# Material Handling Machine





### LH 80 M Industry Litronic

Operating Weight: 71,500 – 76,500 kg\* Engine: 230 kW/313 HP Stage IV Stage IIIA System Performance: 437 kW

LH 80 C Industry Litronic

 Operating Weight:
 66,500
 80,000 kg\*

 Engine:
 230 kW/313 HP
 5tage IV
 5tage IV
 5tage IIIA

 System Performance:
 437 kW
 437 kW
 437 kW

LH 80 M High Rise Industry Litronic

Operating Weight: 86,500 – 91,800 kg\* Engine: 230 kW/313 HP Stage IV Stage IIIA System Performance: 437 kW

LH 80 C High Rise Industry Litronic Operating Weight: 87,800 – 95,000 kg\* Engine: 230 kW/313 HP Stage IV Stage IIIA System Performance: 437 kW

LH 80 C Gantry Industry Litronic Operating Weight: 107,200 – 112,500 kg\* Engine: 230 kW/313 HP Stage IV Stage IIIA System Performance: 437 kW

\* Without working tool

**Performance** Power plus speed – Redefined performance

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### Economy

Good investment -Savings for long-term

**Reliability** Durability and sustainability – Quality down to the last detail

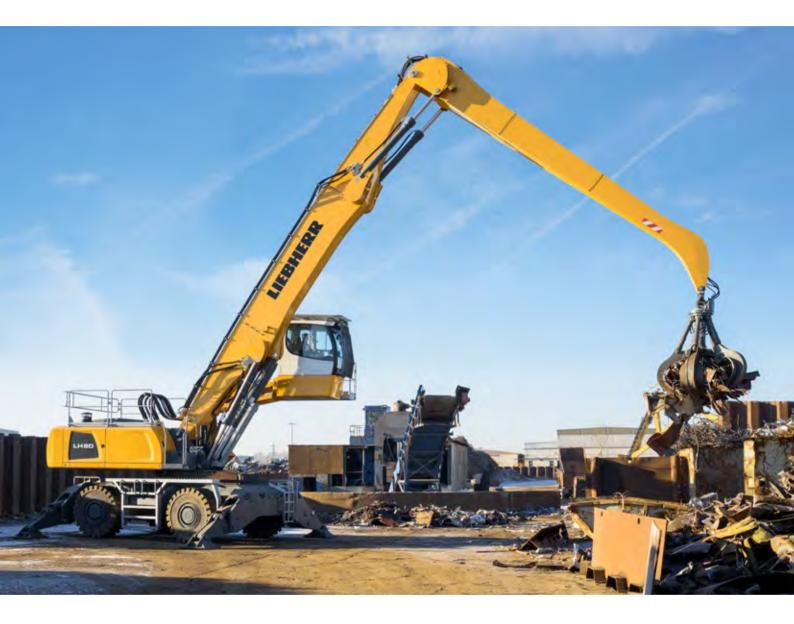
### Comfort

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 successful machines for material handling for over 50 years. With the different versions of the LH 80 Industry machine model of the new generation of Liebherr handlers, high performance and yet economical machines specially designed for use in scrap recycling, timber yards and for handling of bulk materials.

## Maximum Handling Capacity

### New power unit

The LH 80 Industry material handling machine features a powerful Liebherr 6-cylinder in-line engine with constant 230 kW and 12.0 l displacement. This guarantees the high performance level of the machine and at the same time reduces fuel consumption.

### **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 attachment in the ERC system is also available to the machine for the engine power, the resulting system performance for the material handling machine LH 80 is 437 kW. The result is more powerful, faster and more homogeneous operating cycles, which lead to increased handling capacity.

## **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 attachment 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 and minimised stress. Together with the elaborate support geometry, maximum stability and durability are guaranteed.







### Liebherr Diesel Engine Compliant with Stage IV and IIIA

- 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 IV

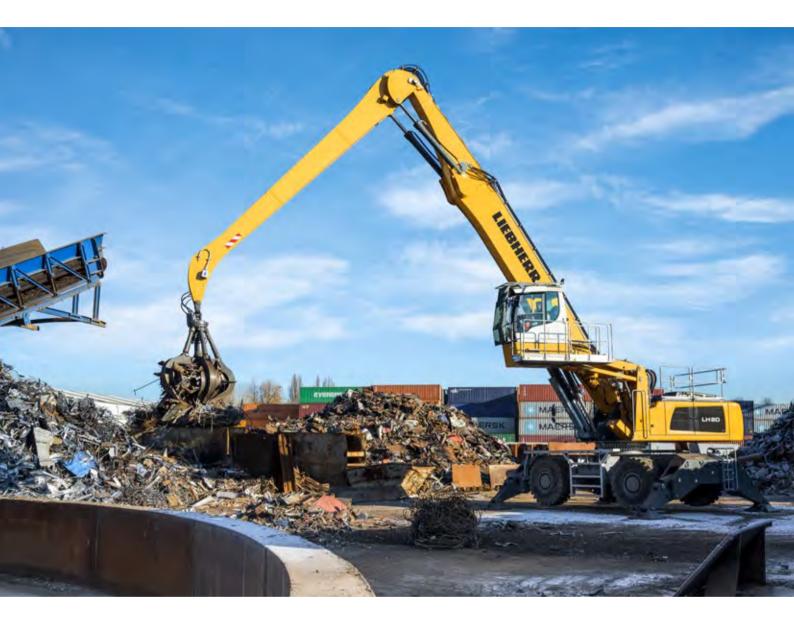
#### Closed Slewing Circuit

- 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

### 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 long-term

Liebherr material handling machines combine high productivity with excellent economy – all as standard. Liebherr manages to achieve this difficult goal through sophisticated engine technology from its own production and improved demand-controlled hydraulics.

## Fuel Efficiency

## Increased Productivity

### **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 saving 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**

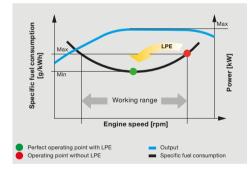
The closed slewing circuit feeds the braking energy back into the system when the uppercarriage is braked. Here, new standards are set in terms of efficiency and economy. Simple yet effective.

#### **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, as well as reduced pollutant and noise emissions.

#### **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 park 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 material handler LH 80.





## 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

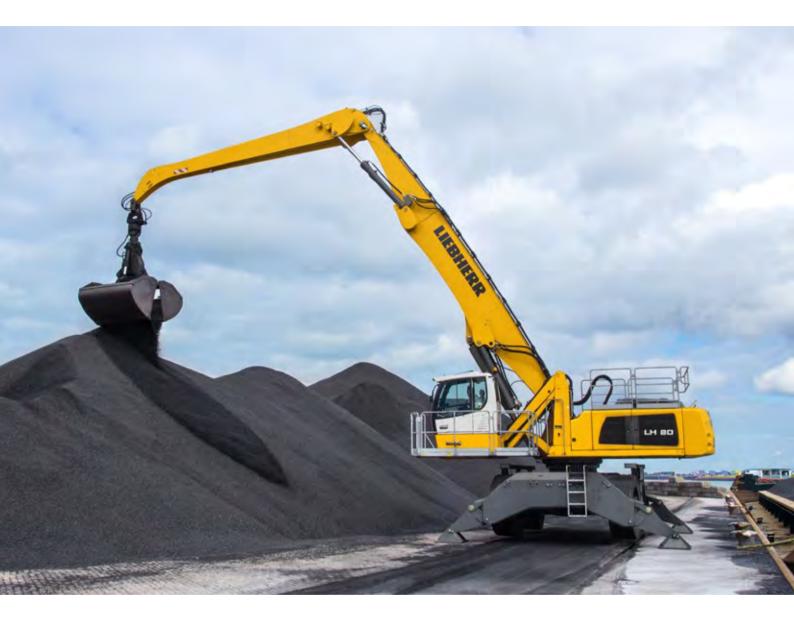
### Liebherr-Working Tools

- 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 show their qualities in a very wide 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 material handling machine LH 80 is designed for a long service life.

## More Safety

## High Machine Availability

### **Pipe Fracture Safety Valves**

The standard pipe fracture safety valves on the stick and hoist cylinders prevents the attachments 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 equipped optional with a working range limitation feature. Hereby all types of dimensions can be set: height, depth, width and proximity. Collisions and resulting component damage can thus be avoided.

### **Overload Warning Device and Load Torque Limitation**

The acoustic 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.

#### **Quality and Competence**

Our experience, understanding of customer needs and the technical implementation of these findings guarantee the success of the product. For decades, Liebherr has been inspirational with its depth of production and system solutions. Key components such as the diesel engine, electronic components, slewing ring, swivelling drive and hydraulic cylinders are developed and produced by Liebherr itself. The great depth 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 itself. 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 clever 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 with maintain uniform high quality

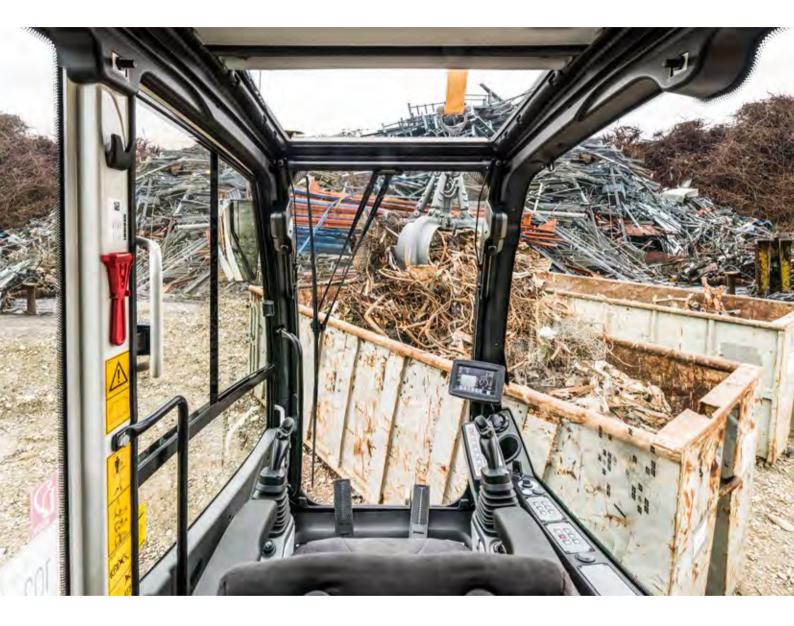
### Piston Rod Protection

- 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

### Attachment

- 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 over 22 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 remains intent and fully concentrated throughout the working day and enables him to deliver a constantly high performance.

## Deluxe Cab

## Comfortable Operation

### **Ergonomic Design**

The modern cab design provides excellent conditions for healthy, concentrated and productive work in maximum comfort. The colour touchscreen display, the controls and operator's seat Comfort 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 his working area and the zone around the machine. This perfect view enhances the operator's safety and ensures that he can handle the machine safety at all times.

#### Low Noise Levels

The use of viscoelastic mounts, good insulation and lownoise diesel engines from Liebherr minimises noise emissions and vibrations. The noise levels are just 71 dB(A) in the operator's cab and 105 dB(A) outside. This means that the material handler LH 80 have low noise to preserve people and the environment.

#### **Proportional Control**

Precision and fine control of the material handling machine are especially important in applications such as scrap recycling or when handling bulk material. Thanks to the standard proportional control, even such demanding operations can be mastered in style.

### **Steering and Stabilizer on Joystick**

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. Abandoning the steering wheel in favour of joystick steering provides additional legroom and a clear view of the working area. A new standard feature is the control of the outriggers with the joystick for more comfort and an increased productivity of the machine.

#### **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.



#### **Safe Access**

- Foldable left arm console, as well as wide, non-slip steps, catwalks and platforms, and ergonomically positioned handles for an 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

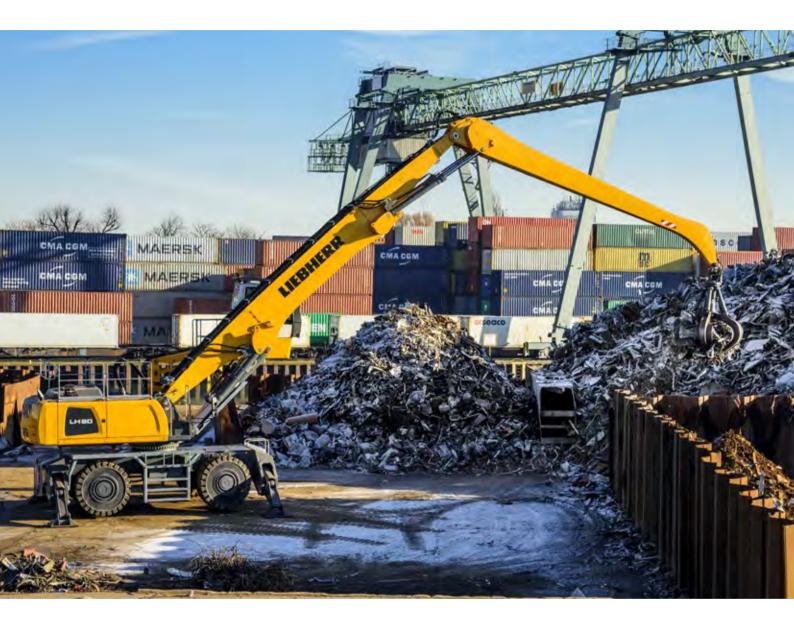
### **Operator's Seat Comfort** with Adjustable Armrests

- 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 healthful working

### Joystick with Proportional Control

- Good functionality with streamlined, ergonomic design
- 4-way mini-joystick enables versatile possibilities of control without having to encompass, for example steering, outriggers or working tools
- Joysticks each with two buttons and a rocker switch – also increase the number of functions and thanks to the new design maximum reliability is guaranteed

# **Maintainability**



## Efficiency bonus – Even with maintenance and service

The Liebherr material handling machine LH 80 is powerful, robust, precise and efficient. It also features integral maintenance benefits as a result of their service-based machine design. The maintenance work for the Liebherr material handler can be carried out quickly, easily and safely. This minimises the material handling machine's maintenance costs and down times.

## Elaborate Maintenance Concept

### Service-Based Machine Design

The service-based machine design guarantees short servicing times, thus minimising maintenance costs due to the time it saves. All the maintenance points are easily accessible on catwalks and platforms, and easy to reach due to the large, wideopening service doors. The enhanced service concept places the maintenance points close to each other and reduces their number to a minimum. This means that service work can be completed even more quickly and efficiently.

#### **Integral Maintenance Benefits**

Completing maintenance work helps keep the machine fully functional. Maintenance work does, however, mean machine down times which must be minimised. With change intervals of up to 2,000 hours for engine oil and up to 8,000 hours for hydraulic oil Liebherr reduce the amount of maintenance significantly and increase the productivity of the material handlers. In addition, central lubrication systems assist to optimise the daily amount of 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, valuepriced repair alternatives, original parts management, as well as remote data transmission for machine planning and fleet management.



### Lubrication as it Works

- Fully automatic central lubrication system for uppercarriage and attachment
- Fully automatic central lubrication system for the undercarriage and working tools 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 on catwalks and platforms
- The oil level in the hydraulic tank can be checked from the cab
- Short service times for more productivity

### Rapid Spare Parts Service

- 24-hour delivery: Spare parts service is available for our dealers around the clock
- Electronic spare parts catalogue: Fast and reliable selection and ordering via the Liebherr online portal
- With online tracking, the current processing status of your order can be viewed at any time

# Material Handling Machine Overview

### Attachment

- 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
- Electro-hydraulic end position control extends the service life of the components
- Quick coupling systems and working tools 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 minijoystick for greater precision, highprecision control and functions





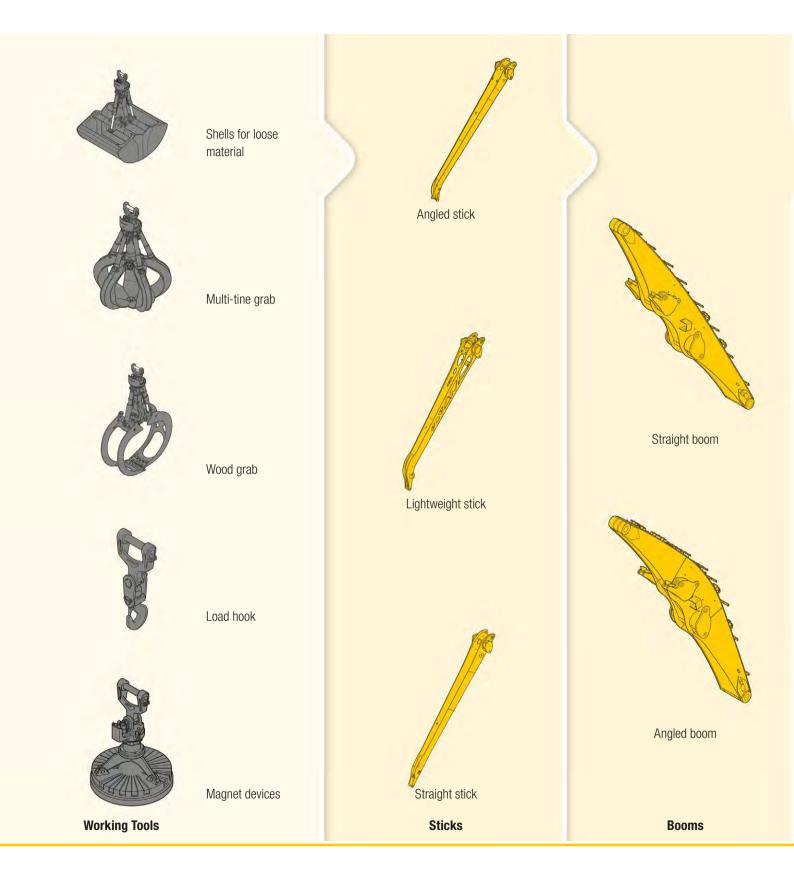
### Uppercarriage

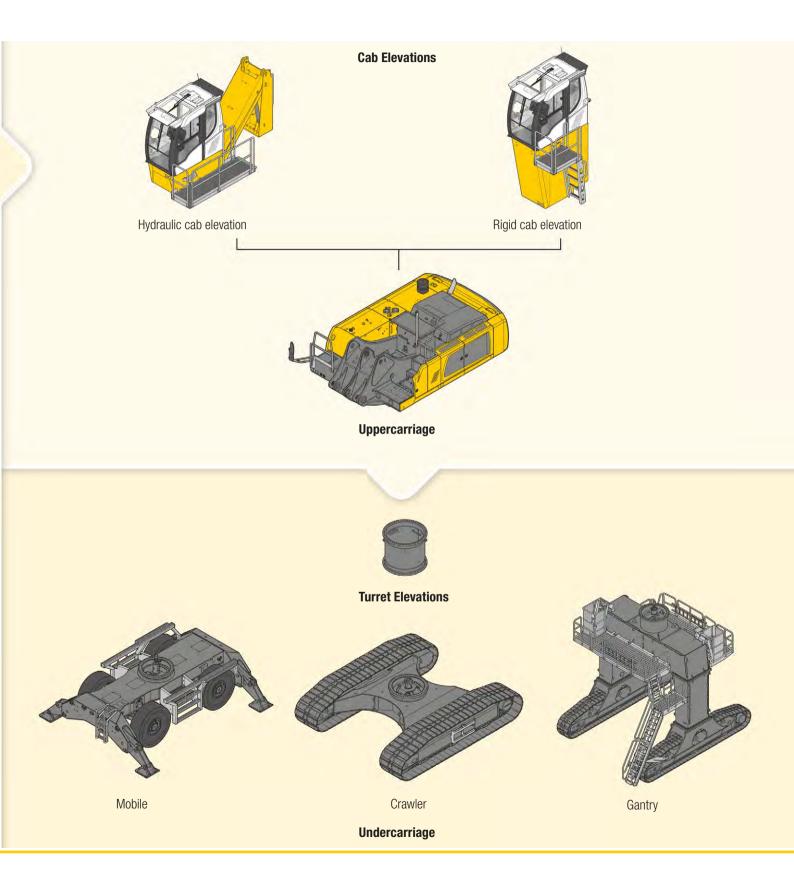
- 2-circuit Liebherr-Synchron-Comfortsystem (LSC) with LUDV technology for faster working speed at up to 20 % less fuel consumption
- 230 kW engine output and greater pump flow for fast work cycles, convincing dynamics and maximum handling performance
- Electrical pilot control enables individual settings for the operator and new options such as load torque limitation
- 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/full automatic) for more productive working time (optional available)
- Load-holding valves fitted as standard on all support cylinders for maximum stability in every application
- Low service costs thanks to travel drive without gearbox and cardan shafts

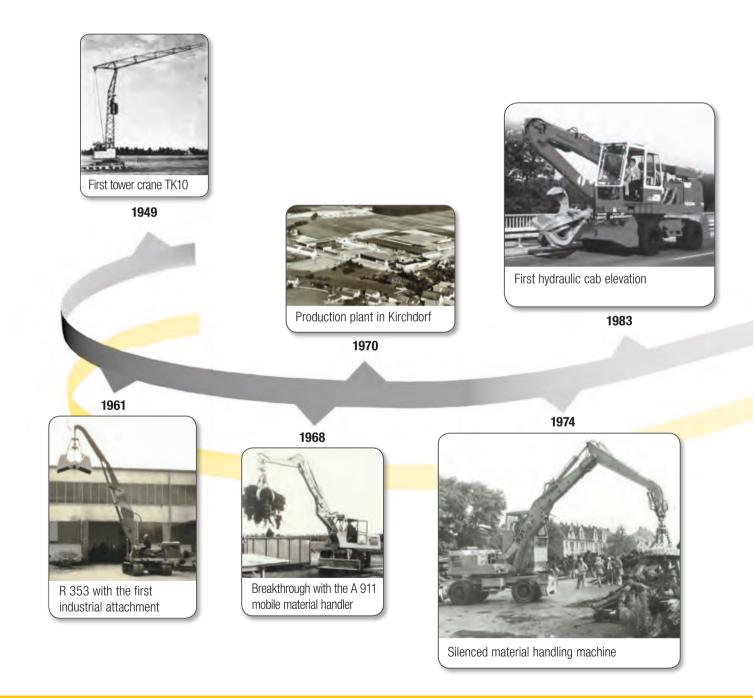
# **The Perfect Solution for Every Application**





# **Experience the Progress**

The invention of the mobile tower crane in 1949 also marked the birth of the Liebherr company. During its first decade the small construction company developed into an established manufacturer of construction machines and other technically advanced products. The R 353 and its first industrial attachment were launched in 1951 to lay the foundations for the production of today's material handling machines. The A 911 mobile material handling machine a few years later enabled the company to make the breakthrough into material handling. Over the years the machines have been developed continually and today the are designed uncompromising for the industrial use.



Liebherr has now been developing and manufacturing material handling machines for a very wide range of applications in the scrap, port and timber handling sectors and for the waste and recycling industry for over 50 years. In the development of its machines, Liebherr chooses quality, durability and reliability from the very outset, together with performance and economy.

Years of experience in design and construction are not only reflected in the end product but also in the components which are developed, designed and manufactured by Liebherr itself. This multiple sector expertise is used in product design from the early phase of the development process and thus allows high level technical innovations to be made.



2007



2011

Launch of the new LH series

2013

2010



Awarded the Bauma Design Prize for the LH 120



Awarded the Bauma Innovation Prize for the ERC cylinder



# **Technical Data**

## Diesel Engine

|                          | / -  |
|--------------------------|--|
| Rating per ISO 9249      | 230 kW (313 HP) at 1,800 RPM                       |
| Model                    | Liebherr D946                                      |
| Туре                     | 6 cylinder in-line                                 |
| Bore/Stroke              | 130/150 mm   |
| Displacement             | 11.95  |
| Engine operation         | 4-stroke diesel                                    |
|                          | Common-Rail  |
|                          | turbo-charged and after-cooled                     |
|                          | reduced emissions                                  |
| Air cleaner              | dry-type air cleaner with pre-cleaner, primary and |
|                          | safety elements                                    |
| Engine idling            | sensor controlled                                  |
| Electrical system        |  |
| Voltage                  | 24 V   |
| Batteries                | 2 x 180 Ah/12 V                                    |
| Alternator               | three-phase current 28 V/140 A                     |
| Stage IV                 |  |
| Harmful emissions values | in accordance with 97/68/EG stage IV               |
| Emission control         | Liebherr-SCR technology                            |
| Fuel tank                | 660 I  |
| Urea tank                | 65 I   |
| Stage IIIA               |  |
| Harmful emissions values | in accordance with 97/68/EG stage IIIA             |
| Fuel tank                | 660 I  |
|                          |  |

# Hydraulic System

| Hydraulic pump                                    |   |
|---|---|
| for attachment                                    | 2 Liebherr axial piston variable displacement pumps   |
| and travel drive                                  | (double construction)   |
| Max. flow   | 2 x 362 l/min.  |
| Max. pressure                                     | 350 bar   |
| for swing drive                                   | reversible axial piston variable displacement pump, closed-loop circuit   |
| Max. flow   | 196 l/min.  |
| Max. pressure                                     | 370 bar   |
| Hydraulic pump<br>regulation and control          | 2 circuit Liebherr-Synchron-Comfort-system (LSC)<br>with electronic engine speed sensing regulation,<br>pressure and flow compensation, automatic oil flow<br>optimizer   |
| Hydraulic tank                                    | 340 I   |
| Hydraulic system                                  | 910 I   |
| Filterung   | 2 main return filters with integrated partial micro filtration (5 $\mu\text{m})$  |
| MODE selection                                    | adjustment of engine and hydraulic performance via<br>a mode pre-selector to match application, e.g. for<br>especially economical and environmentally friendly<br>operation or for maximum material handling and<br>heavy-duty jobs |
| S (Sensitive)                                     | mode for precision work and lifting through very sensitive movements  |
| E (Eco)   | mode for especially economical and environmentally<br>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  |
| Engine speed and<br>performance setting<br>Option | stepless alignment of engine output and hydraulic<br>power via engine speed<br>Tool Control: ten preadjustable pump flows and<br>pressures for add on tools   |
|   |   |

# Cooling System

Diesel engine

water-cooled cooling system, consisting of a cooling unit for water and charge air and a 2<sup>nd</sup> cooler for hydraulic oil, each with an infinitely variable, thermostatically controlled fan drive system

## Swing Drive

| Drive         | Liebherr axial piston motor in a closed system,<br>Liebherr planetary reduction gear |
|---------------|--|
| Swing ring    | Liebherr, sealed race ball bearing swing ring,<br>internal teeth                     |
| Swing speed   | 0 – 6.5 RPM stepless   |
| Swing torque  | 141 kNm  |
| Holding brake | wet multi-disc (spring applied, pressure released)                                   |
| Option        | pedal controlled positioning swing brake   |
|               |  |

## Hydraulic Controls

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

## Operator's Cab

| Cab                    | safety cab structure with individual windscreens or<br>featuring a slide-in subpart under the ceiling, work<br>headlights integrated in the ceiling, a door with a<br>sliding window (can be opened on both sides), large<br>stowing and depositing possibilities, shock-absorbing<br>suspension, sounddamping insulating, tinted laminated<br>safety glass, separate shades for the sunroof window<br>and windscreen |
|------------------------|---|
| High Rise / Gantry     | deviating from standard: safety cab structure with<br>fixed built-in front and roof window made from impact-<br>resistant laminated safety glass  |
| Operator's seat        |   |
| Comfort                | air cushioned operator's seat with 3D-adjustable arm-<br>rests, headrest, lap belt, seat heater, adjustable seat<br>cushion inclination and length, lockable horizontal<br>suspension, automatic weight adjustment, adjustable<br>suspension stiffness, pneumatic lumbar vertebrae<br>support and passive seat climatisation with active coal   |
| Option                 |   |
| Premium                | in addition to operator's seat comfort: active electronic<br>weight adjustment (automatic readjustment), pneu-<br>matic low frequency suspension and active seat clima-<br>tisation with active coal and ventilator   |
| Control system         | joysticks with arm consoles and swivel seat, folding left arm console   |
| Operation and displays | large high-resolution operating unit, selfexplanatory,<br>colour display with touchscreen, video-compatible,<br>numerous setting, control and monitoring options,<br>e.g. air conditioning control, fuel consumption,<br>machine and tool parameters  |
| Air-conditioning       | automatic air-conditioning, recirculated air function,<br>fast de-icing and demisting at the press of a button,<br>air vents can be operated via a menu; recirculated air<br>and fresh air filters can be easily replaced and are<br>accessible from the outside; heating-cooling unit,<br>designed for extreme out-side temperatures, sensors<br>for solar radiation, inside and outside temperatures                |

## Attachment

| Туре                       | high-strength steel plates at highlystressed points<br>for the toughest requirements. Complex and stable<br>mountings of attachment and cylinders |  |  |
|----------------------------|---|--|--|
| Hydraulic cylinders        | Liebherr cylinders with special seal system as well as<br>shock absorption  |  |  |
| Energy recovering cylinder | Liebherr gas cylinder with special sealing and control<br>system  |  |  |
| Bearings                   | sealed, low maintenance   |  |  |

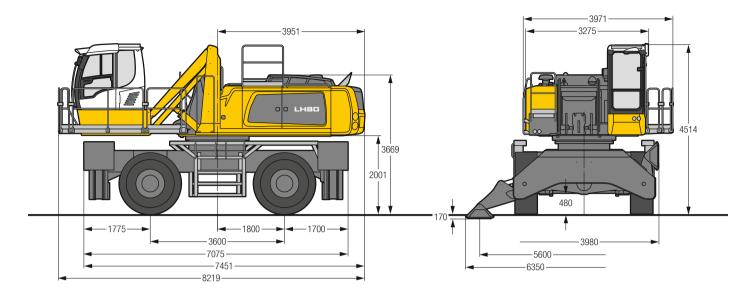
# 💼 Undercarriage

|                   | 0   |  |  |  |
|-------------------|---|--|--|--|
| Mobile            |   |  |  |  |
| Versions          | Standard, High Rise   |  |  |  |
| Drive             | one axle drive per drive axle with Liebherr axial piston  |  |  |  |
|                   | motor and functional brake valve on both sides  |  |  |  |
| Travel speed      |   |  |  |  |
| Joystick steering | 0 - 3.5 km/h stepless (creeper speed)   |  |  |  |
|                   | 0 – 10.0 km/h stepless  |  |  |  |
|                   | 0 – 8.0 km/h stepless (High Rise)   |  |  |  |
| Driving operation | automotive driving using accelerator pedal, cruise  |  |  |  |
|                   | control function: storage of variable accelerator pedal<br>positions                                    |  |  |  |
| Axles             | 90 t drive axles; manual or automatic hydraulically<br>controlled front axle oscillation lock           |  |  |  |
| Service brake     | two circuit travel brake system with accumulator;<br>disc brake   |  |  |  |
| Holding brake     | wet multi-disc (spring applied, pressure released)  |  |  |  |
| Stabilization     | 4 point outriggers  |  |  |  |
| Crawler           |   |  |  |  |
| Versions          | EW, SW, High Rise, Gantry   |  |  |  |
| Drive             | Liebherr compact planetary reduction gear with<br>Liebherr axial piston motor per side of undercarriage |  |  |  |
| Travel speed      | EW: $0 - 2.8$ km/h stepless (creeper speed)<br>0 - 4.0 km/h stepless                                    |  |  |  |
|                   | SW: $0 - 2.5$ km/h stepless (creeper speed)<br>0 - 4.1 km/h stepless                                    |  |  |  |
|                   | High Rise: 0 – 2.0 km/h stepless (creeper speed)  |  |  |  |
|                   | 0 – 2.9 km/h stepless   |  |  |  |
|                   | Gantry: 0 – 2.5 km/h stepless (creeper speed)   |  |  |  |
|                   | 0 – 3.6 km/h stepless   |  |  |  |
| Brake             | functional brake valves on both sides   |  |  |  |
| Holding brake     | wet multi-disc (spring applied, pressure released)  |  |  |  |
| Track pads        | triple grouser, flat  |  |  |  |
|                   |   |  |  |  |

## Complete Machine

| Lubrication    | Liebherr central lubrication system for uppercarriage<br>and attachment, automatically |  |  |
|----------------|--|--|--|
| Option         | -  |  |  |
| Mobile         | Liebherr central lubrication system for undercarriage, automatically                   |  |  |
| Steps system   | safe and durable access system with anti-slip steps<br>main components hot-galvanised  |  |  |
| Noise emission |  |  |  |
| ISO 6396       | $L_{pA}$ (inside cab) = 71 dB(A)   |  |  |
| 2000/14/EC     | $L_{WA}$ (surround noise) = 105 dB(A)  |  |  |

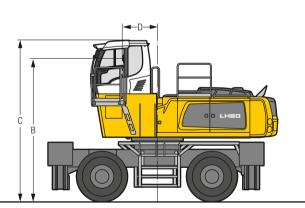
# **LH 80 M – Dimensions**



# **LH 80 M – Choice of Cab Elevation**

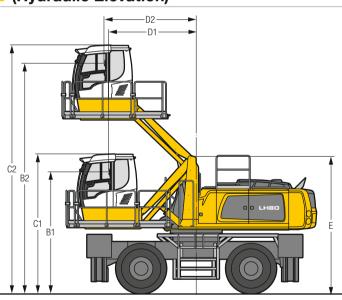
Cab Elevation LFC (Rigid Elevation)

Cab Elevation LHC (Hydraulic Elevation)



| Increase type |    | LFC 120 | LFC 200 |
|---------------|----|---------|---------|
| Height        | mm | 1,200   | 2,000   |
| В             | mm | 4,701   | 5,501   |
| C             | mm | 5,214   | 6,014   |
| D             | mm | 1,128   | 1,128   |

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 4,318 mm.

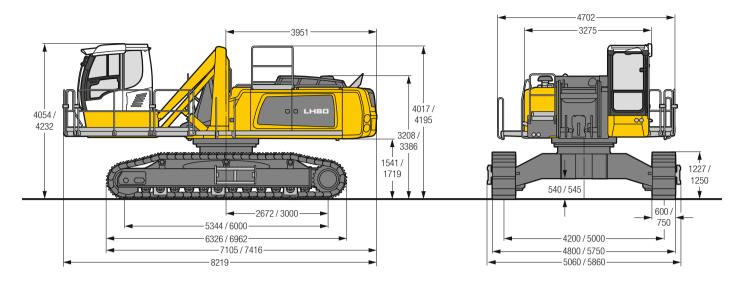


| Increase type | LHC 255        | LHC 340-35 | LHC 360-50 |
|---------------|----------------|------------|------------|
| B1 mr         | <b>n</b> 3,501 | 3,852      | 4,001      |
| B2 mr         | <b>n</b> 6,048 | 7,267      | 7,571      |
| C1 mr         | <b>n</b> 4,014 | 4,366      | 4,514      |
| C2 mr         | <b>n</b> 6,561 | 7,780      | 8,085      |
| D1 mr         | <b>n</b> 1,683 | 2,796      | 2,854      |
| D2 mr         | <b>n</b> 1,809 | 2,797      | 3,004      |
| E mr          | n 3,916        | 4,306      | 4,456      |

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

#### Tyres 23.5-25

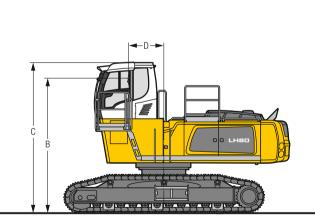
# LH 80 C EW/SW – Dimensions



# LH 80 C EW/SW - Choice of Cab Elevation

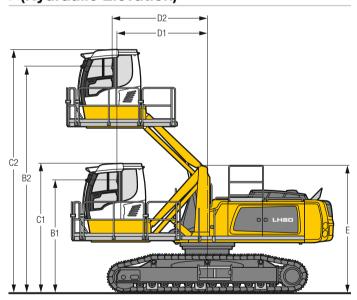
Cab Elevation LFC (Rigid Elevation)

Cab Elevation LHC (Hydraulic Elevation)



| Increase type |    | LFC 120     | LFC 200     |
|---------------|----|-------------|-------------|
| Height        | mm | 1,200       | 2,000       |
| В             | mm | 4,240/4,418 | 5,040/5,218 |
| C             | mm | 4,754/4,932 | 5,554/5,732 |
| D             | mm | 1,128       | 1,128       |

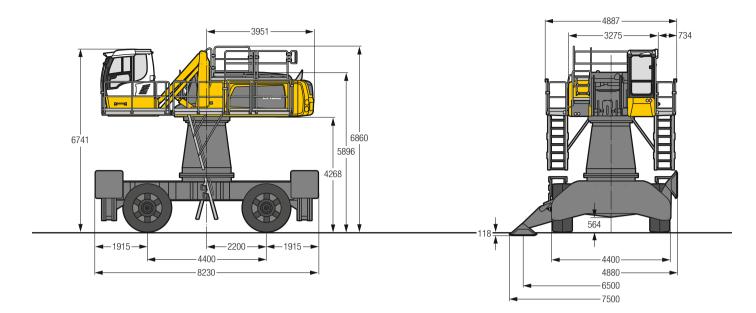
A rigid cab elevation has a fixed eye level height. For a lower transport height, the shell of the cab can be removed and replaced by a transport device. The dimension C is in this machine design for all rigid cab elevations 3,858 mm.



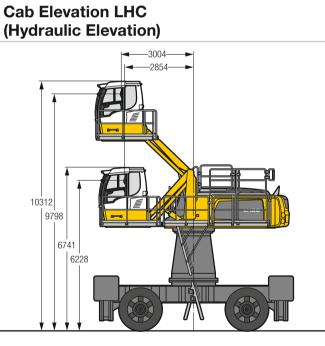
| Increase type | LHC 255     | LHC 340-35  | LHC 360-50  |
|---------------|-------------|-------------|-------------|
| B1 mm         | 3,040/3,218 | 3,392/3,570 | 3,540/3,718 |
| B2 mm         | 5,587/5,765 | 6,807/6,985 | 7,111/7,289 |
| C1 mm         | 3,554/3,732 | 3,905/4,083 | 4,054/4,232 |
| C2 mm         | 6,101/6,279 | 7,320/7,498 | 7,625/7,803 |
| D1 mm         | 1,683       | 2,796       | 2,854       |
| D2 mm         | 1,809       | 2,797       | 3,004       |
| E mm          | 3,456/3,634 | 3,846/4,024 | 3,996/4,173 |

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

# LH 80 M HR – Dimensions



# LH 80 M HR – Cab Elevation



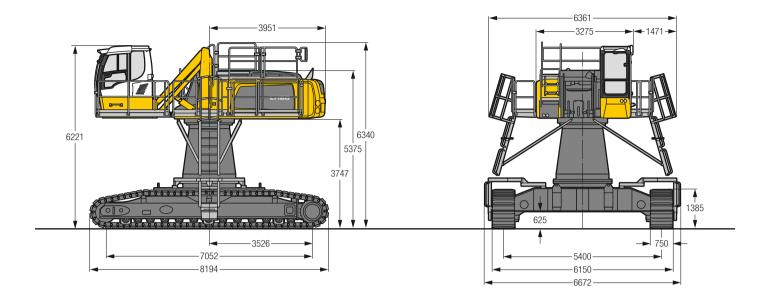
#### Increase type

LHC 360-50

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

#### Tyres 26.5 x 25

# **LH 80 C HR – Dimensions**



# **LH 80 C HR – Choice of Cab Elevation**

**Cab Elevation LHC** (Hydraulic Elevation)

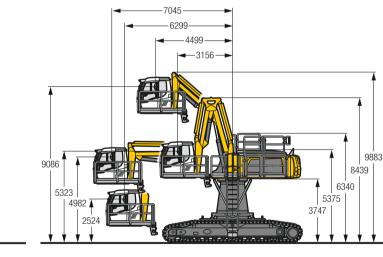
9791

9278

6221

5707

**Cab Elevation LHC-D** (Hydraulic Elevation)



### Increase type

LHC 360-50 The hydraulically adjustable cab allows the driver, that he can choose his field of view freely and at any time within the stroke.

-3004--

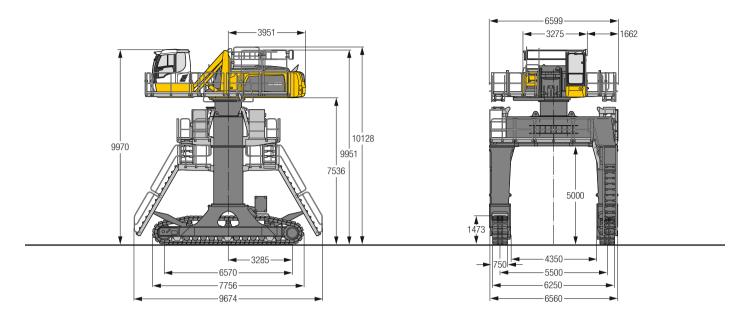
-2854--



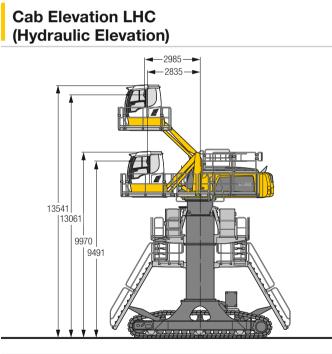
### LHC-D 730

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

# **LH 80 C Gantry – Dimensions**



# LH 80 C Gantry – Cab Elevation



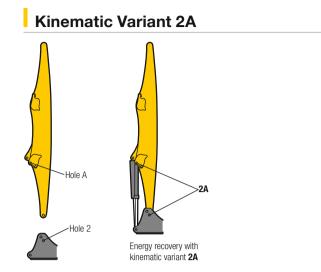
### Increase type

LHC 360-50

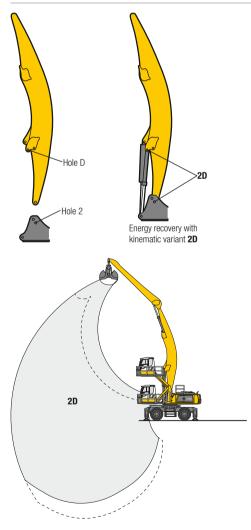
The hydraulically adjustable cab allows the driver, that he can choose his field of view freely and at any time within the stroke.

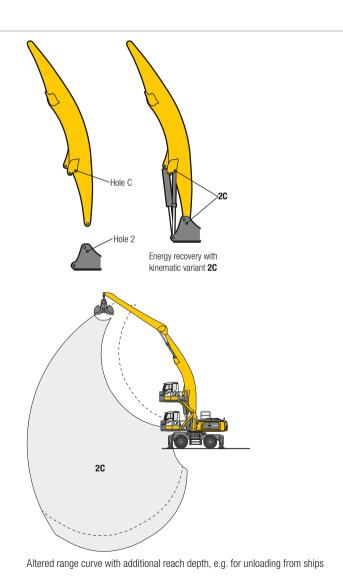
# **Kinematic Variants**



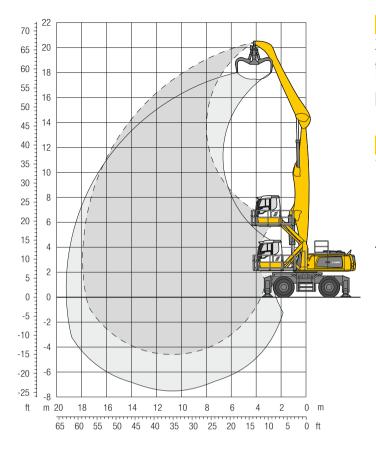


### Kinematic Variant 2D/2C





Industry – Kinematic 2A



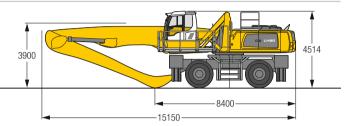
### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tyres, straight boom 10.50 m, angled stick 7.80 m and grab model GMM 80-5/ 1.70 m<sup>3</sup> semi-closed tines.

Weight

75,800 kg

### Dimensions



| •        |                       | 6.0   | ) m   | 7.5   | i m   | 9.0   | ) m   | 10.   | 5 m   | 12.0  | ) m   | 13.   | 5 m   | 15.   | 0 m   | 16.5 | 5 m  | 18. | 0 m | 19. | 5 m | 21. | ) m | / /   |       | <b>a</b> |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-----|-----|-----|-----|-----|-----|-------|-------|----------|
| ↓∕∕<br>m | Undercarriage         |       | Ľ     | 5     | Ľ     | 5     | Ľ     |       | Ľ     |       | Ľ     |       | Ľ     |       | Ľ     |      | Ľ    | 5   | Ŀ   | 5   | Ľ   |     | Ŀ   | 5     | Ŀ     | m        |
| 22.5     | 4 pt. outriggers down |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |     |     |     |     |     |     |       |       |          |
| 21.0     | 4 pt. outriggers down |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |     |     |     |     |     |     |       |       |          |
| 19.5     | 4 pt. outriggers down | 15.1* | 15.1* |       |       |       |       |       |       |       |       |       |       |       |       |      |      |     |     |     |     |     |     | 12.9* | 12.9* | 7.1      |
| 18.0     | 4 pt. outriggers down |       |       | 14.8* | 14.8* | 12.6* | 12.6* |       |       |       |       |       |       |       |       |      |      |     |     |     |     |     |     | 10.6* | 10.6* | 9.9      |
| 16.5     | 4 pt. outriggers down |       |       | 15.7* | 15.7* | 14.4* | 14.4* | 12.5* | 12.5* |       |       |       |       |       |       |      |      |     |     |     |     |     |     | 9.5*  | 9.5*  | 11.9     |
| 15.0     | 4 pt. outriggers down |       |       |       |       | 15.4* | 15.4* | 13.8* | 13.8* | 12.2* | 12.2* |       |       |       |       |      |      |     |     |     |     |     |     | 8.8*  | 8.8*  | 13.4     |
| 13.5     | 4 pt. outriggers down |       |       |       |       | 15.3* | 15.3* | 13.7* | 13.7* | 12.5* | 12.5* | 11.4* | 11.4* |       |       |      |      |     |     |     |     |     |     | 8.4*  | 8.4*  | 14.6     |
| 12.0     | 4 pt. outriggers down |       |       |       |       | 15.4* | 15.4* | 13.8* | 13.8* | 12.5* | 12.5* | 11.5* | 11.5* | 10.1* | 10.1* |      |      |     |     |     |     |     |     | 8.1*  | 8.1*  | 15.6     |
| 10.5     | 4 pt. outriggers down |       |       | 17.3* | 17.3* | 15.7* | 15.7* | 13.9* | 13.9* | 12.6* | 12.6* | 11.5* | 11.5* | 10.6* | 10.6* |      |      |     |     |     |     |     |     | 7.9*  | 7.9*  | 16.3     |
| 9.0      | 4 pt. outriggers down |       |       | 18.6* | 18.6* | 16.1* | 16.1* | 14.2* | 14.2* | 12.8* | 12.8* | 11.6* | 11.6* | 10.7* | 10.7* | 9.7* | 9.7* |     |     |     |     |     |     | 7.9*  | 7.9*  | 16.9     |
| 7.5      | 4 pt. outriggers down | 19.5* | 19.5* | 19.5* | 19.5* | 16.7* | 16.7* | 14.6* | 14.6* | 13.1* | 13.1* | 11.8* | 11.8* | 10.8* | 10.8* | 9.6  | 9.8* |     |     |     |     |     |     | 7.9*  | 7.9*  | 17.4     |
| 6.0      | 4 pt. outriggers down | 25.5* | 25.5* | 20.6* | 20.6* | 17.4* | 17.4* | 15.1* | 15.1* | 13.3* | 13.3* | 12.0* | 12.0* | 10.8* | 10.8* | 9.5  | 9.8* |     |     |     |     |     |     | 7.9*  | 7.9*  | 17.7     |
| 4.5      | 4 pt. outriggers down | 27.5* | 27.5* | 21.8* | 21.8* | 18.1* | 18.1* | 15.5* | 15.5* | 13.6* | 13.6* | 12.1* | 12.1* | 10.9* | 10.9* | 9.3  | 9.7* |     |     |     |     |     |     | 8.1*  | 8.1*  | 17.9     |
| 3.0      | 4 pt. outriggers down | 20.0* | 20.0* | 22.7* | 22.7* | 18.7* | 18.7* | 15.9* | 15.9* | 13.8* | 13.8* | 12.2* | 12.2* | 10.7  | 10.8* | 9.2  | 9.6* |     |     |     |     |     |     | 8.1*  | 8.1*  | 17.9     |
| 1.5      | 4 pt. outriggers down | 10.5* | 10.5* | 23.2* | 23.2* | 19.0* | 19.0* | 16.1* | 16.1* | 13.9* | 13.9* | 12.2* | 12.2* | 10.4  | 10.7* | 9.1  | 9.2* |     |     |     |     |     |     | 7.6*  | 7.6*  | 17.8     |
| 0        | 4 pt. outriggers down | 9.0*  | 9.0*  | 20.9* | 20.9* | 18.8* | 18.8* | 15.9* | 15.9* | 13.7* | 13.7* | 11.9* | 11.9* | 10.3* | 10.3* | 8.6* | 8.6* |     |     |     |     |     |     | 7.0*  | 7.0*  | 17.6     |
| -1.5     | 4 pt. outriggers down | 9.4*  | 9.4*  | 17.8* | 17.8* | 18.0* | 18.0* | 15.3* | 15.3* | 13.1* | 13.1* | 11.2* | 11.2* | 9.5*  | 9.5*  | 7.6* | 7.6* |     |     |     |     |     |     | 6.8*  | 6.8*  | 16.9     |
| -3.0     | 4 pt. outriggers down |       |       | 17.4* | 17.4* | 16.3* | 16.3* | 14.0* | 14.0* | 11.9* | 11.9* | 10.1* | 10.1* | 8.2*  | 8.2*  |      |      |     |     |     |     |     |     | 7.6*  | 7.6*  | 15.4     |
| -4.5     | 4 pt. outriggers down |       |       |       |       |       |       | 11.9* | 11.9* |       |       |       |       |       |       |      |      |     |     |     |     |     |     | 10.2* | 10.2* | 11.8     |

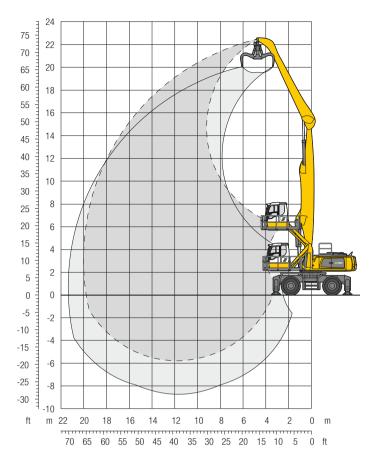
1/2 Height 🛁 Can be slewed through 360° 💾 In longitudinal position of undercarriage

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 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 working tools (grabs, load hooks, etc.) and load accommodation equipment 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 unit is limited by its stability.

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 warming device, a load hook and a lift capacity chart.

Industry – Kinematic 2A



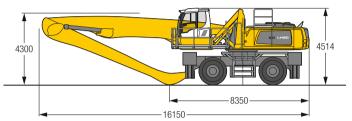
## Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tyres, straight boom 11.50 m, angled stick 9.00 m and grab model GMM 80-5/1.70 m<sup>3</sup> semi-closed tines.

76,800 kg

Weight

### Dimensions



| •                |                       | 6.0   | m     | 7.5   | i m   | 9.0   | m     | 10.   | 5 m   | 12.   | 0 m   | 13.5  | 5 m   | 15.0  | 0 m   | 16.5 | 5 m  | 18.0 | ) m  | 19.5 | 5 m  | 21.0 | ) m |       |       |      |
|------------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|-----|-------|-------|------|
| ↓ <mark>/</mark> |                       |       | J.    | _     | l 1   | -     | 1     | -     | 1.    | -     | L.    |       | 1.    |       | 1     | _    | 1.   | _    | 1    | _    | հ    | -    | J,  |       | آ_ل   |      |
| m                | Undercarriage         |       | Ľ     |       | Ľ     | 5     |       |       | Ľ     |       |       |       | Ľ     | 5     | Ľ     |      | 比    | 5    |      | 5    | Ľ    |      |     |       | 법     | m    |
| 22.5             | 4 pt. outriggers down |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |     | 14.5* | 14.5* | 4.7  |
| 21.0             | 4 pt. outriggers down |       |       | 12.5* | 12.5* |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |     | 10.3* | 10.3* | 8.9  |
| 19.5             | 4 pt. outriggers down |       |       |       |       | 12.3* | 12.3* | 10.6* | 10.6* |       |       |       |       |       |       |      |      |      |      |      |      |      |     | 8.8*  | 8.8*  | 11.5 |
| 18.0             | 4 pt. outriggers down |       |       |       |       | 13.1* | 13.1* | 12.0* | 12.0* | 10.4* | 10.4* |       |       |       |       |      |      |      |      |      |      |      |     | 7.9*  | 7.9*  | 13.4 |
| 16.5             | 4 pt. outriggers down |       |       |       |       |       |       | 12.8* | 12.8* | 11.6* | 11.6* | 10.1* | 10.1* |       |       |      |      |      |      |      |      |      |     | 7.4*  | 7.4*  | 14.9 |
| 15.0             | 4 pt. outriggers down |       |       |       |       |       |       | 12.7* | 12.7* | 11.5* | 11.5* | 10.5* | 10.5* | 9.5*  | 9.5*  |      |      |      |      |      |      |      |     | 7.0*  | 7.0*  | 16.2 |
| 13.5             | 4 pt. outriggers down |       |       |       |       |       |       | 12.7* | 12.7* | 11.5* | 11.5* | 10.4* | 10.4* | 9.6*  | 9.6*  | 8.5* | 8.5* |      |      |      |      |      |     | 6.8*  | 6.8*  | 17.2 |
| 12.0             | 4 pt. outriggers down |       |       |       |       | 14.4* | 14.4* | 12.8* | 12.8* | 11.5* | 11.5* | 10.5* | 10.5* | 9.6*  | 9.6*  | 8.9* | 8.9* |      |      |      |      |      |     | 6.6*  | 6.6*  | 18.0 |
| 10.5             | 4 pt. outriggers down |       |       |       |       | 14.8* | 14.8* | 13.0* | 13.0* | 11.7* | 11.7* | 10.6* | 10.6* | 9.6*  | 9.6*  | 8.9* | 8.9* | 8.2* | 8.2* |      |      |      |     | 6.6*  | 6.6*  | 18.7 |
| 9.0              | 4 pt. outriggers down |       |       | 15.2* | 15.2* | 15.2* | 15.2* | 13.3* | 13.3* | 11.9* | 11.9* | 10.7* | 10.7* | 9.7*  | 9.7*  | 8.9* | 8.9* | 8.2* | 8.2* |      |      |      |     | 6.5*  | 6.5*  | 19.2 |
| 7.5              | 4 pt. outriggers down | 15.0* | 15.0* | 17.6* | 17.6* | 15.8* | 15.8* | 13.7* | 13.7* | 12.1* | 12.1* | 10.8* | 10.8* | 9.8*  | 9.8*  | 9.0* | 9.0* | 8.1  | 8.2* | 6.8* | 6.8* |      |     | 6.5*  | 6.5*  | 19.6 |
| 6.0              | 4 pt. outriggers down | 22.4* | 22.4* | 19.5* | 19.5* | 16.3* | 16.3* | 14.1* | 14.1* | 12.4* | 12.4* | 11.0* | 11.0* | 9.9*  | 9.9*  | 9.0* | 9.0* | 8.0  | 8.2* | 6.8  | 7.3* |      |     | 6.6*  | 6.6*  | 19.8 |
| 4.5              | 4 pt. outriggers down | 25.9* | 25.9* | 20.5* | 20.5* | 16.9* | 16.9* | 14.5* | 14.5* | 12.6* | 12.6* | 11.2* | 11.2* | 10.0* | 10.0* | 9.0* | 9.0* | 7.8  | 8.1* | 6.8  | 7.1* |      |     | 6.4   | 6.7*  | 20.0 |
| 3.0              | 4 pt. outriggers down | 15.4* | 15.4* | 21.3* | 21.3* | 17.4* | 17.4* | 14.8* | 14.8* | 12.8* | 12.8* | 11.3* | 11.3* | 10.0* | 10.0* | 8.8  | 9.0* | 7.6  | 8.0* | 6.7  | 6.9* |      |     | 6.4   | 6.4*  | 20.0 |
| 1.5              | 4 pt. outriggers down | 7.7*  | 7.7*  | 21.6* | 21.6* | 17.7* | 17.7* | 14.9* | 14.9* | 12.9* | 12.9* | 11.3* | 11.3* | 10.0  | 10.0* | 8.6  | 8.9* | 7.5  | 7.8* | 6.5* | 6.5* |      |     | 6.0*  | 6.0*  | 20.0 |
| 0                | 4 pt. outriggers down | 6.5*  | 6.5*  | 14.7* | 14.7* | 17.6* | 17.6* | 14.9* | 14.9* | 12.8* | 12.8* | 11.2* | 11.2* | 9.7   | 9.8*  | 8.4  | 8.6* | 7.4  | 7.4* | 5.9* | 5.9* |      |     | 5.5*  | 5.5*  | 19.8 |
| -1.5             | 4 pt. outriggers down | 6.7*  | 6.7*  | 12.6* | 12.6* | 17.0* | 17.0* | 14.4* | 14.4* | 12.4* | 12.4* | 10.8* | 10.8* | 9.4*  | 9.4*  | 8.1* | 8.1* | 6.8* | 6.8* | 210  | 210  |      |     | 5.0*  | 5.0*  | 19.4 |
| -3.0             | 4 pt. outriggers down | 7.5*  | 7.5*  | 12.3* | 12.3* | 15.8* | 15.8* | 13.5* | 13.5* | 11.7* | 11.7* | 10.1* | 10.1* | 8.7*  | 8.7*  | 7.3* | 7.3* | 5.7* | 5.7* |      |      |      |     | 5.4*  | 5.4*  | 18.2 |
| -4.5             | 4 pt. outriggers down |       |       | 12.7* | 12.7* | 13.8* | 13.8* | 12.1* | 12.1* | 10.4* | 10.4* | 9.0*  | 9.0*  | 7.5*  | 7.5*  |      |      | 0.1  | 0.7  |      |      |      |     | 6.2*  | 6.2*  | 16.4 |

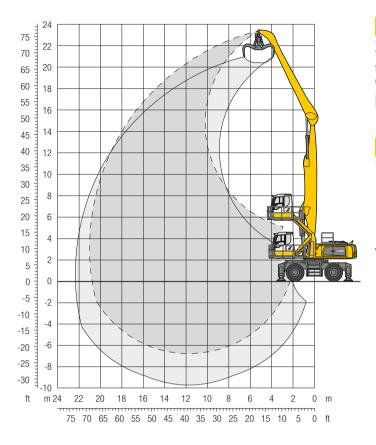
1/2 Height 🛛 🛁 Can be slewed through 360° 🖞 In longitudinal position of undercarriage

💭 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 axie. 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 axie 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 working tools (grabs, load hooks, etc.) and load accommodation equipment 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.

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.

Industry – Kinematic 2A



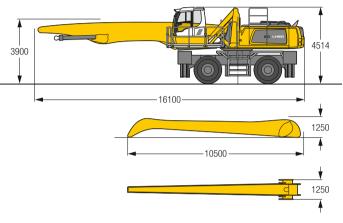
### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tyres, straight boom 11.50 m, angled stick 10.00 m and grab model GMM 80-5/1.40 m<sup>3</sup> semi-closed tines.

Weight

77,200 kg

### Dimensions



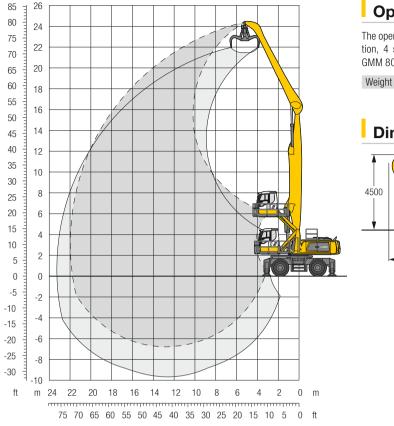
|      |                       | 6.0   | ) m   | 7.5   | i m   | 9.0   | ) m   | 10.   | 5 m   | 12.0  | 0 m   | 13.   | 5 m   | 15.0 | ) m  | 16.  | 5 m  | 18.  | ) m  | 19.  | 5 m  | 21. | 0 m  |       |        | <b>1</b> |
|------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|-----|------|-------|--------|----------|
|      |                       |       | L.    | _     | L.    | _     | L.    | _     | L.    | _     | լ     |       | j,    | _    | լ    | _    | L.   | _    | L.   |      | L.   | _   | L.   |       | ่ เมื่ |          |
| m    | Undercarriage         |       | Ľ     |       | 법     |       |       |       | 법     |       |       | 5     | Ľ     |      |      |      | Ľ    |      |      | 5    | 比    |     | Ľ    |       | Ľ      | m        |
| 24.0 | 4 pt. outriggers down |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |      |     |      |       |        |          |
| 22.5 | 4 pt. outriggers down |       |       | 10.9* | 10.9* |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |      |     |      | 10.2* | 10.2*  | 7.9      |
| 21.0 | 4 pt. outriggers down |       |       |       |       | 10.9* | 10.9* | 9.1*  | 9.1*  |       |       |       |       |      |      |      |      |      |      |      |      |     |      | 8.3*  | 8.3*   | 11.0     |
| 19.5 | 4 pt. outriggers down |       |       |       |       | 11.8* | 11.8* | 10.7* | 10.7* | 9.2*  | 9.2*  |       |       |      |      |      |      |      |      |      |      |     |      | 7.4*  | 7.4*   | 13.1     |
| 18.0 | 4 pt. outriggers down |       |       |       |       |       |       | 11.4* | 11.4* | 10.4* | 10.4* | 8.9*  | 8.9*  |      |      |      |      |      |      |      |      |     |      | 6.8*  | 6.8*   | 14.8     |
| 16.5 | 4 pt. outriggers down |       |       |       |       |       |       | 11.8* | 11.8* | 11.1* | 11.1* | 10.1* | 10.1* | 8.5* | 8.5* |      |      |      |      |      |      |     |      | 6.4*  | 6.4*   | 16.2     |
| 15.0 | 4 pt. outriggers down |       |       |       |       |       |       | 12.1* | 12.1* | 11.0* | 11.0* | 10.0* | 10.0* | 9.2* | 9.2* | 7.8* | 7.8* |      |      |      |      |     |      | 6.1*  | 6.1*   | 17.3     |
| 13.5 | 4 pt. outriggers down |       |       |       |       |       |       | 12.2* | 12.2* | 11.0* | 11.0* | 10.0* | 10.0* | 9.2* | 9.2* | 8.5* | 8.5* | 6.6* | 6.6* |      |      |     |      | 5.9*  | 5.9*   | 18.3     |
| 12.0 | 4 pt. outriggers down |       |       |       |       |       |       | 12.3* | 12.3* | 11.1* | 11.1* | 10.1* | 10.1* | 9.2* | 9.2* | 8.5* | 8.5* | 7.9* | 7.9* |      |      |     |      | 5.8*  | 5.8*   | 19.1     |
| 10.5 | 4 pt. outriggers down |       |       |       |       |       |       | 12.5* | 12.5* | 11.2* | 11.2* | 10.1* | 10.1* | 9.3* | 9.3* | 8.5* | 8.5* | 7.9* | 7.9* | 6.2* | 6.2* |     |      | 5.7*  | 5.7*   | 19.7     |
| 9.0  | 4 pt. outriggers down |       |       |       |       | 13.5* | 13.5* | 12.8* | 12.8* | 11.4* | 11.4* | 10.3* | 10.3* | 9.4* | 9.4* | 8.6* | 8.6* | 7.9* | 7.9* | 7.1  | 7.3* |     |      | 5.7*  | 5.7*   | 20.2     |
| 7.5  | 4 pt. outriggers down |       |       | 13.4* | 13.4* | 15.0* | 15.0* | 13.1* | 13.1* | 11.6* | 11.6* | 10.4* | 10.4* | 9.5* | 9.5* | 8.6* | 8.6* | 7.9* | 7.9* | 7.0  | 7.2* |     |      | 5.7*  | 5.7*   | 20.6     |
| 6.0  | 4 pt. outriggers down | 13.8* | 13.8* | 16.7* | 16.7* | 15.7* | 15.7* | 13.5* | 13.5* | 11.9* | 11.9* | 10.6* | 10.6* | 9.6* | 9.6* | 8.7* | 8.7* | 7.9* | 7.9* | 6.9  | 7.2* |     |      | 5.7*  | 5.7*   | 20.8     |
| 4.5  | 4 pt. outriggers down | 24.6* | 24.6* | 19.6* | 19.6* | 16.3* | 16.3* | 13.9* | 13.9* | 12.2* | 12.2* | 10.8* | 10.8* | 9.7* | 9.7* | 8.8* | 8.8* | 7.8  | 7.9* | 6.8  | 7.1* |     |      | 5.8*  | 5.8*   | 21.0     |
| 3.0  | 4 pt. outriggers down | 26.1* | 26.1* | 20.5* | 20.5* | 16.8* | 16.8* | 14.3* | 14.3* | 12.4* | 12.4* | 11.0* | 11.0* | 9.8* | 9.8* | 8.8* | 8.8* | 7.6  | 7.9* | 6.6  | 7.0* | 5.8 | 5.9* | 5.8   | 5.9*   | 21.0     |
| 1.5  | 4 pt. outriggers down | 12.0* | 12.0* | 21.1* | 21.1* | 17.2* | 17.2* | 14.6* | 14.6* | 12.6* | 12.6* | 11.0* | 11.0* | 9.8* | 9.8* | 8.6  | 8.7* | 7.4  | 7.8* | 6.5  | 6.8* |     |      | 5.5*  | 5.5*   | 20.9     |
| 0    | 4 pt. outriggers down | 7.9*  | 7.9*  | 19.7* | 19.7* | 17.4* | 17.4* | 14.6* | 14.6* | 12.6* | 12.6* | 11.0* | 11.0* | 9.7  | 9.7* | 8.4  | 8.6* | 7.3  | 7.5* | 6.4  | 6.4* |     |      | 5.1*  | 5.1*   | 20.8     |
| -1.5 | 4 pt. outriggers down | 7.2*  | 7.2*  | 14.3* | 14.3* | 17.1* | 17.1* | 14.4* | 14.4* | 12.4* | 12.4* | 10.8* | 10.8* | 9.4  | 9.4* | 8.2  | 8.3* | 7.1* | 7.1* | 5.8* | 5.8* |     |      | 4.6*  | 4.6*   | 20.5     |
| -3.0 | 4 pt. outriggers down | 7.5*  | 7.5*  | 12.8* | 12.8* | 16.3* | 16.3* | 13.9* | 13.9* | 11.9* | 11.9* | 10.3* | 10.3* | 8.9* | 8.9* | 7.7* | 7.7* | 6.4* | 6.4* | 4.8* | 4.8* |     |      | 4.7*  | 4.7*   | 19.6     |
| -4.5 | 4 pt. outriggers down | 8.2*  | 8.2*  | 12.7* | 12.7* | 14.9* | 14.9* | 12.8* | 12.8* | 11.0* | 11.0* | 9.5*  | 9.5*  | 8.1* | 8.1* | 6.8* | 6.8* | 5.3* | 5.3* |      |      |     |      | 5.2*  | 5.2*   | 18.1     |
| -6.0 | 4 pt. outriggers down | J.L   | JIL   | 12.7  |       | 12.7* | 12.7* | 11.1* | 11.1* | 9.6*  | 9.6*  | 8.2*  | 8.2*  | 6.8* | 6.8* | 0.0  | 0.0  | 0.0  | 0.0  |      |      |     |      | 6.3*  | 6.3*   | 15.6     |
| -0.0 | - pr. outriggers down |       |       |       |       | 12.1  | 12.1  | L 161 | 11.1  | 5.0   | 5.0   | 0.2   | 0.2   | 0.0  | 0.0  |      |      |      |      |      |      |     |      | 0.5   | 0.0    | 13.0     |

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 working tools (grabs, load hooks, etc.) and load accommodation equipment 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 unit is limited by its stability.

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 warming device, a load hook and a lift capacity chart.

Industry – Kinematic 2A

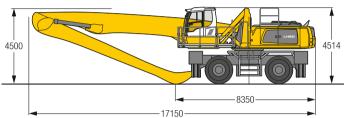


## Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tyres, straight boom 12.50 m, angled stick 10.00 m and grab model GMM 80-5/1.40 m<sup>3</sup> semi-closed tines.

78,000 kg

### Dimensions



| •        |                       | 6.0   | ) m   | 7.5   | 5 m   | 9.0   | m     | 10.   | 5 m   | 12.   | 0 m   | 13.   | 5 m   | 15.0 | ) m  | 16.  | 5 m  | 18.0 | ) m  | 19.  | 5 m  | 21.0 | ) m  |       |       | <b>1</b> |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|-------|-------|----------|
| ↓∕∕<br>m | Undercarriage         |       | Ľ     |       | Ŀ     | 5     | Ļ     |       | Ь     | 5     | Ľ     |       | Ь     | 5    | Ľ    |      | Ŀ    |      | Ļ    |      | Ľ    |      | Ľ    |       | Ľ     | m        |
| 24.0     | 4 pt. outriggers down | 12.3* | 12.3* |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |      |      |      | 11.5* | 11.5* | 6.6      |
| 22.5     | 4 pt. outriggers down |       |       |       |       | 10.5* | 10.5* |       |       |       |       |       |       |      |      |      |      |      |      |      |      |      |      | 8.8*  | 8.8*  | 10.3     |
| 21.0     | 4 pt. outriggers down |       |       |       |       | 11.6* | 11.6* | 10.4* | 10.4* | 8.8*  | 8.8*  |       |       |      |      |      |      |      |      |      |      |      |      | 7.7*  | 7.7*  | 12.7     |
| 19.5     | 4 pt. outriggers down |       |       |       |       |       |       | 11.3* | 11.3* | 10.3* | 10.3* | 8.8*  | 8.8*  |      |      |      |      |      |      |      |      |      |      | 7.0*  | 7.0*  | 14.6     |
| 18.0     | 4 pt. outriggers down |       |       |       |       |       |       | 11.7* | 11.7* | 10.9* | 10.9* | 9.8*  | 9.8*  | 8.5* | 8.5* |      |      |      |      |      |      |      |      | 6.5*  | 6.5*  | 16.2     |
| 16.5     | 4 pt. outriggers down |       |       |       |       |       |       | 12.1* | 12.1* | 10.8* | 10.8* | 9.8*  | 9.8*  | 8.9* | 8.9* | 8.0* | 8.0* |      |      |      |      |      |      | 6.2*  | 6.2*  | 17.4     |
| 15.0     | 4 pt. outriggers down |       |       |       |       |       |       | 12.2* | 12.2* | 10.8* | 10.8* | 9.7*  | 9.7*  | 8.8* | 8.8* | 8.1* | 8.1* | 7.1* | 7.1* |      |      |      |      | 6.0*  | 6.0*  | 18.5     |
| 13.5     | 4 pt. outriggers down |       |       |       |       |       |       | 12.2* | 12.2* | 10.8* | 10.8* | 9.7*  | 9.7*  | 8.8* | 8.8* | 8.1* | 8.1* | 7.4* | 7.4* |      |      |      |      | 5.8*  | 5.8*  | 19.4     |
| 12.0     | 4 pt. outriggers down |       |       |       |       |       |       | 12.3* | 12.3* | 10.9* | 10.9* | 9.8*  | 9.8*  | 8.9* | 8.9* | 8.1* | 8.1* | 7.4* | 7.4* | 6.8* | 6.8* |      |      | 5.7*  | 5.7*  | 20.1     |
| 10.5     | 4 pt. outriggers down |       |       |       |       | 13.2* | 13.2* | 12.5* | 12.5* | 11.0* | 11.0* | 9.9*  | 9.9*  | 8.9* | 8.9* | 8.1* | 8.1* | 7.4* | 7.4* | 6.8* | 6.8* |      |      | 5.7*  | 5.7*  | 20.7     |
| 9.0      | 4 pt. outriggers down |       |       |       |       | 14.3* | 14.3* | 12.7* | 12.7* | 11.2* | 11.2* | 10.0* | 10.0* | 9.0* | 9.0* | 8.1* | 8.1* | 7.4* | 7.4* | 6.8* | 6.8* | 5.8  | 6.1* | 5.7*  | 5.7*  | 21.2     |
| 7.5      | 4 pt. outriggers down | 12.4* | 12.4* | 15.0* | 15.0* | 15.1* | 15.1* | 13.0* | 13.0* | 11.3* | 11.3* | 10.1* | 10.1* | 9.0* | 9.0* | 8.2* | 8.2* | 7.4* | 7.4* | 6.8* | 6.8* | 5.8  | 6.1* | 5.4   | 5.7*  | 21.6     |
| 6.0      | 4 pt. outriggers down | 19.1* | 19.1* | 18.7* | 18.7* | 15.5* | 15.5* | 13.2* | 13.2* | 11.5* | 11.5* | 10.2* | 10.2* | 9.1* | 9.1* | 8.2* | 8.2* | 7.5* | 7.5* | 6.6  | 6.7* | 5.7  | 6.0* | 5.3   | 5.5*  | 21.8     |
| 4.5      | 4 pt. outriggers down | 24.7* | 24.7* | 19.4* | 19.4* | 15.9* | 15.9* | 13.5* | 13.5* | 11.7* | 11.7* | 10.3* | 10.3* | 9.2* | 9.2* | 8.2* | 8.2* | 7.4* | 7.4* | 6.5  | 6.7* | 5.6  | 5.9* | 5.1   | 5.3*  | 21.9     |
| 3.0      | 4 pt. outriggers down | 10.5* | 10.5* | 19.9* | 19.9* | 16.2* | 16.2* | 13.7* | 13.7* | 11.8* | 11.8* | 10.4* | 10.4* | 9.2* | 9.2* | 8.2* | 8.2* | 7.3  | 7.4* | 6.3  | 6.6* | 5.5  | 5.7* | 5.0*  | 5.0*  | 22.0     |
| 1.5      | 4 pt. outriggers down | 5.4*  | 5.4*  | 15.8* | 15.8* | 16.4* | 16.4* | 13.8* | 13.8* | 11.9* | 11.9* | 10.4* | 10.4* | 9.2* | 9.2* | 8.1  | 8.1* | 7.0  | 7.2* | 6.1  | 6.4* | 5.4  | 5.5* | 4.7*  | 4.7*  | 21.9     |
| 0        | 4 pt. outriggers down | 4.6*  | 4.6*  | 10.4* | 10.4* | 16.2* | 16.2* | 13.7* | 13.7* | 11.8* | 11.8* | 10.3* | 10.3* | 9.0* | 9.0* | 7.8  | 8.0* | 6.8  | 7.0* | 6.0  | 6.1* | 5.0* | 5.0* | 4.3*  | 4.3*  | 21.7     |
| -1.5     | 4 pt. outriggers down | 4.9*  | 4.9*  | 9.1*  | 9.1*  | 15.7* | 15.7* | 13.3* | 13.3* | 11.5* | 11.5* | 10.0* | 10.0* | 8.7* | 8.7* | 7.6  | 7.7* | 6.7* | 6.7* | 5.6* | 5.6* | 4.4* | 4.4* | 3.8*  | 3.8*  | 21.5     |
| -3.0     | 4 pt. outriggers down | 5.5*  | 5.5*  | 9.0*  | 9.0*  | 14.6* | 14.6* | 12.6* | 12.6* | 10.9* | 10.9* | 9.5*  | 9.5*  | 8.2* | 8.2* | 7.1* | 7.1* | 6.1* | 6.1* | 4.9* | 4.9* |      |      | 3.9*  | 3.9*  | 20.6     |
| -4.5     | 4 pt. outriggers down |       |       | 9.4*  | 9.4*  | 13.0* | 13.0* | 11.4* | 11.4* | 9.9*  | 9.9*  | 8.6*  | 8.6*  | 7.5* | 7.5* | 6.4* | 6.4* | 5.2* | 5.2* |      |      |      |      | 4.3*  | 4.3*  | 19.1     |
| -6.0     | 4 pt. outriggers down |       |       |       |       | 10.8* | 10.8* | 9.7*  | 9.7*  | 8.5*  | 8.5*  | 7.4*  | 7.4*  | 6.3* | 6.3* | 5.2* | 5.2* |      |      |      |      |      |      | 5.1*  | 5.1*  | 16.6     |

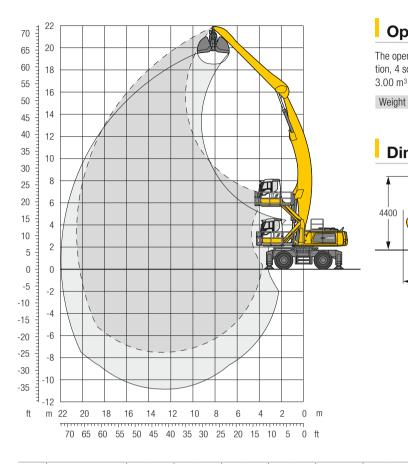
t⊬ Height • → Can be slewed through 360° 🖞 In longitudinal position of undercarriage

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 axie. 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 axie 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 working tools (grabs, load hooks, etc.) and load accommodation equipment 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.

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.

Industry – Kinematic 2D

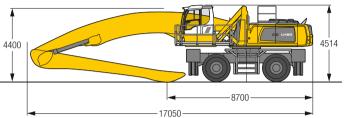


### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tyres, angled boom 12.50 m, straight stick 9.00 m and grab model GMZ 80/ 3.00 m<sup>3</sup> shells for loose material.

78,100 kg

### Dimensions



| * A              |                       | 6.0   | ) m   | 7.5   | m     | 9.0   | ) m   | 10.   | 5 m   | 12.0  | ) m   | 13.   | 5 m   | 15.0 | ) m  | 16.5 | 5 m  | 18.0 | ) m            | 19.5 | 5 m  | 21.0 | ) m | / /  |      |      |
|------------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|----------------|------|------|------|-----|------|------|------|
| ↓ <mark>/</mark> |                       | -     | ,     |       | 1.    | _     | ս     |       | 1,    | _     | 1     |       | 1.    | _    | 1.   | _    | 1.   | _    | <mark>1</mark> | -    | լ    |      | 1   |      | 1    |      |
| m                | Undercarriage         |       | Ľ     | 5     | 법     | 5     |       | 5     | Ľ     | 5     | Ľ     |       | 법     |      | Ľ    | 5    | 也    | 5    | Ľ              |      | 법    |      | Ľ   |      | Ľ    | m    |
| 22.5             | 4 pt. outriggers down |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |                |      |      |      |     |      |      |      |
| 21.0             | 4 pt. outriggers down |       |       |       |       | 10.7* | 10.7* |       |       |       |       |       |       |      |      |      |      |      |                |      |      |      |     | 8.8* | 8.8* | 10.4 |
| 19.5             | 4 pt. outriggers down |       |       |       |       |       |       | 10.8* | 10.8* | 9.0*  | 9.0*  |       |       |      |      |      |      |      |                |      |      |      |     | 7.9* | 7.9* | 12.6 |
| 18.0             | 4 pt. outriggers down |       |       |       |       |       |       | 10.6* | 10.6* | 9.5*  | 9.5*  | 8.7*  | 8.7*  |      |      |      |      |      |                |      |      |      |     | 7.4* | 7.4* | 14.4 |
| 16.5             | 4 pt. outriggers down |       |       |       |       |       |       |       |       | 9.4*  | 9.4*  | 8.6*  | 8.6*  | 8.0* | 8.0* |      |      |      |                |      |      |      |     | 7.0* | 7.0* | 15.8 |
| 15.0             | 4 pt. outriggers down |       |       |       |       |       |       |       |       | 9.4*  | 9.4*  | 8.6*  | 8.6*  | 7.9* | 7.9* | 7.4* | 7.4* |      |                |      |      |      |     | 6.8* | 6.8* | 17.0 |
| 13.5             | 4 pt. outriggers down |       |       |       |       |       |       | 10.5* | 10.5* | 9.4*  | 9.4*  | 8.6*  | 8.6*  | 7.9* | 7.9* | 7.3* | 7.3* |      |                |      |      |      |     | 6.6* | 6.6* | 17.9 |
| 12.0             | 4 pt. outriggers down |       |       |       |       |       |       | 10.7* | 10.7* | 9.6*  | 9.6*  | 8.7*  | 8.7*  | 7.9* | 7.9* | 7.4* | 7.4* | 6.9* | 6.9*           |      |      |      |     | 6.6* | 6.6* | 18.7 |
| 10.5             | 4 pt. outriggers down |       |       |       |       |       |       | 10.9* | 10.9* | 9.7*  | 9.7*  | 8.8*  | 8.8*  | 8.0* | 8.0* | 7.4* | 7.4* | 6.9* | 6.9*           |      |      |      |     | 6.5* | 6.5* | 19.4 |
| 9.0              | 4 pt. outriggers down |       |       |       |       | 12.9* | 12.9* | 11.2* | 11.2* | 9.9*  | 9.9*  | 8.9*  | 8.9*  | 8.1* | 8.1* | 7.5* | 7.5* | 6.9* | 6.9*           | 6.5* | 6.5* |      |     | 6.4* | 6.4* | 19.9 |
| 7.5              | 4 pt. outriggers down | 19.9* | 19.9* | 16.0* | 16.0* | 13.4* | 13.4* | 11.6* | 11.6* | 10.2* | 10.2* | 9.1*  | 9.1*  | 8.3* | 8.3* | 7.6* | 7.6* | 7.0* | 7.0*           | 6.5* | 6.5* |      |     | 6.3* | 6.3* | 20.3 |
| 6.0              | 4 pt. outriggers down | 21.3* | 21.3* | 16.9* | 16.9* | 14.0* | 14.0* | 12.0* | 12.0* | 10.5* | 10.5* | 9.4*  | 9.4*  | 8.4* | 8.4* | 7.7* | 7.7* | 7.1* | 7.1*           | 6.6* | 6.6* |      |     | 6.0  | 6.2* | 20.5 |
| 4.5              | 4 pt. outriggers down | 20.5* | 20.5* | 17.8* | 17.8* | 14.6* | 14.6* | 12.4* | 12.4* | 10.8* | 10.8* | 9.6*  | 9.6*  | 8.6* | 8.6* | 7.8* | 7.8* | 7.2* | 7.2*           | 6.6  | 6.6* |      |     | 5.8  | 6.2* | 20.7 |
| 3.0              | 4 pt. outriggers down | 6.9*  | 6.9*  | 18.7* | 18.7* | 15.2* | 15.2* | 12.8* | 12.8* | 11.1* | 11.1* | 9.8*  | 9.8*  | 8.8* | 8.8* | 7.9* | 7.9* | 7.2* | 7.2*           | 6.4  | 6.6* |      |     | 5.7  | 6.1* | 20.7 |
| 1.5              | 4 pt. outriggers down | 5.0*  | 5.0*  | 12.2* | 12.2* | 15.7* | 15.7* | 13.2* | 13.2* | 11.4* | 11.4* | 10.0* | 10.0* | 8.9* | 8.9* | 8.0* | 8.0* | 7.2  | 7.3*           | 6.3  | 6.6* |      |     | 5.7  | 6.0* | 20.6 |
| 0                | 4 pt. outriggers down | 4.9*  | 4.9*  | 9.7*  | 9.7*  | 15.9* | 15.9* | 13.4* | 13.4* | 11.5* | 11.5* | 10.1* | 10.1* | 9.0* | 9.0* | 8.0  | 8.0* | 7.0  | 7.2*           | 6.1  | 6.5* |      |     | 5.7  | 5.9* | 20.4 |
| -1.5             | 4 pt. outriggers down | 5.5*  | 5.5*  | 9.2*  | 9.2*  | 15.9* | 15.9* | 13.4* | 13.4* | 11.6* | 11.6* | 10.1* | 10.1* | 9.0* | 9.0* | 7.8  | 8.0* | 6.8  | 7.1*           | 6.0  | 6.2* |      |     | 5.7  | 5.8* | 20.2 |
| -3.0             | 4 pt. outriggers down | 6.3*  | 6.3*  | 9.4*  | 9.4*  | 15.4* | 15.4* | 13.2* | 13.2* | 11.4* | 11.4* | 10.0* | 10.0* | 8.8  | 8.8* | 7.6  | 7.8* | 6.7  | 6.8*           | 5.8* | 5.8* |      |     | 5.6* | 5.6* | 19.7 |
| -4.5             | 4 pt. outriggers down | 7.2*  | 7.2*  | 10.0* | 10.0* | 14.8* | 14.8* | 12.7* | 12.7* | 11.0* | 11.0* | 9.6*  | 9.6*  | 8.5* | 8.5* | 7.4* | 7.4* | 6.3* | 6.3*           |      |      |      |     | 5.3* | 5.3* | 19.2 |
| -6.0             | 4 pt. outriggers down |       |       |       |       | 13.5* | 13.5* | 11.8* | 11.8* | 10.3* | 10.3* | 9.0*  | 9.0*  | 7.8* | 7.8* | 6.7* | 6.7* |      |                |      |      |      |     | 5.8* | 5.8* | 17.7 |
| -7.5             | 4 pt. outriggers down |       |       |       |       |       |       |       |       | 9.2*  | 9.2*  | 8.0*  | 8.0*  |      |      |      |      |      |                |      |      |      |     | 7.9* | 7.9* | 13.6 |

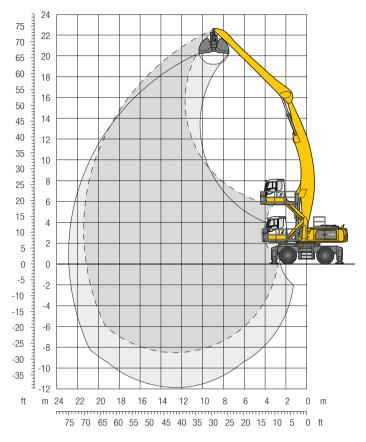
↓ Height •- Can be slewed through 360° 🖞 In longitudinal position of undercarriage

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 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 working tools (grabs, load hooks, etc.) and load accommodation equipment 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 unit is limited by its stability.

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 warming device, a load hook and a lift capacity chart.

Industry – Kinematic 2D



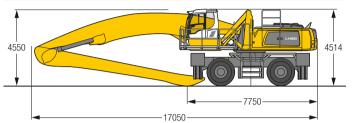
## Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tyres, angled boom 12.50 m, straight stick 10.00 m and grab model GMZ 80/ 3.00 m<sup>3</sup> shells for loose material.

78,500 kg

Weight

### Dimensions



| +        |                       | 6.0   | ) m   | 7.5   | i m   | 9.0   | m     | 10.   | 5 m   | 12.   | 0 m   | 13.5 | 5 m  | 15.0 | ) m            | 16.5 | 5 m  | 18.0 | ) m  | 19.  | 5 m  | 21.0 | ) m  | ~    |      | <b>a</b> |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|----------------|------|------|------|------|------|------|------|------|------|------|----------|
| <b>↓</b> |                       |       | , L   |       | L.    |       | J,    |       | L.    |       | 1     |      | a,   |      | <mark>,</mark> |      | լ    |      | J.   |      | վ    |      | լ    |      | น้   | Ē        |
| m        | Undercarriage         | 5     | 2     | 5     |       | 5     |       |       |       |       | Ľ     | 5    | 법    |      | 법              | 5    | 2    |      |      |      | 2    | 5    | 2    |      | 2    | m        |
| 22.5     | 4 pt. outriggers down |       |       |       |       | 8.4*  | 8.4*  |       |       |       |       |      |      |      |                |      |      |      |      |      |      |      |      | 8.4* | 8.4* | 9.0      |
| 21.0     | 4 pt. outriggers down |       |       |       |       |       |       | 8.7*  | 8.7*  |       |       |      |      |      |                |      |      |      |      |      |      |      |      | 7.2* | 7.2* | 11.8     |
| 19.5     | 4 pt. outriggers down |       |       |       |       |       |       |       |       | 8.8*  | 8.8*  | 7.1* | 7.1* |      |                |      |      |      |      |      |      |      |      | 6.6* | 6.6* | 13.8     |
| 18.0     | 4 pt. outriggers down |       |       |       |       |       |       |       |       | 9.1*  | 9.1*  | 8.3* | 8.3* | 6.9* | 6.9*           |      |      |      |      |      |      |      |      | 6.2* | 6.2* | 15.4     |
| 16.5     | 4 pt. outriggers down |       |       |       |       |       |       |       |       | 9.0*  | 9.0*  | 8.2* | 8.2* | 7.5* | 7.5*           | 6.4* | 6.4* |      |      |      |      |      |      | 6.0* | 6.0* | 16.7     |
| 15.0     | 4 pt. outriggers down |       |       |       |       |       |       |       |       | 9.0*  | 9.0*  | 8.1* | 8.1* | 7.5* | 7.5*           | 7.0* | 7.0* |      |      |      |      |      |      | 5.8* | 5.8* | 17.9     |
| 13.5     | 4 pt. outriggers down |       |       |       |       |       |       |       |       | 9.0*  | 9.0*  | 8.2* | 8.2* | 7.5* | 7.5*           | 6.9* | 6.9* | 6.5* | 6.5* |      |      |      |      | 5.7* | 5.7* | 18.8     |
| 12.0     | 4 pt. outriggers down |       |       |       |       |       |       |       |       | 9.1*  | 9.1*  | 8.2* | 8.2* | 7.5* | 7.5*           | 7.0* | 7.0* | 6.5* | 6.5* | 5.7* | 5.7* |      |      | 5.6* | 5.6* | 19.5     |
| 10.5     | 4 pt. outriggers down |       |       |       |       |       |       | 10.4* | 10.4* | 9.3*  | 9.3*  | 8.3* | 8.3* | 7.6* | 7.6*           | 7.0* | 7.0* | 6.5* | 6.5* | 6.1* | 6.1* |      |      | 5.6* | 5.6* | 20.1     |
| 9.0      | 4 pt. outriggers down |       |       |       |       |       |       | 10.7* | 10.7* | 9.5*  | 9.5*  | 8.5* | 8.5* | 7.7* | 7.7*           | 7.1* | 7.1* | 6.6* | 6.6* | 6.1* | 6.1* |      |      | 5.7* | 5.7* | 20.6     |
| 7.5      | 4 pt. outriggers down |       |       |       |       | 12.7* | 12.7* | 11.0* | 11.0* | 9.7*  | 9.7*  | 8.7* | 8.7* | 7.9* | 7.9*           | 7.2* | 7.2* | 6.6* | 6.6* | 6.2* | 6.2* |      |      | 5.7* | 5.7* | 21.0     |
| 6.0      | 4 pt. outriggers down | 19.9* | 19.9* | 15.9* | 15.9* | 13.3* | 13.3* | 11.4* | 11.4* | 10.0* | 10.0* | 8.9* | 8.9* | 8.0* | 8.0*           | 7.3* | 7.3* | 6.7* | 6.7* | 6.2* | 6.2* | 5.8* | 5.8* | 5.6  | 5.7* | 21.2     |
| 4.5      | 4 pt. outriggers down | 21.4* | 21.4* | 16.8* | 16.8* | 13.9* | 13.9* | 11.8* | 11.8* | 10.3* | 10.3* | 9.1* | 9.1* | 8.2* | 8.2*           | 7.4* | 7.4* | 6.8* | 6.8* | 6.3* | 6.3* | 5.7  | 5.8* | 5.4  | 5.7* | 21.4     |
| 3.0      | 4 pt. outriggers down | 15.2* | 15.2* | 17.7* | 17.7* | 14.4* | 14.4* | 12.2* | 12.2* | 10.6* | 10.6* | 9.3* | 9.3* | 8.3* | 8.3*           | 7.5* | 7.5* | 6.9* | 6.9* | 6.3* | 6.3* | 5.5  | 5.8* | 5.3  | 5.6* | 21.4     |
| 1.5      | 4 pt. outriggers down | 7.8*  | 7.8*  | 18.4* | 18.4* | 14.9* | 14.9* | 12.6* | 12.6* | 10.8* | 10.8* | 9.5* | 9.5* | 8.5* | 8.5*           | 7.6* | 7.6* | 6.9* | 6.9* | 6.2  | 6.3* | 5.4  | 5.7* | 5.2  | 5.6* | 21.4     |
| 0        | 4 pt. outriggers down | 6.4*  | 6.4*  | 12.6* | 12.6* | 15.3* | 15.3* | 12.8* | 12.8* | 11.0* | 11.0* | 9.7* | 9.7* | 8.6* | 8.6*           | 7.7* | 7.7* | 6.9  | 7.0* | 6.0  | 6.3* | 5.3  | 5.6* | 5.2  | 5.5* | 21.2     |
| -1.5     | 4 pt. outriggers down | 6.3*  | 6.3*  | 10.7* | 10.7* | 15.5* | 15.5* | 13.0* | 13.0* | 11.2* | 11.2* | 9.8* | 9.8* | 8.6* | 8.6*           | 7.7  | 7.7* | 6.7  | 6.9* | 5.9  | 6.2* |      |      | 5.3  | 5.4* | 20.9     |
| -3.0     | 4 pt. outriggers down | 6.6*  | 6.6*  | 10.1* | 10.1* | 15.3* | 15.3* | 13.0* | 13.0* | 11.1* | 11.1* | 9.7* | 9.7* | 8.6* | 8.6*           | 7.5  | 7.6* | 6.5  | 6.8* | 5.8  | 5.9* |      |      | 5.3* | 5.3* | 20.5     |
| -4.5     | 4 pt. outriggers down | 7.2*  | 7.2*  | 10.2* | 10.2* | 14.9* | 14.9* | 12.7* | 12.7* | 10.9* | 10.9* | 9.5* | 9.5* | 8.4* | 8.4*           | 7.3  | 7.4* | 6.5  | 6.5* | 5.5* | 5.5* |      |      | 5.1* | 5.1* | 20.0     |
| -6.0     | 4 pt. outriggers down | 7.8*  | 7.8*  | 10.6* | 10.6* | 14.0* | 14.0* | 12.0* | 12.0* | 10.4* | 10.4* | 9.1* | 9.1* | 7.9* | 7.9*           | 6.9* | 6.9* | 5.9* | 5.9* | 210  | 210  |      |      | 4.9* | 4.9* | 19.3     |
| -7.5     | 4 pt. outriggers down | 1.0   | 1.0   | 10.0  | 10.0  | 12.6* | 12.6* | 11.0* | 11.0* | 9.6*  | 9.6*  | 8.3* | 8.3* | 7.2* | 7.2*           | 6.1* | 6.1* | 0.0  | 0.0  |      |      |      |      | 5.7* | 5.7* | 17.1     |
| -7.5     | - pr. outriggers down |       |       |       |       | 12.0  | 12.0  | 11.0  | 11.0  | 0.0   | 5.0   | 0.0  | 0.5  | 1.2  | 1.2            | 0.1  | 0.1  |      |      |      |      |      |      | 0.1  | 5.7  | 17.1     |

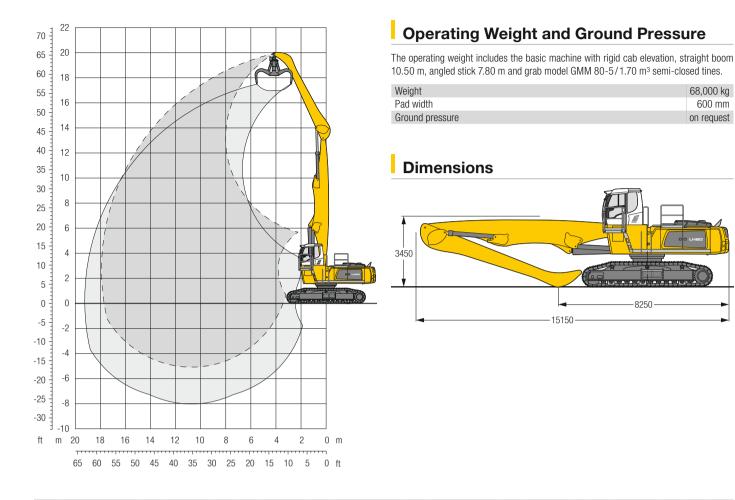
Max. reach \* Limited by hydr. capacity

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 working tools (grabs, load hooks, etc.) and load accommodation equipment 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.

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 80 C EW – Attachment GA18

Industry – Kinematic 2A



|                  |               | 6.0   | ) m   | 7.5   | i m   | 9.0   | ) m   | 10.   | 5 m   | 12.   | 0 m   | 13. | 5 m   | 15. | 0 m  | 16. | 5 m  | 18.0 | ) m | 19. | 5 m | 21. | 0 m |       |       |      |
|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-----|------|-----|------|------|-----|-----|-----|-----|-----|-------|-------|------|
| <b>↓</b> ∕∕<br>m | Undercarriage |       | Ľ     |       | Ь     |       | Ľ     |       | Ľ     |       | Ľ     |     | Ь     |     | Ŀ    |     | ŀ    |      | ŀ   |     | Ľ   |     | Ŀ   |       | Ľ     | m    |
| 21.0             | EW            |       |       |       |       |       |       |       |       | -     | -     |     |       | -   | -    |     |      |      |     |     |     |     |     |       |       |      |
| 19.5             | EW            |       |       |       |       |       |       |       |       |       |       |     |       |     |      |     |      |      |     |     |     |     |     | 14.5* | 14.5* | 5.7  |
| 18.0             | EW            |       |       | 14.2* | 14.2* | 11.4* | 11.4* |       |       |       |       |     |       |     |      |     |      |      |     |     |     |     |     | 11.2* | 11.2* | 9.1  |
| 16.5             | EW            |       |       | 15.5* | 15.5* | 14.0* | 14.0* | 11.7* | 11.7* |       |       |     |       |     |      |     |      |      |     |     |     |     |     | 9.8*  | 9.8*  | 11.3 |
| 15.0             | EW            |       |       |       |       | 13.9* | 13.9* | 12.4* | 12.4* | 11.3* | 11.3* |     |       |     |      |     |      |      |     |     |     |     |     | 9.0*  | 9.0*  | 12.9 |
| 13.5             | EW            |       |       |       |       | 13.8* | 13.8* | 12.3* | 12.3* | 11.2* | 11.2* | 9.4 | 10.3* |     |      |     |      |      |     |     |     |     |     | 8.4   | 8.5*  | 14.2 |
| 12.0             | EW            |       |       |       |       | 13.8* | 13.8* | 12.3* | 12.3* | 11.1* | 11.1* | 9.5 | 10.2* | 7.6 | 9.1* |     |      |      |     |     |     |     |     | 7.3   | 8.2*  | 15.3 |
| 10.5             | EW            |       |       |       |       | 13.9* | 13.9* | 12.4* | 12.4* | 11.2* | 11.2* | 9.5 | 10.2* | 7.7 | 9.4* |     |      |      |     |     |     |     |     | 6.6   | 8.0*  | 16.1 |
| 9.0              | EW            |       |       | 16.5* | 16.5* | 14.3* | 14.3* | 12.6* | 12.6* | 11.3* | 11.3* | 9.3 | 10.3* | 7.6 | 9.4* | 6.2 | 8.1  |      |     |     |     |     |     | 6.0   | 7.8   | 16.7 |
| 7.5              | EW            | 18.2* | 18.2* | 17.2* | 17.2* | 14.7* | 14.7* | 12.9* | 12.9* | 11.2  | 11.5* | 9.1 | 10.4* | 7.4 | 9.5* | 6.2 | 8.0  |      |     |     |     |     |     | 5.6   | 7.3   | 17.2 |
| 6.0              | EW            | 22.3* | 22.3* | 18.1* | 18.1* | 15.3* | 15.3* | 13.3* | 13.3* | 10.7  | 11.7* | 8.8 | 10.5* | 7.3 | 9.4  | 6.1 | 7.9  |      |     |     |     |     |     | 5.3   | 7.0   | 17.6 |
| 4.5              | EW            | 24.0* | 24.0* | 19.1* | 19.1* | 15.9* | 15.9* | 12.7  | 13.7* | 10.2  | 12.0* | 8.4 | 10.7* | 7.0 | 9.1  | 5.9 | 7.8  |      |     |     |     |     |     | 5.1   | 6.8   | 17.8 |
| 3.0              | EW            | 25.5* | 25.5* | 19.9  | 20.0* | 15.1  | 16.4* | 12.0  | 14.0* | 9.7   | 12.2* | 8.1 | 10.5  | 6.8 | 8.9  | 5.8 | 7.6  |      |     |     |     |     |     | 5.0   | 6.6   | 17.9 |
| 1.5              | EW            | 12.0* | 12.0* | 18.4  | 20.5* | 14.2  | 16.8* | 11.3  | 14.2* | 9.3   | 12.2  | 7.8 | 10.2  | 6.6 | 8.7  | 5.6 | 7.5  |      |     |     |     |     |     | 5.0   | 6.6   | 17.9 |
| 0                | EW            | 9.2*  | 9.2*  | 17.3  | 20.5* | 13.4  | 16.8* | 10.8  | 14.2* | 8.9   | 11.8  | 7.5 | 9.9   | 6.4 | 8.5  | 5.5 | 7.4  |      |     |     |     |     |     | 5.0   | 6.3*  | 17.7 |
| -1.5             | EW            | 9.2*  | 9.2*  | 16.7  | 18.4* | 12.9  | 16.3* | 10.4  | 13.8* | 8.6   | 11.5  | 7.3 | 9.7   | 6.3 | 8.3  | 5.5 | 7.0* |      |     |     |     |     |     | 5.1   | 5.8*  | 17.3 |
| -3.0             | EW            | 10.0* | 10.0* | 16.3  | 17.4* | 12.6  | 15.1* | 10.1  | 12.9* | 8.4   | 11.0* | 7.2 | 9.3*  | 6.2 | 7.7* |     |      |      |     |     |     |     |     | 5.7   | 6.3*  | 16.1 |
| -4.5             | EW            |       |       |       |       | 12.5  | 13.0* | 10.0  | 11.2* | 8.4   | 9.5*  | 7.1 | 7.9*  |     |      |     |      |      |     |     |     |     |     | 7.0   | 7.6*  | 13.7 |
| -6.0             | EW            |       |       |       |       |       |       |       |       |       |       |     |       |     |      |     |      |      |     |     |     |     |     |       |       |      |
| -                |               |       |       |       | U     |       |       |       |       |       |       |     |       |     |      |     |      |      |     |     |     |     |     |       |       |      |

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Max. reach \* Limited by hydr. capacity

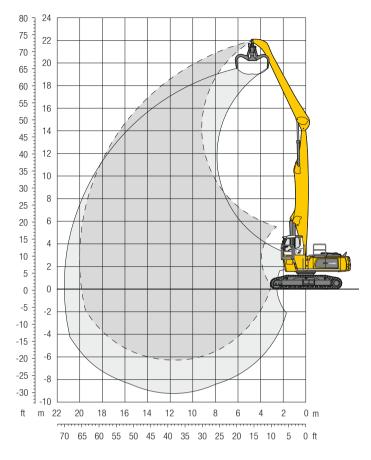
The lift capacities on the stick end without attachment are stated in metric tons (t) and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 600 mm wide triple grouser pads (resp. flat pads). Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of thydraulic 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 working tools (grabs, load hooks, etc.) and load accommodation equipment 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.

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.

1/2

# LH 80 C EW – Attachment GA20

Industry – Kinematic 2A

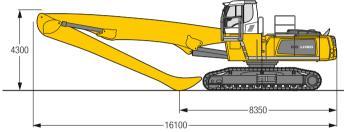


## Operating Weight and Ground Pressure

The operating weight includes the basic machine with rigid cab elevation, straight boom 11.50 m, angled stick 9.00 m and grab model GMM 80-5/1.70 m<sup>3</sup> semi-closed tines.

| Weight          | 69,000 kg  |
|-----------------|------------|
| Pad width       | 600 mm     |
| Ground pressure | on request |

### Dimensions



| 6   |               | 6.0   | ) m   | 7.5   | 5 m   | 9.0   | m     | 10.   | 5 m   | 12.   | 0 m   | 13.  | 5 m             | 15. | 0 m  | 16. | 5 m  | 18. | ) m  | 19. | 5 m  | 21. | 0 m |       | -     | <u>.</u> |
|-----|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------------|-----|------|-----|------|-----|------|-----|------|-----|-----|-------|-------|----------|
|     |               |       | L.    |       | L.    | -     | 1     |       | J.    |       | , L   |      | <mark>ال</mark> | -   | L.   |     | L.   | ~   | J.   | -   | ,L   |     | J.  |       | 1     |          |
| m   | Undercarriage |       | Ľ     |       | Ľ     |       | Ľ     |       | Ľ     |       | Ľ     |      | Ľ               |     | Ľ    |     | 법    |     | Ľ    |     | Ľ    |     | 법   |       | Ľ     |          |
| 1.0 | EW            |       |       | 11.7* | 11.7* |       |       |       |       |       |       |      |                 |     |      |     |      |     |      |     |      |     |     | 11.2* | 11.2* |          |
| 9.5 | EW            |       |       | 13.3* | 13.3* | 11.8* | 11.8* | 9.6*  | 9.6*  |       |       |      |                 |     |      |     |      |     |      |     |      |     |     | 9.2*  | 9.2*  |          |
| 6.0 | EW            |       |       |       |       | 12.9* | 12.9* | 11.6* | 11.6* | 9.7*  | 9.7*  |      |                 |     |      |     |      |     |      |     |      |     |     | 8.2*  | 8.2*  |          |
| .5  | EW            |       |       |       |       | 13.1* | 13.1* | 11.5* | 11.5* | 10.3* | 10.3* | 9.4* | 9.4*            |     |      |     |      |     |      |     |      |     |     | 7.6*  | 7.6*  |          |
| 0.  | EW            |       |       |       |       |       |       | 11.4* | 11.4* | 10.2* | 10.2* | 9.3* | 9.3*            | 7.8 | 8.5* |     |      |     |      |     |      |     |     | 6.9   | 7.2*  |          |
| .5  | EW            |       |       |       |       |       |       | 11.4* | 11.4* | 10.2* | 10.2* | 9.2* | 9.2*            | 7.9 | 8.5* | 6.3 | 7.8* |     |      |     |      |     |     | 6.0   | 6.9*  |          |
| .0  | EW            |       |       |       |       | 13.0* | 13.0* | 11.4* | 11.4* | 10.2* | 10.2* | 9.2* | 9.2*            | 7.9 | 8.4* | 6.4 | 7.8* |     |      |     |      |     |     | 5.3   | 6.7*  |          |
| .5  | EW            |       |       |       |       | 13.2* | 13.2* | 11.6* | 11.6* | 10.3* | 10.3* | 9.3* | 9.3*            | 7.8 | 8.5* | 6.4 | 7.8* | 5.1 | 6.8  |     |      |     |     | 4.8   | 6.4   | Ī        |
| .0  | EW            |       |       |       |       | 13.5* | 13.5* | 11.8* | 11.8* | 10.4* | 10.4* | 9.4* | 9.4*            | 7.6 | 8.5* | 6.2 | 7.8* | 5.1 | 6.8  |     |      |     |     | 4.4   | 6.0   |          |
| .5  | EW            |       |       | 16.4* | 16.4* | 13.9* | 13.9* | 12.0* | 12.0* | 10.6* | 10.6* | 9.0  | 9.5*            | 7.4 | 8.6* | 6.1 | 7.8* | 5.0 | 6.7  |     |      |     |     | 4.1   | 5.6   | Ī        |
| .0  | EW            | 18.5* | 18.5* | 17.1* | 17.1* | 14.3* | 14.3* | 12.3* | 12.3* | 10.6  | 10.8* | 8.6  | 9.6*            | 7.1 | 8.7* | 5.9 | 7.7  | 4.9 | 6.5  | 4.1 | 5.5  |     |     | 3.9   | 5.4   |          |
| .5  | EW            | 22.6* | 22.6* | 17.9* | 17.9* | 14.8* | 14.8* | 12.5  | 12.6* | 10.0  | 11.0* | 8.2  | 9.7*            | 6.8 | 8.7* | 5.6 | 7.5  | 4.7 | 6.4  | 4.0 | 5.5  |     |     | 3.8   | 5.2   |          |
| .0  | EW            | 23.7* | 23.7* | 18.6* | 18.6* | 14.7  | 15.2* | 11.6  | 12.9* | 9.4   | 11.2* | 7.7  | 9.8*            | 6.4 | 8.5  | 5.4 | 7.3  | 4.6 | 6.2  | 3.9 | 5.4  |     |     | 3.7   | 5.1   |          |
| .5  | EW            | 8.9*  | 8.9*  | 17.4  | 19.0* | 13.4  | 15.5* | 10.7  | 13.1* | 8.8   | 11.3* | 7.3  | 9.7             | 6.1 | 8.2  | 5.2 | 7.0  | 4.4 | 6.1  | 3.8 | 5.3  |     |     | 3.6   | 5.0   |          |
|     | EW            | 6.7*  | 6.7*  | 16.0  | 16.4* | 12.4  | 15.6* | 10.0  | 13.1* | 8.2   | 11.1  | 6.9  | 9.3             | 5.8 | 7.9  | 5.0 | 6.8  | 4.3 | 5.9  | 3.7 | 5.2  |     |     | 3.6   | 4.9*  |          |
| .5  | EW            | 6.6*  | 6.6*  | 13.0* | 13.0* | 11.7  | 15.2* | 9.5   | 12.8* | 7.8   | 10.7  | 6.6  | 9.0             | 5.6 | 7.7  | 4.8 | 6.7  | 4.2 | 5.8  | 3.7 | 4.5* |     |     | 3.7   | 4.4*  |          |
| s.0 | EW            | 7.2*  | 7.2*  | 12.3* | 12.3* | 11.3  | 14.3* | 9.1   | 12.2* | 7.5   | 10.4  | 6.4  | 8.8             | 5.4 | 7.5  | 4.7 | 6.5  | 4.1 | 5.3* |     |      |     |     | 3.9   | 4.5*  |          |
| .5  | EW            |       |       | 12.5* | 12.5* | 11.0  | 12.8* | 8.9   | 11.1* | 7.3   | 9.5*  | 6.2  | 8.2*            | 5.4 | 6.9* | 4.7 | 5.6* |     |      |     |      |     |     | 4.4   | 5.0*  | Î        |
|     | EW            |       |       |       |       |       |       | 8.8   | 9.3*  | 7.3   | 8.1*  | 6.2  | 6.8*            |     |      |     |      |     |      |     |      |     |     | 5.8   | 6.4*  | ÷        |

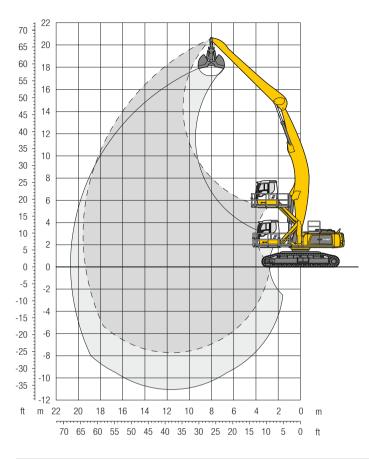
### 🎲 Height 🛛 🖻 Can be slewed through 360° 🖞 In longitudinal position of undercarriage

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 working tools (grabs, load hooks, etc.) and load accommodation equipment 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 80 C SW – Attachment AG20

Industry – Kinematic 2D

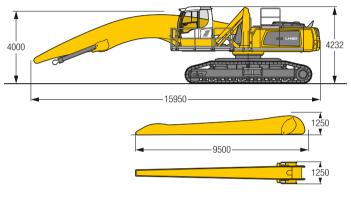


### Operating Weight and Ground Pressure

The operating weight includes the basic machine with hydr. cab elevation, angled boom 11.50 m, straight stick 9.00 m and grab model GMZ 80/3.00 m<sup>3</sup> shells for loose material.

| Weight          | 77,300 kg  |
|-----------------|------------|
| Pad width       | 750 mm     |
| Ground pressure | on request |

### **Dimensions**



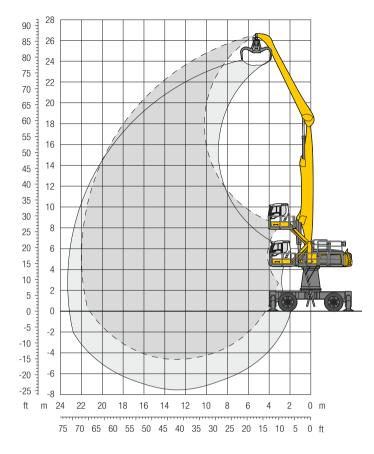
|             |               | 6.0   | ) m   | 7.5   | i m   | 9.0   | ) m   | 10.   | 5 m   | 12.0  | ) m   | 13.   | 5 m   | 15.0 | ) m  | 16.  | 5 m  | 18.  | 0 m  | 19. | 5 m  | 21.0 | ) m |      |      |      |
|-------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-----|------|------|-----|------|------|------|
| <b>↓</b> ∕∕ |               |       | l.    |       | l.    |       | 1     |       | J.    |       | 1     |       | l.    |      | 1    |      | 1    |      | 1    |     | J.   |      | 1   |      | 1    |      |
| m           | Undercarriage |       | Ľ     |       | 比     |       | 2     |       | 造     | 5     | Ľ     |       | Ľ     | 5    | Ľ    |      | Ľ    |      | 법    | 5   | Ľ    |      | 2   |      | Ľ    | m    |
| 21.0        | SW            |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |     |      |      |     |      |      |      |
| 19.5        | SW            |       |       |       |       | 10.7* | 10.7* |       |       |       |       |       |       |      |      |      |      |      |      |     |      |      |     | 8.7* | 8.7* | 10.4 |
| 18.0        | SW            |       |       |       |       |       |       | 10.7* | 10.7* | 8.8*  | 8.8*  |       |       |      |      |      |      |      |      |     |      |      |     | 7.8* | 7.8* | 12.5 |
| 16.5        | SW            |       |       |       |       |       |       | 10.7* | 10.7* | 9.8*  | 9.8*  | 8.6*  | 8.6*  |      |      |      |      |      |      |     |      |      |     | 7.3* | 7.3* | 14.2 |
| 15.0        | SW            |       |       |       |       |       |       |       |       | 9.7*  | 9.7*  | 8.9*  | 8.9*  | 8.1* | 8.1* |      |      |      |      |     |      |      |     | 6.9* | 6.9* | 15.5 |
| 13.5        | SW            |       |       |       |       |       |       |       |       | 9.6*  | 9.6*  | 8.9*  | 8.9*  | 8.3* | 8.3* | 7.0* | 7.0* |      |      |     |      |      |     | 6.7* | 6.7* | 16.6 |
| 12.0        | SW            |       |       |       |       |       |       | 10.7* | 10.7* | 9.7*  | 9.7*  | 8.9*  | 8.9*  | 8.3* | 8.3* | 7.8* | 7.8* |      |      |     |      |      |     | 6.6* | 6.6* | 17.5 |
| 10.5        | SW            |       |       |       |       |       |       | 10.9* | 10.9* | 9.9*  | 9.9*  | 9.0*  | 9.0*  | 8.4* | 8.4* | 7.9* | 7.9* | 7.1* | 7.1* |     |      |      |     | 6.5* | 6.5* | 18.2 |
| 9.0         | SW            |       |       |       |       | 12.7* | 12.7* | 11.2* | 11.2* | 10.1* | 10.1* | 9.2*  | 9.2*  | 8.5* | 8.5* | 7.9* | 7.9* | 7.4* | 7.4* |     |      |      |     | 6.5* | 6.5* | 18.8 |
| 7.5         | SW            |       |       | 15.5* | 15.5* | 13.3* | 13.3* | 11.6* | 11.6* | 10.4* | 10.4* | 9.4*  | 9.4*  | 8.7* | 8.7* | 8.0* | 8.0* | 7.4  | 7.5* |     |      |      |     | 6.4  | 6.6* | 19.2 |
| 6.0         | SW            | 20.3* | 20.3* | 16.5* | 16.5* | 14.0* | 14.0* | 12.1* | 12.1* | 10.8* | 10.8* | 9.7*  | 9.7*  | 8.8* | 8.8* | 8.2* | 8.2* | 7.2  | 7.6* |     |      |      |     | 6.1  | 6.7* | 19.5 |
| 4.5         | SW            | 22.3* | 22.3* | 17.7* | 17.7* | 14.7* | 14.7* | 12.7* | 12.7* | 11.1* | 11.1* | 10.0* | 10.0* | 9.1* | 9.1* | 8.3* | 8.3* | 7.1  | 7.7* | 6.0 | 7.1* |      |     | 5.9  | 6.8* | 19.7 |
| 3.0         | SW            | 24.2* | 24.2* | 18.9* | 18.9* | 15.5* | 15.5* | 13.2* | 13.2* | 11.5* | 11.5* | 10.3* | 10.3* | 9.3* | 9.3* | 8.0  | 8.4* | 6.9  | 7.7* | 5.9 | 7.1* |      |     | 5.8  | 7.0* | 19.7 |
| 1.5         | SW            | 10.2* | 10.2* | 19.9* | 19.9* | 16.2* | 16.2* | 13.7* | 13.7* | 11.9* | 11.9* | 10.5* | 10.5* | 9.1  | 9.4* | 7.8  | 8.6* | 6.7  | 7.8* | 5.8 | 7.0* |      |     | 5.7  | 6.9* | 19.7 |
| 0           | SW            | 7.8*  | 7.8*  | 17.3* | 17.3* | 16.7* | 16.7* | 14.1* | 14.1* | 12.2* | 12.2* | 10.3  | 10.7* | 8.8  | 9.6* | 7.5  | 8.6* | 6.5  | 7.8* | 5.7 | 6.9* |      |     | 5.7  | 6.9* | 19.5 |
| -1.5        | SW            | 7.6*  | 7.6*  | 13.8* | 13.8* | 17.0* | 17.0* | 14.2  | 14.3* | 11.7  | 12.4* | 9.9   | 10.8* | 8.5  | 9.6* | 7.3  | 8.6* | 6.4  | 7.6* |     |      |      |     | 5.8  | 6.8* | 19.2 |
| -3.0        | SW            | 8.0*  | 8.0*  | 12.9* | 12.9* | 16.9* | 16.9* | 13.7  | 14.3* | 11.4  | 12.3* | 9.6   | 10.8* | 8.3  | 9.5* | 7.2  | 8.4* | 6.3  | 7.3* |     |      |      |     | 5.9  | 6.6* | 18.8 |
| -4.5        | SW            | 8.7*  | 8.7*  | 13.0* | 13.0* | 16.4* | 16.4* | 13.4  | 14.0* | 11.1  | 12.1* | 9.4   | 10.5* | 8.1  | 9.2* | 7.1  | 8.0* | 6.3  | 6.6* |     |      |      |     | 6.2  | 6.3* | 18.3 |
| -6.0        | SW            |       |       | 13.6* | 13.6* | 15.4* | 15.4* | 13.2* | 13.2* | 11.0  | 11.4* | 9.3   | 9.9*  | 8.1  | 8.5* | 7.1  | 7.1* |      |      |     |      |      |     | 6.7* | 6.7* | 16.9 |
| -7.5        | SW            |       |       |       |       |       |       | 11.9* | 11.9* | 10.3* | 10.3* | 8.8*  | 8.8*  |      |      |      |      |      |      |     |      |      |     | 8.6* | 8.6* | 13.6 |
| -9.0        | SW            |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |     |      |      |     |      |      |      |

1/2 🖞 In longitudinal position of undercarriage Height 🛛 📇 Can be slewed through 360°

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 750 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 working tools (grabs, load hooks, etc.) and load accommodation equipment 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.

Industry – Kinematic 2A



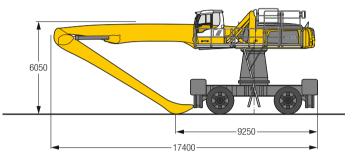
## Operating Weight

The operating weight includes the basic machine with 4 point outriggers, turret 2,000 mm, hydr. cab elevation, 4 solid tyres, straight boom 12.50 m, angled stick 10.00 m and grab model GMM 80-5/1.70 m<sup>3</sup> semi-closed tines.

Weight

91,400 kg

### Dimensions



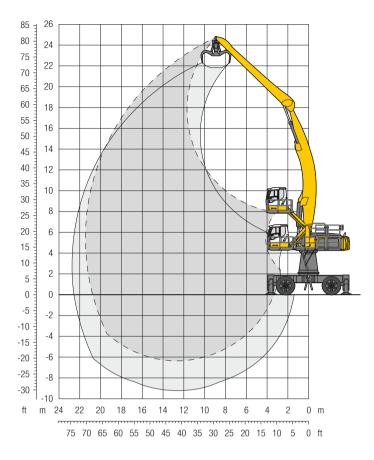
| •        |                       | 6.0   | ) m   | 7.5   | i m   | 9.0   | m     | 10.   | 5 m   | 12.   | 0 m   | 13.   | 5 m   | 15.0 | ) m  | 16.  | 5 m  | 18.  | ) m  | 19.5 | 5 m  | 21.0 | ) m  | -     |       | <b>1</b> |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|-------|-------|----------|
| ↓∕∕<br>m | Undercarriage         |       | սե    |       | սե    | 5     | դ     | 5     | Ъ     |       | հ     |       | Ŀ     |      | դ    |      | Ŀ    | 5    | Ľ    | 5    | Ŀ    | 5    | հ    |       | h     | m        |
| 25.5     | 4 pt. outriggers down |       |       | 11.1* | 11.1* | - 144 |       |       | -     |       |       |       |       |      |      |      | -    |      | -    |      |      |      | b-d  | 10.1* | 10.1* | 8.3      |
| 24.0     | 4 pt. outriggers down |       |       |       |       | 11.0* | 11.0* | 9.5*  | 9.5*  |       |       |       |       |      |      |      |      |      |      |      |      |      |      | 8.3*  | 8.3*  | 11.3     |
| 22.5     | 4 pt. outriggers down |       |       |       |       |       |       | 10.8* | 10.8* | 9.5*  | 9.5*  | 7.4*  | 7.4*  |      |      |      |      |      |      |      |      |      |      | 7.3*  | 7.3*  | 13.5     |
| 21.0     | 4 pt. outriggers down |       |       |       |       |       |       | 11.4* | 11.4* | 10.6* | 10.6* | 9.3*  | 9.3*  | 7.3* | 7.3* |      |      |      |      |      |      |      |      | 6.7*  | 6.7*  | 15.3     |
| 19.5     | 4 pt. outriggers down |       |       |       |       |       |       | 11.8* | 11.8* | 10.8* | 10.8* | 9.7*  | 9.7*  | 8.9* | 8.9* | 6.8* | 6.8* |      |      |      |      |      |      | 6.4*  | 6.4*  | 16.7     |
| 18.0     | 4 pt. outriggers down |       |       |       |       |       |       | 12.1* | 12.1* | 10.8* | 10.8* | 9.7*  | 9.7*  | 8.8* | 8.8* | 8.1* | 8.1* |      |      |      |      |      |      | 6.1*  | 6.1*  | 17.9     |
| 16.5     | 4 pt. outriggers down |       |       |       |       |       |       | 12.1* | 12.1* | 10.8* | 10.8* | 9.7*  | 9.7*  | 8.8* | 8.8* | 8.0* | 8.0* | 7.4* | 7.4* |      |      |      |      | 5.9*  | 5.9*  | 18.9     |
| 15.0     | 4 pt. outriggers down |       |       |       |       |       |       | 12.2* | 12.2* | 10.8* | 10.8* | 9.7*  | 9.7*  | 8.8* | 8.8* | 8.0* | 8.0* | 7.4* | 7.4* | 6.2* | 6.2* |      |      | 5.7*  | 5.7*  | 19.7     |
| 13.5     | 4 pt. outriggers down |       |       |       |       |       |       | 12.3* | 12.3* | 10.9* | 10.9* | 9.7*  | 9.7*  | 8.8* | 8.8* | 8.0* | 8.0* | 7.3* | 7.3* | 6.7* | 6.7* |      |      | 5.7*  | 5.7*  | 20.4     |
| 12.0     | 4 pt. outriggers down |       |       |       |       | 13.5* | 13.5* | 12.5* | 12.5* | 11.0* | 11.0* | 9.8*  | 9.8*  | 8.9* | 8.9* | 8.1* | 8.1* | 7.4* | 7.4* | 6.7* | 6.7* |      |      | 5.6*  | 5.6*  | 20.9     |
| 10.5     | 4 pt. outriggers down |       |       | 13.4* | 13.4* | 14.8* | 14.8* | 12.7* | 12.7* | 11.2* | 11.2* | 9.9*  | 9.9*  | 8.9* | 8.9* | 8.1* | 8.1* | 7.4* | 7.4* | 6.7* | 6.7* | 6.0* | 6.0* | 5.6*  | 5.6*  | 21.3     |
| 9.0      | 4 pt. outriggers down | 13.8* | 13.8* | 16.6* | 16.6* | 15.2* | 15.2* | 13.0* | 13.0* | 11.3* | 11.3* | 10.0* | 10.0* | 9.0* | 9.0* | 8.1* | 8.1* | 7.4* | 7.4* | 6.7* | 6.7* | 6.0* | 6.0* | 5.6*  | 5.6*  | 21.7     |
| 7.5      | 4 pt. outriggers down | 23.9* | 23.9* | 18.9* | 18.9* | 15.6* | 15.6* | 13.3* | 13.3* | 11.5* | 11.5* | 10.2* | 10.2* | 9.1* | 9.1* | 8.2* | 8.2* | 7.4* | 7.4* | 6.6* | 6.6* | 5.9* | 5.9* | 5.4*  | 5.4*  | 21.9     |
| 6.0      | 4 pt. outriggers down | 24.9* | 24.9* | 19.5* | 19.5* | 16.0* | 16.0* | 13.5* | 13.5* | 11.7* | 11.7* | 10.2* | 10.2* | 9.1* | 9.1* | 8.2* | 8.2* | 7.3* | 7.3* | 6.6* | 6.6* | 5.8* | 5.8* | 5.1*  | 5.1*  | 22.0     |
| 4.5      | 4 pt. outriggers down | 7.3*  | 7.3*  | 19.8* | 19.8* | 16.2* | 16.2* | 13.6* | 13.6* | 11.8* | 11.8* | 10.3* | 10.3* | 9.1* | 9.1* | 8.1* | 8.1* | 7.2* | 7.2* | 6.4* | 6.4* | 5.6* | 5.6* | 4.8*  | 4.8*  | 22.0     |
| 3.0      | 4 pt. outriggers down | 4.9*  | 4.9*  | 12.7* | 12.7* | 16.2* | 16.2* | 13.7* | 13.7* | 11.7* | 11.7* | 10.2* | 10.2* | 9.0* | 9.0* | 8.0* | 8.0* | 7.1* | 7.1* | 6.2* | 6.2* | 5.2* | 5.2* | 4.4*  | 4.4*  | 21.9     |
| 1.5      | 4 pt. outriggers down | 4.6*  | 4.6*  | 9.6*  | 9.6*  | 15.9* | 15.9* | 13.5* | 13.5* | 11.6* | 11.6* | 10.1* | 10.1* | 8.8* | 8.8* | 7.8* | 7.8* | 6.8* | 6.8* | 5.9* | 5.9* | 4.7* | 4.7* | 4.0*  | 4.0*  | 21.6     |
| 0        | 4 pt. outriggers down | 5.1*  | 5.1*  | 8.9*  | 8.9*  | 15.2* | 15.2* | 12.9* | 12.9* | 11.1* | 11.1* | 9.7*  | 9.7*  | 8.5* | 8.5* | 7.4* | 7.4* | 6.4* | 6.4* | 5.3* | 5.3* | 3.9* | 3.9* | 3.6*  | 3.6*  | 21.2     |
| -1.5     | 4 pt. outriggers down | 5.8*  | 5.8*  | 9.1*  | 9.1*  | 13.9* | 13.9* | 12.0* | 12.0* | 10.4* | 10.4* | 9.1*  | 9.1*  | 7.9* | 7.9* | 6.8* | 6.8* | 5.7* | 5.7* | 4.5* | 4.5* |      |      | 3.9*  | 3.9*  | 20.1     |
| -3.0     | 4 pt. outriggers down |       |       | 9.6*  | 9.6*  | 12.1* | 12.1* | 10.7* | 10.7* | 9.3*  | 9.3*  | 8.1*  | 8.1*  | 7.0* | 7.0* | 5.9* | 5.9* | 4.7* | 4.7* |      |      |      |      | 4.4*  | 4.4*  | 18.3     |
| -4.5     | 4 pt. outriggers down |       |       |       |       |       |       |       |       | 7.7*  | 7.7*  | 6.7*  | 6.7*  |      |      |      |      |      |      |      |      |      |      | 5.8*  | 5.8*  | 14.7     |

Fight Can be slewed through 360° in longitudinal position of undercarriage (+/ - 15°) are specified over the rigid axie with blocked oscillating axie. 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 axie 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 working tools (grabs, load hooks, etc.) and load accommodation equipment 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 unit is limited by its stability.

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 80 M HR – Attachment AG22

Industry – Kinematic 2D



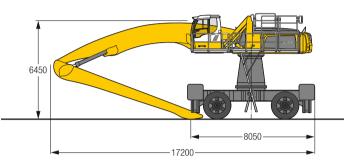
### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, turret 2,000 mm, hydr. cab elevation, 4 solid tyres, angled boom 12.50 m, straight stick 10.00 m and grab model GMM 80-5/1.40 m<sup>3</sup> semi-closed tines.

| Weight |
|--------|
|--------|

91,800 kg

### Dimensions



| •        |                       | 6.0   | ) m   | 7.5   | i m   | 9.0   | ) m   | 10.   | 5 m   | 12.0  | 0 m   | 13.  | 5 m  | 15.0 | ) m  | 16.5 | 5 m  | 18.0 | ) m  | 19.  | 5 m  | 21.  | 0 m  | /    |      |      |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| ↓∕∕<br>m | Undercarriage         |       | Ь     |       | Ь     |       | Ь     |       | հ     | 5     | հ     |      | հ    | 5    | Ľ    |      | Ľ    |      | հ    | 5    | հ    | 5    | Ь    |      | ĥ    | m    |
| 24.0     | 4 pt. outriggers down | -     |       |       |       |       |       |       | -     |       | -     |      | -    | -    | -    | -    |      | -    |      |      | -    | -    | -    | 7.8* | 7.8* | 10.2 |
| 22.5     | 4 pt. outriggers down |       |       |       |       |       |       |       |       | 7.8*  | 7.8*  |      |      |      |      |      |      |      |      |      |      |      |      | 7.0* | 7.0* | 12.6 |
| 21.0     | 4 pt. outriggers down |       |       |       |       |       |       |       |       | 9.2*  | 9.2*  | 7.8* | 7.8* |      |      |      |      |      |      |      |      |      |      | 6.5* | 6.5* | 14.5 |
| 19.5     | 4 pt. outriggers down |       |       |       |       |       |       |       |       | 9.0*  | 9.0*  | 8.2* | 8.2* | 7.6* | 7.6* |      |      |      |      |      |      |      |      | 6.1* | 6.1* | 16.0 |
| 18.0     | 4 pt. outriggers down |       |       |       |       |       |       |       |       | 9.0*  | 9.0*  | 8.2* | 8.2* | 7.5* | 7.5* | 7.0* | 7.0* |      |      |      |      |      |      | 5.9* | 5.9* | 17.2 |
| 16.5     | 4 pt. outriggers down |       |       |       |       |       |       |       |       | 9.0*  | 9.0*  | 8.1* | 8.1* | 7.5* | 7.5* | 6.9* | 6.9* | 6.2* | 6.2* |      |      |      |      | 5.8* | 5.8* | 18.2 |
| 15.0     | 4 pt. outriggers down |       |       |       |       |       |       |       |       | 9.0*  | 9.0*  | 8.2* | 8.2* | 7.5* | 7.5* | 6.9* | 6.9* | 6.5* | 6.5* |      |      |      |      | 5.7* | 5.7* | 19.1 |
| 13.5     | 4 pt. outriggers down |       |       |       |       |       |       |       |       | 9.2*  | 9.2*  | 8.3* | 8.3* | 7.6* | 7.6* | 7.0* | 7.0* | 6.5* | 6.5* | 6.1* | 6.1* |      |      | 5.6* | 5.6* | 19.8 |
| 12.0     | 4 pt. outriggers down |       |       |       |       |       |       | 10.5* | 10.5* | 9.3*  | 9.3*  | 8.4* | 8.4* | 7.7* | 7.7* | 7.0* | 7.0* | 6.5* | 6.5* | 6.1* | 6.1* |      |      | 5.6* | 5.6* | 20.3 |
| 10.5     | 4 pt. outriggers down |       |       |       |       | 12.4* | 12.4* | 10.8* | 10.8* | 9.5*  | 9.5*  | 8.6* | 8.6* | 7.8* | 7.8* | 7.1* | 7.1* | 6.6* | 6.6* | 6.1* | 6.1* |      |      | 5.7* | 5.7* | 20.8 |
| 9.0      | 4 pt. outriggers down |       |       | 15.4* | 15.4* | 12.9* | 12.9* | 11.1* | 11.1* | 9.8*  | 9.8*  | 8.8* | 8.8* | 7.9* | 7.9* | 7.2* | 7.2* | 6.7* | 6.7* | 6.2* | 6.2* | 5.8* | 5.8* | 5.7* | 5.7* | 21.1 |
| 7.5      | 4 pt. outriggers down | 20.5* | 20.5* | 16.3* | 16.3* | 13.5* | 13.5* | 11.5* | 11.5* | 10.1* | 10.1* | 9.0* | 9.0* | 8.1* | 8.1* | 7.3* | 7.3* | 6.7* | 6.7* | 6.2* | 6.2* | 5.8* | 5.8* | 5.7* | 5.7* | 21.3 |
| 6.0      | 4 pt. outriggers down | 22.0* | 22.0* | 17.2* | 17.2* | 14.1* | 14.1* | 11.9* | 11.9* | 10.4* | 10.4* | 9.2* | 9.2* | 8.2* | 8.2* | 7.5* | 7.5* | 6.8* | 6.8* | 6.3* | 6.3* | 5.8* | 5.8* | 5.6* | 5.6* | 21.4 |
| 4.5      | 4 pt. outriggers down | 10.8* | 10.8* | 18.0* | 18.0* | 14.6* | 14.6* | 12.3* | 12.3* | 10.7* | 10.7* | 9.4* | 9.4* | 8.4* | 8.4* | 7.6* | 7.6* | 6.9* | 6.9* | 6.3* | 6.3* | 5.8* | 5.8* | 5.6* | 5.6* | 21.4 |
| 3.0      | 4 pt. outriggers down | 7.0*  | 7.0*  | 15.7* | 15.7* | 15.1* | 15.1* | 12.7* | 12.7* | 10.9* | 10.9* | 9.6* | 9.6* | 8.5* | 8.5* | 7.7* | 7.7* | 7.0* | 7.0* | 6.3* | 6.3* | 5.7* | 5.7* | 5.6* | 5.6* | 21.3 |
| 1.5      | 4 pt. outriggers down | 6.3*  | 6.3*  | 11.6* | 11.6* | 15.4* | 15.4* | 12.9* | 12.9* | 11.1* | 11.1* | 9.7* | 9.7* | 8.6* | 8.6* | 7.7* | 7.7* | 7.0* | 7.0* | 6.3* | 6.3* | 5.5* | 5.5* | 5.5* | 5.5* | 21.1 |
| 0        | 4 pt. outriggers down | 6.4*  | 6.4*  | 10.4* | 10.4* | 15.5* | 15.5* | 13.0* | 13.0* | 11.2* | 11.2* | 9.8* | 9.8* | 8.6* | 8.6* | 7.7* | 7.7* | 6.9* | 6.9* | 6.1* | 6.1* |      |      | 5.4* | 5.4* | 20.8 |
| -1.5     | 4 pt. outriggers down | 6.8*  | 6.8*  | 10.1* | 10.1* | 15.2* | 15.2* | 12.9* | 12.9* | 11.1* | 11.1* | 9.7* | 9.7* | 8.5* | 8.5* | 7.5* | 7.5* | 6.7* | 6.7* | 5.8* | 5.8* |      |      | 5.3* | 5.3* | 20.3 |
| -3.0     | 4 pt. outriggers down | 7.4*  | 7.4*  | 10.3* | 10.3* | 14.6* | 14.6* | 12.5* | 12.5* | 10.8* | 10.8* | 9.4* | 9.4* | 8.2* | 8.2* | 7.2* | 7.2* | 6.3* | 6.3* | 5.2* | 5.2* |      |      | 5.0* | 5.0* | 19.7 |
| -4.5     | 4 pt. outriggers down |       |       | 10.8* | 10.8* | 13.5* | 13.5* | 11.7* | 11.7* | 10.1* | 10.1* | 8.8* | 8.8* | 7.7* | 7.7* | 6.7* | 6.7* | 5.6* | 5.6* |      |      |      |      | 5.1* | 5.1* | 18.6 |
| -6.0     | 4 pt. outriggers down |       |       |       |       |       |       | 10.4* | 10.4* | 9.1*  | 9.1*  | 7.9* | 7.9* | 6.8* | 6.8* |      |      |      |      |      |      |      |      | 6.3* | 6.3* | 15.7 |

🎶 Height 🛛 🛁 Can be slewed through 360° 🖞 In longitudinal position of undercarriage

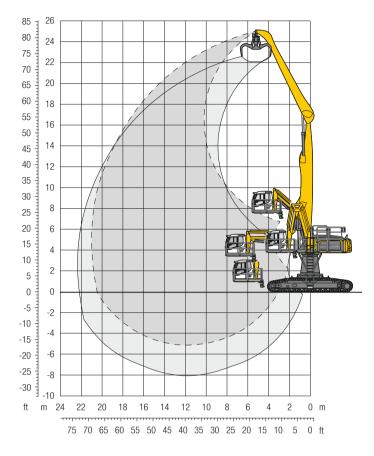
Max. reach \* Limited by hydr. capacity

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 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 working tools (grabs, load hooks, etc.) and load accommodation equipment 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 unit is limited by its stability.

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 80 C HR – Attachment GA21

Industry – Kinematic 2A

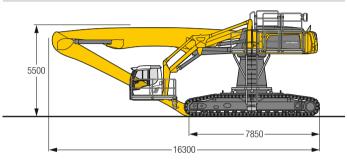


## Operating Weight and Ground Pressure

The operating weight includes the basic machine with turret 2,000 mm, hydr. cab elevation, straight boom 11.50 m, angled stick 10.00 m and grab model GMM 80-5/1.70 m<sup>3</sup> semi-closed tines.

| Weight          | 94,400 kg  |
|-----------------|------------|
| Pad width       | 750 mm     |
| Ground pressure | on request |

### Dimensions



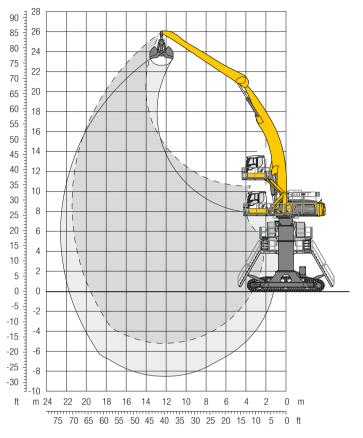
| •    |               | 6.0   | ) m   | 7.5   | 5 m      | 9.0   | m     | 10.9  | 5 m   | 12.   | 0 m   | 13.   | 5 m   | 15.0 | ) m  | 16.5 | 5 m  | 18.0 | ) m  | 19.  | 5 m  | 21.0 | ) m  | / <i>~</i> |      |      |
|------|---------------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------------|------|------|
| Į/   |               |       | ľ     |       | <b>1</b> |       | ſ     |       | ľ     |       | ľ     |       | ſ     |      | ľ    |      | ſ    |      | ľ    |      | ľ    |      | ľ    |            | ີ່   |      |
| m    | Undercarriage |       |       |       |          |       |       |       | Ľ     |       |       |       | Ľ     |      |      |      | Ľ    | 5    | 2    |      | Ľ    |      | Ľ    |            | Ľ    | m    |
| 24.0 | SW            |       |       | 11.1* | 11.1*    |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |      |      |      | 9.9*       | 9.9* | 8.3  |
| 22.5 | SW            |       |       |       |          | 11.0* | 11.0* | 9.3*  | 9.3*  |       |       |       |       |      |      |      |      |      |      |      |      |      |      | 8.2*       | 8.2* | 11.2 |
| 21.0 | SW            |       |       |       |          |       |       | 10.7* | 10.7* | 9.3*  | 9.3*  |       |       |      |      |      |      |      |      |      |      |      |      | 7.3*       | 7.3* | 13.3 |
| 19.5 | SW            |       |       |       |          |       |       | 11.4* | 11.4* | 10.5* | 10.5* | 9.0*  | 9.0*  |      |      |      |      |      |      |      |      |      |      | 6.7*       | 6.7* | 15.0 |
| 18.0 | SW            |       |       |       |          |       |       | 11.8* | 11.8* | 11.0* | 11.0* | 10.1* | 10.1* | 8.6* | 8.6* |      |      |      |      |      |      |      |      | 6.3*       | 6.3* | 16.3 |
| 16.5 | SW            |       |       |       |          |       |       | 12.1* | 12.1* | 11.0* | 11.0* | 10.0* | 10.0* | 9.2* | 9.2* | 7.9* | 7.9* |      |      |      |      |      |      | 6.0*       | 6.0* | 17.4 |
| 15.0 | SW            |       |       |       |          |       |       | 12.2* | 12.2* | 11.0* | 11.0* | 10.0* | 10.0* | 9.1* | 9.1* | 8.5* | 8.5* | 6.7* | 6.7* |      |      |      |      | 5.8*       | 5.8* | 18.4 |
| 13.5 | SW            |       |       |       |          |       |       | 12.3* | 12.3* | 11.0* | 11.0* | 10.0* | 10.0* | 9.2* | 9.2* | 8.5* | 8.5* | 7.8* | 7.8* |      |      |      |      | 5.7*       | 5.7* | 19.1 |
| 12.0 | SW            |       |       |       |          |       |       | 12.5* | 12.5* | 11.2* | 11.2* | 10.1* | 10.1* | 9.2* | 9.2* | 8.5* | 8.5* | 7.8* | 7.8* | 6.3* | 6.3* |      |      | 5.6*       | 5.6* | 19.7 |
| 10.5 | SW            |       |       |       |          | 13.6* | 13.6* | 12.8* | 12.8* | 11.4* | 11.4* | 10.2* | 10.2* | 9.3* | 9.3* | 8.5* | 8.5* | 7.8* | 7.8* | 7.2* | 7.2* |      |      | 5.6*       | 5.6* | 20.2 |
| 9.0  | SW            |       |       | 13.5* | 13.5*    | 15.1* | 15.1* | 13.1* | 13.1* | 11.6* | 11.6* | 10.4* | 10.4* | 9.4* | 9.4* | 8.6* | 8.6* | 7.9* | 7.9* | 7.2* | 7.2* |      |      | 5.6*       | 5.6* | 20.6 |
| 7.5  | SW            | 14.3* | 14.3* | 17.2* | 17.2*    | 15.6* | 15.6* | 13.5* | 13.5* | 11.9* | 11.9* | 10.6* | 10.6* | 9.5* | 9.5* | 8.6* | 8.6* | 7.9* | 7.9* | 7.1* | 7.1* |      |      | 5.7*       | 5.7* | 20.8 |
| 6.0  | SW            | 24.7* | 24.7* | 19.6* | 19.6*    | 16.2* | 16.2* | 13.9* | 13.9* | 12.1* | 12.1* | 10.7* | 10.7* | 9.6* | 9.6* | 8.7* | 8.7* | 7.9* | 7.9* | 7.0* | 7.0* |      |      | 5.8*       | 5.8* | 21.0 |
| 4.5  | SW            | 26.1* | 26.1* | 20.4* | 20.4*    | 16.8* | 16.8* | 14.2* | 14.2* | 12.3* | 12.3* | 10.9* | 10.9* | 9.7* | 9.7* | 8.7* | 8.7* | 7.8* | 7.8* | 6.9* | 6.9* | 5.8* | 5.8* | 5.8*       | 5.8* | 21.0 |
| 3.0  | SW            | 11.2* | 11.2* | 21.0* | 21.0*    | 17.1* | 17.1* | 14.5* | 14.5* | 12.5* | 12.5* | 10.9* | 10.9* | 9.7* | 9.7* | 8.6* | 8.6* | 7.7* | 7.7* | 6.7* | 6.7* |      |      | 5.4*       | 5.4* | 20.9 |
| 1.5  | SW            | 7.7*  | 7.7*  | 18.8* | 18.8*    | 17.2* | 17.2* | 14.5* | 14.5* | 12.5* | 12.5* | 10.9* | 10.9* | 9.6* | 9.6* | 8.5* | 8.5* | 7.4* | 7.4* | 6.3* | 6.3* |      |      | 5.0*       | 5.0* | 20.7 |
| 0    | SW            | 7.2*  | 7.2*  | 14.0* | 14.0*    | 16.9* | 16.9* | 14.3* | 14.3* | 12.3* | 12.3* | 10.7* | 10.7* | 9.3* | 9.3* | 8.1* | 8.1* | 7.0* | 7.0* | 5.7* | 5.7* |      |      | 4.5*       | 4.5* | 20.4 |
| -1.5 | SW            | 7.5*  | 7.5*  | 12.7* | 12.7*    | 16.1* | 16.1* | 13.6* | 13.6* | 11.7* | 11.7* | 10.1* | 10.1* | 8.8* | 8.8* | 7.5* | 7.5* | 6.2* | 6.2* |      |      |      |      | 4.7*       | 4.7* | 19.5 |
| -3.0 | SW            | 8.2*  | 8.2*  | 12.7* | 12.7*    | 14.6* | 14.6* | 12.5* | 12.5* | 10.8* | 10.8* | 9.3*  | 9.3*  | 7.9* | 7.9* | 6.6* | 6.6* |      |      |      |      |      |      | 5.2*       | 5.2* | 17.9 |
| -4.5 | SW            |       |       |       |          | 12.3* | 12.3* | 10.7* | 10.7* | 9.3*  | 9.3*  | 7.9*  | 7.9*  | 6.6* | 6.6* |      |      |      |      |      |      |      |      | 6.3*       | 6.3* | 15.3 |
| -6.0 | SW            |       |       |       |          |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |      |      |      |            |      |      |

1/2 🖌 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 can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 750 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 working tools (grabs, load hooks, etc.) and load accommodation equipment 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 80 C Gantry – Attachment AG22

Industry – Kinematic 2C

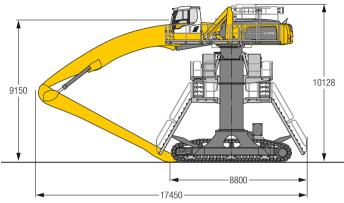


### Operating Weight and Ground Pressure

The operating weight includes the basic machine with hydr. cab elevation, angled boom 12.50 m, straight stick 10.00 m and grab model GMZ 80/3.00 m<sup>3</sup> shells for loose material.

| Weight          | 112,500 kg |
|-----------------|------------|
| Pad width       | 750 mm     |
| Ground pressure | on request |

### Dimensions



| •    |               | 6.0   | ) m   | 7.5   | i m      | 9.0   | m     | 10.   | 5 m   | 12.   | 0 m   | 13.  | 5 m  | 15.0 | ) m  | 16.5     | 5 m  | 18.0 | ) m  | 19.  | 5 m  | 21.0 | ) m  |      |            |      |
|------|---------------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|------|------|------|------|----------|------|------|------|------|------|------|------|------|------------|------|
| Į/   |               |       | ľ     |       | <b>1</b> |       | ľ     |       | ľ     |       | ľ     |      | ľ    |      | ľ    |          | ľ    |      | ľ    |      | ľ    |      | 7    |      | - <b>1</b> |      |
| m    | Undercarriage |       |       |       | 법        |       | Ľ     |       | Ľ     |       | Ľ     |      | Ľ    |      |      | <u>4</u> | Ľ    |      | 법    |      | Ľ    |      | Ľ    |      | Ľ          | m    |
| 25.5 | Gantry        |       |       |       |          |       |       |       |       |       |       |      |      |      |      |          |      |      |      |      |      |      |      | 6.8* | 6.8*       | 13.1 |
| 24.0 | Gantry        |       |       |       |          |       |       |       |       |       |       | 7.4* | 7.4* |      |      |          |      |      |      |      |      |      |      | 6.4* | 6.4*       | 14.8 |
| 22.5 | Gantry        |       |       |       |          |       |       |       |       |       |       |      |      | 6.8* | 6.8* |          |      |      |      |      |      |      |      | 6.1* | 6.1*       | 16.3 |
| 21.0 | Gantry        |       |       |       |          |       |       |       |       |       |       |      |      | 6.7* | 6.7* | 6.3*     | 6.3* |      |      |      |      |      |      | 5.9* | 5.9*       | 17.5 |
| 19.5 | Gantry        |       |       |       |          |       |       |       |       |       |       |      |      | 6.7* | 6.7* | 6.3*     | 6.3* | 5.9* | 5.9* |      |      |      |      | 5.7* | 5.7*       | 18.4 |
| 18.0 | Gantry        |       |       |       |          |       |       |       |       |       |       |      |      | 6.8* | 6.8* | 6.3*     | 6.3* | 5.9* | 5.9* |      |      |      |      | 5.7* | 5.7*       | 19.3 |
| 16.5 | Gantry        |       |       |       |          |       |       |       |       |       |       | 7.4* | 7.4* | 6.8* | 6.8* | 6.3*     | 6.3* | 5.9* | 5.9* | 5.6* | 5.6* |      |      | 5.6* | 5.6*       | 19.9 |
| 15.0 | Gantry        |       |       |       |          |       |       |       |       |       |       | 7.6* | 7.6* | 6.9* | 6.9* | 6.4*     | 6.4* | 6.0* | 6.0* | 5.7* | 5.7* |      |      | 5.5* | 5.5*       | 20.5 |
| 13.5 | Gantry        |       |       |       |          |       |       |       |       | 8.6*  | 8.6*  | 7.8* | 7.8* | 7.1* | 7.1* | 6.5*     | 6.5* | 6.1* | 6.1* | 5.7* | 5.7* |      |      | 5.5* | 5.5*       | 20.9 |
| 12.0 | Gantry        |       |       |       |          |       |       | 10.1* | 10.1* | 8.9*  | 8.9*  | 8.0* | 8.0* | 7.3* | 7.3* | 6.7*     | 6.7* | 6.2* | 6.2* | 5.8* | 5.8* | 5.5* | 5.5* | 5.4* | 5.4*       | 21.2 |
| 10.5 | Gantry        | 18.9* | 18.9* | 14.9* | 14.9*    | 12.4* | 12.4* | 10.6* | 10.6* | 9.3*  | 9.3*  | 8.3* | 8.3* | 7.5* | 7.5* | 6.8*     | 6.8* | 6.3* | 6.3* | 5.9* | 5.9* | 5.5* | 5.5* | 5.4* | 5.4*       | 21.3 |
| 9.0  | Gantry        | 20.5* | 20.5* | 15.9* | 15.9*    | 13.0* | 13.0* | 11.1* | 11.1* | 9.6*  | 9.6*  | 8.5* | 8.5* | 7.7* | 7.7* | 7.0*     | 7.0* | 6.4* | 6.4* | 6.0* | 6.0* | 5.5* | 5.5* | 5.4* | 5.4*       | 21.4 |
| 7.5  | Gantry        | 9.3*  | 9.3*  | 16.9* | 16.9*    | 13.7* | 13.7* | 11.6* | 11.6* | 10.0* | 10.0* | 8.8* | 8.8* | 7.9* | 7.9* | 7.2*     | 7.2* | 6.5* | 6.5* | 6.0* | 6.0* | 5.6* | 5.6* | 5.4* | 5.4*       | 21.4 |
| 6.0  | Gantry        | 6.7*  | 6.7*  | 14.2* | 14.2*    | 14.3* | 14.3* | 12.0* | 12.0* | 10.3* | 10.3* | 9.1* | 9.1* | 8.1* | 8.1* | 7.3*     | 7.3* | 6.6* | 6.6* | 6.1* | 6.1* | 5.5* | 5.5* | 5.4* | 5.4*       | 21.3 |
| 4.5  | Gantry        | 6.2*  | 6.2*  | 11.2* | 11.2*    | 14.7* | 14.7* | 12.3* | 12.3* | 10.6* | 10.6* | 9.3* | 9.3* | 8.2* | 8.2* | 7.4*     | 7.4* | 6.7* | 6.7* | 6.1* | 6.1* | 5.5* | 5.5* | 5.4* | 5.4*       | 21.0 |
| 3.0  | Gantry        | 6.5*  | 6.5*  | 10.2* | 10.2*    | 15.0* | 15.0* | 12.6* | 12.6* | 10.8* | 10.8* | 9.4* | 9.4* | 8.3* | 8.3* | 7.5*     | 7.5* | 6.7* | 6.7* | 6.0* | 6.0* |      |      | 5.4* | 5.4*       | 20.7 |
| 1.5  | Gantry        | 7.0*  | 7.0*  | 10.1* | 10.1*    | 14.9* | 14.9* | 12.6* | 12.6* | 10.8* | 10.8* | 9.4* | 9.4* | 8.3* | 8.3* | 7.4*     | 7.4* | 6.6* | 6.6* | 5.8* | 5.8* |      |      | 5.4* | 5.4*       | 20.2 |
| 0    | Gantry        | 7.6*  | 7.6*  | 10.4* | 10.4*    | 14.5* | 14.5* | 12.3* | 12.3* | 10.6* | 10.6* | 9.3* | 9.3* | 8.1* | 8.1* | 7.2*     | 7.2* | 6.3* | 6.3* | 5.3* | 5.3* |      |      | 5.2* | 5.2*       | 19.6 |
| -1.5 | Gantry        | 8.3*  | 8.3*  | 11.0* | 11.0*    | 13.6* | 13.6* | 11.7* | 11.7* | 10.1* | 10.1* | 8.8* | 8.8* | 7.7* | 7.7* | 6.7*     | 6.7* | 5.7* | 5.7* |      |      |      |      | 5.0* | 5.0*       | 18.8 |
| -3.0 | Gantry        | 9.0*  | 9.0*  | 11.7* | 11.7*    | 12.2* | 12.2* | 10.7* | 10.7* | 9.3*  | 9.3*  | 8.1* | 8.1* | 7.0* | 7.0* | 5.9*     | 5.9* |      |      |      |      |      |      | 4.6* | 4.6*       | 17.9 |
| -4.5 | Gantry        |       |       |       |          | 10.3* | 10.3* | 9.1*  | 9.1*  | 7.9*  | 7.9*  | 6.8* | 6.8* | 5.7* | 5.7* |          |      |      |      |      |      |      |      | 5.0* | 5.0*       | 15.8 |
|      |               |       |       | 1     | <u>]</u> |       |       | 1     |       |       |       |      |      |      |      |          |      |      |      |      |      |      |      |      |            | 1    |

### 🗚 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 750 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 working tools (grabs, load hooks, etc.) and load accommodation equipment 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.

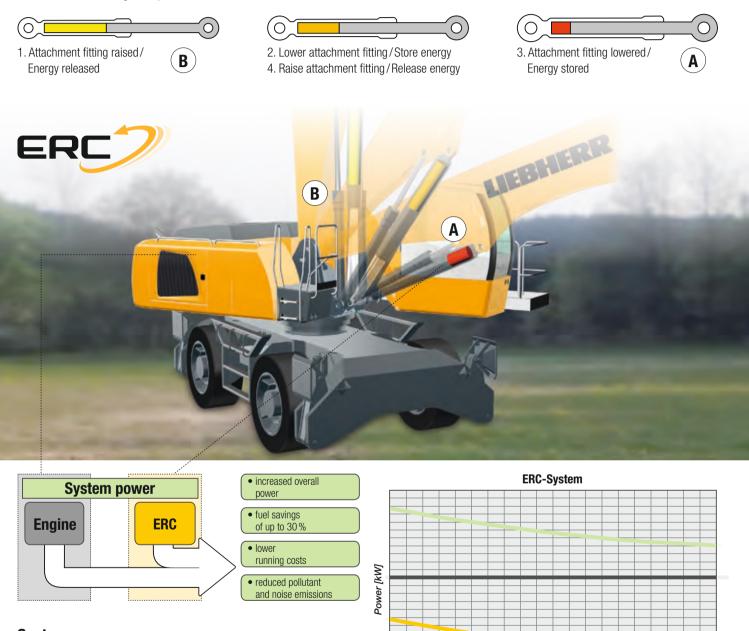
In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

# **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.



Α

## 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.



Engine power

В

Boom position

ERC performance

System performance

# Equipment

# Undercarriage

| undercarriage                          | 80 M | 80 C | 80 M HR | 80 C HR | 80 C Gantry |
|--|------|------|---------|---------|-------------|
| Track pads, variants                   |      | +    |         | +       | +           |
| Individual control outriggers          | +    |      | ٠       |         |             |
| Three-piece chain guide                |      | •    |         | •       | •           |
| Shuttle axle lock, automatic           | ٠    |      | ٠       |         |             |
| Outrigger monitoring system            | +    |      | +       |         |             |
| Tyres, variants                        | +    |      | +       |         |             |
| Protection for piston rods, outriggers | +    |      | +       |         |             |
| Undercarriage, variants                |      | +    |         |         |             |
| Two lockable storage boxes             | ٠    |      | ٠       |         |             |

| Hydraulic System   | 80 M | 80 C | 80 M HR | 80 C HR | 80 C Gantry |
|--|------|------|---------|---------|-------------|
| Electronic pump regulation                                 | •    | ٠    | ٠       | ٠       | •           |
| Liebherr hydraulic oil from -20 °C to +40 °C               | ٠    | ٠    | ٠       | ٠       | ٠           |
| Liebherr hydraulic oil, biologically degradable            | +    | +    | +       | +       | +           |
| Liebherr hydraulic oil, specially for warm or cold regions | +    | +    | +       | +       | +           |
| Magnetic rod in hydraulic tank                             | ٠    | •    | •       | •       | •           |
| Bypass filter  | +    | +    | +       | +       | +           |
| Preheating hydraulic oil                                   | +    | +    | +       | +       | +           |

| I Uppercarriage                                   | 80 M | 80 C | 80 M HR | 80 C HR | 80 C Gantry |
|---|------|------|---------|---------|-------------|
| Uppercarriage right side light, 1 piece, LED      | •    | •    | •       | ٠       | •           |
| Uppercarriage rear light, 2 pieces, LED           | +    | +    |         |         |             |
| Uppercarriage underneath rear light, 1 piece, LED |      |      | +       | +       | +           |
| Refuelling system with filling pump               | +    | +    | +       | +       | +           |
| Railing on uppercarriage                          | +    | +    | •       | ٠       | •           |
| Generator   | +    | +    | +       | +       | +           |
| Main battery switch for electrical system         | ٠    | •    | •       | •       | •           |
| Warning beacon on uppercarriage, LED              | +    | +    | +       | +       | +           |
| Protection for headlights                         | +    | +    |         |         |             |
| Protection for rear lights                        | +    | +    |         |         |             |
| Tool equipment, extended                          | •    | •    | ٠       | ٠       | •           |

| 🛱 Engine                           | 80 M | 80 C | 80 M HR | 80 C HR | 80 C Gantry |
|------------------------------------|------|------|---------|---------|-------------|
| Fuel anti-theft device             | +    | +    | +       | +       | +           |
| Air pre-filter with dust discharge | +    | +    | +       | +       | +           |
| Preheating fuel                    | +    | +    | +       | +       | +           |
| Preheating coolant*                | +    | +    | +       | +       | +           |
| Preheating engine oil *            | +    | +    | +       | +       | +           |

| جيً⊱ Cooling System                       | 80 M | 80 C | 80 M HR | 80 C HR | 80 C Gantry |
|---|------|------|---------|---------|-------------|
| Reversible fan drive, fully automatic     | +    | +    | +       | +       | +           |
| Protective grid in front of cooler intake | ٠    | ٠    | ٠       | ٠       | •           |

| Operator's Cab  | 80 M | 80 C | 80 M HR | 80 C HR | 80 C Gantry |
|---|------|------|---------|---------|-------------|
| Stabilizer, proportional control on left joystick             | •    |      | ٠       |         |             |
| Cab lights rear, halogen                                      | +    | +    | +       | +       | +           |
| Cab lights rear, LED  | +    | +    | +       | +       | +           |
| Cab lights front, halogen                                     | +    | +    | +       | +       | +           |
| Cab lights front, halogen (under rain cover)                  | •    | ٠    | ٠       | •       | ٠           |
| Cab lights front, LED   | +    | +    | +       | +       | +           |
| Cab lights front, LED (under rain cover)                      | +    | +    | +       | +       | +           |
| Left arm console, folding                                     | ٠    | ٠    | ٠       | ٠       | ٠           |
| Armrest adjustable  | •    | •    | •       | •       | ٠           |
| Circular bubble level   | +    | +    | ٠       | ٠       | ٠           |
| Driver profile, personalised (max. 5 drivers)                 | +    | +    | +       | +       | +           |
| Operator's seat Comfort                                       | •    | ٠    | ٠       | ٠       | ٠           |
| Operator's seat Premium                                       | +    | +    | +       | +       | +           |
| Driving alarm (acoustic signal is emitted during travel,      |      |      |         |         |             |
| can be switched ON/OFF)                                       | +    | +    | +       | +       | +           |
| Fire extinguisher   | +    | +    | +       | +       | +           |
| Horn, button on left joystick                                 | •    | •    | •       | •       | ٠           |
| Joystick steering   | •    |      | •       |         |             |
| Cab elevation, hydraulic (LHC)                                | ٠    | ٠    | ٠       | ٠       | ٠           |
| Cab elevation, hydraulic with double parallelogram (LHC-D)    |      |      | +       | +       | +           |
| Cab elevation, rigid (LFC)                                    | +    | +    |         |         |             |
| Automatic air conditioning                                    | •    | •    | •       | •       | ٠           |
| Wheel steering (slim version)                                 | +    |      | +       |         |             |
| LiDAT, vehicle fleet management                               | •    | •    | •       | •       | ٠           |
| Automatic engine shut-down (time adjustable)                  | +    | +    | +       | +       | +           |
| Proportional control  | •    | •    | •       | •       | ٠           |
| Radio Comfort, control via display with handsfree set         | +    | +    | +       | +       | +           |
| Preparation for radio installation                            | •    | •    | •       | •       | ٠           |
| Back-up alarm (acoustic signal is emitted traveling backward, |      |      |         |         |             |
| can not be switched off)                                      | +    |      | +       |         |             |
| Warning beacon on cab, LED                                    | +    | +    | +       | +       | +           |
| Windows made from impact-resistant laminated safety glass     | +    | +    | ٠       | ٠       | •           |
| Windscreen wiper, roof  | +    | +    | +       | +       | +           |
| Windshield wiper, entire windscreen                           | •    | ٠    | ٠       | ٠       | ٠           |
| Top guard   | +    | +    | +       | +       | +           |
| Front guard, adjustable                                       | +    | +    | +       | +       | +           |
| Sun visor   | +    | +    | +       | +       | +           |
| Flashing light (xenon)  |      |      |         |         |             |

| Attachment   | 80 M | 80 C | 80 M HR | 80 C HR | 80 C Gantry |
|--|------|------|---------|---------|-------------|
| 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          | +    | +    | •       | ٠       | ٠           |
| Attachment with electro-hydraulic end position control | •    | ٠    | •       | ٠       | ٠           |
| AutoLift   | +    | +    | +       | +       | +           |
| Pressure warning mechanism hoist cylinder              | •    | ٠    | •       | ٠       | ٠           |
| ERC system   | •    | ٠    | •       | ٠       | ٠           |
| Filter system for working tool                         | +    | +    | +       | +       | +           |
| Electronic lift limitation                             | +    | +    | +       | +       | +           |
| Boom cylinder cushioning                               | •    | ٠    | •       | ٠       | ٠           |
| Stick camera (with separate monitor), bottom side,     |      |      |         |         |             |
| with protection  | +    | +    | +       | +       | +           |
| Load torque limitation                                 | +    | +    | +       | +       | +           |
| Liebherr multi coupling system                         | +    | +    | +       | +       | +           |
| Pipe fracture safety valves hoist cylinders            | •    | ٠    | •       | ٠       | ٠           |
| Pipe fracture safety valves stick cylinders            | •    | •    | ٠       | •       | ٠           |
| Protection for piston rod, energy recovering cylinder  | +    | +    | +       | +       | +           |
| Protection for piston rods, hoist cylinder             | +    | +    | +       | +       | +           |
| Stick shutoff (retract), electronically                | •    | ٠    |         |         |             |
| Stick shutoff (retract/extend), electronically         | +    | +    | •       | ٠       | ٠           |
| Retract stick without pressure                         | •    | ٠    | •       | ٠       | ٠           |
| Sticks with quick coupling                             | +    | +    | +       | +       | +           |
| Overload warning device                                | +    | +    | +       | +       | +           |

| Complete Machine  | 80 M | 80 C | 80 M HR | 80 C HR | 80 C Gantry |
|---|------|------|---------|---------|-------------|
| Lubrication   |      |      |         |         |             |
| Lubrication undercarriage, manually – decentralised         |      |      |         |         |             |
| (grease points)   | •    |      |         |         |             |
| Lubrication undercarriage, manually – centralised           |      |      |         |         |             |
| (one grease point)  | +    |      | •       |         |             |
| Central lubrication system for uppercarriage and            |      |      |         |         |             |
| attachment, automatically                                   | •    | ٠    | •       | •       | •           |
| Central lubrication system for undercarriage, automatically | +    |      | +       |         |             |
| Special coating, variants                                   | +    | +    | +       | +       | +           |
| Monitoring  |      |      |         |         |             |
| Rear view monitoring with camera*                           | •    | ٠    | •       | •       | •           |
| Side view monitoring with camera                            | •    | ٠    | •       | •       | •           |

• = Standard, + = Option \* = country-dependent

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

# Working Tools



### Shells for Loose Material

| Grab model GMZ 50  |                |       |       |       |       |       |       |
|--------------------|----------------|-------|-------|-------|-------|-------|-------|
| Width of shells    | mm             | 1,400 | 1,600 | 1,800 | 2,000 | 2,200 | 2,400 |
| Capacity           | m <sup>3</sup> | 3.50  | 4.00  | 4.50  | 5.00  | 5.50  | 6.00  |
| Weight             | kg             | 2,615 | 2,745 | 2,820 | 2,950 | 3,085 | 3,215 |
| Grab model GMZ 80  |                |       |       |       |       |       |       |
| Width of shells    | mm             | 1,300 | 1,500 | 1,750 | 2,000 | 2,200 | 2,600 |
| Capacity           | m <sup>3</sup> | 3.00  | 3.50  | 4.00  | 4.50  | 5.00  | 6.00  |
| Weight             | kg             | 2,505 | 2,625 | 2,770 | 2,915 | 3,030 | 3,265 |
| Grab model GMZ 120 |                |       |       |       |       |       |       |
| Width of shells    | mm             | 1,600 | 1,800 | 2,000 | 2,200 |       |       |
| Capacity           | m <sup>3</sup> | 4.00  | 4.50  | 5.00  | 5.50  |       |       |
| Weight             | kg             | 3,040 | 3,135 | 3,295 | 3,425 |       |       |



| Multi-Tine Grab                |                | open  |       |       |       | semi-cl | osed  |       |       | closed |       |       |
|--------------------------------|----------------|-------|-------|-------|-------|---------|-------|-------|-------|--------|-------|-------|
| Grab model GMM 80-4 (4 tines)  |                |       |       |       |       |         |       |       |       |        |       |       |
| Capacity                       | m <sup>3</sup> | 1.10  | 1.40  | 1.70  |       | 1.10    | 1.40  | 1.70  |       |        | 1.40* |       |
| Weight                         | kg             | 1,895 | 1,935 | 1,995 |       | 2,090   | 2,150 | 2,210 |       |        | 2,430 |       |
| Grab model GMM 120-4 (4 tines) |                |       |       |       |       |         |       |       |       |        |       |       |
| Capacity                       | m <sup>3</sup> | 1.70  | 2.00  | 2.50  | 3.00  | 1.70    | 2.00  | 2.50  | 3.00  |        |       |       |
| Weight                         | kg             | 2,155 | 2,200 | 2,255 | 2,305 | 2,415   | 2,470 | 2,560 | 2,655 |        |       |       |
| Grab model GMM 80-5 (5 tines)  |                |       |       |       |       |         |       |       |       |        |       |       |
| Capacity                       | m <sup>3</sup> | 1.10  | 1.40  | 1.70  |       | 1.10    | 1.40  | 1.70  |       | 1.10*  | 1.40* | 1.70* |
| Weight                         | kg             | 2,170 | 2,220 | 2,290 |       | 2,390   | 2,465 | 2,540 |       | 2,440  | 2,580 | 2,740 |
| Grab model GMM 120-5 (5 tines) |                |       |       |       |       |         |       |       |       |        |       |       |
| Capacity                       | m <sup>3</sup> | 1.70  | 2.00  | 2.50  | 3.00  | 1.70    | 2.00  | 2.50  | 3.00  |        |       |       |
| Weight                         | kg             | 2,485 | 2,540 | 2,610 | 2,675 | 2,785   | 2,850 | 2,965 | 3,085 |        |       |       |
| * heart-shaped                 |                |       |       |       |       |         |       |       |       |        |       |       |



### Wood Grab

| Grab model GMH 80 round-shaped (co | omplete over   | rlapping, vertical cylinders)  |       |       |       |
|------------------------------------|----------------|--------------------------------|-------|-------|-------|
| Size                               | m <sup>2</sup> | 1.60                           | 1.90  | 2.20  | 2.50  |
| Cutting width                      | mm             | 870                            | 870   | 870   | 870   |
| Height of grab, closed             | mm             | 2,908                          | 2,984 | 3,062 | 3,140 |
| Weight                             | kg             | 2,195                          | 2,240 | 2,255 | 2,315 |
| Grab model GMH 120 round-shaped (  | complete ove   | erlapping, vertical cylinders) |       |       |       |
| Size                               | m <sup>2</sup> | 2.80                           | 3.20  |       |       |
| Cutting width                      | mm             | 870                            | 870   |       |       |
| Height of grab, closed             | mm             | 3,574                          | 3,673 |       |       |
| Weight                             | kg             | 2,405                          | 2,765 |       |       |



## Load Hook with Suspension

| Max. load              | t  | 25    |
|------------------------|----|-------|
| Height with suspension | mm | 1,220 |
| Weight                 | kg | 255   |



## Magnet Devices/Lifting Magnets

| Generator                    | kW 20     | 30     |  |
|------------------------------|-----------|--------|--|
| Electromagnets with suspensi | on        |        |  |
| Power                        | kW 11.7   | 17.8   |  |
| Diameter of magnet           | mm 1,500  | 1,700  |  |
| Weight                       | kg 2,400* | 3,300* |  |

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