 50) 0 – 6.5 RPM stepless (High Rise)
<b>Swing torque</b>	84 kNm
<b>Holding brake</b>	wet multi-disc (spring applied, pressure released)
<b>Option</b>	slewing gear brake Comfort





## Operator's Cab

<b>Cab</b>	TOPS safety cab structure (tip-over protection) with individual windscreens or featuring a slide-in subpart under the ceiling, work headlights integrated in the ceiling, a door with a sliding window (can be opened on both sides), large stowing and depositing possibilities, shock-absorbing suspension, sound damping insulating, tinted laminated safety glass, separate shades for the sunroof window and windscreen
<b>High Rise</b>	deviating from standard: safety cab structure with fixed built-in front and roof window made from impact-resistant laminated safety glass
<b>Operator's seat Comfort</b>	air cushioned operator's seat with 3D-adjustable armrests, headrest, lap belt, seat heater, adjustable seat cushion inclination and length, lockable horizontal suspension, automatic weight adjustment, adjustable suspension stiffness, pneumatic lumbar vertebrae support and passive seat climatisation with active coal
<b>Operator's seat Premium (Option)</b>	in addition to operator's seat comfort: active electronic weight adjustment (automatic re-adjustment), pneumatic low frequency suspension and active seat climatisation with active coal and ventilator
<b>Arm consoles</b>	joysticks with control consoles and swivel seat, folding left control console
<b>Operation and displays</b>	large high-resolution operating unit, self-explanatory, colour display with touchscreen, video-compatible, numerous settings, control and monitoring options, e.g. air conditioning control, fuel consumption, machine and attachment parameters
<b>Air-conditioning</b>	automatic air-conditioning, recirculated air function, fast de-icing and demisting at the press of a button, air vents can be operated via a menu; recirculated air and fresh air filters can be easily replaced and are accessible from the outside; heating-cooling unit, designed for extreme outside temperatures, sensors for solar radiation, inside and outside temperatures
Refrigerant	R134a
Global warming potential	1,430
Quantity at 25 °C*	1,400 – 1,600 g
CO <sub>2</sub> equivalent*	2.002 – 2.288 t
<b>Vibration emission**</b>	
Hand/arm vibrations	< 2.5 m/s <sup>2</sup>
Whole-body vibrations	< 0.5 m/s <sup>2</sup>
Measuring inaccuracy	according with standard EN 12096:1997



## Equipment

<b>Type</b>	high-strength steel plates at highly-stressed points for the toughest requirements. Complex and stable mountings of equipment and cylinders
<b>Hydraulic cylinders</b>	Liebherr cylinders with special sealing and guide system and, depending on cylinder type, shock absorption
<b>Energy recovering cylinder</b>	Liebherr gas cylinder with special sealing and control system
<b>Bearings</b>	sealed, low maintenance

\* depending on configuration

\*\* for risk assessment according to 2002/44/EC see ISO/TR 25398:2006



## Undercarriage

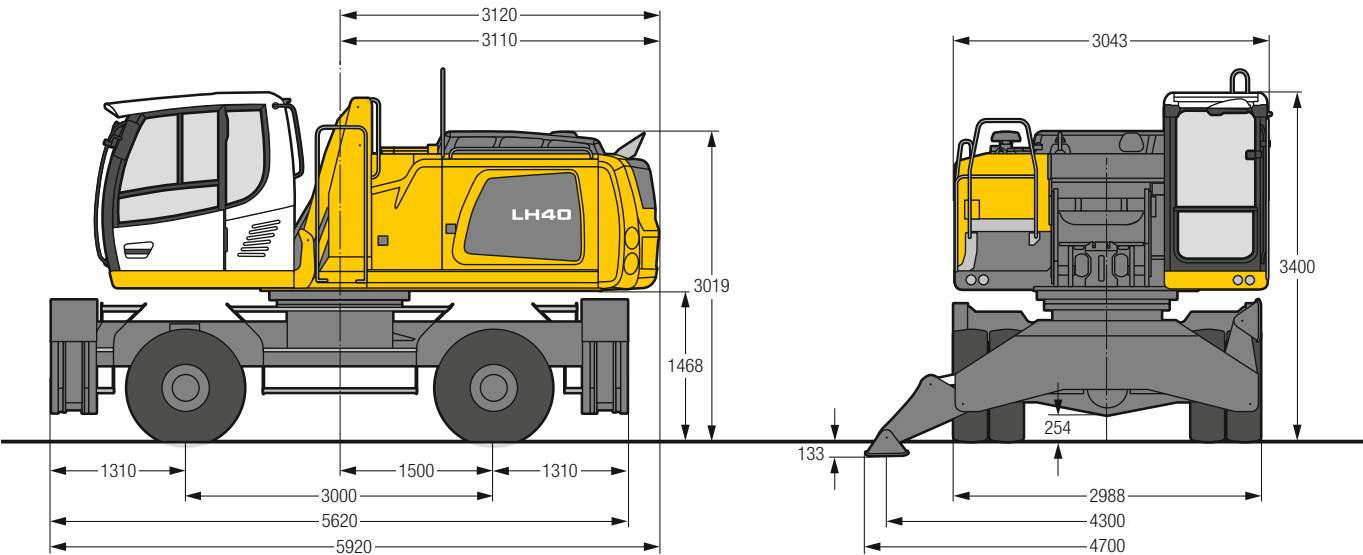
<b>Mobile</b>	
Version	Standard, High Rise
Drive	oversized two speed power shift transmission with additional creeper speed, Liebherr axial piston motor with functional brake valve on both sides
Travel speed	
Joystick steering	0 – 3.0 km/h stepless (creeper speed + transmission stage 1) 0 – 5.0 km/h stepless (transmission stage 1) 0 – 12.0 km/h stepless (creeper speed + transmission stage 2) 0 – 12.0 km/h stepless (transmission stage 2)
Wheel steering (Option)	0 – 3.0 km/h stepless (creeper speed + transmission stage 1) 0 – 5.0 km/h stepless (transmission stage 1) 0 – 12.0 km/h stepless (creeper speed + transmission stage 2) 0 – 12.0 km/h stepless (transmission stage 2, only for High Rise) 0 – 20.0 km/h stepless (transmission stage 2, not for High Rise)
Driving operation	automotive driving using accelerator pedal, cruise control function: storage of variable accelerator pedal positions
Axes	60 t/70 t drive axes (LH 40 M/LH 50 M); manual or automatic hydraulically controlled front axle oscillation lock
Option	four wheel steering (LH 40 M)
Option	steering reversal control (LH 40 M)
Service brake	two circuit travel brake system with accumulator; wet and backlash-free disc brake
Holding brake	wet multi-disc (spring applied, pressure released)
Stabilization	4 point outriggers
Option	dozer blade, at the front, for 4 point outriggers (not for High Rise)
<b>Crawler</b>	
Versions	EW, High Rise
Drive	Liebherr compact planetary reduction gear with Liebherr axial piston motor per side of undercarriage
Travel speed	0 – 3.0 km/h stepless (creeper speed) 0 – 4.4 km/h stepless High Rise: 0 – 2.3 km/h stepless (creeper speed) 0 – 3.7 km/h stepless
Brake	functional brake valves on both sides
Holding brake	wet multi-disc (spring applied, pressure released)
Track pads	triple grouser, flat
Tracks	sealed and greased



## Complete Machine

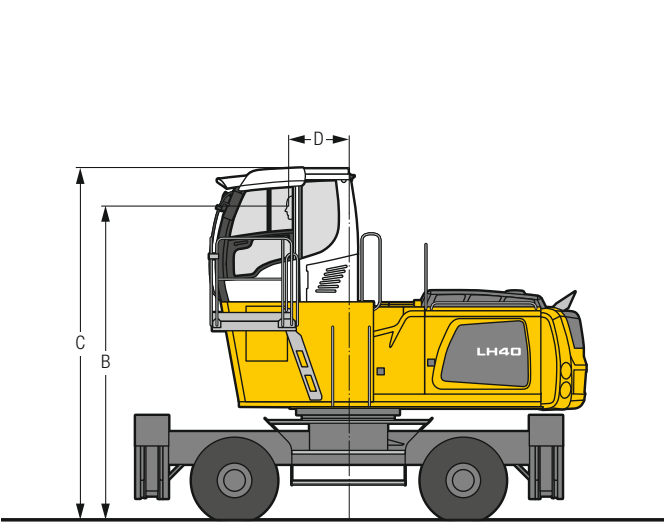
<b>Lubrication</b>	Liebherr central lubrication system for upper-carriage and equipment, automatically
Mobile (Option)	Liebherr central lubrication system for under-carriage, automatically
<b>Steps system</b>	safe and durable access system with anti-slip steps; main components hot-galvanised
<b>Noise emission</b>	
ISO 6396	L <sub>PA</sub> (inside cab) = 70 dB(A)
2000/14/EC	L <sub>WA</sub> (surround noise) = 103 dB(A)

# LH 40 M – Dimensions



## LH 40 M – Choice of Cab Elevation

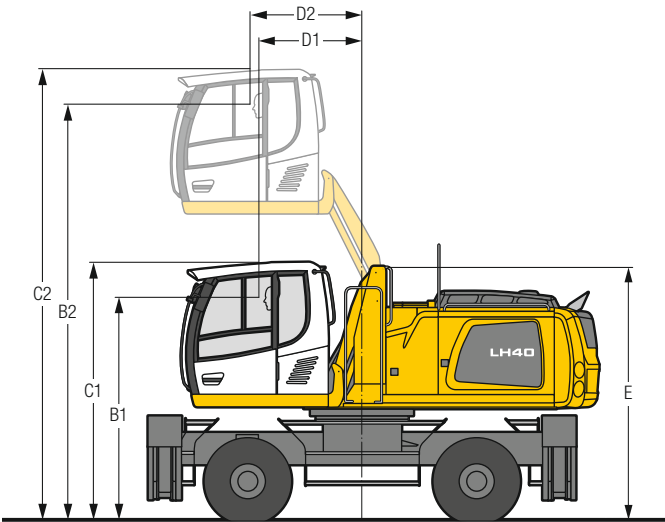
### Cab Elevation LFC (Rigid Elevation)



Increase type	LFC 120
Height	1,200 mm
B	4,138 mm
C	4,641 mm
D	788 mm

A rigid cab elevation has a fixed eye level height. For a lower transport height, the shell of the cab can be removed and replaced by a transport device. The dimension C is in this machine design for all rigid cab elevations 3,745 mm.

### Cab Elevation LHC (Hydraulic Elevation)



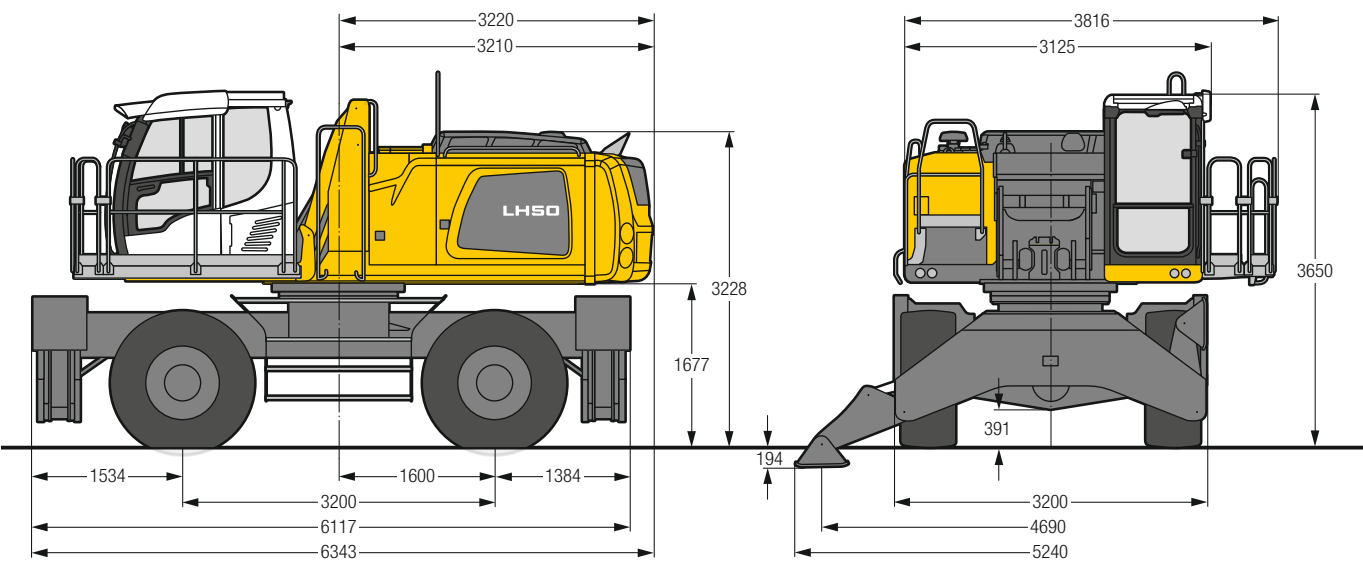
Increase type	LHC 255
B1	2,938 mm
B2	5,485 mm
C1	3,400 mm
C2	5,947 mm
D1	1,343 mm
D2	1,468 mm
E	3,343 mm

The hydraulically adjustable cab allows the driver, that he can choose his field of view freely and at any time within the stroke.

### Tyres 12.00-20

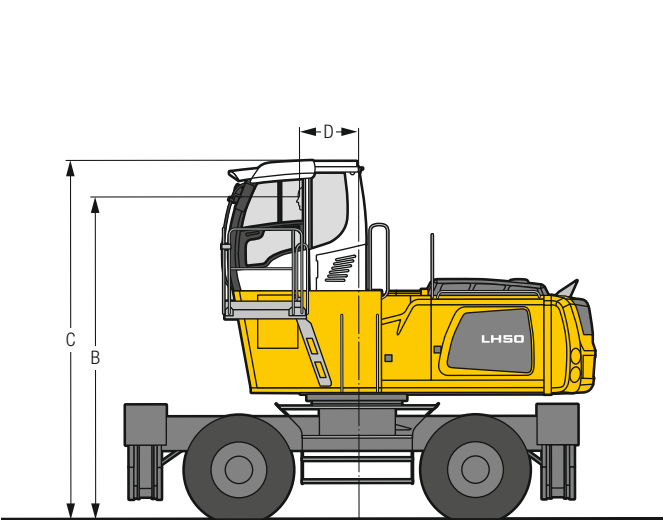


# LH 50 M – Dimensions



# LH 50 M – Choice of Cab Elevation

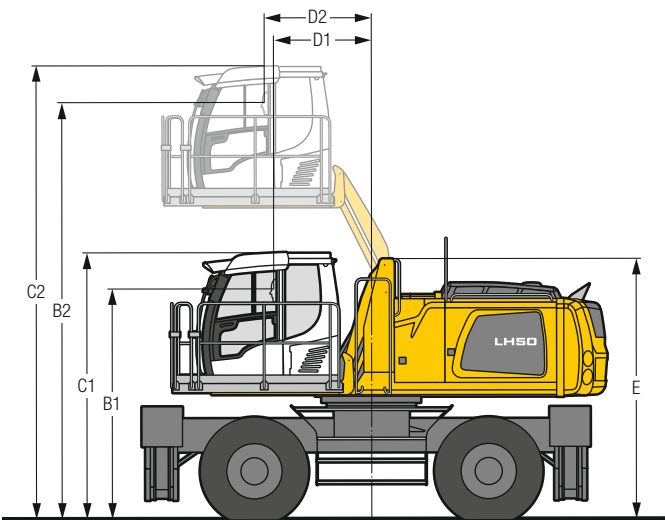
## Cab Elevation LFC (Rigid Elevation)



Increase type	LFC 120
Height	1,200 mm
B	4,347 mm
C	4,850 mm
D	788 mm

A rigid cab elevation has a fixed eye level height. For a lower transport height, the shell of the cab can be removed and replaced by a transport device. The dimension C is in this machine design for all rigid cab elevations 3,954 mm.

## Cab Elevation LHC (Hydraulic Elevation)

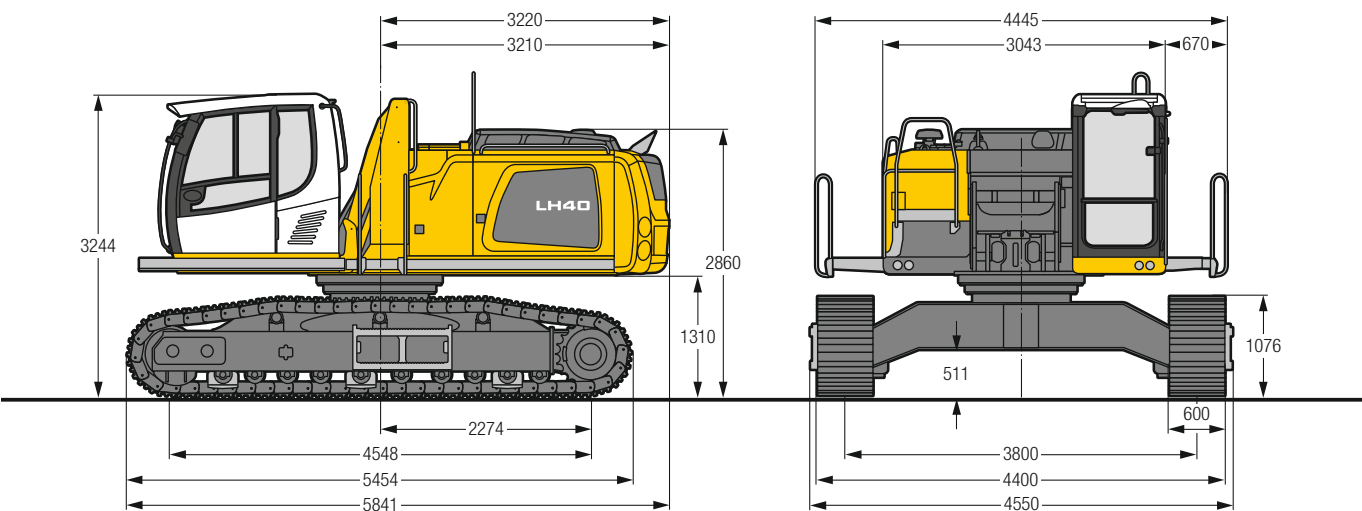


Increase type		LHC 255	LHC 340-35
B1	mm	3,147	3,495
B2	mm	5,694	6,913
C1	mm	3,650	3,998
C2	mm	6,197	7,417
D1	mm	1,343	2,454
D2	mm	1,468	2,456
E	mm	3,552	3,942

The hydraulically adjustable cab allows the driver, that he can choose his field of view freely and at any time within the stroke.

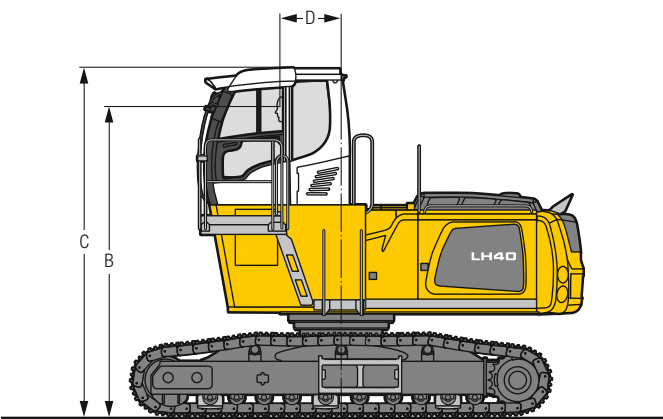
Tyres 16.00-25

# LH 40 C – Dimensions



## LH 40 C – Choice of Cab Elevation

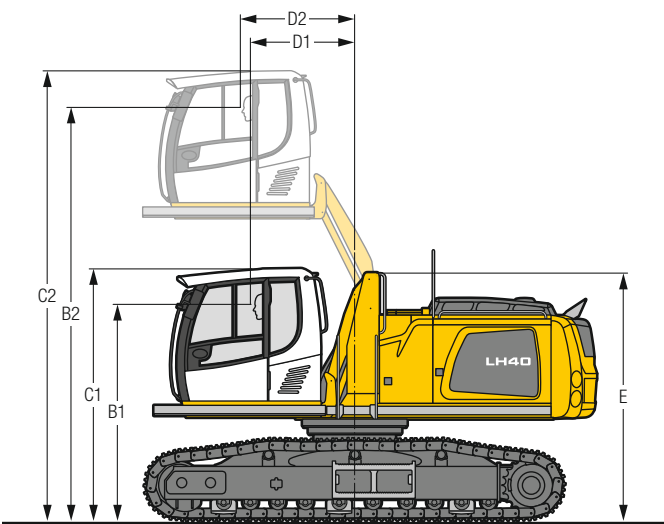
### Cab Elevation LFC (Rigid Elevation)



Increase type	LFC 120
Height	1,200 mm
B	3,980 mm
C	4,483 mm
D	788 mm

A rigid cab elevation has a fixed eye level height. For a lower transport height, the shell of the cab can be removed and replaced by a transport device. The dimension C is in this machine design for all rigid cab elevations 3,587 mm.

### Cab Elevation LHC (Hydraulic Elevation)

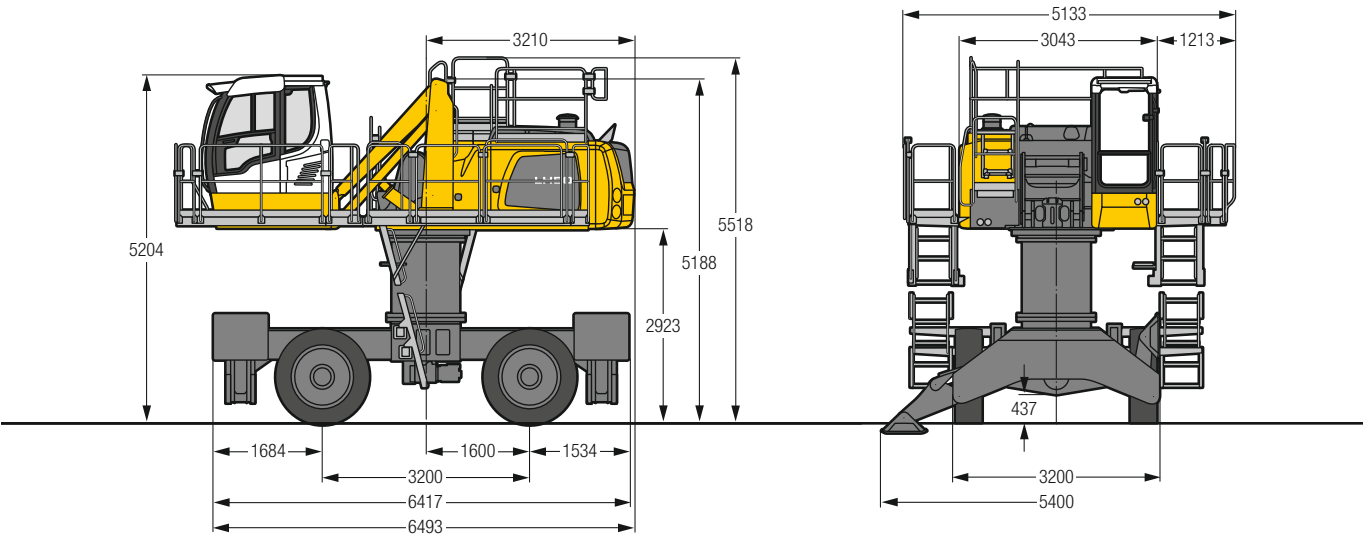


Increase type	LHC 255
B1	2,779 mm
B2	5,326 mm
C1	3,244 mm
C2	5,791 mm
D1	1,343 mm
D2	1,468 mm
E	3,185 mm

The hydraulically adjustable cab allows the driver, that he can choose his field of view freely and at any time within the stroke.

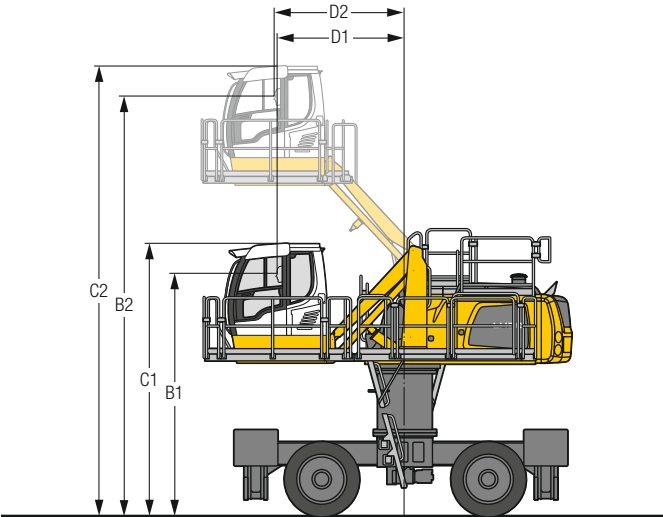


# LH 50 M HR – Dimensions



# LH 50 M HR – Cab Elevation

## Cab Elevation LHC (Hydraulic Elevation)

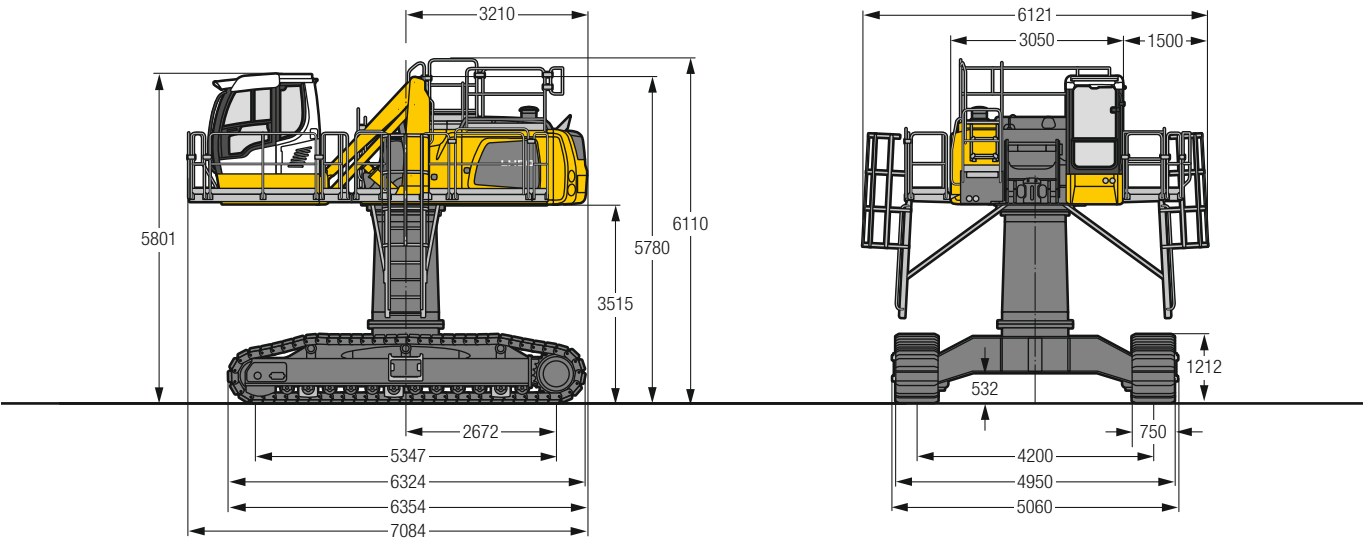


Increase type	LHC 340-35
B1	4,663 mm
B2	8,080 mm
C1	5,204 mm
C2	8,621 mm
D1	2,442 mm
D2	2,484 mm

The hydraulically adjustable cab allows the driver, that he can choose his field of view freely and at any time within the stroke.

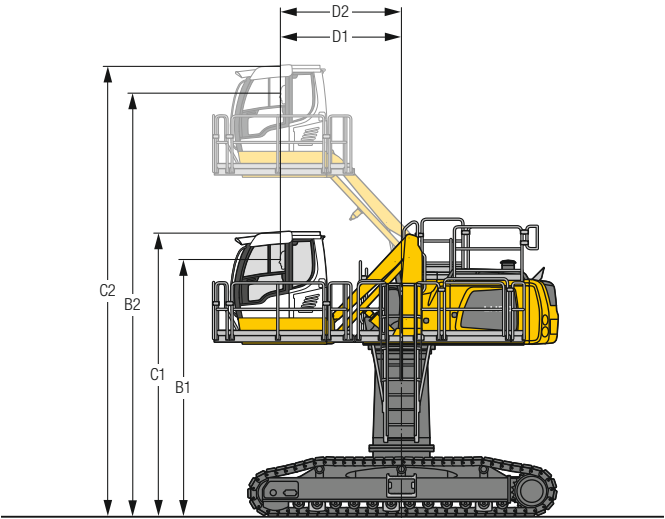
Tyres 16.00-25

# LH 50 C HR – Dimensions



# LH 50 C HR – Cab Elevation

## Cab Elevation LHC (Hydraulic Elevation)



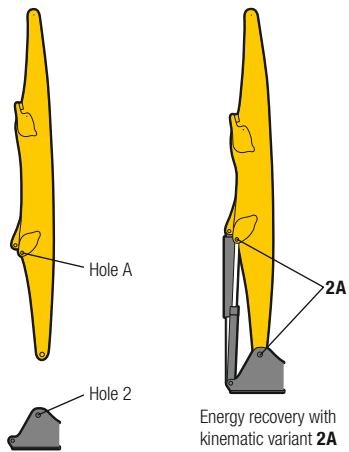
Increase type	LHC 340-35
B1	5,258 mm
B2	8,673 mm
C1	5,801 mm
C2	9,216 mm
D1	2,484 mm
D2	2,485 mm

The hydraulically adjustable cab allows the driver, that he can choose his field of view freely and at any time within the stroke.

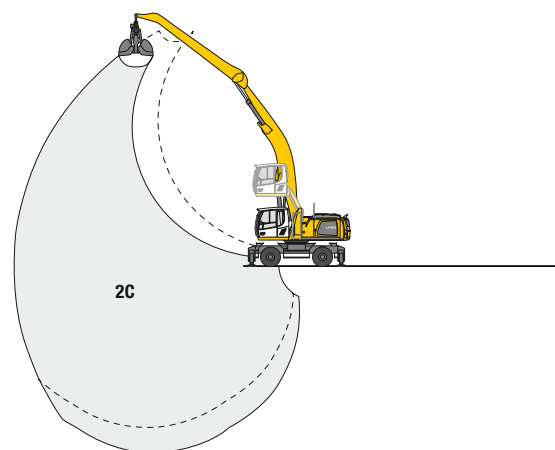
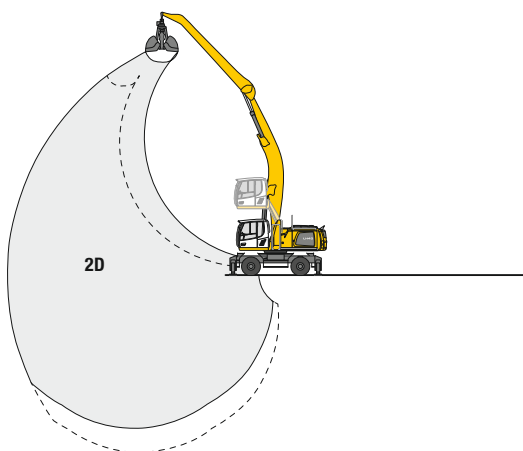
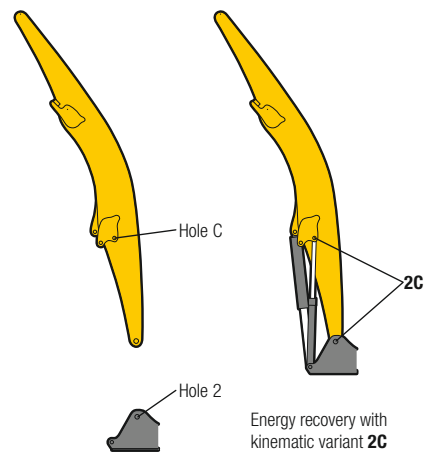
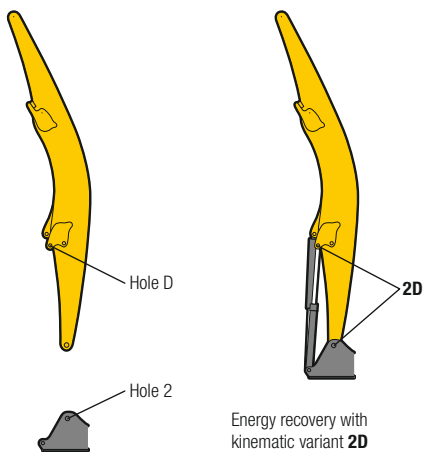


# Kinematic Variants

## Kinematic Variant 2A



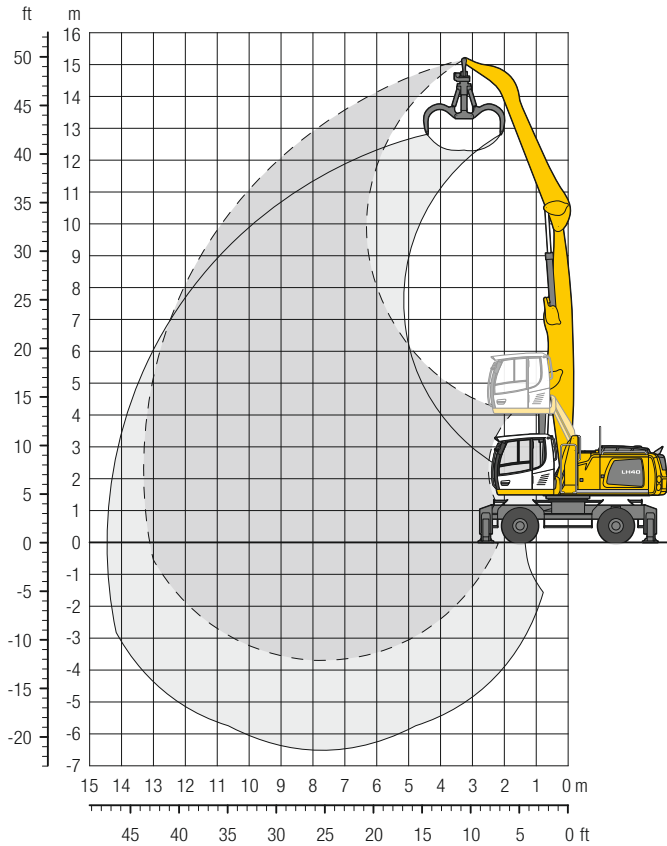
## Kinematic Variant 2D/2C



Altered range curve with additional reach depth, e.g. for unloading from ships

# LH 40 M – Equipment GA13

## Industry – Kinematic 2A

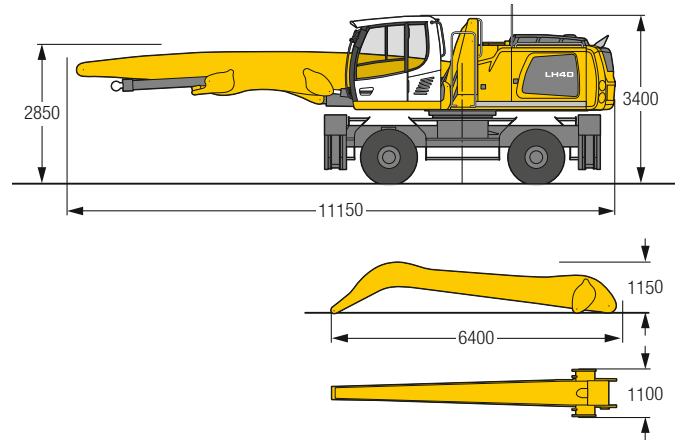


### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 8 solid tyres plus intermediate rings, straight boom 7.60 m, angled stick 6.00 m and multi-tine grab GM 70C/0.80 m³ semi-closed tines.

Weight 38,200 kg

### Dimensions



		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		15.0 m		16.5 m		18.0 m			
m	Undercarriage																						m
15.0	Stabilizers raised																					9.7*	9.7*
	4 pt. outriggers down																					9.7*	9.7*
13.5	Stabilizers raised			8.8*	8.8*																	6.7*	6.7*
	4 pt. outriggers down			8.8*	8.8*																	6.7*	6.7*
12.0	Stabilizers raised			9.6	9.8*	6.6	8.4	4.7	6.0*													4.6	5.8*
	4 pt. outriggers down			9.8*	9.8*	8.6*	8.6*	6.0*	6.0*													5.8*	5.8*
10.5	Stabilizers raised					6.7	8.4*	4.9	6.3													3.6	4.7
	4 pt. outriggers down					8.4*	8.4*	7.5*	7.5*													5.3*	5.3*
9.0	Stabilizers raised					6.7	8.3*	4.9	6.3	3.7	4.8											3.0	4.0
	4 pt. outriggers down					8.3*	8.3*	7.5*	7.5*	6.8*	6.8*											5.0*	5.0*
7.5	Stabilizers raised			9.4	9.8*	6.6	8.4	4.8	6.2	3.7	4.7	2.8	3.7									2.7	3.5
	4 pt. outriggers down			9.8*	9.8*	8.5*	8.5*	7.6*	7.6*	6.8*	6.8*	5.8*	5.8*									4.9*	4.9*
6.0	Stabilizers raised			9.0	10.4*	6.3	8.1	4.7	6.0	3.6	4.6	2.8	3.7									2.4	3.2
	4 pt. outriggers down			10.4*	10.4*	8.9*	8.9*	7.8*	7.8*	6.9*	6.9*	5.8	6.2*									4.8*	4.8*
4.5	Stabilizers raised	13.0	14.3*	8.3	10.9	5.9	7.7	4.4	5.8	3.4	4.5	2.7	3.6									2.3	3.1
	4 pt. outriggers down	14.3*	14.3*	11.2*	11.2*	9.3*	9.3*	8.0*	8.0*	7.0*	7.0*	5.7	6.2*									4.8*	4.8*
3.0	Stabilizers raised	11.4	15.5	7.5	10.0	5.5	7.2	4.2	5.5	3.3	4.3	2.6	3.5									2.2	2.9
	4 pt. outriggers down	16.1*	16.1*	12.1*	12.1*	9.8*	9.8*	8.2*	8.2*	6.9	7.1*	5.6	6.1*									4.8	4.9*
1.5	Stabilizers raised	10.0	13.9	6.8	9.2	5.0	6.7	3.9	5.2	3.1	4.2	2.5	3.4									2.1	2.9
	4 pt. outriggers down	16.9*	16.9*	12.8*	12.8*	10.1*	10.1*	8.4*	8.4*	6.7	7.1*	5.5	6.0*									4.8	4.8*
0	Stabilizers raised	9.1	9.5*	6.3	8.6	4.7	6.4	3.7	5.0	3.0	4.0	2.4	3.3									2.1	2.9
	4 pt. outriggers down	9.5*	9.5*	12.8*	12.8*	10.1*	10.1*	8.2	8.3*	6.6	6.9*	5.4	5.6*									4.3*	4.3*
-1.5	Stabilizers raised	8.7	9.0*	6.0	8.3	4.5	6.1	3.5	4.8	2.9	3.9	2.4	3.3									2.3	3.2
	4 pt. outriggers down	9.0*	9.0*	12.0*	12.0*	9.6*	9.6*	7.8*	7.8*	6.3*	6.3*	4.8*	4.8*									4.4*	4.4*
-3.0	Stabilizers raised			5.8	8.2	4.4	6.0	3.5	4.7	2.8	3.9											2.8	3.9
	4 pt. outriggers down			10.3*	10.3*	8.4*	8.4*	6.8*	6.8*	5.3*	5.3*											5.2*	5.2*

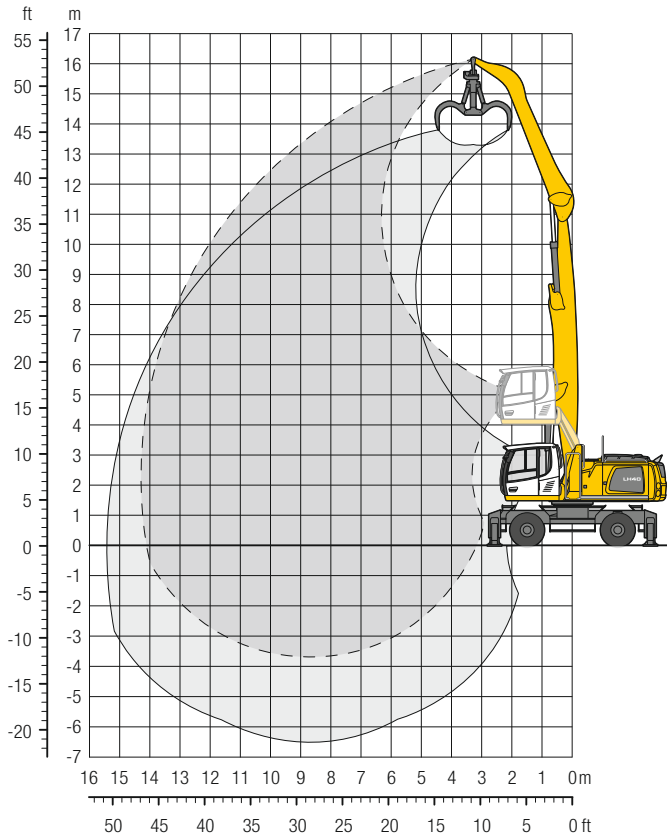
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

# LH 40 M – Equipment GA14

## Industry – Kinematic 2A

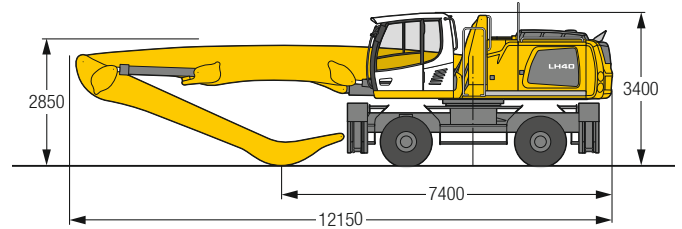


### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 8 solid tyres plus intermediate rings, straight boom 8.60 m, angled stick 6.00 m and multi-tine grab GM 70C/0.80 m³ semi-closed tines.

Weight	38,500 kg
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### Dimensions



		4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	18.0 m		
m	Undercarriage												m
15.0	Stabilizers raised		8.2* 8.2*									7.3* 7.3*	6.4
	4 pt. outriggers down		8.2* 8.2*									7.3* 7.3*	
13.5	Stabilizers raised		9.5 9.8*	6.5 8.3								4.8 6.1*	8.8
	4 pt. outriggers down		9.8* 9.8*	8.4* 8.4*								6.1* 6.1*	
12.0	Stabilizers raised			6.7 8.2*	4.8 6.2							3.5 4.6	10.5
	4 pt. outriggers down			8.2* 8.2*	7.3* 7.3*							5.5* 5.5*	
10.5	Stabilizers raised			6.7 8.1*	4.9 6.3	3.6 4.7						2.9 3.8	11.7
	4 pt. outriggers down			8.1* 8.1*	7.2* 7.2*	6.5* 6.5*						5.1* 5.1*	
9.0	Stabilizers raised			6.6 8.2*	4.8 6.2	3.6 4.7	2.7 3.7					2.4 3.3	12.6
	4 pt. outriggers down			8.2* 8.2*	7.2* 7.2*	6.5* 6.5*	5.8 5.8*					4.9* 4.9*	
7.5	Stabilizers raised		9.2 10.0*	6.4 8.2	4.7 6.0	3.5 4.6	2.7 3.6					2.1 2.9	13.3
	4 pt. outriggers down		10.0* 10.0*	8.5* 8.5*	7.4* 7.4*	6.5* 6.5*	5.8 5.8*					4.8 4.8*	
6.0	Stabilizers raised	12.8* 12.8*	8.5 10.6*	6.0 7.8	4.4 5.8	3.4 4.5	2.6 3.5	2.1 2.8				1.9 2.7	13.8
	4 pt. outriggers down	12.8* 12.8*	10.6* 10.6*	8.8* 8.8*	7.6* 7.6*	6.6* 6.6*	5.7 5.9*	4.6 5.2*				4.5 4.8*	
4.5	Stabilizers raised	11.8 15.0*	7.7 10.2	5.5 7.3	4.1 5.5	3.2 4.3	2.5 3.4	2.0 2.8				1.8 2.5	14.1
	4 pt. outriggers down	15.0* 15.0*	11.4* 11.4*	9.2* 9.2*	7.8* 7.8*	6.7* 6.7*	5.6 5.9*	4.6 5.1*				4.2 4.7*	
3.0	Stabilizers raised	9.9 13.9	6.8 9.2	5.0 6.7	3.8 5.1	3.0 4.1	2.4 3.3	1.9 2.7				1.7 2.5	14.3
	4 pt. outriggers down	15.0* 15.0*	12.0* 12.0*	9.6* 9.6*	8.0* 8.0*	6.6 6.8*	5.4 5.9*	4.5 5.0*				4.1 4.4*	
1.5	Stabilizers raised	5.5* 5.5*	6.0 8.4	4.5 6.2	3.5 4.8	2.8 3.9	2.3 3.2	1.9 2.6				1.7 2.4	14.3
	4 pt. outriggers down	5.5* 5.5*	12.3* 12.3*	9.7* 9.7*	8.0* 8.0*	6.4 6.8*	5.3 5.8*	4.4 4.8*				4.1 4.1*	
0	Stabilizers raised	5.0* 5.0*	5.5 7.9	4.2 5.9	3.3 4.6	2.7 3.7	2.2 3.1	1.8 2.6				1.7 2.4	14.1
	4 pt. outriggers down	5.0* 5.0*	12.0* 12.0*	9.6* 9.6*	7.8 7.8*	6.2 6.6*	5.2 5.5*	4.4* 4.4*				3.7* 3.7*	
-1.5	Stabilizers raised	5.8* 5.8*	5.3 7.6	4.0 5.6	3.1 4.4	2.6 3.6	2.1 3.0					1.8 2.6	13.4
	4 pt. outriggers down	5.8* 5.8*	10.9* 10.9*	8.9* 8.9*	7.3* 7.3*	6.1* 6.1*	4.9* 4.9*					3.7* 3.7*	
-3.0	Stabilizers raised		5.2 7.5	3.9 5.5	3.1 4.4	2.5 3.6						2.2 3.2	11.5
	4 pt. outriggers down		9.0* 9.0*	7.7* 7.7*	6.4* 6.4*	5.2* 5.2*						4.4* 4.4*	

Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

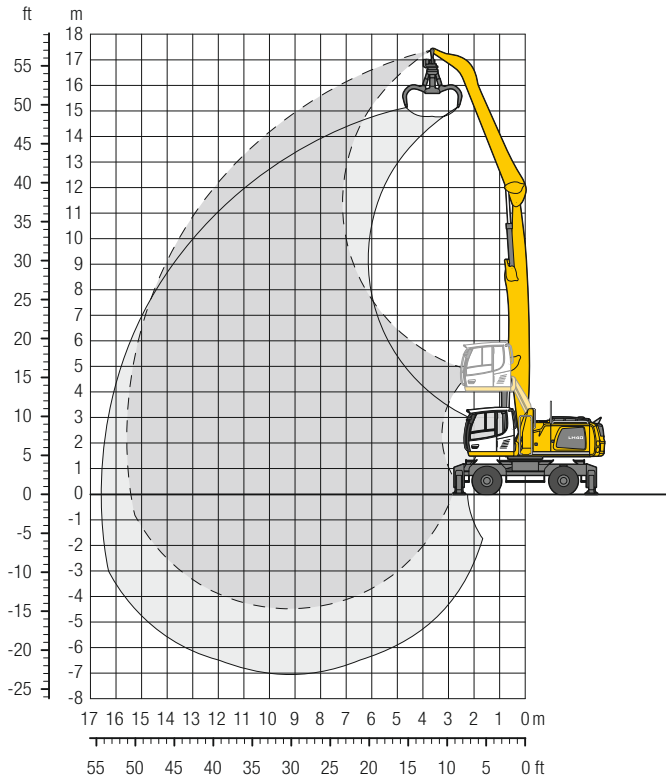
The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.



# LH 40 M – Equipment GA16

## Industry – Kinematic 2A

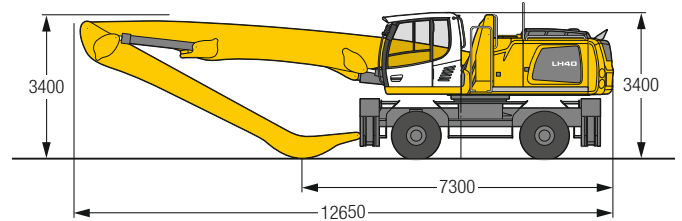


### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 8 solid tyres plus intermediate rings, straight boom 9.10 m, angled stick 6.80 m and multi-tine grab GM 65/0.60 m<sup>3</sup> semi-closed tines.

Weight	38,500 kg
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### Dimensions



		4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	18.0 m		
m	Undercarriage												m
16.5	Stabilizers raised		7.4*	7.4*								7.0*	6.2
	4 pt. outriggers down		7.4*	7.4*								7.0*	
15.0	Stabilizers raised			6.6	7.6*							4.7	8.9
	4 pt. outriggers down			7.0	7.6*							5.6*	
13.5	Stabilizers raised			7.1	7.7*	5.1	6.5	3.8	4.9			3.4	10.8
	4 pt. outriggers down			7.9*	7.9*	6.9*	6.9*	5.5*	5.5*			4.9*	
12.0	Stabilizers raised			7.7*	7.7*	6.8*	6.8*	6.1*	6.1*			2.7	12.2
	4 pt. outriggers down			7.7*	7.7*	6.8*	6.8*	6.1*	6.1*			4.6*	
10.5	Stabilizers raised			7.0	7.7*	5.1	6.5	3.8	4.9			2.2	13.2
	4 pt. outriggers down			7.7*	7.7*	6.8*	6.8*	6.1*	6.1*			4.3*	
9.0	Stabilizers raised			6.9	7.9*	5.0	6.4	3.7	4.8	2.8	3.8	1.9	14.0
	4 pt. outriggers down			7.9*	7.9*	6.9*	6.9*	6.1*	6.1*	5.5*	5.5*	4.2*	
7.5	Stabilizers raised		9.5	9.6*	6.6	8.1*	4.8	6.2	3.6	4.7	2.8	2.1	14.7
	4 pt. outriggers down		9.6*	9.6*	8.1*	8.1*	7.0*	7.0*	6.2*	6.2*	5.5*	4.7	
6.0	Stabilizers raised	9.9*	9.9*	8.8	10.2*	6.1	7.9	4.5	5.9	3.4	4.5	2.6	15.1
	4 pt. outriggers down	9.9*	9.9*	10.2*	10.2*	8.4*	8.4*	7.2*	7.2*	6.3*	6.3*	5.6*	
4.5	Stabilizers raised	12.1	14.4*	7.8	10.3	5.5	7.3	4.1	5.5	3.2	4.3	2.5	15.4
	4 pt. outriggers down	14.4*	14.4*	10.9*	10.9*	8.8*	8.8*	7.4*	7.4*	6.4*	6.4*	5.5	
3.0	Stabilizers raised	10.0	14.0	6.8	9.2	4.9	6.7	3.7	5.1	2.9	4.0	2.3	15.6
	4 pt. outriggers down	15.7*	15.7*	11.6*	11.6*	9.2*	9.2*	7.6*	7.6*	6.5*	6.5*	5.3	
1.5	Stabilizers raised	5.0*	5.0*	5.8	8.2	4.4	6.1	3.4	4.7	2.7	3.7	2.1	15.6
	4 pt. outriggers down	5.0*	5.0*	11.9*	11.9*	9.4*	9.4*	7.7*	7.7*	6.3	6.5*	5.2	
0	Stabilizers raised	4.2*	4.2*	5.2	7.5	3.9	5.6	3.1	4.4	2.5	3.5	2.0	15.4
	4 pt. outriggers down	4.2*	4.2*	11.5*	11.5*	9.3*	9.3*	7.6	7.6*	6.1	6.4*	5.0	
-1.5	Stabilizers raised	4.7*	4.7*	4.8	7.1	3.6	5.3	2.9	4.2	2.3	3.4	1.9	14.8
	4 pt. outriggers down	4.7*	4.7*	9.7*	9.7*	8.8*	8.8*	7.2*	7.2*	5.9	6.1*	4.9	
-3.0	Stabilizers raised			4.7	7.0	3.5	5.1	2.7	4.0	2.2	3.3	1.8	13.5
	4 pt. outriggers down			9.3*	9.3*	7.8*	7.8*	6.5*	6.5*	5.4*	5.4*	4.5*	
-4.5	Stabilizers raised												
	4 pt. outriggers down												

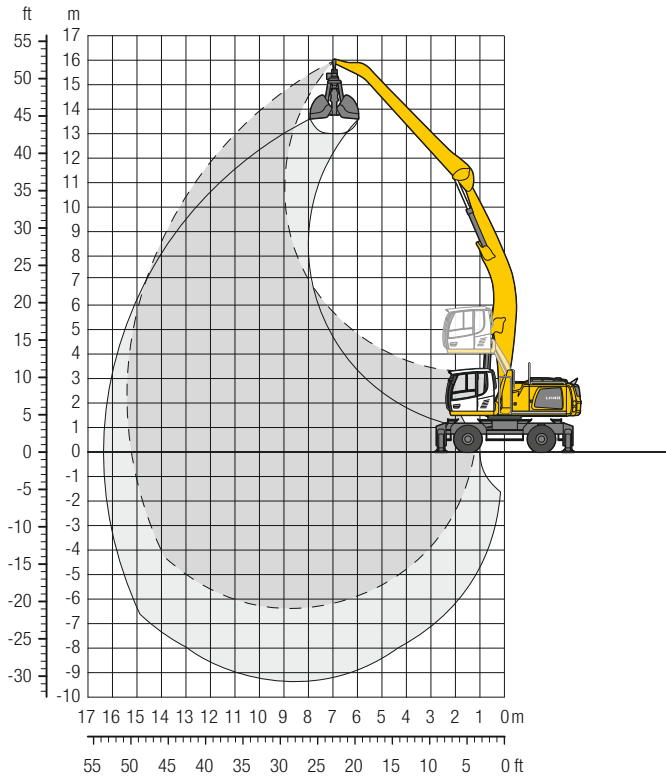
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

# LH 40 M – Equipment AF15

## Industry – Kinematic 2D

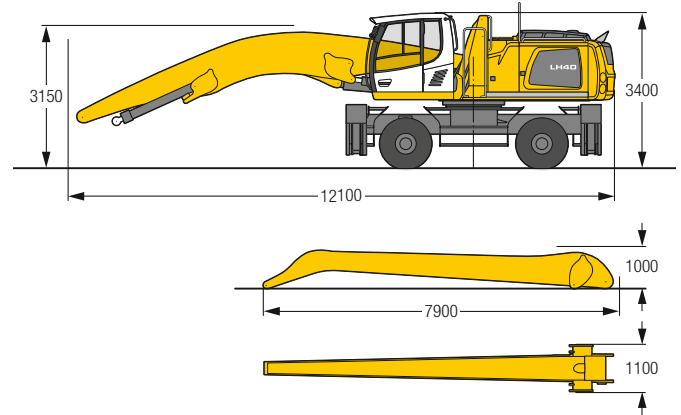


### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 8 solid tyres plus intermediate rings, angled boom 8.60 m, flat angled stick 7.50 m and grab for loose material GMZ 40/1.50 m<sup>3</sup>.

Weight 39,100 kg

### Dimensions



		4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	18.0 m		
m	Undercarriage												m
15.0	Stabilizers raised											4.7*	8.6
	4 pt. outriggers down											4.7*	
13.5	Stabilizers raised				5.4	5.9*						3.9	10.5
	4 pt. outriggers down				5.9*	5.9*						4.2*	
12.0	Stabilizers raised				5.5	5.7*	4.1	5.2				3.1	11.9
	4 pt. outriggers down				5.7*	5.7*	5.3*	5.3*				4.0*	
10.5	Stabilizers raised				5.5	5.7*	4.1	5.2*				2.5	13.0
	4 pt. outriggers down				5.7*	5.7*	5.2*	5.2*	4.9*	4.9*		3.8*	
9.0	Stabilizers raised				5.5	5.8*	4.1	5.2	3.1	4.0	2.3	3.1	13.8
	4 pt. outriggers down				5.8*	5.8*	5.3*	5.3*	4.9*	4.9*	4.3*	4.3*	
7.5	Stabilizers raised				5.3	5.9*	4.0	5.1	3.0	3.9	2.3	3.1	14.5
	4 pt. outriggers down				5.9*	5.9*	5.4*	5.4*	4.9*	4.9*	4.5*	4.5*	
6.0	Stabilizers raised			6.8	7.0*	5.0	6.2*	3.8	2.9	3.8	2.2	3.0	14.9
	4 pt. outriggers down			7.0*	7.0*	6.2*	6.2*	5.5*	5.0*	5.0*	4.6*	4.6*	
4.5	Stabilizers raised		9.0*	9.0*	6.3	7.5*	4.6	6.0	2.7	3.6	2.1	2.9	15.2
	4 pt. outriggers down		9.0*	9.0*	6.5*	7.5*	6.5*	5.7*	5.1*	5.1*	4.6*	4.6*	
3.0	Stabilizers raised	12.1	13.1*	7.9	9.9*	5.6	7.4	4.2	2.5	3.4	2.0	2.8	15.3
	4 pt. outriggers down	13.1*	13.1*	9.9*	9.9*	8.0*	8.0*	6.8*	5.2*	5.2*	4.6	4.7*	
1.5	Stabilizers raised	10.0	14.0	6.8	9.2	5.0	6.7	3.8	2.3	3.2	1.9	2.6	15.3
	4 pt. outriggers down	14.7*	14.7*	10.7*	10.7*	8.5*	8.5*	7.1*	5.3*	5.3*	4.5	4.7*	
0	Stabilizers raised	8.4	9.0*	5.9	8.3	4.4	6.1	3.4	2.2	3.1	1.7	2.5	15.2
	4 pt. outriggers down	9.0*	9.0*	11.3*	11.3*	8.9*	8.9*	7.3*	5.2	5.4*	4.3	4.7*	
-1.5	Stabilizers raised	7.5*	7.5*	5.2	7.6	3.9	5.6	3.1	2.0	2.9	1.6	2.4	14.9
	4 pt. outriggers down	7.5*	7.5*	11.4*	11.4*	9.0*	9.0*	7.4*	5.0	5.3*	4.2	4.5*	
-3.0	Stabilizers raised	7.1	7.4*	4.9	7.2	3.7	5.3	2.9	1.9	2.8	1.6	2.4	14.4
	4 pt. outriggers down	7.4*	7.4*	11.0*	11.0*	8.8*	8.8*	7.2*	4.9	5.1*	4.2	4.2*	
-4.5	Stabilizers raised	7.0	7.9*	4.7	7.0	3.5	5.2	2.8	1.9	2.8	1.6	2.4	13.6
	4 pt. outriggers down	7.9*	7.9*	10.0*	10.0*	8.1*	8.1*	6.7*	4.6*	4.6*	3.5*	3.5*	
-6.0	Stabilizers raised				3.5	5.2	2.7	4.0	2.2	3.3			11.0
	4 pt. outriggers down				7.0*	7.0*	5.8*	5.8*	4.7*	4.7*			

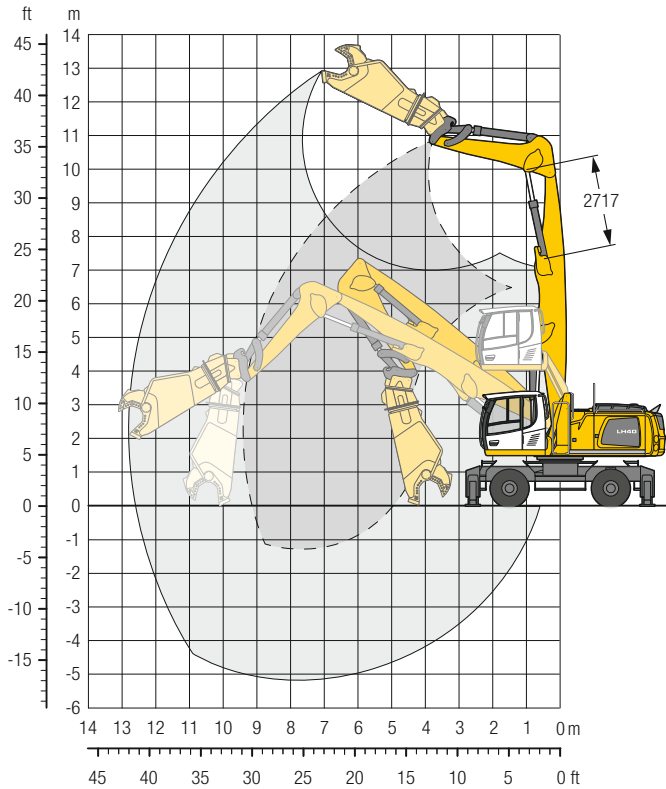
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

# LH 40 M – Equipment GS11

## Industry – Kinematic 2A



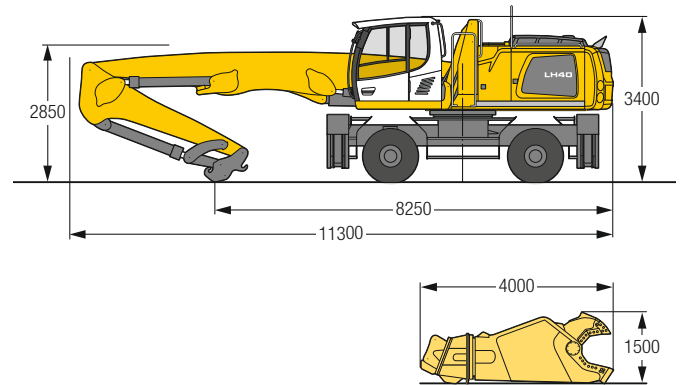
### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 8 solid tyres plus intermediate rings, straight boom 7.60 m, stick HD with tipping kinematics special 3.60 m, quick coupler SWA 66 and scrap shear Genesis GXT 445R.

Weight 43,100 kg

The stick cylinder must be limited to the measure of 2,717 mm.

### Dimensions



		4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	18.0 m			
m	Undercarriage													m
13.5	Stabilizers raised													
	4 pt. outriggers down													
12.0	Stabilizers raised			4.1*	4.1*							3.0	3.5*	8.3
	4 pt. outriggers down			4.1*	4.1*							3.5*	3.5*	
10.5	Stabilizers raised				2.1	2.9*						1.2	2.5*	9.8
	4 pt. outriggers down				2.9*	2.9*						2.5*	2.5*	
9.0	Stabilizers raised				2.1	2.9*	0.5	1.7				0.2	1.3	10.9
	4 pt. outriggers down				2.9*	2.9*	2.1*	2.1*				1.9*	1.9*	
7.5	Stabilizers raised			4.0*	4.0*	1.9	2.9*	0.4	1.6			—	0.6	11.7
	4 pt. outriggers down			4.0*	4.0*	2.9*	2.9*	2.1*	2.1*			1.5*	1.5*	
6.0	Stabilizers raised			3.7	4.1*	1.6	3.0*	0.2	1.4	—	0.2	—	—	
	4 pt. outriggers down			4.1*	4.1*	3.0*	3.0*	2.1*	2.1*	1.4*	1.4*	—	—	
4.5	Stabilizers raised			3.0	4.3*	1.1	2.6	—	1.1	—	0.0	—	—	
	4 pt. outriggers down			3.9*	4.3*	3.1*	3.1*	2.1*	2.1*	1.3*	1.3*	—	—	
3.0	Stabilizers raised	2.7*	2.7*	4.7	6.5*	2.1	4.0	0.6	2.0	—	0.7	—	—	
	4 pt. outriggers down	2.7*	2.7*	6.5*	6.5*	4.5*	4.5*	3.1*	3.1*	2.1*	2.1*	1.3*	1.3*	12.8
1.5	Stabilizers raised	6.5	10.4*	3.1	5.6	1.2	3.0	0.0	1.4	—	0.3	—	—	
	4 pt. outriggers down	10.4*	10.4*	6.8*	6.8*	4.6*	4.6*	3.1*	3.1*	2.0*	2.0*	1.1*	1.1*	12.8
0	Stabilizers raised	4.0	7.5*	1.8	4.2	0.4	2.2	—	0.9	—	—	—	—	
	4 pt. outriggers down	7.5*	7.5*	6.7*	6.7*	4.5*	4.5*	3.0*	3.0*	1.8*	1.8*	0.9*	0.9*	12.6
-1.5	Stabilizers raised	2.5	4.1*	0.8	3.2	—	1.5	—	0.4	—	—	—	—	
	4 pt. outriggers down	4.1*	4.1*	6.1*	6.1*	4.0*	4.0*	2.6*	2.6*	1.4*	1.4*	0.4*	0.4*	12.2
-3.0	Stabilizers raised	1.9	4.5*	0.3	2.6	—	1.1	—	0.2	—	—	—	—	
	4 pt. outriggers down	4.5*	4.5*	4.9*	4.9*	3.2*	3.2*	1.9*	1.9*	0.7*	0.7*	—	—	11.6
-4.5	Stabilizers raised	—	—	0.1	2.4	—	0.9	—	—	—	—	—	—	
	4 pt. outriggers down	—	—	3.0*	3.0*	1.8*	1.8*	0.7*	0.7*	—	—	—	—	10.6

Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

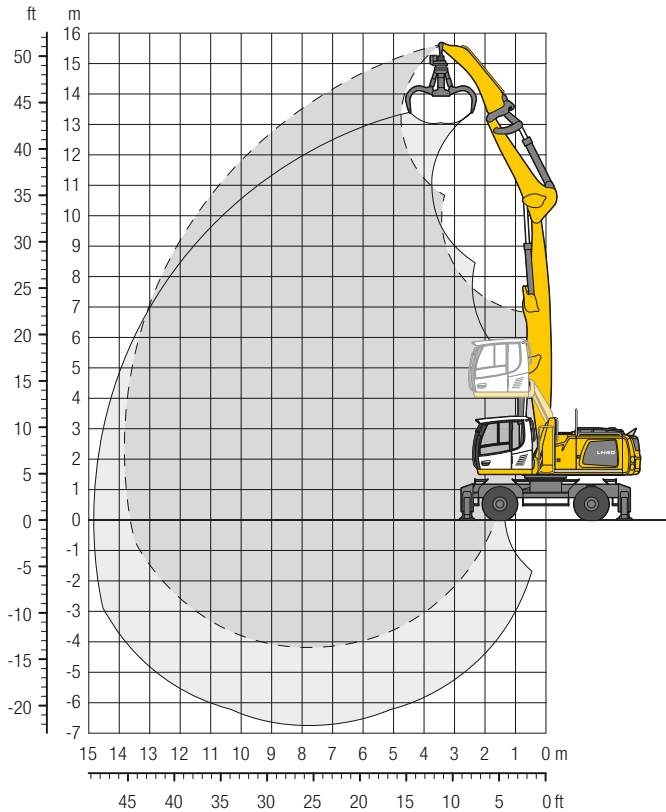
The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. The values are calculated for the static state of the energy recovery cylinder. The maximum lift capacity for the quick coupler's load hook is 12 t. Without attachment the lift capacity will increase by 5,000 kg and without quick coupler, tipping cylinder, lever and connection link by an additional 1,413 kg. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.



# LH 40 M – Equipment GSV14

## Industry – Kinematic 2A

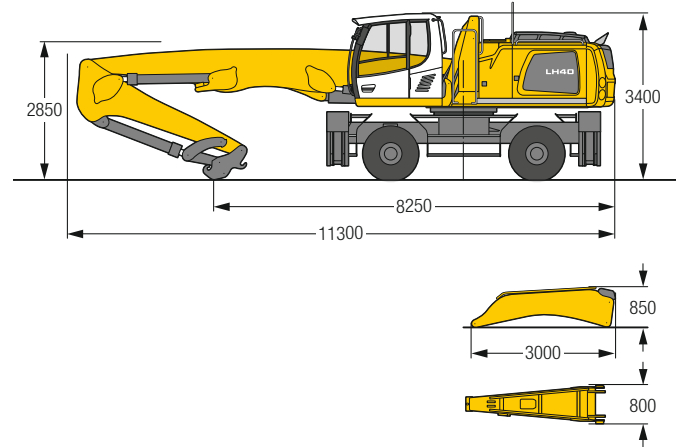


### Operating Weight


The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 8 solid tyres plus intermediate rings, straight boom 7.60 m, stick HD with tipping kinematics special 3.60 m, quick coupler SWA 66, stick extension 2.70 m and multi-tine grab GM 65/ 0.60 m³ semi-closed tines.

Weight	40,200 kg
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### Dimensions



		4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	18.0 m		
m	Undercarriage												m
15.0	Stabilizers raised	8.5*	8.5*									7.1*	7.1*
	4 pt. outriggers down	8.5*	8.5*									7.1*	7.1*
13.5	Stabilizers raised		8.2*	8.2*	5.7	6.3*						4.9	5.3*
	4 pt. outriggers down		8.2*	8.2*	6.3*	6.3*						5.3*	5.3*
12.0	Stabilizers raised				6.1	7.3*	4.0	5.4				3.2	4.4
	4 pt. outriggers down				7.3*	7.3*	6.1*	6.1*				4.5*	4.5*
10.5	Stabilizers raised				6.3	7.1*	4.2	5.6	2.8	3.9		2.3	3.3
	4 pt. outriggers down				7.1*	7.1*	6.2*	6.2*	5.5*	5.5*		4.1*	4.1*
9.0	Stabilizers raised				6.2	7.1*	4.2	5.6	2.8	3.9		1.7	2.7
	4 pt. outriggers down				7.1*	7.1*	6.1*	6.1*	5.4*	5.4*		3.8*	3.8*
7.5	Stabilizers raised				6.0	7.2*	4.0	5.4	2.7	3.8		1.4	2.2
	4 pt. outriggers down				7.2*	7.2*	6.2*	6.2*	5.4*	5.4*		3.7*	3.7*
6.0	Stabilizers raised					5.5	7.4	3.7	5.1	2.6	3.7	1.1	1.9
	4 pt. outriggers down					8.9*	8.9*	7.4*	6.3*	6.3*	5.4*	4.7*	4.7*
4.5	Stabilizers raised	10.6*	10.6*	7.6	9.5*	5.0	6.8	3.4	4.8	2.3	3.4	1.6	2.5
	4 pt. outriggers down	10.6*	10.6*	9.5*	9.5*	7.7*	7.7*	6.4*	6.4*	5.5*	5.5*	4.7	4.7*
3.0	Stabilizers raised	10.4	13.7*	6.4	8.9	4.3	6.1	3.0	4.3	2.1	3.2	1.4	2.3
	4 pt. outriggers down	13.7*	13.7*	10.1*	10.1*	8.0*	8.0*	6.6*	6.6*	5.5*	5.5*	4.5	4.7*
1.5	Stabilizers raised	8.2	12.1	5.3	7.7	3.6	5.4	2.6	3.9	1.8	2.9	1.3	2.2
	4 pt. outriggers down	14.6*	14.6*	10.6*	10.6*	8.2*	8.2*	6.6*	6.6*	5.5	5.5*	4.3	4.5*
0	Stabilizers raised	6.7	10.5	4.4	6.8	3.1	4.8	2.2	3.5	1.6	2.7	1.1	2.0
	4 pt. outriggers down	10.7*	10.7*	10.6*	10.6*	8.2*	8.2*	6.5*	6.5*	5.2	5.3*	4.2	4.2*
-1.5	Stabilizers raised	6.0	8.9*	3.9	6.2	2.7	4.4	2.0	3.3	1.4	2.5	1.0	1.9
	4 pt. outriggers down	8.9*	8.9*	10.0*	10.0*	7.7*	7.7*	6.1*	6.1*	4.9*	4.9*	3.6*	3.6*
-3.0	Stabilizers raised	5.7	9.3*	3.6	5.9	2.5	4.2	1.8	3.1	1.3	2.4	1.1	2.1
	4 pt. outriggers down	9.3*	9.3*	8.5*	8.5*	6.7*	6.7*	5.3*	5.3*	4.0*	4.0*	3.1*	3.1*

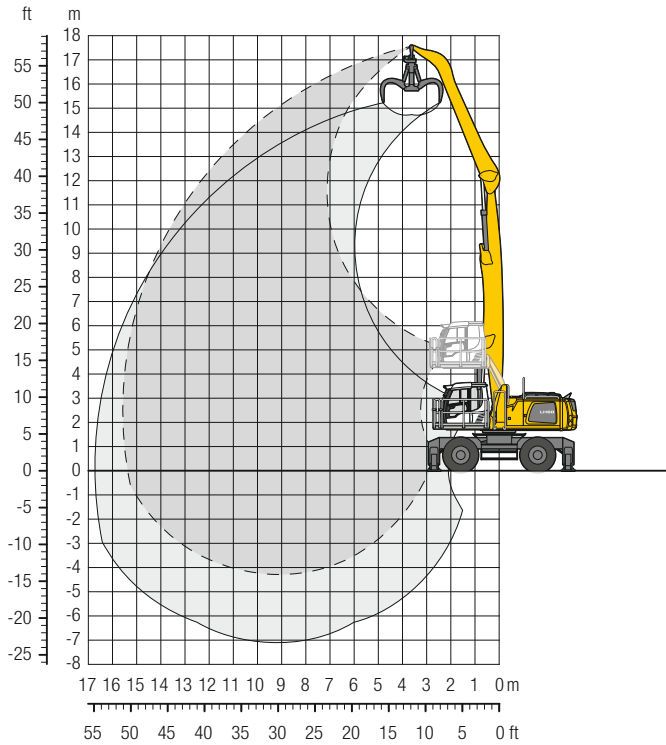
 Height  Can be slewed through 360°  In longitudinal position of undercarriage  Max. reach \* Limited by hydr. capacity

The lift capacities on the end of the stick extension without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

# LH 50 M – Equipment GA16

## Industry – Kinematic 2A

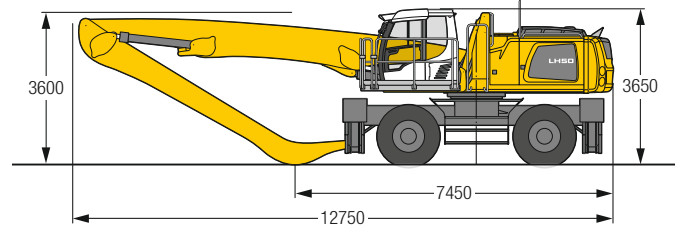


### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tyres, straight boom 9.10 m, angled stick 6.80 m and multi-tine grab GM 70C/1.10 m<sup>3</sup> semi-closed tines.

Weight	44,000 kg
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### Dimensions



		4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	18.0 m		
m	Undercarriage												m
18.0	Stabilizers raised												
	4 pt. outriggers down												
16.5	Stabilizers raised		7.8*	7.8*								6.6*	6.6*
	4 pt. outriggers down		7.8*	7.8*								6.6*	6.6*
15.0	Stabilizers raised			7.8*	7.8*	6.0	6.0*					5.4*	5.4*
	4 pt. outriggers down			7.8*	7.8*	6.0*	6.0*					5.4*	5.4*
13.5	Stabilizers raised			8.4*	8.4*	6.3	7.4*	4.7	6.0*			4.2	4.8*
	4 pt. outriggers down			8.4*	8.4*	7.4*	7.4*	6.0*	6.0*			4.8*	4.8*
12.0	Stabilizers raised			8.3*	8.3*	6.4	7.3*	4.8	6.2			3.4	4.5
	4 pt. outriggers down			8.3*	8.3*	7.3*	7.3*	6.6*	6.6*			4.5*	4.5*
10.5	Stabilizers raised			8.3*	8.3*	6.4	7.3*	4.8	6.2			2.9	3.9
	4 pt. outriggers down			8.3*	8.3*	7.3*	7.3*	6.6*	6.6*			4.3*	4.3*
9.0	Stabilizers raised			8.4	8.5*	6.2	7.4*	4.8	6.1	3.7	4.8	2.6	3.5
	4 pt. outriggers down			8.5*	8.5*	7.4*	7.4*	6.6*	6.6*	6.0*	5.5*	4.2*	4.2*
7.5	Stabilizers raised					8.1	8.8*	6.0	7.6*	4.6	5.9	2.3	3.2
	4 pt. outriggers down					8.8*	8.8*	7.6*	7.6*	6.8*	6.8*	4.1*	4.1*
6.0	Stabilizers raised	10.5*	10.5*	10.2*	10.2*	8.8*	8.8*	7.6*	7.6*	6.8*	6.8*	2.2	3.0
	4 pt. outriggers down	10.5*	10.5*	11.1*	11.1*	9.2*	9.2*	7.9*	7.9*	6.9*	6.9*	4.1*	4.1*
4.5	Stabilizers raised	14.9	15.8*	9.7	12.0*	7.0	9.1	5.3	6.9	4.2	5.5	2.1	2.8
	4 pt. outriggers down	15.8*	15.8*	12.0*	12.0*	9.7*	9.7*	8.2*	8.2*	7.1*	7.1*	4.2*	4.2*
3.0	Stabilizers raised	11.9*	11.9*	8.7	11.6	6.4	8.5	4.9	6.5	3.9	5.2	2.0	2.8
	4 pt. outriggers down	11.9*	11.9*	12.8*	12.8*	10.1*	10.1*	8.4*	8.4*	7.2*	7.2*	4.3*	4.3*
1.5	Stabilizers raised	4.6*	4.6*	7.8	10.7	5.8	7.9	4.6	6.1	3.7	4.9	2.0	2.9
	4 pt. outriggers down	4.6*	4.6*	13.2*	13.2*	10.4*	10.4*	8.6*	8.6*	7.3*	7.3*	4.1*	4.1*
0	Stabilizers raised	4.2*	4.2*	7.1	10.0	5.4	7.4	4.3	5.8	3.5	4.7	2.0	2.8
	4 pt. outriggers down	4.2*	4.2*	10.9*	10.9*	10.4*	10.4*	8.5*	8.5*	7.2*	7.2*	3.7*	3.7*
-1.5	Stabilizers raised	4.9*	4.9*	6.8	9.6*	5.1	7.2	4.1	5.6	3.3	4.6	2.1	2.9
	4 pt. outriggers down	4.9*	4.9*	9.6*	9.6*	9.9*	9.9*	8.2*	8.2*	6.8*	6.8*	3.7*	3.7*
-3.0	Stabilizers raised			6.7	9.5	5.0	7.0	4.0	5.5	3.2	4.5	2.4	3.4
	4 pt. outriggers down			9.8*	9.8*	8.8*	8.8*	7.4*	7.4*	6.2*	6.2*	4.2*	4.2*
-4.5	Stabilizers raised												
	4 pt. outriggers down												

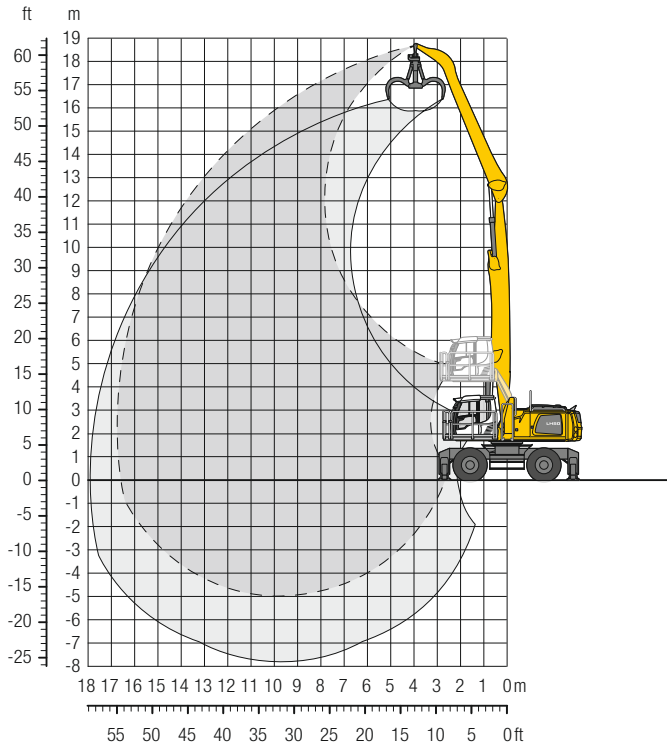
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

# LH 50 M – Equipment GA17

## Industry – Kinematic 2A

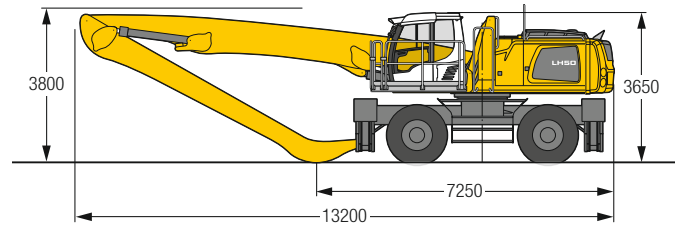


### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tyres, straight boom 9.60 m, angled stick 7.50 m and multi-tine grab GM 70C/0.80 m<sup>3</sup> semi-closed tines.

Weight	44,200 kg
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### Dimensions



		4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	18.0 m		
m	Undercarriage												m
18.0	Stabilizers raised		7.0*	7.0*								6.5*	6.5*
	4 pt. outriggers down		7.0*	7.0*								6.5*	6.5*
16.5	Stabilizers raised			7.1*	7.1*	5.5*	5.5*					5.1*	5.1*
	4 pt. outriggers down			7.1*	7.1*	5.5*	5.5*					5.1*	5.1*
15.0	Stabilizers raised			7.8*	7.8*	6.4	7.0*	4.7	5.6*			4.1	4.5*
	4 pt. outriggers down			7.8*	7.8*	6.4	7.0*	5.6*	5.6*			4.5*	4.5*
13.5	Stabilizers raised				6.5	7.0*	4.9	6.3	3.7	4.8		3.3	4.2*
	4 pt. outriggers down				7.0*	7.0*	6.3*	6.3*	5.3*	5.3*		4.2*	4.2*
12.0	Stabilizers raised				6.6	6.9*	5.0	6.2*	3.8	4.9	2.9	3.9	2.7
	4 pt. outriggers down				6.9*	6.9*	6.2*	6.2*	5.7*	5.7*	4.6*	4.6*	3.9*
10.5	Stabilizers raised				6.5	7.0*	4.9	6.2*	3.8	4.9	3.0	3.9	2.4
	4 pt. outriggers down				7.0*	7.0*	6.2*	6.2*	5.7*	5.7*	5.2*	5.2*	3.8*
9.0	Stabilizers raised			8.1*	8.1*	6.3	7.1*	4.8	6.2	3.8	4.9	3.0	3.9
	4 pt. outriggers down			8.1*	8.1*	7.1*	7.1*	6.3*	5.7*	5.7*	5.2*	5.2*	4.8*
7.5	Stabilizers raised			8.2	8.4*	6.1	7.3*	4.6	6.0	3.6	4.7	2.9	3.8
	4 pt. outriggers down			8.4*	8.4*	7.3*	7.3*	6.5*	5.8*	5.8*	5.2*	5.2*	4.8*
6.0	Stabilizers raised					7.7	8.8*	5.7	7.3	4.4	5.7	3.5	4.6
	4 pt. outriggers down					8.8*	8.8*	7.6*	6.6*	5.9*	5.9*	5.3*	5.3*
4.5	Stabilizers raised	15.1	15.3*	9.8	11.5*	7.0	9.1	5.3	6.9	4.1	5.4	3.3	4.4
	4 pt. outriggers down	15.3*	15.3*	11.5*	11.5*	9.3*	9.3*	7.9*	7.9*	6.8*	6.8*	6.0*	6.0*
3.0	Stabilizers raised	12.3*	12.3*	8.6	11.6	6.3	8.4	4.8	6.5	3.8	5.1	3.1	4.2
	4 pt. outriggers down	12.3*	12.3*	12.3*	12.3*	9.8*	9.8*	8.1*	8.1*	6.9*	6.9*	6.1*	6.1*
1.5	Stabilizers raised	4.1*	4.1*	7.6	10.5	5.7	7.7	4.4	6.0	3.6	4.8	2.9	4.0
	4 pt. outriggers down	4.1*	4.1*	12.8*	12.8*	10.1*	10.1*	8.3*	8.3*	7.0*	7.0*	6.1*	6.1*
0	Stabilizers raised	3.5*	3.5*	6.9	9.2*	5.2	7.2	4.1	5.7	3.3	4.6	2.7	3.8
	4 pt. outriggers down	3.5*	3.5*	9.2*	9.2*	10.1*	10.1*	8.3*	8.3*	7.0*	7.0*	6.0*	6.0*
-1.5	Stabilizers raised	4.0*	4.0*	6.5	7.9*	4.9	6.9	3.9	5.4	3.1	4.4	2.6	3.7
	4 pt. outriggers down	4.0*	4.0*	7.9*	7.9*	9.7*	9.7*	8.0*	8.0*	6.8*	6.8*	5.8*	5.8*
-3.0	Stabilizers raised			6.3	8.0*	4.7	6.7	3.7	5.3	3.0	4.3	2.5	3.6
	4 pt. outriggers down			8.0*	8.0*	8.9*	8.9*	7.4*	7.4*	6.3*	6.3*	5.3*	5.3*
-4.5	Stabilizers raised					4.7	6.6	3.7	5.2	3.0	4.2	2.5	3.6
	4 pt. outriggers down					7.5*	7.5*	6.4*	6.4*	5.4*	5.4*	4.4*	4.4*

Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

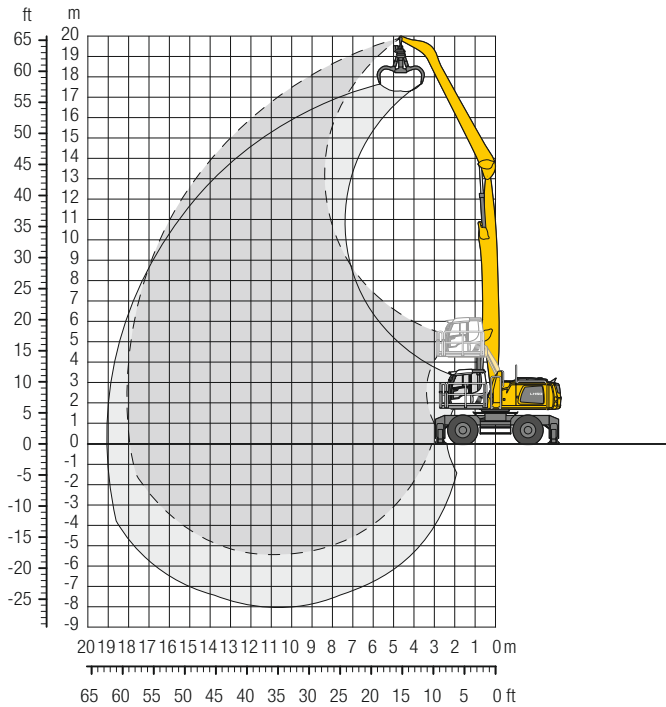
The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.



# LH 50 M – Equipment GA18

## Industry – Kinematic 2A

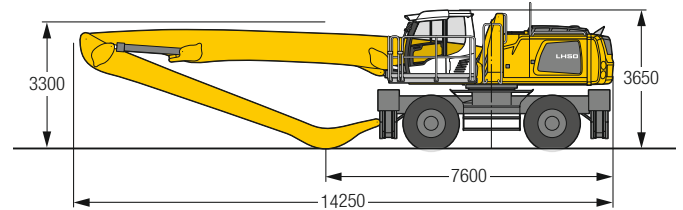


### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tyres, straight boom 10.60 m, angled stick 8.00 m and multi-tine grab GM 65/0.60 m<sup>3</sup> semi-closed tines.

Weight	44,500 kg
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### Dimensions



		4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	18.0 m		
m	Undercarriage												m
19.5	Stabilizers raised		6.2*	6.2*								6.0*	6.0*
	4 pt. outriggers down		6.2*	6.2*								6.0*	6.0*
18.0	Stabilizers raised			6.4*	6.4*	5.1*	5.1*					4.7*	4.7*
	4 pt. outriggers down			6.4*	6.4*	5.1*	5.1*					4.7*	4.7*
16.5	Stabilizers raised				6.3*	6.3*	5.2*	5.2*				3.9*	4.1*
	4 pt. outriggers down				6.3*	6.3*	5.2*	5.2*				4.1*	4.1*
15.0	Stabilizers raised				6.6*	6.7*	5.0*	5.9*				3.0*	3.8*
	4 pt. outriggers down				6.7*	6.7*	5.9*	5.9*				3.8*	3.8*
13.5	Stabilizers raised				6.6*	6.6*	5.8*	5.8*	2.9	3.9		2.4	3.3
	4 pt. outriggers down				6.6*	6.6*	5.8*	5.8*	5.3*	5.3*	4.8*	3.6*	3.6*
12.0	Stabilizers raised				6.6*	6.6*	5.0*	5.8*	3.8	5.0	3.0	2.0	2.8
	4 pt. outriggers down				6.6*	6.6*	5.8*	5.8*	5.2*	5.2*	4.7*	3.5*	3.5*
10.5	Stabilizers raised				6.5	6.7*	4.9	5.9*	3.8	4.9	2.9	1.8	2.5
	4 pt. outriggers down				6.7*	6.7*	5.9*	5.9*	5.2*	5.2*	4.7*	3.4*	3.4*
9.0	Stabilizers raised			7.9*	7.9*	6.3	6.8*	4.7	6.0*	3.6	4.8	1.6	2.3
	4 pt. outriggers down			7.9*	7.9*	6.8*	6.8*	6.0*	6.0*	5.3*	5.3*	3.3*	3.3*
7.5	Stabilizers raised			8.0	8.2*	5.9	7.0*	4.5	5.8	3.5	4.6	1.4	2.1
	4 pt. outriggers down			8.2*	8.2*	7.0*	7.0*	6.1*	6.1*	5.4*	5.4*	3.3*	3.3*
6.0	Stabilizers raised	9.8*	9.8*	10.5	10.6*	7.3	8.5*	5.4	7.1	4.2	5.5	1.3	1.9
	4 pt. outriggers down	9.8*	9.8*	10.6*	10.6*	8.5*	8.5*	7.2*	7.2*	6.2*	6.2*	3.3*	3.3*
4.5	Stabilizers raised	13.9	15.1*	9.1	11.2*	6.5	8.6	4.9	6.5	3.8	5.1	1.2	1.9
	4 pt. outriggers down	15.1*	15.1*	11.2*	11.2*	8.9*	8.9*	7.4*	7.4*	6.3*	6.3*	3.3*	3.3*
3.0	Stabilizers raised	5.2*	5.2*	7.7	10.6	5.7	7.8	4.4	6.0	3.4	4.7	1.2	1.8
	4 pt. outriggers down	5.2*	5.2*	11.7*	11.7*	9.2*	9.2*	7.6*	7.6*	6.4*	6.4*	3.1*	3.1*
1.5	Stabilizers raised	2.6*	2.6*	6.5	8.8*	4.9	7.0	3.9	5.5	3.1	4.4	1.1	1.8
	4 pt. outriggers down	2.6*	2.6*	8.8*	8.8*	9.3*	9.3*	7.7*	7.7*	6.5*	6.5*	2.9*	2.9*
0	Stabilizers raised	2.6*	2.6*	5.7	6.1*	4.4	6.4	3.5	5.0	2.8	4.1	1.1	1.8
	4 pt. outriggers down	2.6*	2.6*	6.1*	6.1*	9.2*	9.2*	7.6*	7.6*	6.4*	6.4*	2.7*	2.7*
-1.5	Stabilizers raised	3.1*	3.1*	5.3	5.7*	4.0	6.0	3.2	4.7	2.6	3.9	1.1	1.8
	4 pt. outriggers down	3.1*	3.1*	5.7*	5.7*	8.8*	8.8*	7.3*	7.3*	6.2*	6.2*	2.4*	2.4*
-3.0	Stabilizers raised			5.2	6.0*	3.8	5.8	3.0	4.6	2.5	3.7	1.2	2.0
	4 pt. outriggers down			6.0*	6.0*	8.0*	8.0*	6.7*	6.7*	5.7*	5.7*	2.6*	2.6*
-4.5	Stabilizers raised					3.8	5.8	2.9	4.5	2.4	3.6	1.5	2.3
	4 pt. outriggers down					6.7*	6.7*	5.8*	5.8*	5.0*	5.0*	3.0*	3.0*

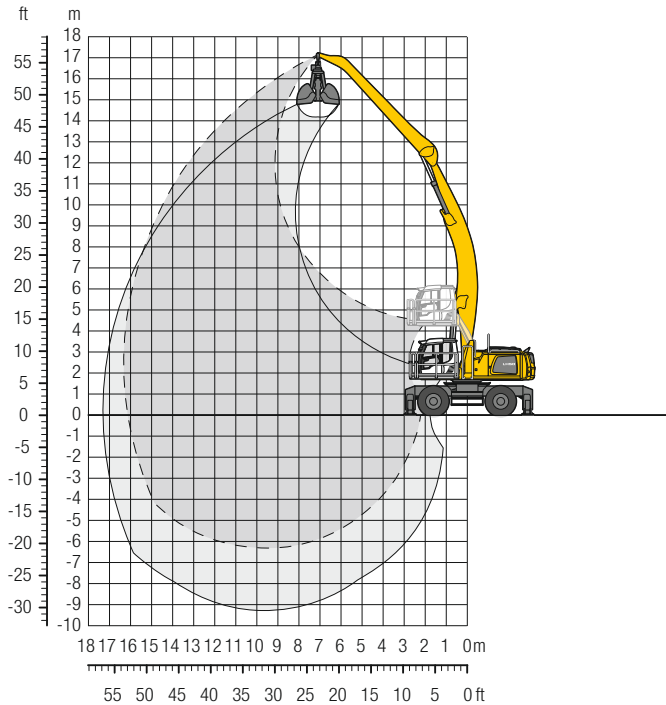
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

# LH 50 M – Equipment AF16

## Industry – Kinematic 2D

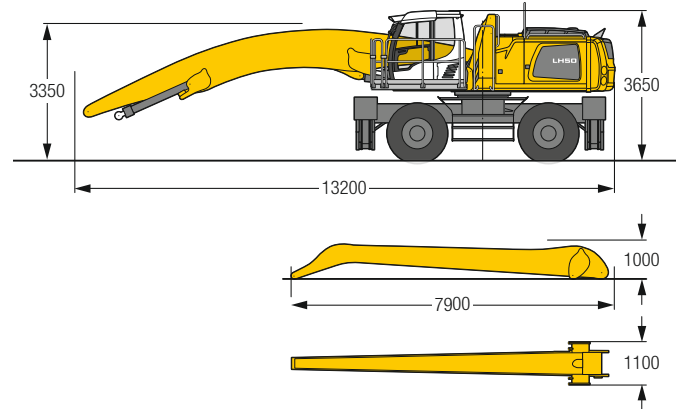


### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tyres, angled boom 9.60 m, flat angled stick 7.50 m and grab for loose material GMZ 40/1.50 m<sup>3</sup>.

Weight	44,500 kg
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### Dimensions



		4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	18.0 m			
m	Undercarriage													m
18.0	Stabilizers raised													
	4 pt. outriggers down													
16.5	Stabilizers raised											4.8*	4.8*	8.2
	4 pt. outriggers down											4.3*	4.3*	
15.0	Stabilizers raised				5.7*	5.7*						4.3*	4.3*	10.4
	4 pt. outriggers down				5.7*	5.7*						4.0*	4.0*	
13.5	Stabilizers raised				6.0*	6.0*	5.1	5.5*				3.9	4.0*	12.0
	4 pt. outriggers down				6.0*	6.0*	5.5*	5.5*				4.0*	4.0*	
12.0	Stabilizers raised						5.2	5.4*				3.2	3.8*	13.2
	4 pt. outriggers down						5.4*	5.4*				3.8*	3.8*	
10.5	Stabilizers raised				6.0*	6.0*	5.1	5.4*	4.0	5.0*		2.7	3.6	
	4 pt. outriggers down				6.0*	6.0*	5.4*	5.4*	5.0*	5.0*	4.7*	4.7*	3.7*	14.1
9.0	Stabilizers raised				6.1*	6.1*	5.0	5.5*	3.9	5.0	3.0	2.4	3.2	14.9
	4 pt. outriggers down				6.1*	6.1*	5.5*	5.5*	5.0*	5.0*	4.7*	3.7*	3.7*	
7.5	Stabilizers raised				6.3	6.4*	4.8	5.7*	3.8	4.9	3.0	2.2	2.9	15.5
	4 pt. outriggers down				6.4*	6.4*	5.7*	5.7*	5.1*	5.1*	4.7*	3.7*	3.7*	
6.0	Stabilizers raised			7.7*	7.7*	5.9	6.6*	4.6	3.6	4.7	2.8	2.0	2.7	15.9
	4 pt. outriggers down			7.7*	7.7*	6.6*	6.6*	5.9*	5.3*	5.3*	4.8*	3.7*	3.7*	
4.5	Stabilizers raised	13.3*	13.3*	10.1*	10.1*	7.2	8.2*	5.5	7.0*	4.2	5.6	1.8	2.6	16.1
	4 pt. outriggers down	13.3*	13.3*	10.1*	10.1*	8.2*	8.2*	7.0*	6.1*	5.4*	5.4*	3.8*	3.8*	
3.0	Stabilizers raised	13.0	15.0*	8.8	11.0*	6.5	8.6	5.0	6.6	3.9	5.2	1.7	2.5	16.2
	4 pt. outriggers down	15.0*	15.0*	11.0*	11.0*	8.7*	8.7*	7.3*	6.3*	5.5*	5.5*	3.9*	3.9*	
1.5	Stabilizers raised	6.5*	6.5*	7.7	10.6	5.8	7.9	4.5	6.1	3.6	4.9	1.7	2.4	16.2
	4 pt. outriggers down	6.5*	6.5*	11.7*	11.7*	9.2*	9.2*	7.6*	6.5*	5.6*	5.0*	4.0*	4.0*	
0	Stabilizers raised	5.2*	5.2*	6.9	9.8	5.2	7.3	4.1	5.7	3.3	4.6	1.7	2.4	
	4 pt. outriggers down	5.2*	5.2*	11.4*	11.4*	9.5*	9.5*	7.8*	6.6*	5.7*	5.7*	3.9*	3.9*	16.0
-1.5	Stabilizers raised	5.3*	5.3*	6.4	9.2	4.8	6.9	3.8	5.4	3.1	4.4	1.7	2.5	
	4 pt. outriggers down	5.3*	5.3*	9.4*	9.4*	9.5*	9.5*	7.8*	6.6*	5.6*	5.6*	3.8*	3.8*	15.7
-3.0	Stabilizers raised	5.8*	5.8*	6.1	9.0	4.6	6.6	3.6	5.2	3.0	4.2	1.8	2.5	15.2
	4 pt. outriggers down	5.8*	5.8*	9.0*	9.0*	9.1*	9.1*	7.6*	6.4*	5.4*	5.4*	3.6*	3.6*	
-4.5	Stabilizers raised			6.1	8.9	4.5	6.5	3.5	5.1	2.9	4.2	1.9	2.7	14.4
	4 pt. outriggers down			9.2*	9.2*	8.4*	8.4*	7.0*	5.9*	5.9*	5.0*	3.5*	3.5*	
-6.0	Stabilizers raised					3.5	5.1	2.9	4.1			2.5	3.7	11.6
	4 pt. outriggers down					6.1*	6.1*	5.2*	5.2*			4.5*	4.5*	

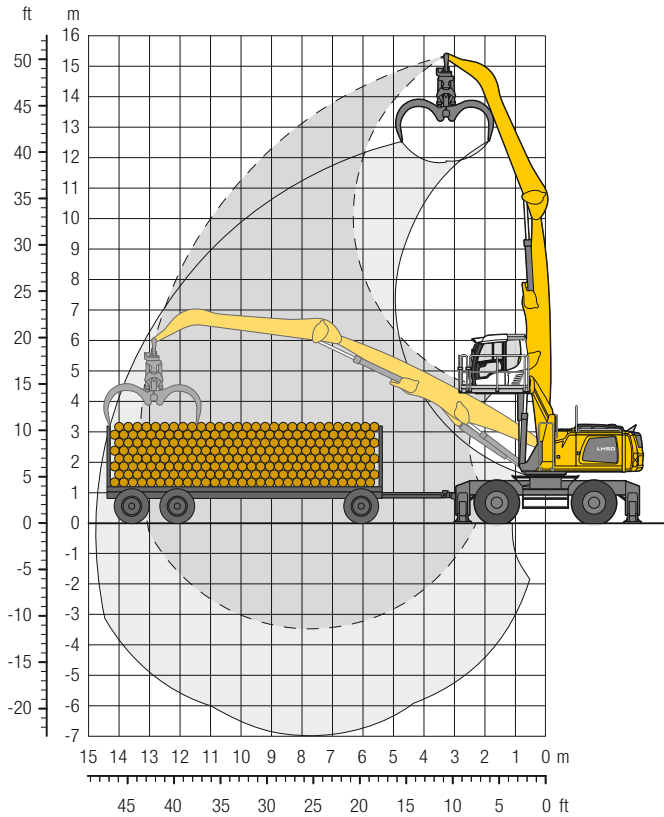
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

# LH 50 M – Equipment GA13

## Industry – Kinematic 2A

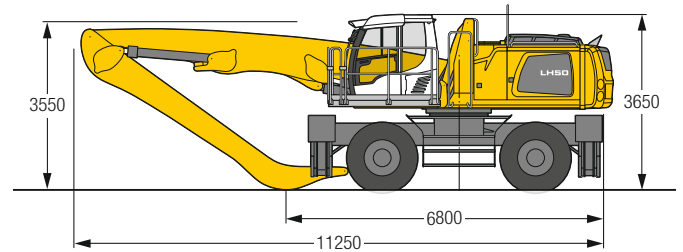


### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 4 pneumatic tyres, straight boom 7.60 m, angled stick 6.00 m and wood grab GM 20B/ 1.90 m<sup>2</sup>.

Weight 42,100 kg

### Dimensions



		4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	18.0 m		
m	Undercarriage	8.9* 8.9*	8.9* 8.9*									8.7* 8.7*	8.7* 8.7*
15.0	Stabilizers raised												
	4 pt. outriggers down	8.9* 8.9*	8.9* 8.9*									6.5* 6.5*	6.5* 6.5*
13.5	Stabilizers raised			9.1* 9.1*	6.6* 6.6*							6.5* 6.5*	6.5* 6.5*
	4 pt. outriggers down			9.1* 9.1*	6.6* 6.6*							5.4* 5.4*	5.6* 5.6*
12.0	Stabilizers raised				8.0* 8.9*	5.8* 6.6*						5.4* 5.6*	5.6* 5.6*
	4 pt. outriggers down				8.9* 8.9*	6.6* 6.6*						4.3* 5.2*	5.2* 5.2*
10.5	Stabilizers raised				8.1* 8.9*	6.0* 8.1*	4.5* 5.8*					3.7* 5.0*	4.8* 5.0*
	4 pt. outriggers down				8.9* 8.9*	8.1* 8.1*	5.8* 7.4*					3.3* 4.3*	4.8* 4.8*
9.0	Stabilizers raised				8.1* 8.9*	6.0* 8.1*	4.6* 7.4*					3.1* 4.0*	4.8* 4.8*
	4 pt. outriggers down				8.9* 8.9*	8.1* 8.1*	7.4* 7.4*					2.9* 3.8*	3.8* 3.8*
7.5	Stabilizers raised		10.6* 10.6*	7.9* 9.2*	5.9* 7.5*	4.5* 5.8*	3.5* 4.6*					2.8* 3.7*	3.7* 3.7*
	4 pt. outriggers down		10.6* 10.6*	9.2* 9.2*	8.2* 8.2*	7.4* 7.4*	6.1* 6.1*					2.8* 3.7*	3.7* 3.7*
6.0	Stabilizers raised		10.7* 11.3*	7.6* 9.6*	5.7* 7.3*	4.4* 5.7*	3.5* 4.5*					2.8* 3.7*	3.7* 3.7*
	4 pt. outriggers down		11.3* 11.3*	9.6* 9.6*	8.4* 8.4*	7.5* 7.5*	6.8* 6.8*					2.8* 3.7*	3.7* 3.7*
4.5	Stabilizers raised	15.5* 15.7*	10.0* 12.3*	7.2* 9.2*	5.4* 7.0*	4.3* 5.5*	3.4* 4.5*					2.8* 3.7*	3.7* 3.7*
	4 pt. outriggers down	15.7* 15.7*	12.3* 12.3*	10.2* 10.2*	8.8* 8.8*	7.7* 7.7*	6.8* 6.8*					2.8* 3.7*	3.7* 3.7*
3.0	Stabilizers raised	13.8* 17.8*	9.2* 12.1*	6.7* 8.7*	5.2* 6.7*	4.1* 5.3*	3.3* 4.4*					2.8* 3.7*	3.7* 3.7*
	4 pt. outriggers down	17.8* 17.8*	13.3* 13.3*	10.7* 10.7*	9.1* 9.1*	7.8* 7.8*	6.8* 6.8*					2.8* 3.7*	3.7* 3.7*
1.5	Stabilizers raised	12.4* 14.0*	8.5* 11.3*	6.3* 8.3*	4.9* 6.4*	3.9* 5.2*	3.2* 4.3*					2.8* 3.7*	3.7* 3.7*
	4 pt. outriggers down	14.0* 14.0*	14.1* 14.1*	11.1* 11.1*	9.2* 9.2*	7.8* 7.8*	6.6* 6.6*					2.8* 3.7*	3.7* 3.7*
0	Stabilizers raised	9.2* 9.2*	7.9* 10.8*	6.0* 7.9*	4.7* 6.2*	3.8* 5.0*	3.2* 4.2*					2.8* 3.7*	3.7* 3.7*
	4 pt. outriggers down	9.2* 9.2*	14.1* 14.1*	11.2* 11.2*	9.2* 9.2*	7.6* 7.6*	6.2* 6.2*					2.8* 3.7*	3.7* 3.7*
-1.5	Stabilizers raised	9.1* 9.1*	7.7* 10.5*	5.7* 7.7*	4.5* 6.1*	3.7* 4.9*	3.1* 4.2*					2.8* 3.7*	3.7* 3.7*
	4 pt. outriggers down	9.1* 9.1*	13.3* 13.3*	10.6* 10.6*	8.6* 8.6*	7.0* 7.0*	5.3* 5.3*					2.8* 3.7*	3.7* 3.7*
-3.0	Stabilizers raised		7.6* 10.4*	5.7* 7.6*	4.5* 6.0*							2.8* 3.7*	3.7* 3.7*
	4 pt. outriggers down		11.3* 11.3*	9.2* 9.2*	7.5* 7.5*							2.8* 3.7*	3.7* 3.7*
-4.5	Stabilizers raised											2.8* 3.7*	3.7* 3.7*
	4 pt. outriggers down											2.8* 3.7*	3.7* 3.7*

Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

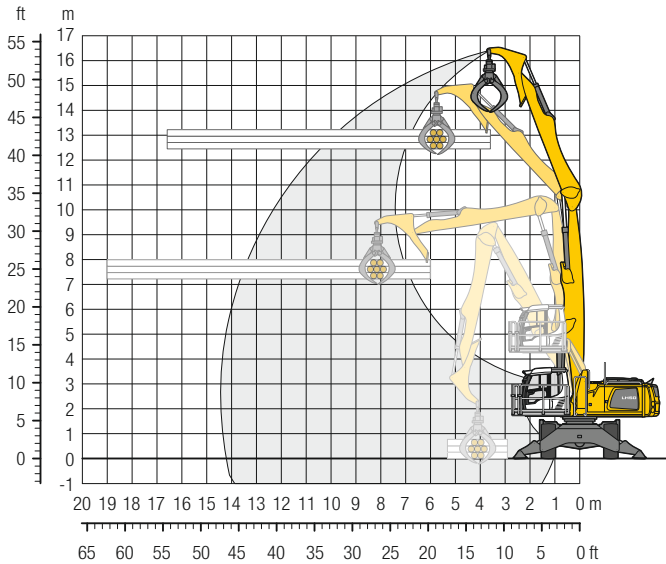
The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.



# LH 50 M – Equipment GKG14

## Industry – Kinematic 2A

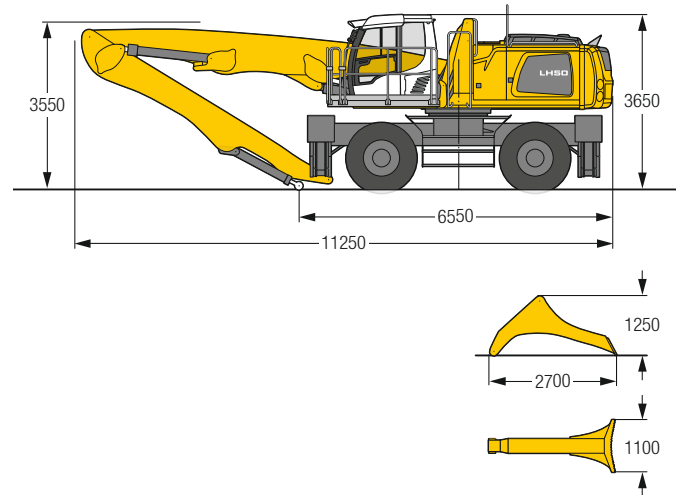


### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tyres, straight boom 7.60 m, stick 5.80 m with counterstay and wood grab 0.70 m<sup>2</sup>.

Weight 43,400 kg

### Dimensions



		4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	18.0 m		
m	Undercarriage												m
15.0	Stabilizers raised		7.6*	7.6*								5.6*	7.3
	4 pt. outriggers down		7.6*	7.6*								5.6*	
13.5	Stabilizers raised			7.3*	7.3*	5.5*	5.5*					4.6*	9.4
	4 pt. outriggers down			7.3*	7.3*	5.5*	5.5*					4.6*	
12.0	Stabilizers raised			7.9*	7.9*	6.0	7.0*	4.4	5.1*			4.0	10.9
	4 pt. outriggers down			7.9*	7.9*	7.0*	7.0*	5.1*	5.1*			4.1*	
10.5	Stabilizers raised			7.7*	7.7*	6.1	7.0*	4.5	5.8	3.3	4.0*	3.3	12.1
	4 pt. outriggers down			7.7*	7.7*	7.0*	7.0*	6.5*	6.5*	4.0*	4.0*	3.8*	
9.0	Stabilizers raised			7.8*	7.8*	6.1	7.0*	4.5	5.8	3.4	4.5	2.8	12.9
	4 pt. outriggers down			7.8*	7.8*	7.0*	7.0*	6.4*	6.4*	5.7*	5.7*	3.6*	
7.5	Stabilizers raised			8.0*	8.0*	5.9	7.1*	4.4	5.8	3.4	4.5	2.5	13.6
	4 pt. outriggers down			8.0*	8.0*	7.1*	7.1*	6.5*	6.5*	5.9*	5.9*	3.5*	
6.0	Stabilizers raised			7.8	8.4*	5.7	7.3	4.3	5.6	3.3	4.4	2.3	14.0
	4 pt. outriggers down			8.4*	8.4*	7.4*	7.4*	6.6*	6.6*	6.0*	5.1*	3.5*	
4.5	Stabilizers raised		10.5	10.7*	7.3	9.0*	5.4	4.1	5.4	3.2	4.3	2.2	14.3
	4 pt. outriggers down		10.7*	10.7*	9.0*	9.0*	7.7*	6.8*	6.8*	6.1*	6.1*	3.5*	
3.0	Stabilizers raised	14.9	15.4*	9.5	11.8*	6.8	8.9	5.0	6.7	3.9	5.2	2.1	14.4
	4 pt. outriggers down	15.4*	15.4*	11.8*	11.8*	9.6*	9.6*	8.1*	8.1*	7.0*	7.0*	3.6*	
1.5	Stabilizers raised	13.0	17.4*	8.6	11.6	6.2	8.3	4.7	6.3	3.7	4.9	2.1	14.4
	4 pt. outriggers down	17.4*	17.4*	12.8*	12.8*	10.1*	10.1*	8.4*	8.4*	7.2*	7.2*	3.7*	
0	Stabilizers raised	11.7	12.1*	7.8	10.8	5.7	7.8	4.4	6.0	3.5	4.7	2.1	14.2
	4 pt. outriggers down	12.1*	12.1*	13.3*	13.3*	10.4*	10.4*	8.5*	8.5*	7.1*	7.1*	3.9*	
-1.5	Stabilizers raised	9.3*	9.3*	7.3	10.2	5.4	7.4	4.2	5.7	3.3	4.6	2.2	13.5
	4 pt. outriggers down	9.3*	9.3*	13.1*	13.1*	10.3*	10.3*	8.4*	8.4*	6.9*	6.9*	3.9*	
-3.0	Stabilizers raised	9.3*	9.3*	7.1	10.0	5.2	7.2	4.0	5.6	3.2	4.5	2.6	12.1
	4 pt. outriggers down	9.3*	9.3*	12.0*	12.0*	9.5*	9.5*	7.7*	7.7*	6.1*	6.1*	4.5*	
-4.5	Stabilizers raised					5.1	7.2					4.4	8.4
	4 pt. outriggers down					7.9*	7.9*					6.9*	

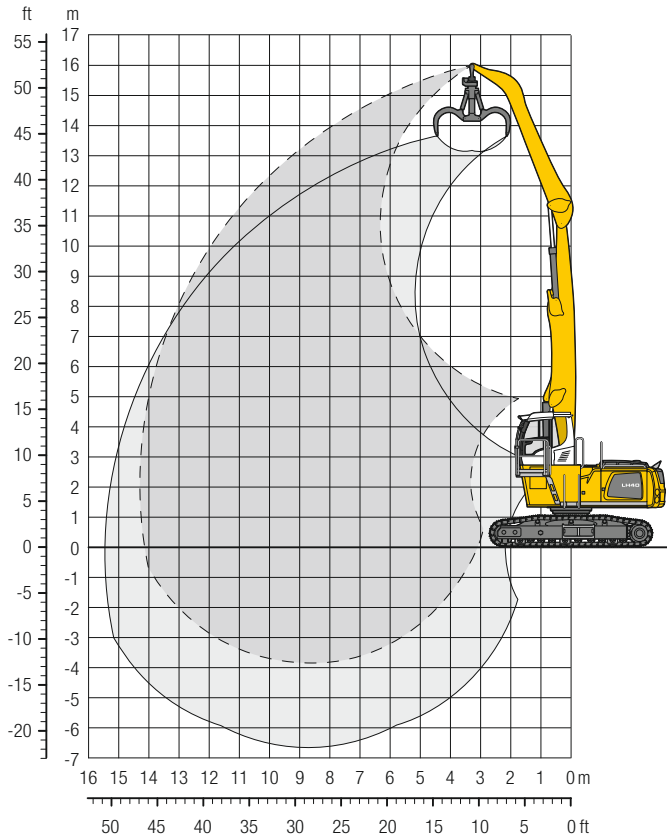
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

# LH 40 C – Equipment GA14

## Industry – Kinematic 2A

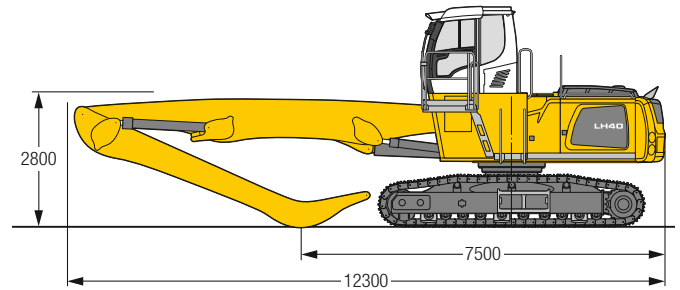


### Operating Weight and Ground Pressure

The operating weight includes the basic machine with rigid cab elevation, straight boom 8.60 m, angled stick 6.00 m and multi-tine grab GM 70C/0.80 m³ semi-closed tines.

Weight	40,100 kg
Pad width	600 mm
Ground pressure	on request

### Dimensions



		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		15.0 m			
m	Undercarriage																		m
16.5	EW																	7.6*	6.1
15.0	EW			7.8*	7.8*													6.2*	8.6
13.5	EW			9.7*	9.7*	8.2*	8.2*											5.5*	10.3
12.0	EW					8.2*	8.2*	7.3*	7.3*									5.5*	11.6
10.5	EW					8.1*	8.1*	7.2*	7.2*	6.5*	6.5*							5.2*	12.5
9.0	EW					8.2*	8.2*	7.2*	7.2*	6.5*	6.5*	5.8*	5.8*					4.9*	13.2
7.5	EW			10.0*	10.0*	8.4*	8.4*	7.3*	7.3*	6.5*	6.5*	5.8*	5.8*					4.8*	13.8
6.0	EW	12.4*	12.4*	10.6*	10.6*	8.8*	8.8*	7.5*	7.5*	6.6*	6.6*	5.8*	5.9*	4.7	5.2*			4.6	14.1
4.5	EW	14.9*	14.9*	11.3*	11.3*	9.2*	9.2*	7.8*	7.8*	6.7*	6.7*	5.6	5.9*	4.7	5.1*			4.3	14.3
3.0	EW	16.3*	16.3*	12.0*	12.0*	9.5*	9.5*	7.9*	7.9*	6.7	6.8*	5.5	5.9*	4.6	5.0*			4.2	14.3
1.5	EW	5.7*	5.7*	12.3*	12.3*	9.7*	9.7*	8.0*	8.0*	6.5	6.8*	5.4	5.8*	4.5	4.8*			4.2*	14.1
0	EW	4.9*	4.9*	12.1*	12.1*	9.6*	9.6*	7.8	7.9*	6.3	6.6*	5.3	5.5*	4.4*	4.4*			3.8*	13.5
-1.5	EW	5.6*	5.6*	11.0*	11.0*	9.0*	9.0*	7.4*	7.4*	6.1*	6.1*	5.0*	5.0*					4.3*	11.8
-3.0	EW			9.3*	9.3*	7.8*	7.8*	6.5*	6.5*	5.3*	5.3*							4.3*	
-4.5	EW																		

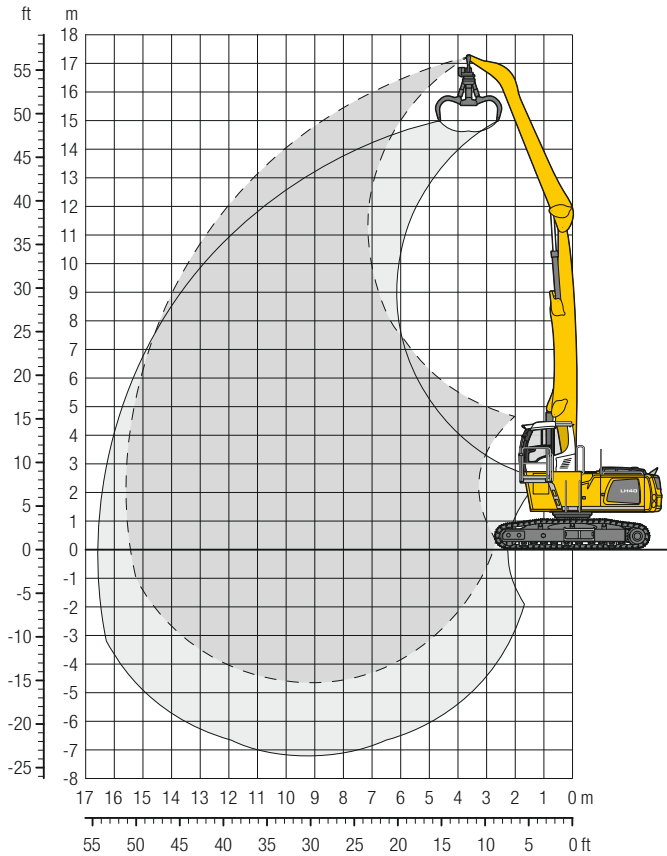
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

The lift capacities on the stick end without attachment are stated in metric tons (t) and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 600 mm wide triple grouser pads (resp. flat pads). Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

# LH 40 C – Equipment GA16

## Industry – Kinematic 2A

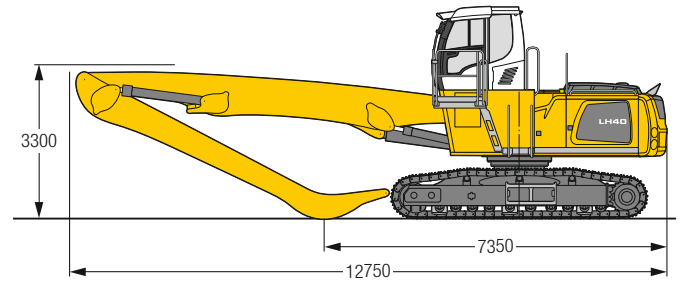





























### Operating Weight and Ground Pressure

The operating weight includes the basic machine with rigid cab elevation, straight boom 9.10 m, angled stick 6.80 m and multi-tine grab GM 65/0.60 m<sup>3</sup> semi-closed tines.

Weight	40,100 kg
Pad width	600 mm
Ground pressure	on request

### Dimensions



																				
m	Undercarriage																			m
16.5	EW																	7.2*	7.2*	5.9
15.0	EW					7.4*	7.4*											5.7*	5.7*	8.7
13.5	EW					7.9*	7.9*	7.0*	7.0*	5.2*	5.2*							5.0*	5.0*	10.6
12.0	EW					7.8*	7.8*	6.8*	6.8*	6.1*	6.1*	4.7*	4.7*					4.6*	4.6*	12.0
10.5	EW					7.7*	7.7*	6.8*	6.8*	6.1*	6.1*	5.5*	5.5*					4.4*	4.4*	13.1
9.0	EW					7.8*	7.8*	6.8*	6.8*	6.1*	6.1*	5.5*	5.5*	4.8	5.0*			4.2*	4.2*	14.0
7.5	EW					8.1*	8.1*	7.0*	7.0*	6.2*	6.2*	5.5*	5.5*	4.8	5.0*			4.1	4.1*	14.6
6.0	EW			10.2*	10.2*	8.4*	8.4*	7.2*	7.2*	6.3*	6.3*	5.6*	5.6*	4.7	5.0*	3.9	4.3*	3.9	4.1*	15.1
4.5	EW	14.3*	14.3*	10.8*	10.8*	8.8*	8.8*	7.4*	7.4*	6.4*	6.4*	5.6	5.6*	4.6	5.0*	3.9	4.3*	3.7	4.1*	15.4
3.0	EW	15.6*	15.6*	11.5*	11.5*	9.1*	9.1*	7.6*	7.6*	6.5*	6.5*	5.4	5.6*	4.5	4.9*	3.8	4.2*	3.6	3.8*	15.5
1.5	EW	5.3*	5.3*	11.9*	11.9*	9.4*	9.4*	7.7*	7.7*	6.4	6.5*	5.3	5.6*	4.4	4.8*	3.8	4.0*	3.5	3.6*	15.6
0	EW	4.2*	4.2*	11.7*	11.7*	9.3*	9.3*	7.6*	7.6*	6.2	6.4*	5.1	5.4*	4.3	4.6*	3.6*	3.6*	3.2*	3.2*	15.4
-1.5	EW	4.6*	4.6*	9.7*	9.7*	8.9*	8.9*	7.3*	7.3*	6.0	6.1*	5.0	5.1*	4.2*	4.2*			3.0*	3.0*	15.0
-3.0	EW			9.5*	9.5*	7.9*	7.9*	6.6*	6.6*	5.5*	5.5*	4.5*	4.5*	3.5*	3.5*			3.4*	3.4*	13.7
-4.5	EW							5.5*	5.5*	4.6*	4.6*							4.5*	4.5*	10.6

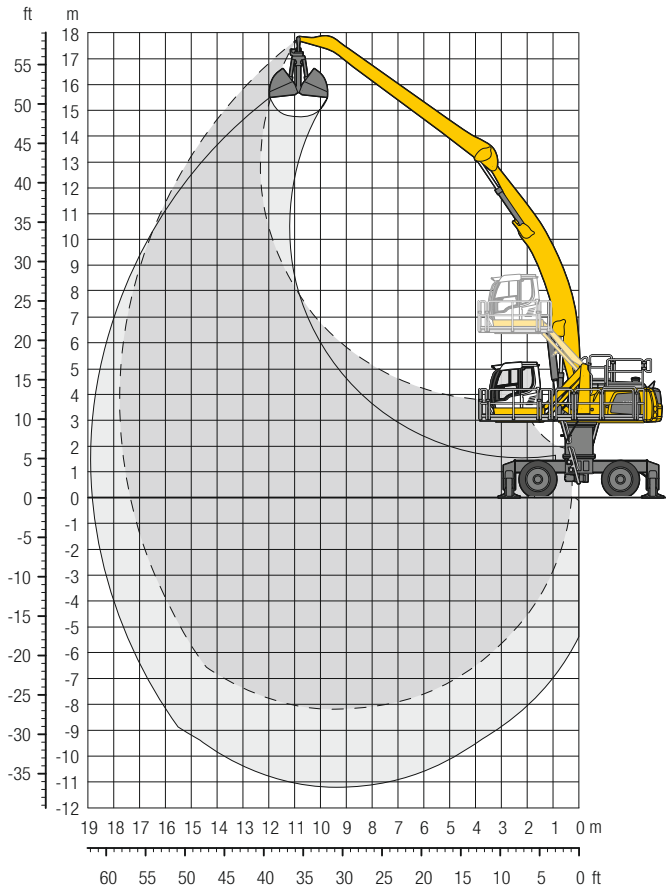
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

The lift capacities on the stick end without attachment are stated in metric tons (t) and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 600 mm wide triple grouser pads (resp. flat pads). Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

# LH 50 M HR – Equipment AF18

## Industry – Kinematic 2C

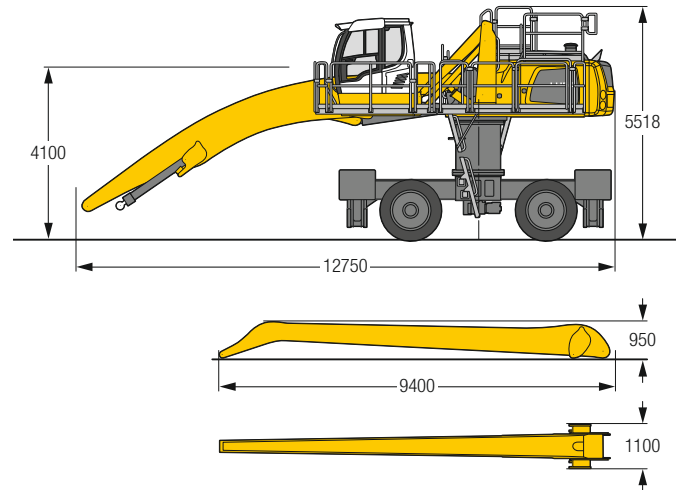


### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, turret 1,200 mm, hydr. cab elevation, 4 solid tyres, angled boom 9.60 m, flat angled stick 9.00 m and grab for loose material GMZ 40/1.50 m³.

Weight 45,500 kg

### Dimensions



		4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	18.0 m		
m	Undercarriage												m
19.5	4 pt. outriggers down												
18.0	4 pt. outriggers down											3.8*	3.8*
16.5	4 pt. outriggers down					4.9*	4.9*	3.6*	3.6*			3.4*	3.4*
15.0	4 pt. outriggers down					5.1*	5.1*	4.7*	4.7*	3.3*	3.3*	3.2*	3.2*
13.5	4 pt. outriggers down							4.7*	4.7*	4.4*	4.4*	3.1*	3.1*
12.0	4 pt. outriggers down							4.7*	4.7*	4.3*	4.3*	3.0*	3.0*
10.5	4 pt. outriggers down					5.1*	5.1*	4.7*	4.7*	4.4*	4.4*	3.0*	3.0*
9.0	4 pt. outriggers down					5.2*	5.2*	4.8*	4.8*	4.4*	4.4*	3.0*	3.0*
7.5	4 pt. outriggers down							4.8*	4.8*	4.4*	4.4*	3.0*	3.0*
6.0	4 pt. outriggers down							4.9*	4.9*	4.5*	4.5*	3.0*	3.0*
4.5	4 pt. outriggers down	12.7*	12.7*	9.7*	9.7*	7.9*	7.9*	6.7*	6.7*	5.9*	5.9*	3.1*	3.1*
3.0	4 pt. outriggers down	14.4*	14.4*	10.6*	10.6*	8.5*	8.5*	7.1*	7.1*	6.1*	6.1*	3.2*	3.2*
1.5	4 pt. outriggers down	8.6*	8.6*	11.4*	11.4*	8.9*	8.9*	7.4*	7.4*	6.3*	6.3*	3.3*	3.3*
0	4 pt. outriggers down	6.0*	6.0*	11.8*	11.8*	9.3*	9.3*	7.6*	7.6*	6.4*	6.4*	3.4*	3.4*
-1.5	4 pt. outriggers down	5.7*	5.7*	10.1*	10.1*	9.3*	9.3*	7.7*	7.7*	6.5*	6.5*	3.3*	3.3*
-3.0	4 pt. outriggers down	5.9*	5.9*	9.2*	9.2*	9.1*	9.1*	7.5*	7.5*	6.4*	6.4*	3.2*	3.2*
-4.5	4 pt. outriggers down	6.2*	6.2*	9.1*	9.1*	8.6*	8.6*	7.1*	7.1*	6.0*	6.0*	3.1*	3.1*
-6.0	4 pt. outriggers down					7.6*	7.6*	6.4*	6.4*	5.4*	5.4*	3.8*	3.8*

Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

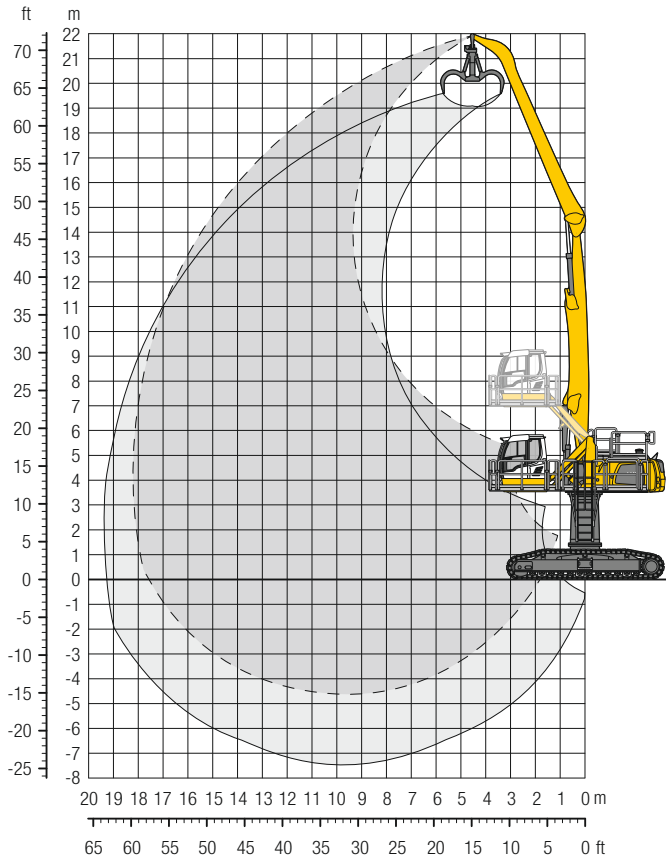
The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.



# LH 50 C HR – Equipment GA18

## Industry – Kinematic 2A

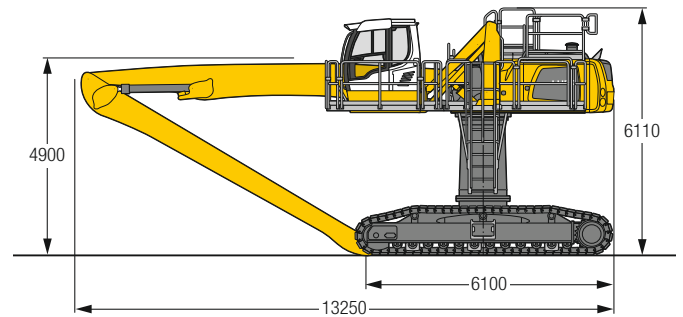





































### Operating Weight and Ground Pressure

The operating weight includes the basic machine with turret 2,000 mm, hydr. cab elevation, straight boom 9.60 m, angled stick 9.00 m and multi-tine grab GM 70C/0.80 m³ semi-closed tines.

Weight	53,800 kg
Pad width	600 mm
Ground pressure	on request

### Dimensions



																										
m	Undercarriage																								m	
21.0	SW			6.6*	6.6*																		5.3*	5.3*	7.3	
19.5	SW					6.4*	6.4*	5.4*	5.4*															4.2*	4.2*	10.1
18.0	SW							6.1*	6.1*	5.3*	5.3*	3.8*	3.8*											3.7*	3.7*	12.0
16.5	SW							6.5*	6.5*	5.8*	5.8*	5.1*	5.1*	3.5*	3.5*									3.4*	3.4*	13.6
15.0	SW									5.7*	5.7*	5.3*	5.3*	4.7*	4.7*									3.2*	3.2*	14.8
13.5	SW									5.7*	5.7*	5.2*	5.2*	4.8*	4.8*	4.2*	4.2*							3.0*	3.0*	15.8
12.0	SW									5.7*	5.7*	5.2*	5.2*	4.8*	4.8*	4.4*	4.4*	3.0*	3.0*					2.9*	2.9*	16.5
10.5	SW							6.5*	6.5*	5.8*	5.8*	5.3*	5.3*	4.8*	4.8*	4.4*	4.4*	4.0*	4.0*					2.9*	2.9*	17.2
9.0	SW							6.7*	6.7*	6.0*	6.0*	5.4*	5.4*	4.9*	4.9*	4.5*	4.5*	4.1*	4.1*					2.9*	2.9*	17.6
7.5	SW					7.8*	7.8*	7.0*	7.0*	6.2*	6.2*	5.5*	5.5*	5.0*	5.0*	4.5*	4.5*	4.1*	4.1*					2.9*	2.9*	18.0
6.0	SW			8.6*	8.6*	8.6*	8.6*	7.3*	7.3*	6.4*	6.4*	5.6*	5.6*	5.0*	5.0*	4.5*	4.5*	4.1*	4.1*	3.3*	3.3*			2.9*	2.9*	18.2
4.5	SW	15.3*	15.3*	11.4*	11.4*	9.1*	9.1*	7.6*	7.6*	6.5*	6.5*	5.7*	5.7*	5.1*	5.1*	4.5*	4.5*	4.0*	4.0*	3.4*	3.4*			2.9*	2.9*	18.2
3.0	SW	9.3*	9.3*	12.1*	12.1*	9.5*	9.5*	7.9*	7.9*	6.7*	6.7*	5.8*	5.8*	5.1*	5.1*	4.5*	4.5*	3.9*	3.9*	3.2*	3.2*			3.0*	3.0*	18.2
1.5	SW	4.8*	4.8*	12.4*	12.4*	9.8*	9.8*	8.0*	8.0*	6.8*	6.8*	5.8*	5.8*	5.1*	5.1*	4.4*	4.4*	3.7*	3.7*	2.8*	2.8*			2.8*	2.8*	18.0
0	SW	4.4*	4.4*	9.4*	9.4*	9.7*	9.7*	7.9*	7.9*	6.7*	6.7*	5.7*	5.7*	4.9*	4.9*	4.2*	4.2*	3.4*	3.4*					2.6*	2.6*	17.6
-1.5	SW	4.7*	4.7*	8.4*	8.4*	9.2*	9.2*	7.6*	7.6*	6.4*	6.4*	5.4*	5.4*	4.6*	4.6*	3.8*	3.8*	2.8*	2.8*					2.8*	2.8*	16.5
-3.0	SW			8.4*	8.4*	8.3*	8.3*	6.9*	6.9*	5.8*	5.8*	4.9*	4.9*	4.0*	4.0*									3.2*	3.2*	14.9
-4.5	SW							5.8*	5.8*	4.8*	4.8*													4.4*	4.4*	11.3

Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

The lift capacities on the stick end without attachment are stated in metric tons (t) and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 600 mm wide flat pads. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

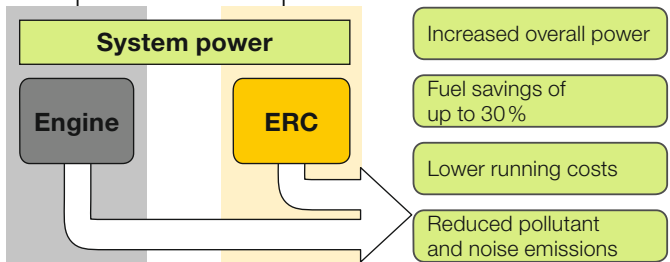
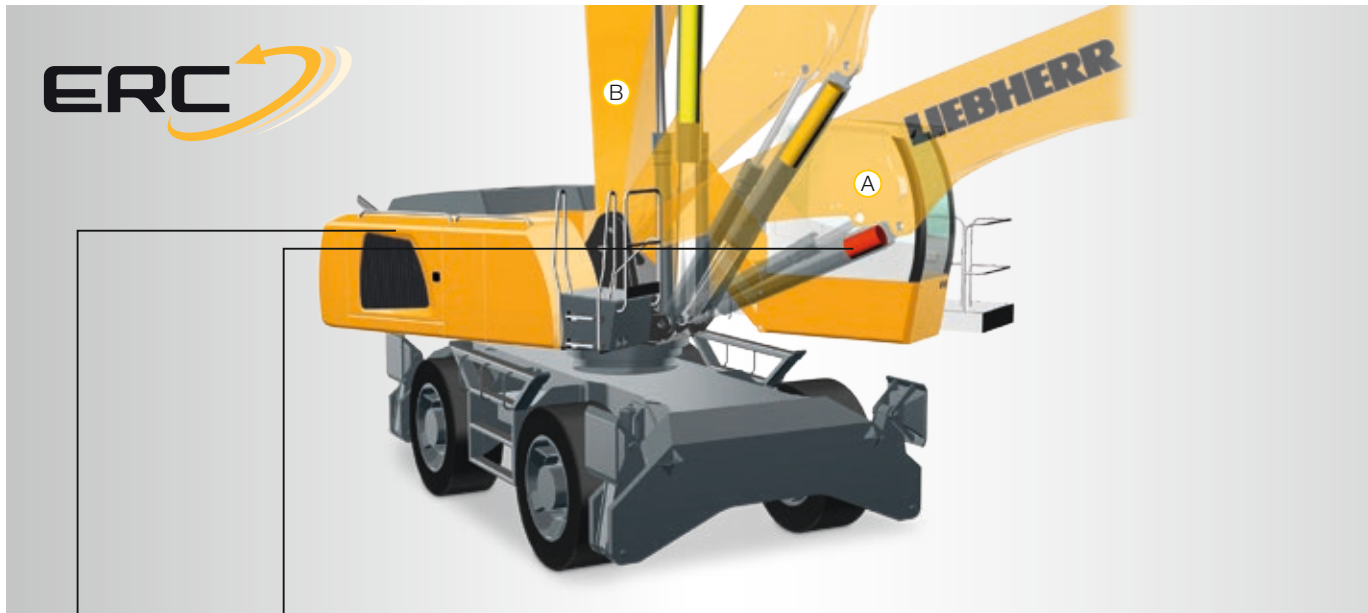
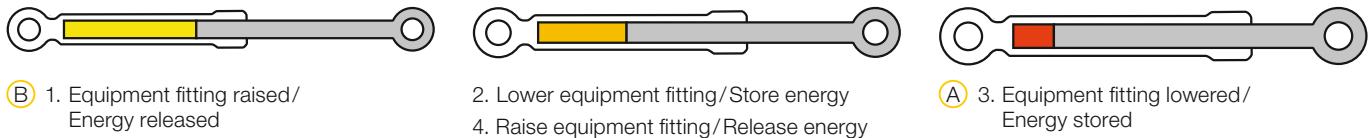
In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

# Liebherr ERC-System

## ERC System – More Performance, Less Consumption

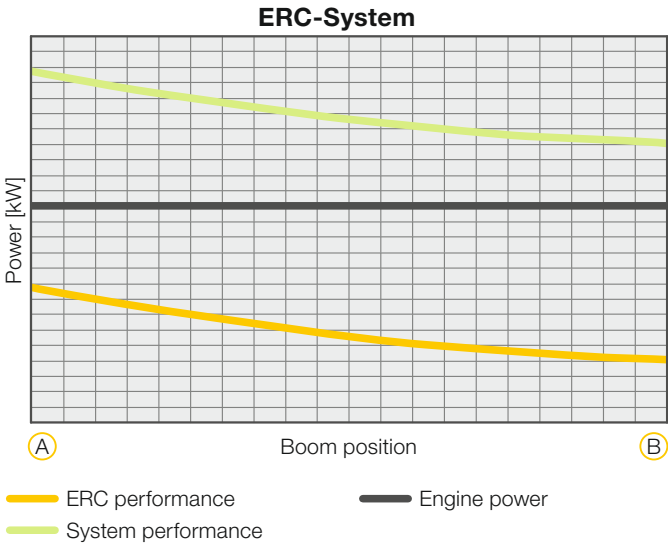
Lowering the equipment stores energy in the ERC system. This stored energy is then made available to the machine to provide additional engine power. When the equipment is raised the stored energy is released and is reflected in

powerful, homogeneous operating cycles. The result is a clear saving on fuel – and, at the same time, even greater performance.

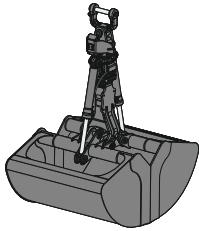


### System Power

The energy recovery cylinder is a storage system which is independent of the diesel engine. The system performance of material handling machines fitted with the ERC system is composed of the installed engine power and the energy recovery cylinder. When the equipment is raised, energy from the ERC system is supplied in addition to the power from the diesel engine.



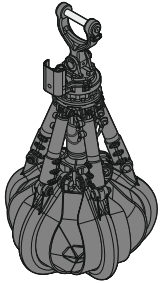
# Attachments



## Grab for Loose Material

### Grab model GMZ 40

Shell specification		Standard	Standard	Standard	Standard	Wide	Wide	Wide	Wide	Wide	Wide
Width of shells	mm	1,190	1,500	1,750	1,900	1,190	1,500	1,750	2,000	2,250	2,500
Capacity	m³	2.10	2.50	3.00	3.50	1.20	1.50	1.75	2.00	2.25	2.50
Weight	kg	1,740	1,885	2,005	2,080	1,540	1,665	1,770	1,875	2,050	2,155



## Multi-Tine Grab

### open

### semi-closed

### closed

### Grab model GM 65 (5 tines)

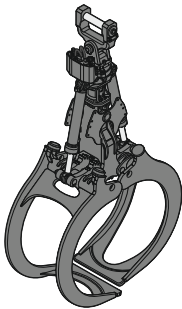
Capacity	m³	0.40	0.60	0.40	0.60	0.40	0.60
Weight	kg	1,175	1,310	1,350	1,490	1,365	1,605

### Grab model GM 69 (4 tines)

Capacity	m³	0.80	1.10	0.80	1.10	0.80	1.10
Weight	kg	1,390	1,435	1,580	1,695	1,945	2,100

### Grab model GM 70C (5 tines)

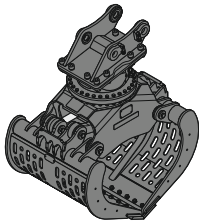
Capacity	m³	0.80	1.10	0.80	1.10	0.80	1.10
Weight	kg	1,585	1,645	1,805	1,940	2,055	2,075



## Wood Grab

### Grab model GM 20B round-shaped (complete overlapping, vertical cylinders)

Size	m²	1.00	1.30	1.50	1.70	1.90
Cutting width	mm	810	810	810	810	810
Height of grab, closed	mm	2,572	2,675	2,720	2,812	2,897
Weight	kg	1,570	1,600	1,620	1,650	1,785



## Sorting Grab

### ribbed

### perforated

### ribbed

### perforated

### ribbed

### perforated

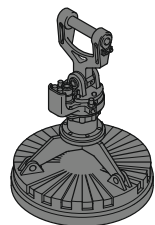
### Grab model SG 30B

Width of shells	mm	1,000	1,000	1,200	1,200	1,400	1,400
Capacity	m³	0.75	0.85	0.90	1.00	1.05	1.15
Max. closing force	kN	80	80	80	80	80	80
Weight incl. adapter plate SWA	kg	1,880	1,785	1,970	1,845	2,065	1,905



## Load Hook

Max. load	t	12.5
Height with suspension	mm	930
Weight	kg	135





## Magnet Devices / Lifting Magnets


Generator	kW	13/20
<b>Electromagnet with suspension</b>		
Power	kW	8.8
Diameter of magnet	mm	1,250
Weight	kg	1,310*
		1,700*


\* only magnet plate

# Equipment

 Undercarriage	40 M	50 M	40 C	50 M HR	50 C HR
Support assistant	+	+		+	
Axles with increased traction (reduced speed)		+			
Trailer coupling	+	+			
Track pads, variants			+		+
Individual control outriggers	+	+		•	
Three-piece chain guide			+		•
Shuttle axle lock, automatic	•	•		•	
Outrigger monitoring system	+	+		+	
Tyres, variants	+	+		+	
Protection for piston rods, outriggers	+	+		+	
Two storage compartments	•	•			


 Upper-carriage	40 M	50 M	40 C	50 M HR	50 C HR
Upper-carriage right side light, 1 piece, LED	•	•	•	•	•
Upper-carriage rear light, 2 pieces, LED	+	+	+		
Upper-carriage underneath rear light, 1 piece, LED				+	+
Tank refilling pump fuel	+	+	+	+	+
Railing on upper-carriage	+	+	+	•	•
Generator	+	+	+	+	+
Main battery switch for electrical system	•	•	•	•	•
Amber beacon, at upper-carriage, LED double flash	+	+	+	+	+
Protection for headlights	+	+	+		
Protection for rear lights	+	+	+		
Tool equipment, extended	•	•	•	•	•


 Hydraulic System	40 M	50 M	40 C	50 M HR	50 C HR
Electronic pump regulation	•	•	•	•	•
Liebherr hydraulic oil from –20 °C to +40 °C	•	•	•	•	•
Liebherr hydraulic oil, biologically degradable	+	+	+	+	+
Liebherr hydraulic oil, specially for warm or cold regions	+	+	+	+	+
Magnetic rod in hydraulic tank	•	•	•	•	•
Bypass filter	+	+	+	+	+
Preheating hydraulic oil	+	+	+	+	+


 Engine	40 M	50 M	40 C	50 M HR	50 C HR
Fuel anti-theft device	+	+	+	+	+
Air pre-filter with dust discharge	+	+	+	+	+
Automatic engine shut-down (time adjustable)	+	+	+	+	+
Preheating fuel	+	+	+	+	+
Preheating coolant	+	+	+	+	+
Preheating engine oil *	+	+	+	+	+

 Cooling System	40 M	50 M	40 C	50 M HR	50 C HR
Reversible fan drive	+	+	+	+	+
Protective grid in front of cooler intake	•	•	•	•	•



 <b>Operator's Cab</b>	40 M	50 M	40 C	50 M HR	50 C HR
Stabilizer, control lever, left console	+	+		+	
Stabilizer, proportional control on left joystick	•	•		•	
Cab lights rear, halogen	+	+	+	+	+
Cab lights rear, LED	+	+	+	+	+
Cab lights front, halogen	+	+	+	+	+
Cab lights front, halogen (under rain cover)	•	•	•	•	•
Cab lights front, LED	+	+	+	+	+
Cab lights front, LED (under rain cover)	+	+	+	+	+
Armrest adjustable	•	•	•	•	•
Circular bubble level	+	+	+	•	•
Slewing gear brake Comfort, button on the left or right joystick	+	+	+	+	+
Driver profile, personalised (max. 5 drivers)	+	+	+	+	+
Operator's seat Comfort	•	•	•	•	•
Operator's seat Premium	+	+	+	+	+
Driving alarm (acoustic signal is emitted during travel, can be switched ON/OFF)	+	+	+	+	+
Fire extinguisher	+	+	+	+	+
Footrest	+	+	+	+	+
Horn, button on left joystick	•	•	•	•	•
Joystick steering (max. 12 km/h)	•	•		•	
Joystick and wheel steering (slim version)	+	+		+	
Cab elevation, hydraulic (LHC)	•	•	•	•	•
Cab elevation, hydraulic with tilt function (LHC)	+	+	+		
Cab elevation, rigid (LFC)	+	+	+		
Automatic air conditioning	•	•	•	•	•
Wheel steering (slim version)	+	+		+	
LiDAT, vehicle fleet management	•	•	•	•	•
Proportional control	•	•	•	•	•
Radio Comfort, control via display with handsfree set	+	+	+	+	+
Preparation for radio installation	•	•	•	•	•
Back-up alarm (acoustic signal is emitted traveling backward, can not be switched off)	+	+		+	
Amber beacon, on cabin, LED double flash	+	+	+	+	+
Windows made from impact-resistant laminated safety glass	+	+	+	•	•
Windscreen wiper, roof	+	+	+	+	+
Windshield wiper, entire windscreen	•	•	•	•	•
FOPS top guard	+	+	+	+	+
FGPS front guard, tiltable	+	+	+	+	+
Sun visor	+	+	+	+	+
Left control console, folding	•	•	•	•	•

 <b>Equipment</b>	40 M	50 M	40 C	50 M HR	50 C HR
Boom lights, 2 pieces, halogen	•	•	•	•	•
Boom lights, 2 pieces, LED	+	+	+	+	+
Stick lights, 2 pieces, halogen	•	•	•	•	•
Stick lights, 2 pieces, LED	+	+	+	+	+
Boom shutoff (retract/extend), electronically	+	+	+	+	+
Equipment with electro-hydraulic end position control	•	•	•	•	•
AutoLift	+	+	+	+	+
Pressure warning mechanism hoist cylinder	•	•	•	•	•
ERC system	•	•	•	•	•
Filter system for attachment	+	+	+	+	+
Electronic lift limitation	+	+	+	+	+
Boom cylinder cushioning	•	•	•	•	•
Stick camera (with separate monitor), bottom side, with protection	+	+	+	+	+
Load torque limitation	+	+	+	+	+
Liebherr multi coupling system	+	+	+	+	+
Liebherr quick coupler, hydraulic	+	+	+		
Pipe fracture safety valves hoist cylinders	•	•	•	•	•
Pipe fracture safety valves stick cylinders	•	•	•	•	•
Quick coupling system LIKUFIX	+	+	+		
Quick coupling system MH 40B	+	+	+	+	+
Protection for piston rod, energy recovering cylinder	+	+	+	+	+
Protection for piston rods, hoist cylinder	+	+	+	+	+
Protection for piston rods, stick cylinder	+	+	+		
Stick shutoff (retract), electronically	•	•	•	•	•
Stick shutoff (retract/extend), electronically	+	+	+	+	+
Retract stick without pressure	•	•	•	•	•
Sticks with quick coupling	+	+	+	+	+
Overload warning device	+	+	+	+	+

 <b>Complete Machine</b>	40 M	50 M	40 C	50 M HR	50 C HR
<b>Lubrication</b>					
Lubrication undercarriage, manually – decentralised (grease points)	•	•			
Lubrication undercarriage, manually – centralised (one grease point)	+	+		•	
Central lubrication system for uppercarriage and equipment, automatically	•	•	•	•	•
Central lubrication system for undercarriage, automatically	+	+		+	
Centralised lubrication extended for attachment	+	+	+	+	+
<b>Special coating</b>					
Special coating, variants	+	+	+	+	+
<b>Monitoring</b>					
Rear view monitoring with camera	•	•	•	•	•
Side view monitoring with camera	•	•	•	•	•

• = Standard, + = Option

\* = country-dependent

Options and/or special equipments, supplied by vendors other than Liebherr, are only to be installed with the knowledge and approval of Liebherr in order to retain warranty.

# The Liebherr Group of Companies



## Wide Product Range

The Liebherr Group is one of the largest construction equipment manufacturers in the world. Liebherr's high-value products and services enjoy a high reputation in many other fields. The wide range includes domestic appliances, aerospace and transportation systems, machine tools and maritime cranes.

## Exceptional Customer Benefit

Every product line provides a complete range of models in many different versions. With both their technical excellence and acknowledged quality, Liebherr products offer a maximum of customer benefits in practical applications.

## State-of-the-art Technology

To provide consistent, top quality products, Liebherr attaches great importance to each product area, its components and core technologies. Important modules and components are developed and manufactured in-house, for instance the entire drive and control technology for construction equipment.

## Worldwide and Independent

Hans Liebherr founded the Liebherr family company in 1949. Since then, the family business has steadily grown to a group of more than 140 companies with nearly 48,000 employees located on all continents. The corporate headquarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.

**[www.liebherr.com](http://www.liebherr.com)**