

Material Handling Machine

# LH 80 Industry

Litronic®

**Generation**

6

**Operating Weight**

146,600 – 248,000 lb\*

**Engine**

308 HP (l)/230 kW

Stage Tier 4f

**System Performance**

437 kW

\* Without attachment



# LIEBHERR

## Performance

Power Plus Speed –  
Redefined Performance

## Economy

Good Investment –  
Savings for Long-Term

### LH 80 M Industry Litronic

#### Operating Weight

157,600 – 168,700 lb\*

#### Engine

308 HP (I)/230 kW  
Stage Tier 4f

#### System Performance

437 kW

### LH 80 C Industry Litronic

#### Operating Weight

146,600 – 176,400 lb\*

#### Engine

308 HP (I)/230 kW  
Stage Tier 4f

#### System Performance

437 kW

### LH 80 M High Rise Industry Litronic

#### Operating Weight

190,700 – 202,400 lb\*

#### Engine

308 HP (I)/230 kW  
Stage Tier 4f

#### System Performance

437 kW

### LH 80 C High Rise Industry Litronic

#### Operating Weight

193,600 – 209,400 lb\*

#### Engine

308 HP (I)/230 kW  
Stage Tier 4f

#### System Performance

437 kW

### LH 80 C Gantry Industry Litronic

#### Operating Weight

236,300 – 248,000 lb\*

#### Engine

308 HP (I)/230 kW  
Stage Tier 4f

#### System Performance

437 kW

\* Without attachment



## Reliability

Durability and Sustainability –  
Quality Down to the Last Detail

## Comfort

Perfection at a Glance –  
When Technology is Comfortable

## Maintainability

Efficiency Bonus – Even with  
Maintenance and Service



# Performance



## Power Plus Speed – Redefined Performance

Liebherr has been designing and manufacturing market leading material handling machines for over 50 years. 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 729 in<sup>3</sup> 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 equipment 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 equipment in order to protect the components and thus extend their service life. Simple, individual setting and adjustment of the working speed of boom, stick and slewing mechanism allow the driver to adjust the machine to each application and fully utilise the machine's capacity.

### Firm and Stable Positioning

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



### Liebherr Diesel Engine Compliant with Stage Tier 4f

- 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

### 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 the 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.

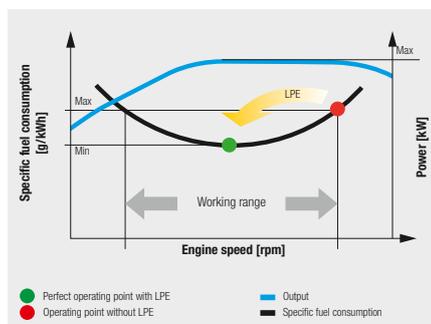
# Fuel Efficiency

## Engine Idling and Engine Shut-down

The standard automatic idling function reduces the engine speed to idle as soon as the operator takes their 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.



# Increased Productivity

## Energy Recovery System ERC

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

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

## ERC System

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

# Reliability



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

Every day Liebherr material handlers demonstrate their qualities in a range of industrial applications all over the world. Years of experience, continuous development and the latest technologies provide maximum safety in use. Their robust design and the use of components produced in-house ensure that the LH 80 is designed for a long service life.

## More Safety

### Pipe Fracture Safety Valves

The standard pipe fracture safety valves on the stick and hoist cylinders prevent the equipment 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 specified with an optional working range limitation feature. Height, depth, width and proximity settings can be set to ensure that collisions and resulting component damage are avoided.

### Overload Warning Device and Load Torque Limitation

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



## High Machine Availability

### Quality and Competence

Our experience, understanding of customer needs and the technical implementation of these findings guarantee the success of 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, slew ring, swivel drive and hydraulic cylinders are developed and produced by Liebherr itself. The great extent of in-house manufacturing guarantees maximum quality and ensures that components are optimally configured to each other.

### Robust Design

All steel components are designed and manufactured by Liebherr 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 innovative control electronics permanently monitor the vital functions of the machine to guarantee a high level of machine availability. Components which are critical for safety have a secondary redundancy feature to guarantee maximum safety and reliability.

### QPDM – Quality and Process Data Management

- QPDM allows production data to be logged, documented and evaluated
- Test specifications and machine documented automatically logged
- Ability to handle large quantities of data while maintaining uniform high quality

### Piston Rod Protection

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

### Equipment

- Components enhanced using FEM for maximum service life even if subjected to heavy lateral stresses during demanding tasks
- Cables routed internally to protect them from damage
- High load capacities with long reaches
- Reaches over 72 ft

# 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

### Ergonomic Design

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

### Excellent All-round Vision

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

### Low Noise Levels

The use of viscoelastic mounts, good insulation and low-noise diesel engines from Liebherr minimizes noise emissions and vibrations. The noise levels are just 70 dB(A) in the operator's cab and 105 dB(A) outside. This means that the material handler LH 80 has low noise to preserve people and the environment.



### Safe Access

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

### Joystick with Proportional Control

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

## Comfortable Operation

### Proportional Control

Precision control of the material handling machine is 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.

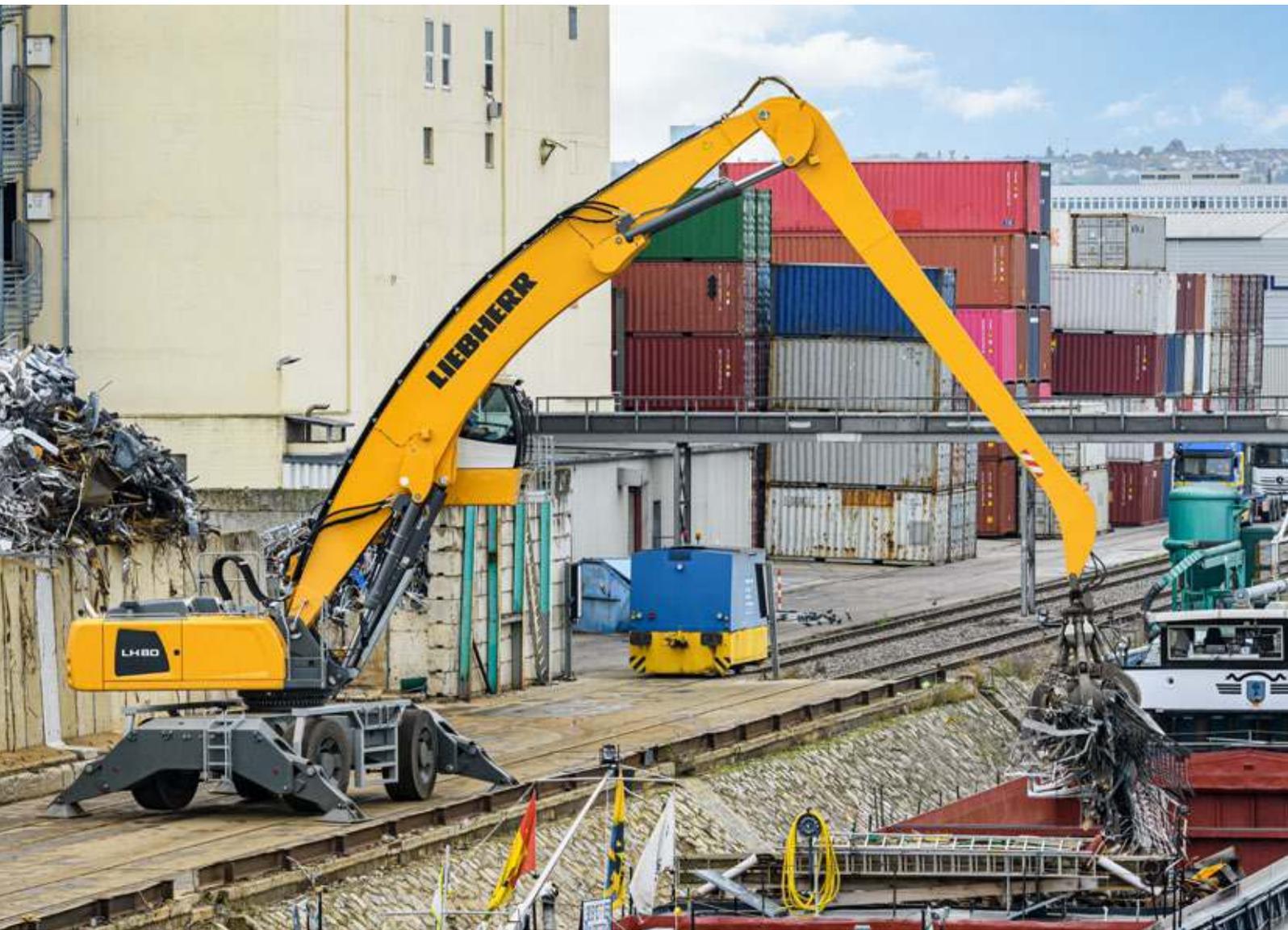
### Joystick Steering and Stabilizing

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

### Color Touchscreen Display and Operation Unit

The 7" color 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.

# Maintainability



## Efficiency Bonus – Even with Maintenance and Service

The Liebherr LH 80 material handling machine 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 minimizes machine's maintenance costs and downtime.

# Efficient Maintenance Concept

## Service-Based Machine Design

The service-based machine design guarantees short servicing times, thus minimizing 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, wide-opening 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

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

# Your Competent Service Partner

## Remanufacturing

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

## Competent Advice and Service

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



## Lubrication as it Works

- Fully automatic central lubrication system for uppercarriage and equipment
- Fully automatic central lubrication system for the undercarriage and attachments 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

## Equipment

- High load capacities and long reaches thanks to optimized 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 attachments made by Liebherr for maximum machine capacity utilization 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 is standard with 4-way mini joystick for greater precision, high precision control and functions





### Uppercarriage

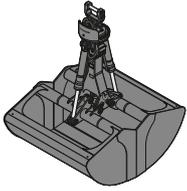
- 2-circuit Liebherr-Synchron-Comfortsystem (LSC) with LUDV technology for faster working speed at up to 20% less fuel consumption
- 230 kW engine output and greater pump flow for fast work cycles, convincing dynamics and maximum handling performance
- Electrical pilot control enables individual settings 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

- Optimized 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

## Attachments



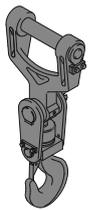
Shells for loose material



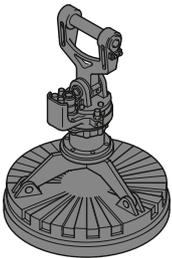
Multi-tine grab



Wood grab

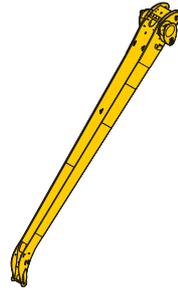


Load hook

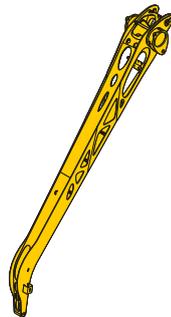


Magnet devices

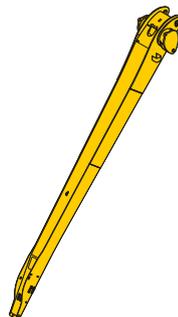
## Sticks



Angled stick

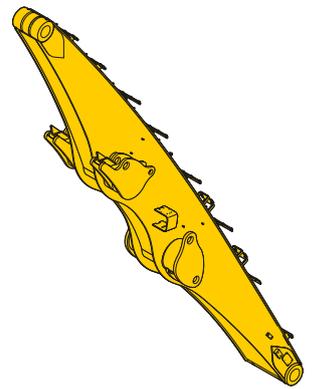


Lightweight stick

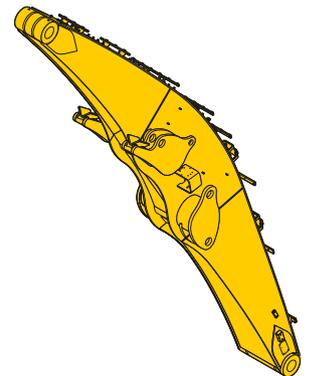


Straight stick

## Booms



Straight boom



Angled boom

## Cab Elevations

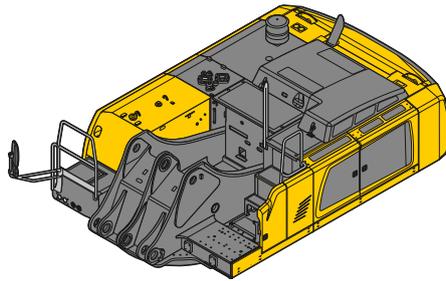


Hydraulic cab elevation



Rigid cab elevation

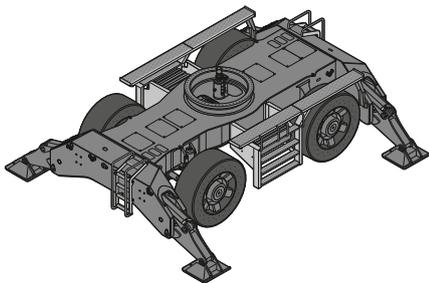
## Uppercarriage



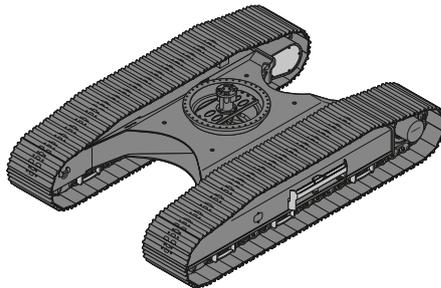
## Turret Elevations



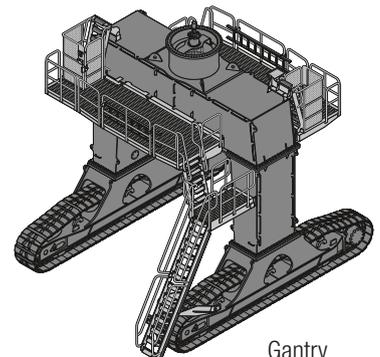
## Undercarriage



Mobile



Crawler



Gantry

# 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 equipment 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 they are designed uncompromisingly for the industrial use.

**1949**

First tower crane TK10



**1968**

Breakthrough with the A 911 mobile material handler



**1974**

Silenced material handling machine



R 353 with the first industrial equipment

**1961**



Production plant in Kirchdorf

**1970**



First hydraulic cab elevation

**1983**

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**

Opening of the assembly building for material handling machines



**2013**

Launch of the new LH series



**2016**

Launch of the new Port Material Handling Machines



Awarded the Bauma Design Prize for the LH 120

**2010**



Awarded the Bauma Innovation Prize for the ERC cylinder



Awarded the IF Award for the material handling machine LH 60

**2014**

# Technical Data



## Diesel Engine

<b>Rating per SAE J1349/ISO 9249</b>	308 HP (l) (230 kW) at 1,800 rpm
<b>Model</b>	Liebherr D946
<b>Type</b>	6 cylinder in-line
<b>Bore/Stroke</b>	5.1/5.9 in
<b>Displacement</b>	729 in <sup>3</sup>
<b>Engine operation</b>	4-stroke diesel Common-Rail turbo-charged and after-cooled reduced emissions
<b>Air cleaner</b>	dry-type air cleaner with pre-cleaner, primary and safety elements
<b>Engine idling</b>	sensor controlled
<b>Electrical system</b>	
<b>Voltage</b>	24 V
<b>Batteries</b>	2 x 180 Ah/12 V
<b>Alternator</b>	three-phase current 28 V/140 A
<b>Stage Tier 4f</b>	
<b>Harmful emissions values</b>	in accordance with EPA/CARB-40CFR stage Tier 4f
<b>Emission control</b>	Liebherr-SCR technology
<b>Fuel tank</b>	174 gal
<b>Urea tank</b>	17 gal



## Cooling System

<b>Diesel engine</b>	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
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## Hydraulic Controls

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



## Hydraulic System

<b>Hydraulic pump</b>	for equipment and travel drive	2 Liebherr axial piston variable displacement pumps (double construction)
<b>Max. flow</b>		2 x 96 gpm
<b>Max. pressure</b>		5,076 psi
<b>for swing drive</b>		reversible axial piston variable displacement pump, closed-loop circuit
<b>Max. flow</b>		52 gpm
<b>Max. pressure</b>		5,366 psi
<b>Hydraulic pump regulation and control</b>		2 circuit Liebherr-Synchron-Comfort-system (LSC) with electronic engine speed sensing regulation, pressure and flow compensation, automatic oil flow optimizer
<b>Hydraulic tank</b>		90 gal
<b>Hydraulic system</b>		240 gal
<b>Hydraulic oil filter</b>		2 main return filters with integrated partial micro filtration (5 µm)
<b>MODE selection</b>		adjustment of engine and hydraulic performance via a mode pre-selector to match application, e.g. for especially economical and environmentally friendly operation or for maximum material handling and heavy-duty jobs
<b>S (Sensitive)</b>		mode for precision work and lifting through very sensitive movements
<b>E (Eco)</b>		mode for especially economical and environmentally friendly operation
<b>P (Power)</b>		mode for high performance with low fuel consumption
<b>P+ (Power-Plus)</b>		mode for highest performance and for very heavy duty applications, suitable for continuous operation
<b>Engine speed and performance setting</b>		stepless alignment of engine output and hydraulic power via engine speed
<b>Option</b>		Tool Control: 20 preadjustable pump flows and pressures for add-on attachments



## Swing Drive

<b>Drive</b>	Liebherr axial piston motor in a closed system, Liebherr planetary reduction gear
<b>Swing ring</b>	Liebherr, sealed race ball bearing swing ring, internal teeth
<b>Swing speed</b>	0 – 6.5 rpm stepless
<b>Swing torque</b>	103,996 lbf ft
<b>Holding brake</b>	wet multi-disc (spring applied, pressure released)
<b>Option</b>	slewing gear brake Comfort



## Operator's Cab

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



## Equipment

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



## Undercarriage

<b>Mobile</b>	
Versions	Standard, High Rise
Drive	one axle drive per drive axle with Liebherr axial piston motor and functional brake valve on both sides (Standard); one driven axle with transmission with Liebherr axial piston motor and functional brake valve on both sides (High Rise)
Travel speed	
Joystick steering	0 – 2.2 mph stepless (creeper speed) 0 – 6.2 mph stepless 0 – 3.1 mph stepless (creeper speed) (High Rise) 0 – 5.0 mph stepless (High Rise)
Driving operation	automotive driving using accelerator pedal, cruise control function: storage of variable accelerator pedal positions
Axles	198,400 lb drive axles; manual or automatic hydraulically controlled front axle oscillation lock
Service brake	two circuit travel brake system with accumulator; wet and backlash-free disc brake
Holding brake	wet multi-disc (spring applied, pressure released)
Stabilization	4 point outriggers
<b>Crawler</b>	
Versions	EW, SW, High Rise, Gantry
Drive	Liebherr compact planetary reduction gear with Liebherr axial piston motor per side of undercarriage
Travel speed	
EW	0 – 1.7 mph stepless (creeper speed) 0 – 2.5 mph stepless
SW	0 – 1.6 mph stepless (creeper speed) 0 – 2.5 mph stepless
High Rise	0 – 1.2 mph stepless (creeper speed) 0 – 1.8 mph stepless
Gantry	0 – 1.6 mph stepless (creeper speed) 0 – 2.2 mph stepless
Brake	functional brake valves on both sides
Holding brake	wet multi-disc (spring applied, pressure released)
Track pads	triple grouser, flat
Tracks	sealed and greased

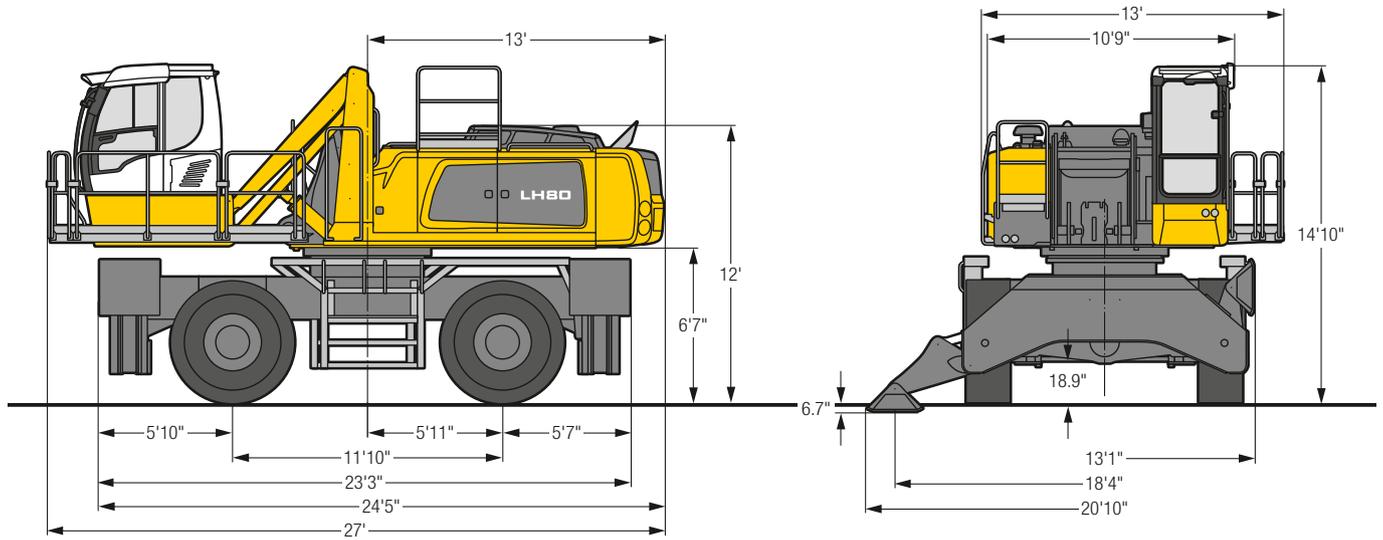


## Complete Machine

<b>Lubrication</b>	Liebherr central lubrication system for upper-carriage and equipment, automatically
Mobile (Option)	Liebherr central lubrication system for under-carriage, automatically
<b>Steps system</b>	safe and durable access system with anti-slip steps; main components hot-galvanized
<b>Noise emission</b>	
ISO 6396	$L_{pA}$ (inside cab) = 70 dB(A)
2000/14/EC	$L_{WA}$ (surround noise) = 105 dB(A)

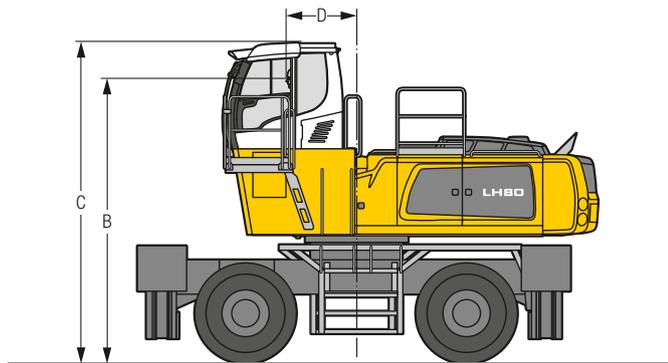
# LH 80 M – Dimensions

## Industry



## LH 80 M – Choice of Cab Elevation

### Cab Elevation LFC (Rigid Elevation)

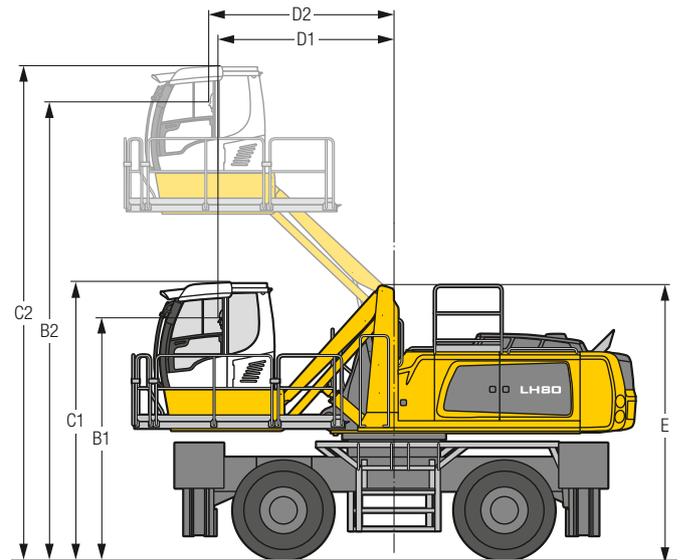


Increase type	LFC 120	LFC 200
Height	3'11"	6'7"
<b>B</b>	15' 5"	18'1"
<b>C</b>	17' 1"	19'9"
<b>D</b>	3' 8"	3'8"

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 13'.

Tires 23.5-25

### Cab Elevation LHC (Hydraulic Elevation)

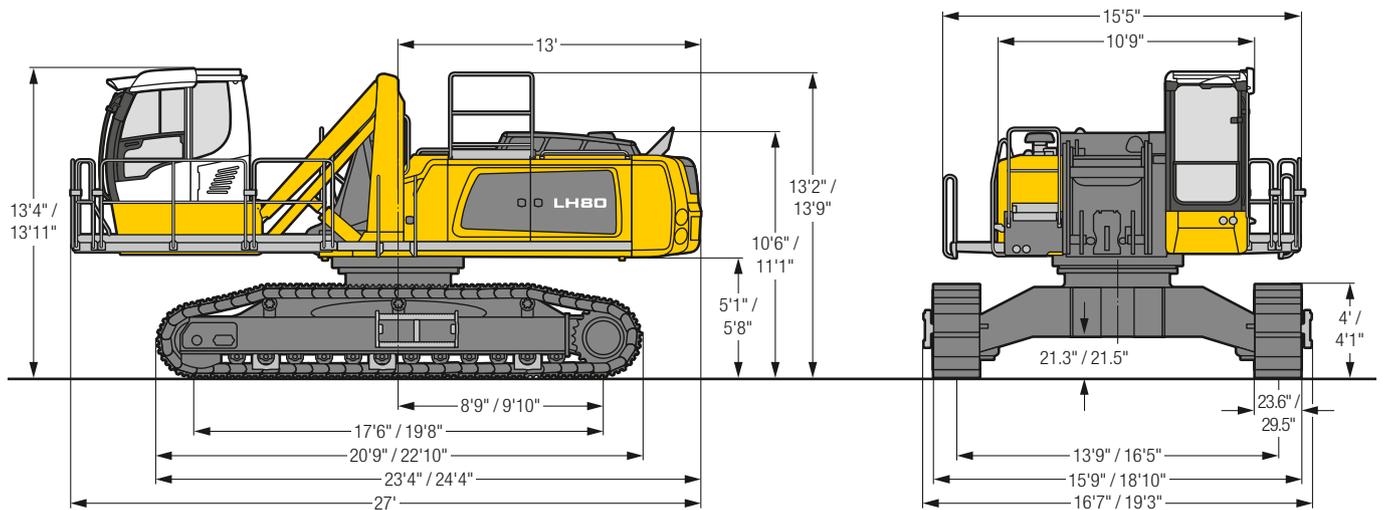


Increase type	LHC 255	LHC 340-35	LHC 360-50
<b>B1</b>	11' 6"	12' 8"	13' 2"
<b>B2</b>	19'10"	23'10"	24'10"
<b>C1</b>	13' 2"	14' 4"	14'10"
<b>C2</b>	21' 6"	25' 6"	26' 6"
<b>D1</b>	5' 6"	9' 2"	9' 4"
<b>D2</b>	5'11"	9' 2"	9'10"
<b>E</b>	12'10"	14' 2"	14' 7"

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

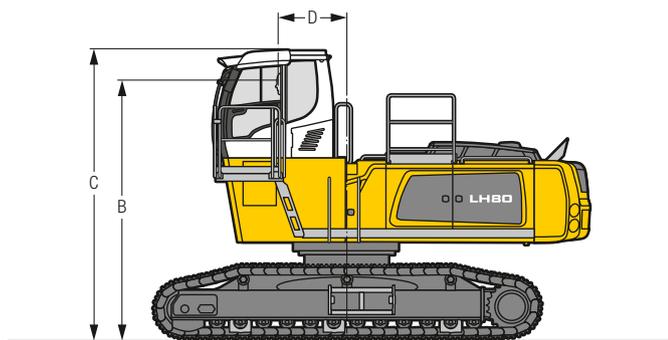
# LH 80 C EW/SW – Dimensions

## Industry



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

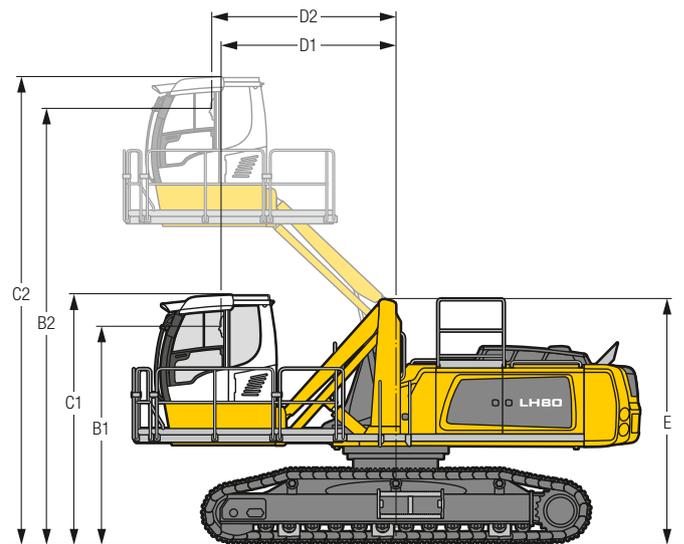
## Cab Elevation LFC (Rigid Elevation)



Increase type	LFC 120	LFC 200
Height	3'11"	6' 7"
B	13'11" / 14' 6"	16'6" / 17' 1"
C	15' 7" / 16' 2"	18'3" / 18'10"
D	3' 8"	3' 8"

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 12'8".

## Cab Elevation LHC (Hydraulic Elevation)

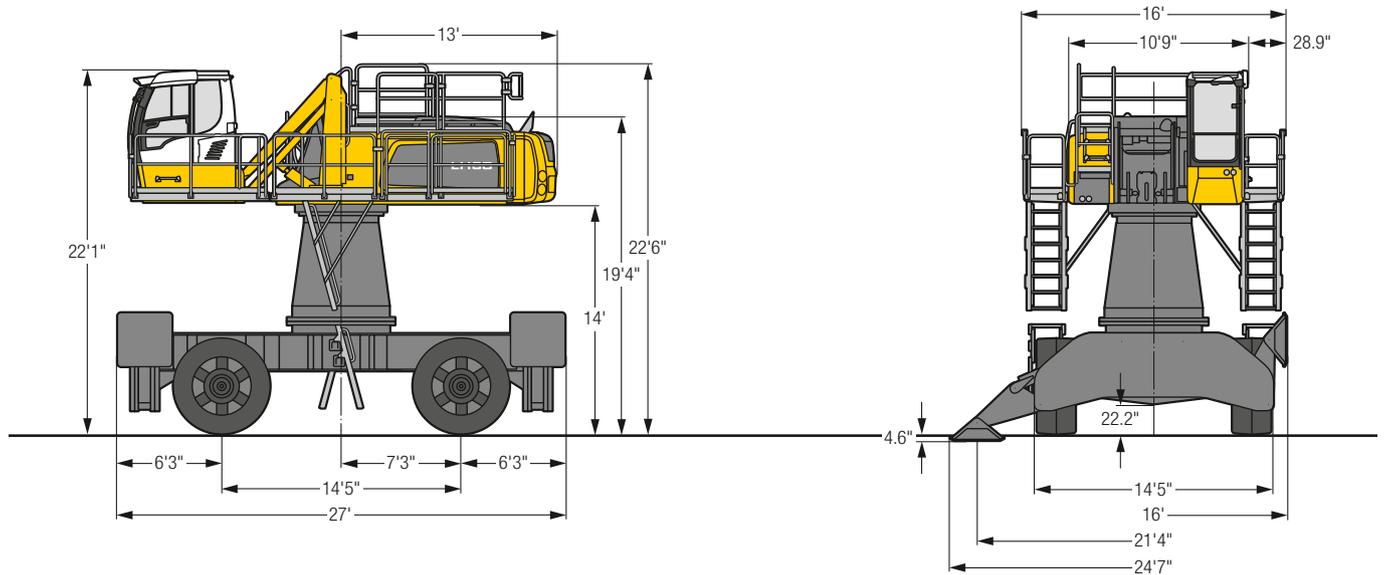


Increase type	LHC 255	LHC 340-35	LHC 360-50
B1	10' / 10' 7"	11' 2" / 11' 9"	11'7" / 12' 2"
B2	18'4" / 18'11"	22' 4" / 22'11"	23'4" / 23'11"
C1	11'8" / 12' 3"	12'10" / 13' 5"	13'4" / 13'11"
C2	20' / 20' 7"	24' / 24' 7"	25' / 25' 7"
D1	5' 6"	9' 2"	9' 4"
D2	5'11"	9' 2"	9'10"
E	11'4" / 11'11"	12' 7" / 13' 2"	13'1" / 13' 8"

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

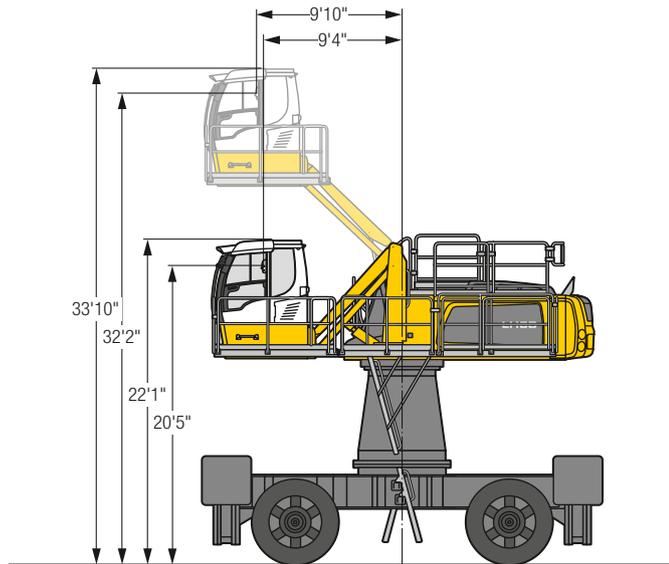
# LH 80 M HR – Dimensions

## Industry



# LH 80 M HR – Cab Elevation

## Cab Elevation LHC (Hydraulic Elevation)

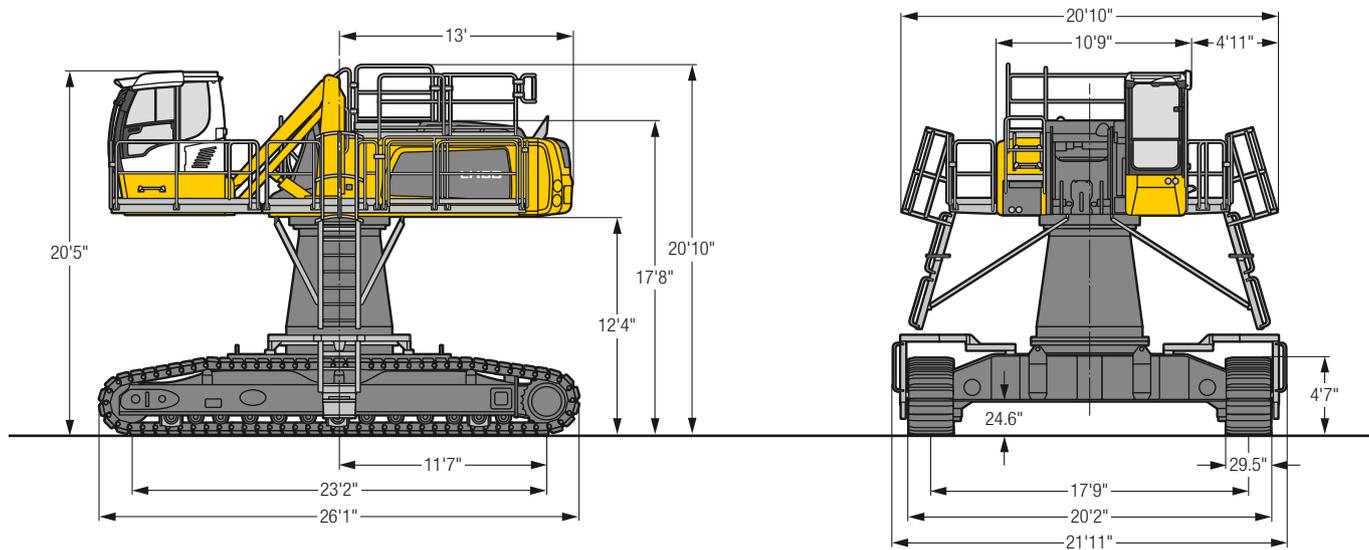


**Increase type** **LHC 360-50**  
 The hydraulically adjustable cab allows the driver, that he can choose his field of view freely and at any time within the stroke.

**Tires 26.5-25**

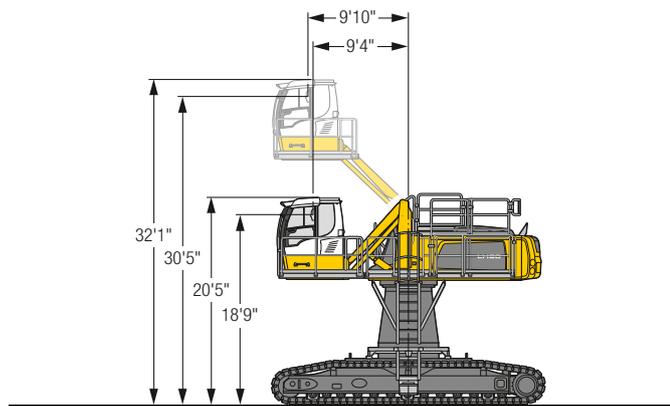
# LH 80 C HR – Dimensions

## Industry



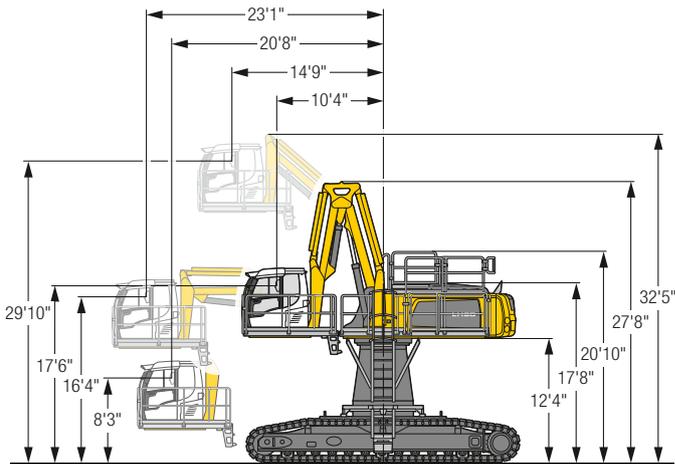
# LH 80 C HR – Choice of Cab Elevation

## Cab Elevation LHC (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.

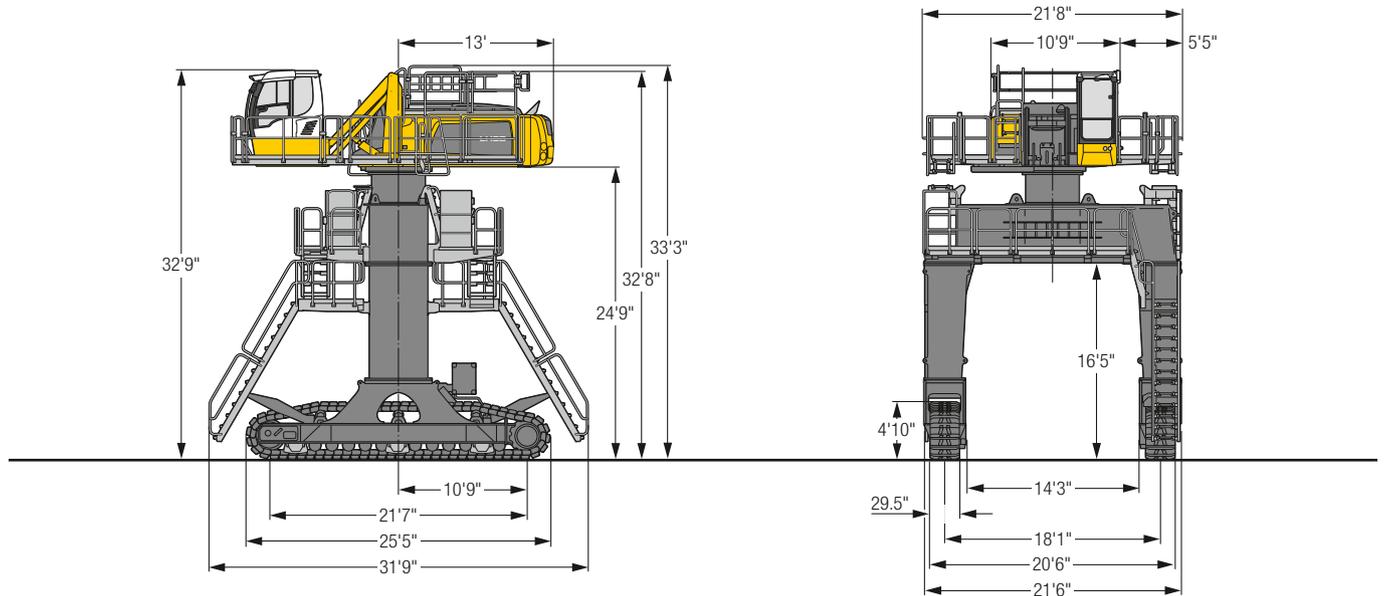
## Cab Elevation LHC-D (Hydraulic Elevation)



**Increase type** **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.

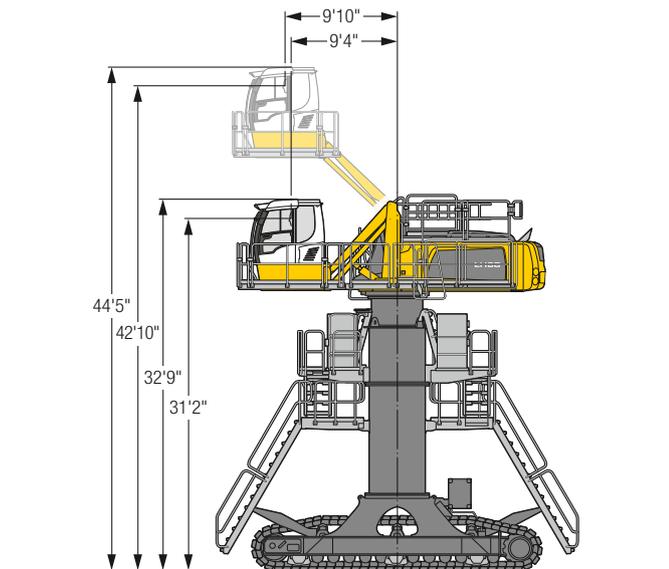
# LH 80 C Gantry – Dimensions

## Industry



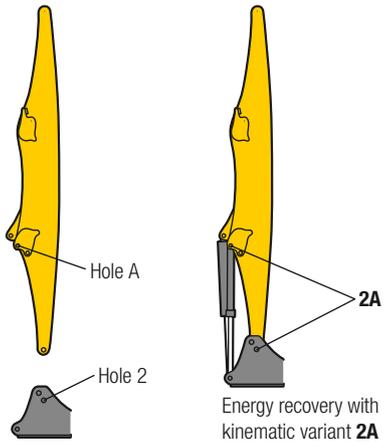
# LH 80 C Gantry – Cab Elevation

## Cab Elevation LHC (Hydraulic Elevation)

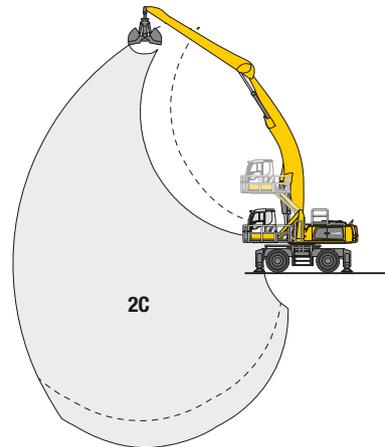
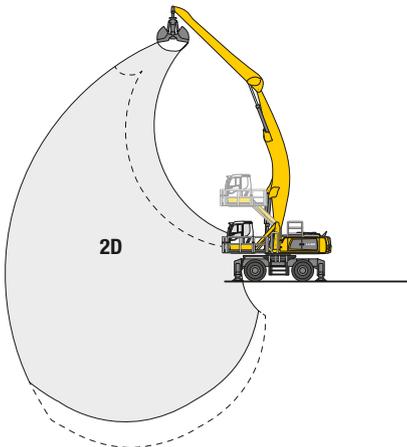
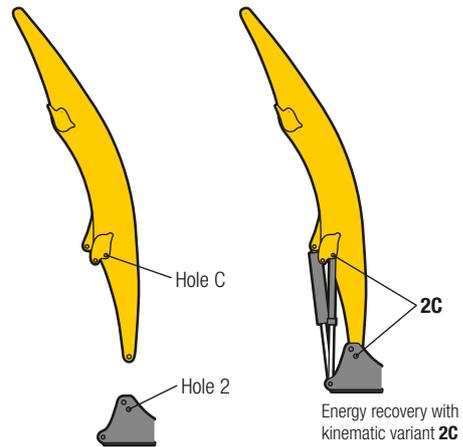
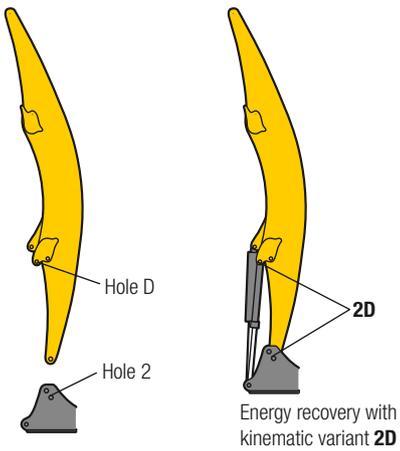


**Increase type** **LHC 360-50**  
 The hydraulically adjustable cab allows the driver, that he can choose his field of view freely and at any time within the stroke.

## Kinematic Variant 2A



## Kinematic Variant 2D/2C

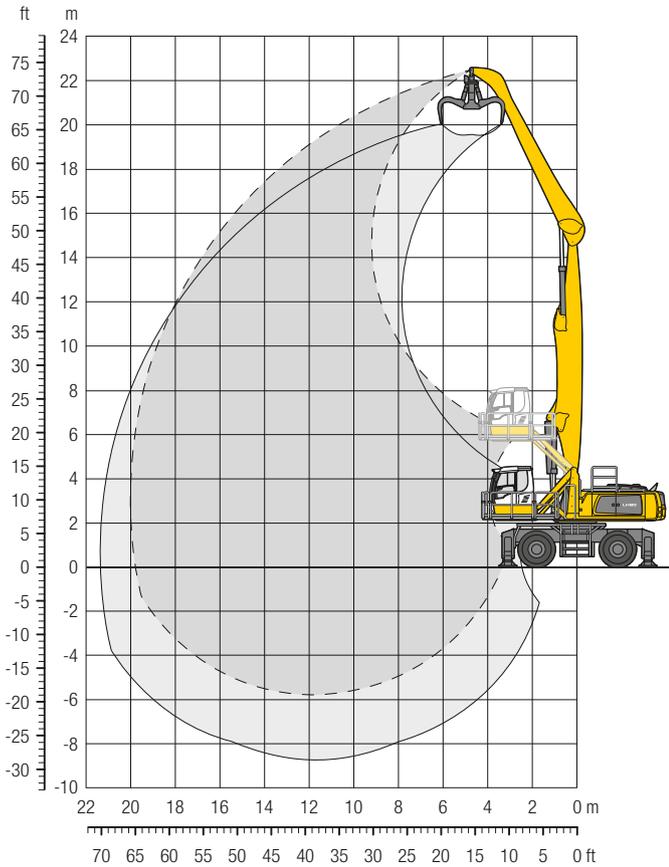


Altered range curve with additional reach depth, e.g. for unloading from ships



# LH 80 M – Equipment GA20

## Industry – Kinematic 2A

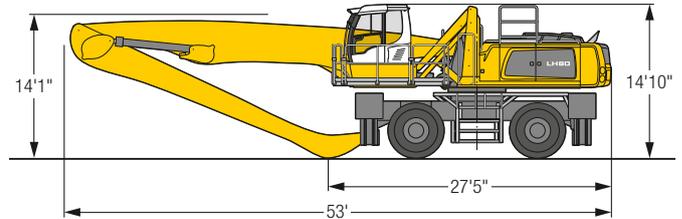


### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tires, straight boom 37'9", angled stick 29'6" and multi-tine grab GMM 80-5/2.22 yd<sup>3</sup> semi-closed tines.

Weight	169,300 lb
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### Dimensions



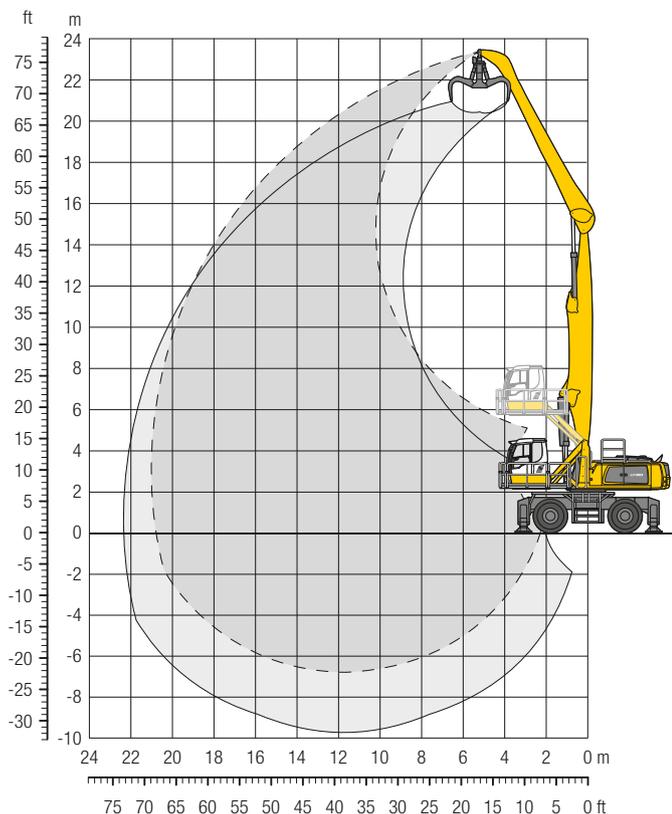
ft	Undercarriage	20 ft		25 ft		30 ft		35 ft		40 ft		45 ft		50 ft		55 ft		60 ft		65 ft		70 ft		ft in									
		4 pt. outriggers down																															
70	4 pt. outriggers down			26,1*	26,1*																			23,9*	23,9*	27'							
65	4 pt. outriggers down					26,2*	26,2*	21,5*	21,5*																	19,9*	19,9*	36' 2"					
60	4 pt. outriggers down					28,4*	28,4*	25,7*	25,7*	21,6*	21,6*																17,8*	17,8*	42' 11"				
55	4 pt. outriggers down					29,6*	29,6*	27,8*	27,8*	25,1*	25,1*	20,9*	20,9*															16,5*	16,5*	48' 2"			
50	4 pt. outriggers down							27,8*	27,8*	25,0*	25,0*	22,9*	22,9*	19,4*	19,4*													15,6*	15,6*	52' 5"			
45	4 pt. outriggers down							27,7*	27,7*	25,0*	25,0*	22,7*	22,7*	20,9*	20,9*	16,7*	16,7*											15,1*	15,1*	55' 11"			
40	4 pt. outriggers down							31,6*	31,6*	27,9*	27,9*	25,1*	25,1*	22,8*	22,8*	20,9*	20,9*	19,3*	19,3*									14,7*	14,7*	58' 8"			
35	4 pt. outriggers down							32,2*	32,2*	28,3*	28,3*	25,3*	25,3*	22,9*	22,9*	21,0*	21,0*	19,3*	19,3*	16,6*	16,6*							14,5*	14,5*	61'			
30	4 pt. outriggers down			33,4*	33,4*	33,0*	33,0*	28,9*	28,9*	25,7*	25,7*	23,2*	23,2*	21,1*	21,1*	19,3*	19,3*	17,6*	17,6*									14,4*	14,4*	62' 10"			
25	4 pt. outriggers down	33,0*	33,0*	38,5*	38,5*	34,1*	34,1*	29,6*	29,6*	26,2*	26,2*	23,5*	23,5*	21,3*	21,3*	19,4*	19,4*	17,3*	17,7*									14,4*	14,4*	64' 1"			
20	4 pt. outriggers down	47,9*	47,9*	42,3*	42,3*	35,4*	35,4*	30,5*	30,5*	26,8*	26,8*	23,9*	23,9*	21,5*	21,5*	19,5*	19,5*	17,1*	17,6*	14,6	14,7*							14,5*	14,5*	65' 1"			
15	4 pt. outriggers down	56,1*	56,1*	44,3*	44,3*	36,7*	36,7*	31,3*	31,3*	27,3*	27,3*	24,2*	24,2*	21,7*	21,7*	19,5*	19,5*	16,7*	17,5*	14,5	15,2*							14,2	14,7*	65' 7"			
10	4 pt. outriggers down	39,3*	39,3*	46,0*	46,0*	37,7*	37,7*	32,0*	32,0*	27,7*	27,7*	24,4*	24,4*	21,7*	21,7*	18,9*	19,4*	16,4*	17,2*	14,3	14,6*							14,0	14,1*	65' 8"			
5	4 pt. outriggers down	18,3*	18,3*	46,9*	46,9*	38,3*	38,3*	32,4*	32,4*	27,9*	27,9*	24,4*	24,4*	21,4	21,6*	18,5*	19,1*	16,1	16,7*	13,7*	13,7*									13,2*	13,2*	65' 6"	
0	4 pt. outriggers down	15,1*	15,1*	34,8*	34,8*	38,2*	38,2*	32,2*	32,2*	27,7*	27,7*	24,1*	24,1*	20,9	21,1*	18,1	18,5*	15,8*	15,8*											12,1*	12,1*	64' 11"	
-5	4 pt. outriggers down	15,5*	15,5*	29,2*	29,2*	36,9*	36,9*	31,3*	31,3*	26,9*	26,9*	23,3*	23,3*	20,2*	20,2*	17,3*	17,3*	14,2*	14,2*												11,1*	11,1*	63' 7"
-10	4 pt. outriggers down	17,1*	17,1*	28,3*	28,3*	34,2*	34,2*	29,3*	29,3*	25,2*	25,2*	21,7*	21,7*	18,6*	18,6*	15,4*	15,4*														12,0*	12,0*	59' 8"
-15	4 pt. outriggers down			29,2*	29,2*	29,9*	29,9*	26,0*	26,0*	22,4*	22,4*	19,1*	19,1*	16,0*	16,0*																13,7*	13,7*	53' 4"

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

The lift capacities on the stick end without attachment are stated in lb x 1,000 and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

# LH 80 M – Equipment GA21

## Industry – Kinematic 2A

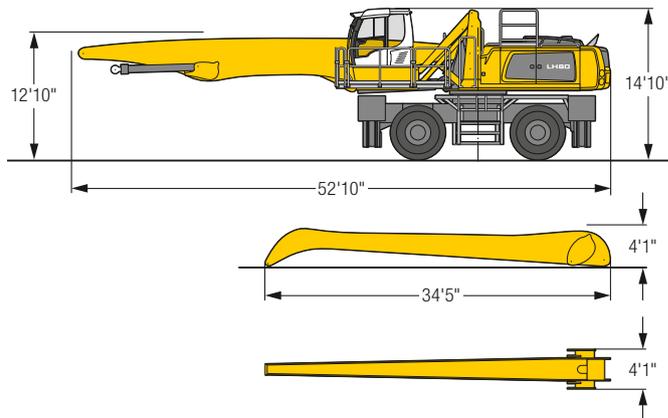


### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tires, straight boom 37'9", angled stick 32'10" and multi-tine grab GMM 80-5/1.83 yd<sup>3</sup> semi-closed tines.

Weight 170,200 lb

### Dimensions



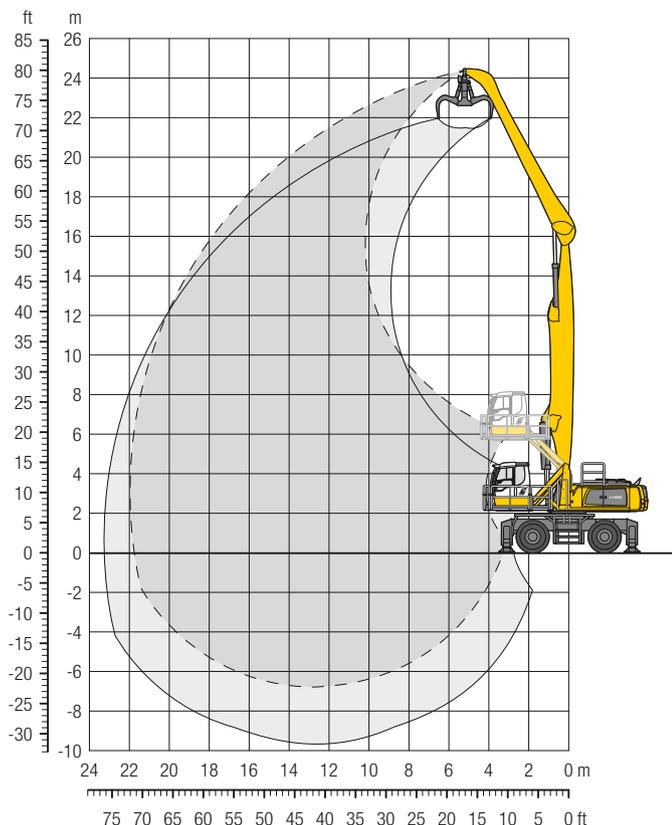
ft	Undercarriage	Reach (ft)												ft in							
		20 ft	25 ft	30 ft	35 ft	40 ft	45 ft	50 ft	55 ft	60 ft	65 ft	70 ft	ft	in							
75	4 pt. outriggers down	27,2"	27,2"													24,4"	24,4"	22'11"			
70	4 pt. outriggers down			23,0"	23,0"											19,0"	19,0"	34' 1"			
65	4 pt. outriggers down			25,5"	25,5"	22,7"	22,7"	18,7"	18,7"							16,6"	16,6"	41' 8"			
60	4 pt. outriggers down					24,7"	24,7"	22,2"	22,2"	18,3"	18,3"					15,1"	15,1"	47' 8"			
55	4 pt. outriggers down					25,8"	25,8"	24,1"	24,1"	21,5"	21,5"	17,3"	17,3"			14,2"	14,2"	52' 5"			
50	4 pt. outriggers down					26,6"	26,6"	24,0"	24,0"	21,9"	21,9"	20,2"	20,2"	15,5"	15,5"	13,5"	13,5"	56' 4"			
45	4 pt. outriggers down					26,6"	26,6"	24,0"	24,0"	21,8"	21,8"	20,1"	20,1"	18,6"	18,6"	13,0"	13,0"	59' 7"			
40	4 pt. outriggers down					26,8"	26,8"	24,1"	24,1"	21,9"	21,9"	20,1"	20,1"	18,5"	18,5"	16,3"	16,3"	62' 2"			
35	4 pt. outriggers down					27,2"	27,2"	24,3"	24,3"	22,1"	22,1"	20,2"	20,2"	18,6"	18,6"	17,1"	17,1"	64' 5"			
30	4 pt. outriggers down			29,8"	29,8"	27,7"	27,7"	24,7"	24,7"	22,3"	22,3"	20,3"	20,3"	18,6"	18,6"	17,2"	17,2"	14,6"	14,6"		
25	4 pt. outriggers down		29,5"	29,5"	32,7"	32,7"	28,5"	28,5"	25,2"	25,2"	22,7"	22,7"	20,6"	20,6"	18,8"	18,8"	17,2"	17,2"	15,0"	15,6"	
20	4 pt. outriggers down	30,2"	30,2"	36,4"	36,4"	33,9"	33,9"	29,3"	29,3"	25,8"	25,8"	23,0"	23,0"	20,8"	20,8"	18,9"	18,9"	17,2"	17,2"	14,8"	15,5"
15	4 pt. outriggers down	53,2"	53,2"	42,4"	42,4"	35,2"	35,2"	30,2"	30,2"	26,4"	26,4"	23,4"	23,4"	21,0"	21,0"	19,0"	19,0"	16,8"	17,2"	14,5"	15,4"
10	4 pt. outriggers down	56,4"	56,4"	44,3"	44,3"	36,4"	36,4"	31,0"	31,0"	26,9"	26,9"	23,7"	23,7"	21,2"	21,2"	19,0"	19,0"	16,4"	17,0"	14,2"	15,0"
5	4 pt. outriggers down	28,9"	28,9"	45,6"	45,6"	37,3"	37,3"	31,5"	31,5"	27,2"	27,2"	23,9"	23,9"	21,2"	21,2"	18,5"	18,9"	16,0"	16,7"	14,0"	14,5"
0	4 pt. outriggers down	18,4"	18,4"	46,0"	46,0"	37,6"	37,6"	31,7"	31,7"	27,3"	27,3"	23,8"	23,8"	20,8"	21,0"	18,0"	18,5"	15,6"	16,2"	13,6"	13,6"
-5	4 pt. outriggers down	16,6"	16,6"	33,3"	33,3"	37,0"	37,0"	31,3"	31,3"	26,8"	26,8"	23,3"	23,3"	20,2"	20,4"	17,5"	17,7"	15,1"	15,1"	12,1"	12,1"
-10	4 pt. outriggers down	17,1"	17,1"	29,6"	29,6"	35,3"	35,3"	29,9"	29,9"	25,7"	25,7"	22,2"	22,2"	19,2"	19,2"	16,4"	16,4"	13,5"	13,5"		
-15	4 pt. outriggers down	18,5"	18,5"	29,1"	29,1"	32,1"	32,1"	27,5"	27,5"	23,7"	23,7"	20,3"	20,3"	17,3"	17,3"	14,3"	14,3"				
-20	4 pt. outriggers down			27,3"	27,3"	23,7"	23,7"	20,4"	20,4"	17,4"	17,4"	14,3"	14,3"					14,0"	14,0"	50' 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 lb x 1,000 and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

# LH 80 M – Equipment GA22

## Industry – Kinematic 2A

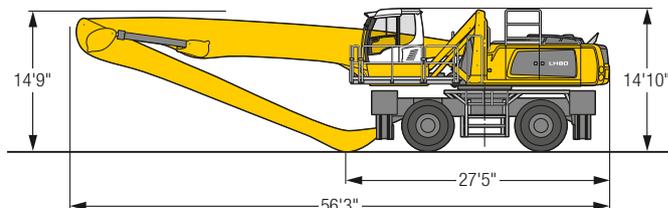


### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tires, straight boom 41', angled stick 32'10" and multi-tine grab GMM 80-5/1.83 yd<sup>3</sup> semi-closed tines.

Weight 172,000 lb

### Dimensions



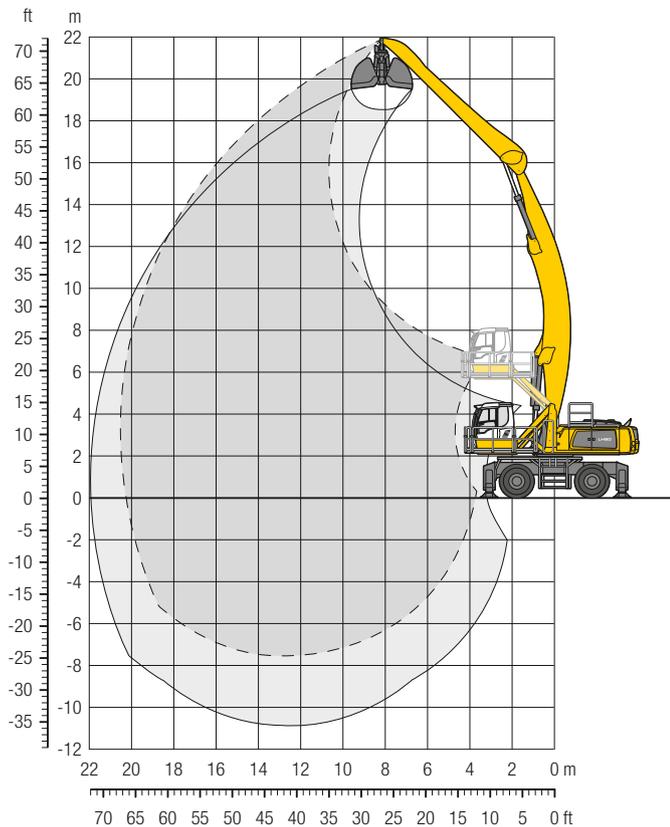
ft	Undercarriage	20 ft	25 ft	30 ft	35 ft	40 ft	45 ft	50 ft	55 ft	60 ft	65 ft	70 ft	ft in			
75	4 pt. outriggers down		25,6*	25,6*	21,7*	21,7*							20,4*	20,4*	31' 4"	
70	4 pt. outriggers down				25,0*	25,0*	22,0*	22,0*	17,6*	17,6*			17,4*	17,4*	40' 2"	
65	4 pt. outriggers down						24,3*	24,3*	21,7*	21,7*	17,8*	17,8*	15,7*	15,7*	46' 11"	
60	4 pt. outriggers down						25,6*	25,6*	23,8*	23,8*	21,2*	21,2*	14,5*	14,5*	52' 2"	
55	4 pt. outriggers down						26,4*	26,4*	23,6*	23,6*	21,2*	21,2*	13,8*	13,8*	56' 7"	
50	4 pt. outriggers down						26,5*	26,5*	23,5*	23,5*	21,1*	21,1*	13,3*	13,3*	60' 2"	
45	4 pt. outriggers down						26,5*	26,5*	23,5*	23,5*	21,1*	21,1*	12,9*	12,9*	63' 2"	
40	4 pt. outriggers down						26,7*	26,7*	23,7*	23,7*	21,2*	21,2*	12,6*	12,6*	65' 8"	
35	4 pt. outriggers down						27,1*	27,1*	23,9*	23,9*	21,4*	21,4*	12,5*	12,5*	67' 10"	
30	4 pt. outriggers down				29,1*	29,1*	27,5*	27,5*	24,2*	24,2*	21,6*	21,6*	12,5*	12,5*	69' 5"	
25	4 pt. outriggers down	27,3*	27,3*	32,9*	32,9*	32,7*	28,1*	28,1*	24,6*	24,6*	21,8*	21,8*	12,3	13,1*	70' 7"	
20	4 pt. outriggers down	40,7*	40,7*	40,5*	40,5*	33,6*	33,6*	28,7*	28,7*	25,0*	25,0*	22,1*	22,1*	11,6	12,3*	71' 6"
15	4 pt. outriggers down	53,3*	53,3*	41,9*	41,9*	34,5*	34,5*	29,2*	29,2*	25,3*	25,3*	22,3*	22,3*	11,3	11,7*	72'
10	4 pt. outriggers down	26,4*	26,4*	43,0*	43,0*	35,2*	35,2*	29,7*	29,7*	25,6*	25,6*	22,5*	22,5*	11,1*	11,1*	72' 1"
5	4 pt. outriggers down	12,8*	12,8*	38,5*	38,5*	35,5*	35,5*	29,9*	29,9*	25,7*	25,7*	22,4*	22,4*	10,3*	10,3*	71' 11"
0	4 pt. outriggers down	10,8*	10,8*	24,5*	24,5*	35,2*	35,2*	29,6*	29,6*	25,5*	25,5*	22,2*	22,2*	9,4*	9,4*	71' 4"
-5	4 pt. outriggers down	11,2*	11,2*	21,1*	21,1*	34,0*	34,0*	28,8*	28,8*	24,8*	24,8*	21,5*	21,5*	8,7*	8,7*	70' 5"
-10	4 pt. outriggers down	12,6*	12,6*	20,6*	20,6*	31,7*	31,7*	27,2*	27,2*	23,5*	23,5*	20,4*	20,4*	8,6*	8,6*	67' 5"
-15	4 pt. outriggers down			21,5*	21,5*	28,2*	28,2*	24,6*	24,6*	21,4*	21,4*	18,5*	18,5*	9,5*	9,5*	62' 5"
-20	4 pt. outriggers down			23,2*	23,2*	20,8*	20,8*	18,2*	18,2*	15,8*	15,8*	13,3*	13,3*	11,5*	11,5*	53' 8"

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

The lift capacities on the stick end without attachment are stated in lb x 1,000 and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

# LH 80 M – Equipment AG21

## Industry – Kinematic 2D

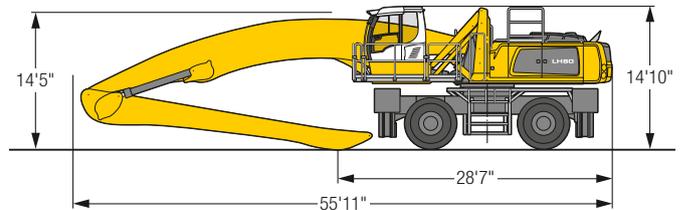


### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tires, angled boom 41', straight stick 29'6" and grab for loose material GMZ 80/ 3.92 yd<sup>3</sup>.

Weight 172,200 lb

### Dimensions



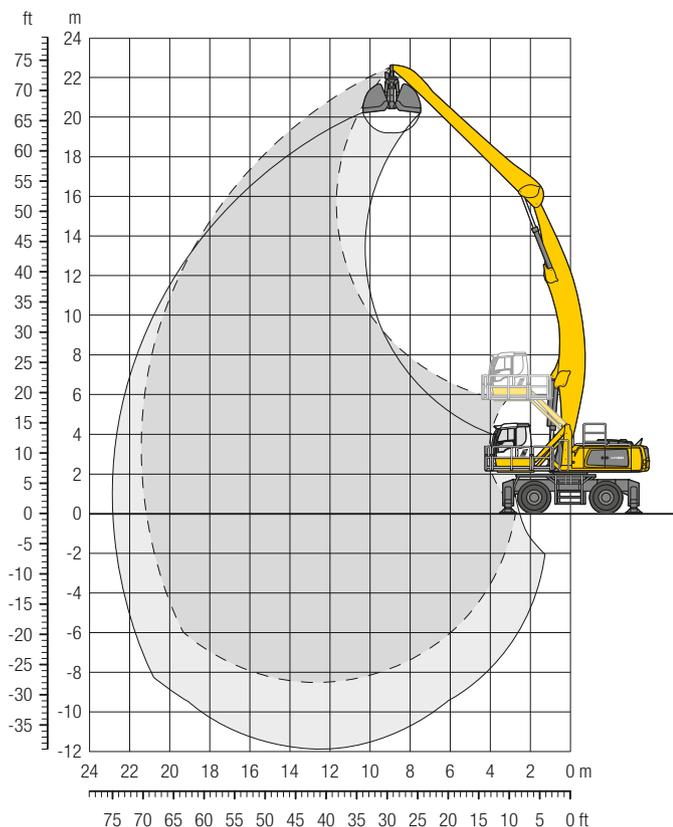
ft	Undercarriage	20 ft		25 ft		30 ft		35 ft		40 ft		45 ft		50 ft		55 ft		60 ft		65 ft		70 ft		ft in					
		4 pt. outriggers down																											
70	4 pt. outriggers down					22,0*	22,0*																		20,1*	20,1*	32'		
65	4 pt. outriggers down							22,6*	22,6*	17,8*	17,8*															17,7*	17,7*	40' 1"	
60	4 pt. outriggers down									23,1*	23,1*	20,8*	20,8*	17,9*	17,9*											16,4*	16,4*	46' 2"	
55	4 pt. outriggers down									22,8*	22,8*	20,5*	20,5*	18,8*	18,8*	17,1*	17,1*									15,6*	15,6*	51' 1"	
50	4 pt. outriggers down											20,5*	20,5*	18,6*	18,6*	17,2*	17,2*	15,2*	15,2*							15,0*	15,0*	55' 1"	
45	4 pt. outriggers down							22,9*	22,9*			20,5*	20,5*	18,7*	18,7*	17,2*	17,2*	16,0*	16,0*							14,7*	14,7*	58' 5"	
40	4 pt. outriggers down									23,2*	23,2*	20,8*	20,8*	18,8*	18,8*	17,3*	17,3*	16,0*	16,0*	15,0*	15,0*					14,5*	14,5*	61' 1"	
35	4 pt. outriggers down							23,7*	23,7*	21,1*	21,1*	19,1*	19,1*	19,1*	19,1*	17,4*	17,4*	16,1*	16,1*	15,0*	15,0*					14,4*	14,4*	63' 4"	
30	4 pt. outriggers down					28,0*	28,0*	24,3*	24,3*	21,6*	21,6*	19,4*	19,4*	17,7*	17,7*	16,3*	16,3*	15,1*	15,1*			14,1*	14,1*			14,1*	14,1*	65'	
25	4 pt. outriggers down	42,9*	42,9*	34,6*	34,6*	29,1*	29,1*	25,1*	25,1*	22,1*	22,1*	19,8*	19,8*	18,0*	18,0*	16,5*	16,5*	15,2*	15,2*	14,2*	14,2*					13,9*	13,9*	66' 5"	
20	4 pt. outriggers down	46,1*	46,1*	36,5*	36,5*	30,3*	30,3*	26,0*	26,0*	22,8*	22,8*	20,3*	20,3*	18,3*	18,3*	16,7*	16,7*	15,4*	15,4*	14,2*	14,2*					13,3*	13,7*	67' 4"	
15	4 pt. outriggers down	49,4*	49,4*	38,5*	38,5*	31,6*	31,6*	26,9*	26,9*	23,4*	23,4*	20,8*	20,8*	18,7*	18,7*	17,0*	17,0*	15,5*	15,5*	14,0*	14,3*					12,9*	13,6*	67' 10"	
10	4 pt. outriggers down	16,8*	16,8*	40,4*	40,4*	32,9*	32,9*	27,8*	27,8*	24,1*	24,1*	21,2*	21,2*	19,0*	19,0*	17,2*	17,2*	15,7*	15,7*	13,7*	14,3*					12,6*	13,4*	67' 11"	
5	4 pt. outriggers down	11,7*	11,7*	29,1*	29,1*	33,9*	33,9*	28,5*	28,5*	24,6*	24,6*	21,6*	21,6*	19,3*	19,3*	17,4*	17,4*	15,4*	15,7*	13,4*	14,2*					12,5*	13,3*	67' 8"	
0	4 pt. outriggers down	11,3*	11,3*	22,7*	22,7*	34,5*	34,5*	29,0*	29,0*	25,0*	25,0*	21,9*	21,9*	19,4*	19,4*	17,3*	17,4*	15,0*	15,6*	13,2*	13,9*					12,5*	13,1*	67' 1"	
-5	4 pt. outriggers down	12,5*	12,5*	21,2*	21,2*	34,5*	34,5*	29,1*	29,1*	25,1*	25,1*	21,9*	21,9*	19,4*	19,4*	16,8*	17,2*	14,7*	15,3*	13,0*	13,3*					12,7*	12,8*	66' 1"	
-10	4 pt. outriggers down	14,2*	14,2*	21,6*	21,6*	33,7*	33,7*	28,7*	28,7*	24,7*	24,7*	21,6*	21,6*	18,9*	19,0*	16,5*	16,8*	14,5*	14,7*							12,4*	12,4*	64' 8"	
-15	4 pt. outriggers down	16,2*	16,2*	22,8*	22,8*	32,0*	32,0*	27,5*	27,5*	23,8*	23,8*	20,8*	20,8*	18,2*	18,2*	15,9*	15,9*	13,4*	13,4*							11,7*	11,7*	62' 11"	
-20	4 pt. outriggers down					29,3*	29,3*	25,5*	25,5*	22,2*	22,2*	19,4*	19,4*	16,8*	16,8*	14,2*	14,2*									12,8*	12,8*	57' 6"	
-25	4 pt. outriggers down																												

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

The lift capacities on the stick end without attachment are stated in lb x 1,000 and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

# LH 80 M – Equipment AG22

## Industry – Kinematic 2D

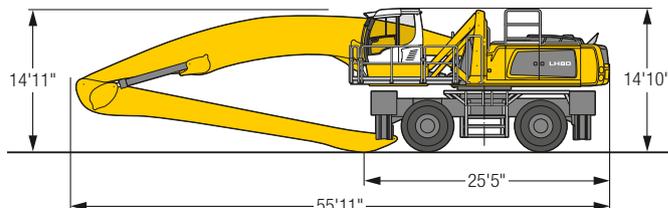


### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 4 solid tires, angled boom 41', straight stick 32'10" and grab for loose material GMZ 80/ 3.92 yd<sup>3</sup>.

Weight	173,100 lb
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### Dimensions



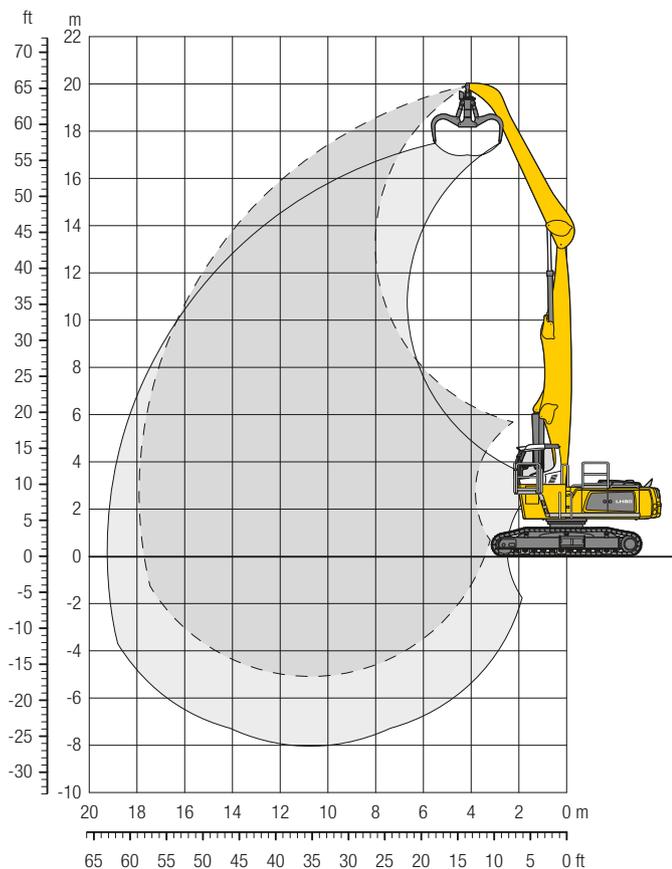
ft	Undercarriage	Reach (ft)												ft in						
		20 ft	25 ft	30 ft	35 ft	40 ft	45 ft	50 ft	55 ft	60 ft	65 ft	70 ft	ft	in						
70	4 pt. outriggers down					17,9*	17,9*										16,4*	16,4*	36'10"	
65	4 pt. outriggers down							18,3*	18,3*									14,8*	14,8*	44'
60	4 pt. outriggers down							19,8*	19,8*	18,0*	18,0*							13,9*	13,9*	49' 8"
55	4 pt. outriggers down							19,6*	19,6*	17,8*	17,8*	16,4*	16,4*					13,3*	13,3*	54' 2"
50	4 pt. outriggers down							19,5*	19,5*	17,7*	17,7*	16,3*	16,3*	15,2*	15,2*			12,8*	12,8*	58'
45	4 pt. outriggers down							19,6*	19,6*	17,8*	17,8*	16,3*	16,3*	15,1*	15,1*	14,1*	14,1*			61' 2"
40	4 pt. outriggers down							19,8*	19,8*	17,9*	17,9*	16,4*	16,4*	15,1*	15,1*	14,1*	14,1*			63'10"
35	4 pt. outriggers down					22,5*	22,5*	20,1*	20,1*	18,1*	18,1*	16,5*	16,5*	15,2*	15,2*	14,2*	14,2*	13,3*	13,3*	65'11"
30	4 pt. outriggers down					23,1*	23,1*	20,5*	20,5*	18,4*	18,4*	16,8*	16,8*	15,4*	15,4*	14,3*	14,3*	13,3*	13,3*	67' 6"
25	4 pt. outriggers down							21,0*	21,0*	18,8*	18,8*	17,0*	17,0*	15,6*	15,6*	14,4*	14,4*	13,4*	13,4*	68'10"
20	4 pt. outriggers down	43,1*	43,1*	34,4*	34,4*	28,7*	28,7*	24,6*	24,6*	21,6*	21,6*	19,2*	19,2*	17,4*	17,4*	15,8*	15,8*	14,6*	14,6*	69' 8"
15	4 pt. outriggers down	46,2*	46,2*	36,4*	36,4*	30,0*	30,0*	25,5*	25,5*	22,2*	22,2*	19,7*	19,7*	17,7*	17,7*	16,1*	16,1*	14,7*	14,7*	70' 2"
10	4 pt. outriggers down	37,7*	37,7*	38,2*	38,2*	31,2*	31,2*	26,4*	26,4*	22,9*	22,9*	20,2*	20,2*	18,1*	18,1*	16,3*	16,3*	14,9*	14,9*	70' 4"
5	4 pt. outriggers down	18,4*	18,4*	39,8*	39,8*	32,3*	32,3*	27,2*	27,2*	23,5*	23,5*	20,6*	20,6*	18,4*	18,4*	16,6*	16,6*	15,0*	15,0*	70' 1"
0	4 pt. outriggers down	14,7*	14,7*	29,5*	29,5*	33,1*	33,1*	27,8*	27,8*	23,9*	23,9*	21,0*	21,0*	18,6*	18,6*	16,7*	16,7*	14,8*	15,1*	69' 6"
-5	4 pt. outriggers down	14,3*	14,3*	24,6*	24,6*	33,5*	33,5*	28,2*	28,2*	24,2*	24,2*	21,1*	21,1*	18,7*	18,7*	16,5*	16,7*	14,4*	14,9*	68' 6"
-10	4 pt. outriggers down	15,0*	15,0*	23,2*	23,2*	33,2*	33,2*	28,1*	28,1*	24,1*	24,1*	21,0*	21,0*	18,5*	18,5*	16,1*	16,4*	14,1*	14,6*	67' 2"
-15	4 pt. outriggers down	16,2*	16,2*	23,2*	23,2*	32,2*	32,2*	27,4*	27,4*	23,6*	23,6*	20,6*	20,6*	18,1*	18,1*	15,8*	15,9*	13,8*	13,8*	65' 5"
-20	4 pt. outriggers down	17,7*	17,7*	24,1*	24,1*	30,2*	30,2*	26,0*	26,0*	22,5*	22,5*	19,6*	19,6*	17,1*	17,1*	14,8*	14,8*	12,4*	12,4*	62'11"
-25	4 pt. outriggers down			27,1*	27,1*	23,6*	23,6*	20,5*	20,5*	17,8*	17,8*	15,3*	15,3*	12,9*	12,9*					55' 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 lb x 1,000 and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

# LH 80 C EW – Equipment GA18

## Industry – Kinematic 2A

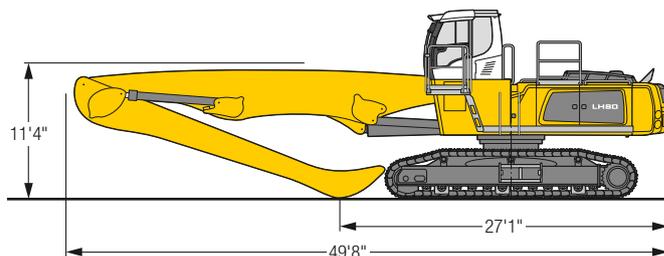


### Operating Weight and Ground Pressure

The operating weight includes the basic machine with rigid cab elevation, straight boom 34'5", angled stick 25'7" and multi-tine grab GMM 80-5/2.22 yd<sup>3</sup> semi-closed tines.

Weight	149,900 lb
Pad width	24"
Ground pressure	on request

### Dimensions



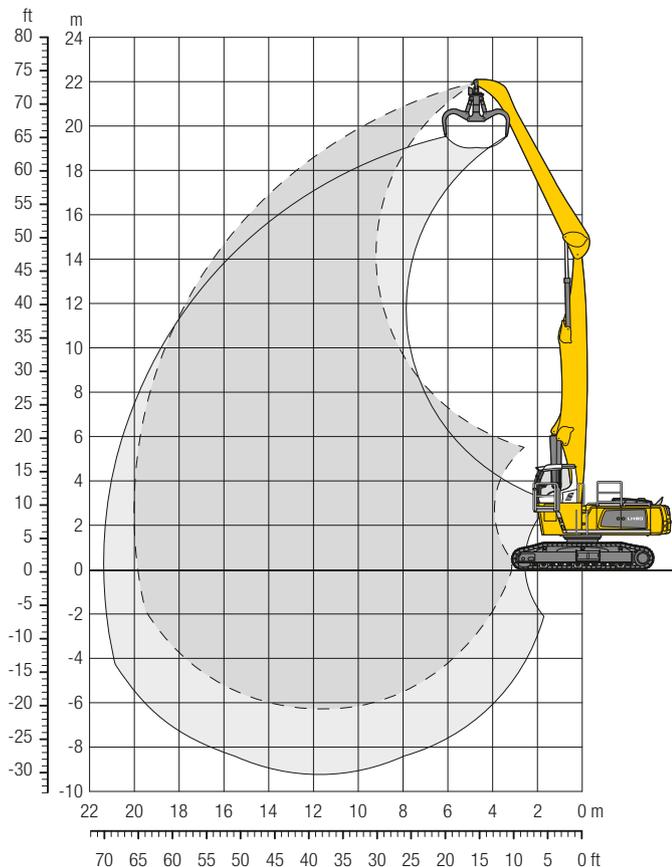
ft	Undercarriage	20 ft		25 ft		30 ft		35 ft		40 ft		45 ft		50 ft		55 ft		60 ft		65 ft		70 ft		ft in							
		Height	Can be slewed through 360°																												
70	EW																														
65	EW																														
60	EW			29,8*	29,8*																				35,5*	35,5*	15' 2"				
55	EW			33,5*	33,5*	29,7*	29,7*	23,6*	23,6*																	25,5*	25,5*	28' 1"			
50	EW					30,4*	30,4*	27,2*	27,2*	23,1*	23,1*																22,0*	22,0*	35' 11"		
45	EW					30,0*	30,0*	26,8*	26,8*	24,4*	24,4*	20,0	21,3*															20,0*	20,0*	41' 7"	
40	EW					30,0*	30,0*	26,7*	26,7*	24,2*	24,2*	20,3	22,2*															18,9*	18,9*	46' 1"	
35	EW							26,9*	26,9*	24,3*	24,3*	20,2	22,2*	16,3	20,5*													16,4	18,1*	49' 8"	
30	EW			34,9*	34,9*	30,3*	30,3*	27,3*	27,3*	24,6*	24,6*	19,9	22,3*	16,2	20,5*													14,6	17,6*	52' 6"	
25	EW	40,0*	40,0*	37,3*	37,3*	31,0*	31,0*	27,3*	27,3*	24,6*	24,6*	19,9	22,3*	16,2	20,5*													13,3	17,3	54' 10"	
20	EW	48,2*	48,2*	39,2*	39,2*	31,9*	31,9*	28,0*	28,0*	24,0	25,0*	19,4	22,6*	16,0	20,5	13,2	17,1											12,4	16,2	56' 6"	
15	EW	51,8*	51,8*	41,3*	41,3*	34,4*	34,4*	27,4	29,6*	22,0	26,0*	18,1	23,2*	15,1	19,6	12,7	16,6											11,7	15,5	57' 8"	
10	EW	55,1*	55,1*	42,9	43,2*	32,6	35,6*	25,8	30,4*	21,0	26,4*	17,4	22,6	14,6	19,1	12,4	16,3											11,3	14,9	58' 5"	
5	EW	28,8*	28,8*	39,7	44,5*	30,5	36,4*	24,4	30,8*	20,0	26,2	16,7	21,9	14,2	18,6	12,1	16,1											11,0	14,6	58' 8"	
0	EW	21,5*	21,5*	37,3	44,4*	28,9	36,5*	23,2	30,8*	19,2	25,4	16,1	21,3	13,8	18,3	11,9	15,8											10,9	14,5	58' 7"	
-5	EW	21,1*	21,1*	35,9	42,5*	27,7	35,3*	22,4	29,9*	18,6	24,7	15,7	20,9	13,5	18,0	11,8	14,7*											11,0	13,9*	58' 1"	
-10	EW	22,8*	22,8*	35,2	38,5*	27,1	32,6*	21,9	27,8*	18,2	23,6*	15,5	19,9*	13,4	16,2*													11,3	12,8*	56' 8"	
-15	EW					26,9	28,0*	21,7	24,1*	18,0	20,3*																	12,5	14,0*	52' 6"	
-20	EW																												15,6	17,0*	44' 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 lb x 1,000 and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 24" wide triple grouser pads (resp. flat pads). Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

# LH 80 C EW – Equipment GA20

## Industry – Kinematic 2A

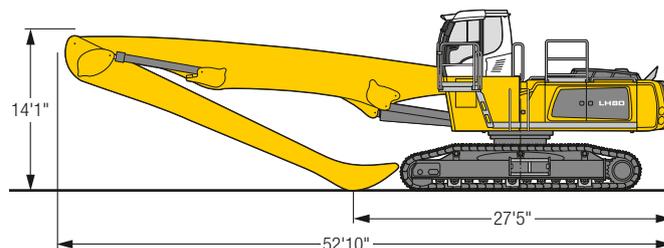


### Operating Weight and Ground Pressure

The operating weight includes the basic machine with rigid cab elevation, straight boom 37'9", angled stick 29'6" and multi-tine grab GMM 80-5/2.22 yd<sup>3</sup> semi-closed tines.

Weight	152,100 lb
Pad width	24"
Ground pressure	on request

### Dimensions



ft	Undercarriage	20 ft		25 ft		30 ft		35 ft		40 ft		45 ft		50 ft		55 ft		60 ft		65 ft		70 ft		ft in		
		Height	Can be slewed through 360°																							
70	EW	29,3"	29,3"																					26,3"	26,3"	22' 8"
65	EW			28,7"	28,7"	24,8"	24,8"																	20,9"	20,9"	33' 5"
60	EW					27,9"	27,9"	24,7"	24,7"	19,6"	19,6"													18,4"	18,4"	40' 10"
55	EW					28,7"	28,7"	25,2"	25,2"	22,6"	22,6"	19,2"	19,2"											16,9"	16,9"	46' 6"
50	EW							24,9"	24,9"	22,3"	22,3"	20,2"	20,2"	16,4	17,7"									15,6	15,9"	51' 1"
45	EW							24,8"	24,8"	22,2"	22,2"	20,1"	20,1"	16,8	18,4"									13,4	15,2"	54' 10"
40	EW							28,3"	28,3"	24,9"	24,9"	22,2"	22,2"	20,1"	20,1"	16,9	18,3"	13,6	16,9"					11,9	14,8"	57' 10"
35	EW							28,7"	28,7"	25,1"	25,1"	22,4"	22,4"	20,2"	20,2"	16,7	18,4"	13,5	16,9"	10,9	14,4			10,7	14,3	60' 4"
30	EW							29,3"	29,3"	25,5"	25,5"	22,6"	22,6"	20,1	20,3"	16,3	18,5"	13,3	16,9"	10,8	14,4			9,8	13,2	62' 2"
25	EW							30,1"	30,1"	26,1"	26,1"	23,0"	23,0"	19,4	20,6"	15,8	18,6"	13,0	16,9"	10,7	14,2			9,2	12,5	63' 8"
20	EW	40,2"	40,2"	37,1"	37,1"	31,0"	31,0"	26,7"	26,7"	22,8	23,4"	18,5	20,8"	15,2	18,8"	12,6	16,6	10,4	14,0					8,7	11,9	64' 10"
15	EW	48,8"	48,8"	38,7"	38,7"	32,0"	32,0"	26,9	27,4"	21,5	23,9"	17,5	21,1"	14,5	18,9"	12,1	16,1	10,1	13,7	8,5	11,7			8,3	11,5	65' 6"
10	EW	51,4"	51,4"	40,2"	40,2"	31,6	33,0"	24,9	28,0"	20,5	24,2"	16,6	21,3"	13,8	18,3	11,6	15,6	9,8	13,3	8,3	11,5			8,1	11,2	65' 8"
5	EW	21,5"	21,5"	37,6	41,1"	29,0	33,6"	23,1	28,4"	18,9	24,5"	15,6	20,9	13,1	17,7	11,1	15,1	9,5	13,0	8,1	11,3			8,0	11,1	65' 7"
0	EW	15,6"	15,6"	34,6	39,2"	26,8	33,7"	21,6	28,4"	17,7	23,9	14,8	20,0	12,5	17,0	10,7	14,6	9,2	12,7	8,0	10,9"			8,0	10,8"	65' 7"
-5	EW	15,2"	15,2"	30,3"	30,3"	25,2	32,9"	20,4	27,8"	16,8	23,0	14,2	19,4	12,1	16,5	10,4	14,3	9,0	12,5					8,1	9,6"	64' 4"
-10	EW	16,4"	16,4"	28,3"	28,3"	24,3	31,0"	19,6	26,4"	16,2	22,3	13,7	18,9	11,7	16,2	10,2	14,0"	8,9	10,9"					8,7	9,9"	61' 2"
-15	EW			28,7"	28,7"	23,8	27,6"	19,1	23,8"	15,8	20,5"	13,4	17,5"	11,5	14,7"	10,1	11,7"							9,9	11,1"	55' 11"
-20	EW							19,0	19,9"	15,7	17,2"													13,4	14,5"	44' 10"

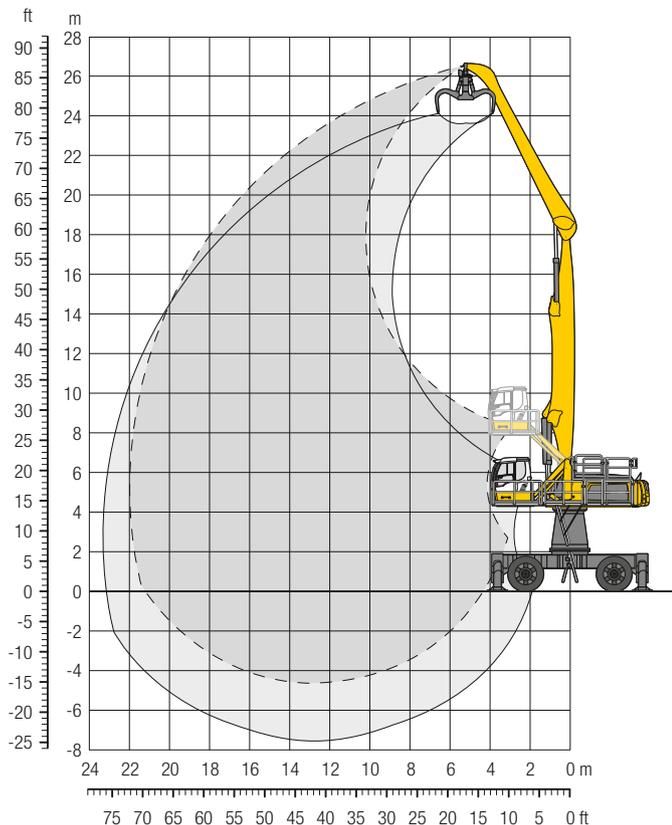
**Height** **Can be slewed through 360°** **In longitudinal position of undercarriage** **Max. reach** \* Limited by hydr. capacity

The lift capacities on the stick end without attachment are stated in lb x 1,000 and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 24" wide triple grouser pads (resp. flat pads). Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.



# LH 80 M HR – Equipment GA22

## Industry – Kinematic 2A

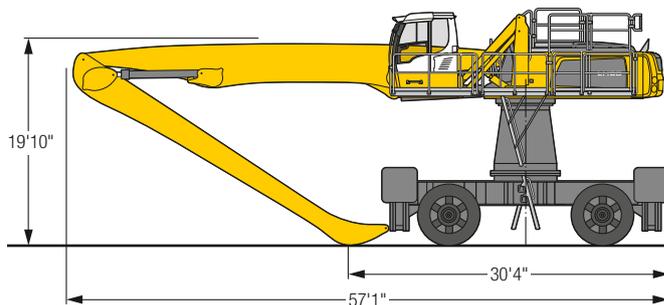


### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, turret 6'7", hydr. cab elevation, 4 solid tires, straight boom 41', angled stick 32'10" and multi-tine grab GMM 80-5/ 2.22 yd<sup>3</sup> semi-closed tines.

Weight 201,500 lb

### Dimensions



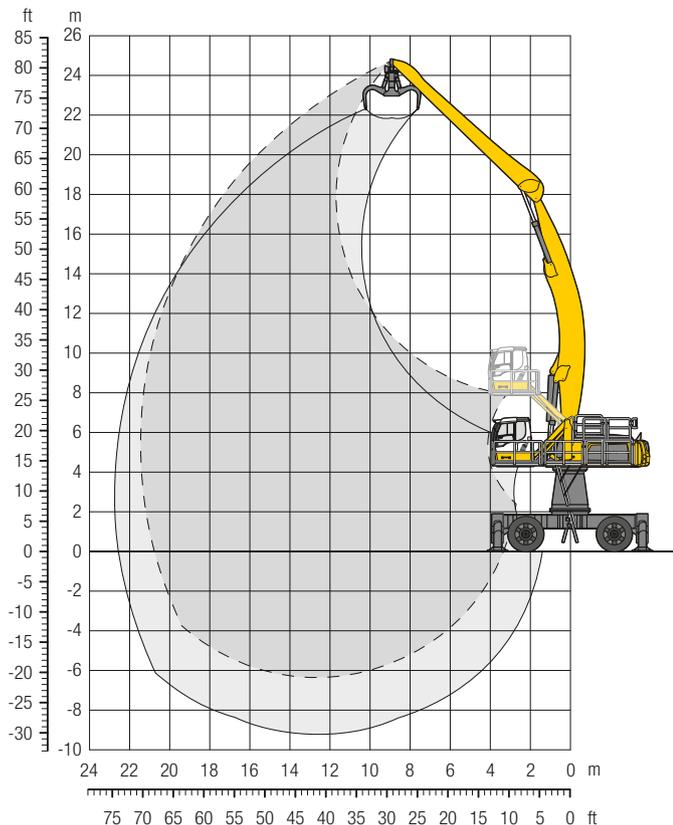
ft	Undercarriage	Reach (ft)												ft in														
		20 ft	25 ft	30 ft	35 ft	40 ft	45 ft	50 ft	55 ft	60 ft	65 ft	70 ft	ft	in														
85	4 pt. outriggers down	27,3"	27,3"													24,1"	24,1"	23' 6"										
80	4 pt. outriggers down			23,3"	23,3"											19,0"	19,0"	34' 11"										
75	4 pt. outriggers down			25,5"	25,5"	23,0"	23,0"	19,5"	19,5"							16,6"	16,6"	42' 10"										
70	4 pt. outriggers down					24,8"	24,8"	22,5"	22,5"	19,3"	19,3"					15,1"	15,1"	48' 11"										
65	4 pt. outriggers down					25,8"	25,8"	23,6"	23,6"	21,2"	21,2"	18,6"	18,6"			14,2"	14,2"	53' 11"										
60	4 pt. outriggers down					26,4"	26,4"	23,4"	23,4"	21,1"	21,1"	19,1"	19,1"	17,3"	17,3"	13,5"	13,5"	58"										
55	4 pt. outriggers down					26,4"	26,4"	23,4"	23,4"	21,0"	21,0"	19,1"	19,1"	17,4"	17,4"	13,0"	13,0"	61' 5"										
50	4 pt. outriggers down					26,5"	26,5"	23,5"	23,5"	21,0"	21,0"	19,1"	19,1"	17,4"	17,4"	12,7"	12,7"	64' 2"										
45	4 pt. outriggers down					26,7"	26,7"	23,6"	23,6"	21,1"	21,1"	19,1"	19,1"	17,4"	17,4"	12,5"	12,5"	66' 6"										
40	4 pt. outriggers down			29,6"	29,6"	27,1"	27,1"	23,9"	23,9"	21,3"	21,3"	19,2"	19,2"	17,5"	17,5"	12,4"	12,4"	68' 5"										
35	4 pt. outriggers down		29,5"	29,5"	32,0"	32,0"	27,6"	27,6"	24,2"	24,2"	21,5"	21,5"	19,3"	19,3"	17,5"	17,5"	16,0"	16,0"	69' 11"									
30	4 pt. outriggers down	30,0"	30,0"	35,9"	35,9"	32,9"	32,9"	28,1"	28,1"	24,6"	24,6"	21,8"	21,8"	19,5"	19,5"	17,6"	17,6"	16,0"	16,0"	14,4"	14,4"	12,8"	12,8"	12,4"	12,4"	71"		
25	4 pt. outriggers down	51,6"	51,6"	40,8"	40,8"	33,7"	33,7"	28,7"	28,7"	24,9"	24,9"	22,0"	22,0"	19,6"	19,6"	17,6"	17,6"	15,9"	15,9"	14,3"	14,3"	12,6"	12,6"	11,9"	11,9"	9,8"	9,8"	71' 8"
20	4 pt. outriggers down	53,8"	53,8"	42,1"	42,1"	34,5"	34,5"	29,2"	29,2"	25,3"	25,3"	22,2"	22,2"	19,7"	19,7"	17,6"	17,6"	15,8"	15,8"	14,1"	14,1"	12,3"	12,3"	11,3"	11,3"	9,8"	9,8"	72' 1"
15	4 pt. outriggers down	18,2"	18,2"	43,0"	43,0"	35,1"	35,1"	29,6"	29,6"	25,5"	25,5"	22,3"	22,3"	19,7"	19,7"	17,5"	17,5"	15,6"	15,6"	13,8"	13,8"	11,8"	11,8"	10,6"	10,6"	9,8"	9,8"	72' 1"
10	4 pt. outriggers down	11,5"	11,5"	30,9"	30,9"	35,2"	35,2"	29,6"	29,6"	25,4"	25,4"	22,2"	22,2"	19,5"	19,5"	17,3"	17,3"	15,3"	15,3"	13,3"	13,3"	11,0"	11,0"	9,8"	9,8"	8,9"	8,9"	71' 8"
5	4 pt. outriggers down	10,7"	10,7"	22,6"	22,6"	34,5"	34,5"	29,1"	29,1"	25,0"	25,0"	21,8"	21,8"	19,1"	19,1"	16,8"	16,8"	14,6"	14,6"	12,5"	12,5"	9,7"	9,7"	8,9"	8,9"	8,9"	8,9"	71"
0	4 pt. outriggers down	11,6"	11,6"	20,6"	20,6"	33,0"	33,0"	28,0"	28,0"	24,1"	24,1"	21,0"	21,0"	18,3"	18,3"	15,9"	15,9"	13,6"	13,6"	11,2"	11,2"	8,0"	8,0"	8,0"	8,0"	8,0"	8,0"	69' 7"
-5	4 pt. outriggers down	13,2"	13,2"	20,8"	20,8"	30,2"	30,2"	26,1"	26,1"	22,5"	22,5"	19,6"	19,6"	16,9"	16,9"	14,5"	14,5"	12,1"	12,1"	9,2"	9,2"	8,7"	8,7"	8,7"	8,7"	8,7"	8,7"	65' 10"
-10	4 pt. outriggers down			21,9"	21,9"	26,2"	26,2"	23,0"	23,0"	20,1"	20,1"	17,4"	17,4"	14,9"	14,9"	12,4"	12,4"					9,8"	9,8"	9,8"	9,8"	9,8"	9,8"	59' 10"
-15	4 pt. outriggers down							16,5"	16,5"	14,3"	14,3"											13,3"	13,3"	13,3"	13,3"	13,3"	13,3"	47"

**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 lb x 1,000 and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

# LH 80 M HR – Equipment AG22

## Industry – Kinematic 2D

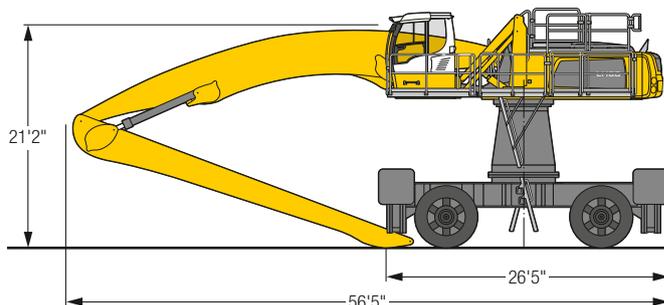


### Operating Weight

The operating weight includes the basic machine with 4 point outriggers, turret 6'7", hydr. cab elevation, 4 solid tires, angled boom 41', straight stick 32'10" and multi-tine grab GMM 80-5/ 1.83 yd<sup>3</sup> semi-closed tines.

Weight	202,400 lb
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### Dimensions



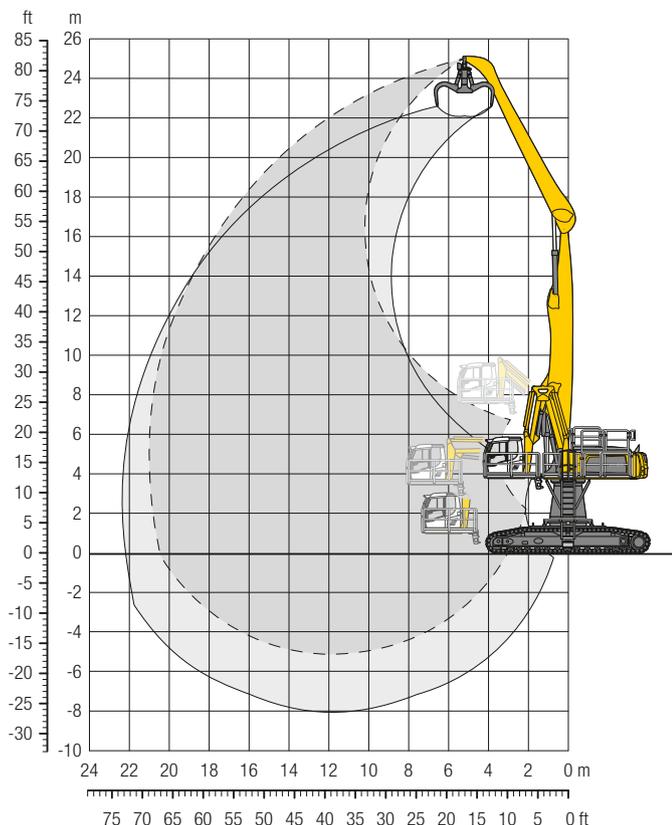
ft	Undercarriage	Reach (ft)												ft in				
		20 ft	25 ft	30 ft	35 ft	40 ft	45 ft	50 ft	55 ft	60 ft	65 ft	70 ft	ft	in				
80	4 pt. outriggers down															18,0"	18,0"	31"
75	4 pt. outriggers down				19,4"	19,4"										15,7"	15,7"	39" 8"
70	4 pt. outriggers down					19,4"	19,4"	15,6"	15,6"							14,4"	14,4"	46" 2"
65	4 pt. outriggers down						19,7"	19,7"	17,9"	17,9"						13,6"	13,6"	51" 5"
60	4 pt. outriggers down							19,5"	19,5"	17,8"	17,8"	16,4"	16,4"	13,9"	13,9"			55" 8"
55	4 pt. outriggers down							19,5"	19,5"	17,7"	17,7"	16,3"	16,3"	15,1"	15,1"			59" 2"
50	4 pt. outriggers down							19,6"	19,6"	17,8"	17,8"	16,3"	16,3"	15,1"	15,1"	14,1"	14,1"	62" 2"
45	4 pt. outriggers down							19,9"	19,9"	18,0"	18,0"	16,4"	16,4"	15,2"	15,2"	14,1"	14,1"	64" 7"
40	4 pt. outriggers down									22,7"	22,7"	18,2"	18,2"	16,6"	16,6"	15,3"	15,3"	66" 6"
35	4 pt. outriggers down											20,2"	20,2"	18,2"	18,2"	16,6"	16,6"	66" 6"
30	4 pt. outriggers down													20,7"	20,7"	18,6"	18,6"	68"
25	4 pt. outriggers down															19,9"	19,9"	70" 4"
20	4 pt. outriggers down																	70" 4"
15	4 pt. outriggers down																	70" 4"
10	4 pt. outriggers down																	70" 4"
5	4 pt. outriggers down																	70" 4"
0	4 pt. outriggers down																	70" 4"
-5	4 pt. outriggers down																	70" 4"
-10	4 pt. outriggers down																	70" 4"
-15	4 pt. outriggers down																	70" 4"
-20	4 pt. outriggers down																	70" 4"

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

The lift capacities on the stick end without attachment are stated in lb x 1,000 and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

# LH 80 C HR – Equipment GA21

## Industry – Kinematic 2A

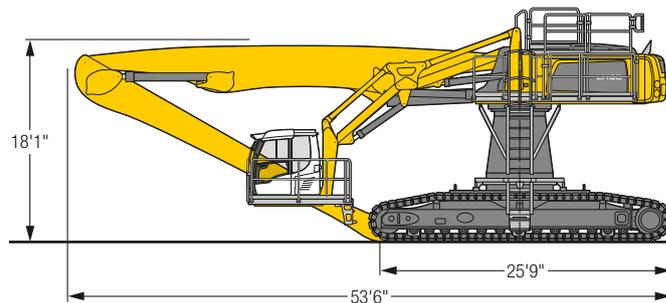


### Operating Weight and Ground Pressure

The operating weight includes the basic machine with turret 6'7", hydr. cab elevation, straight boom 37'9", angled stick 32'10" and multi-tine grab GMM 80-5/2.22 yd<sup>3</sup> semi-closed tines.

Weight	208,100 lb
Pad width	30"
Ground pressure	on request

### Dimensions



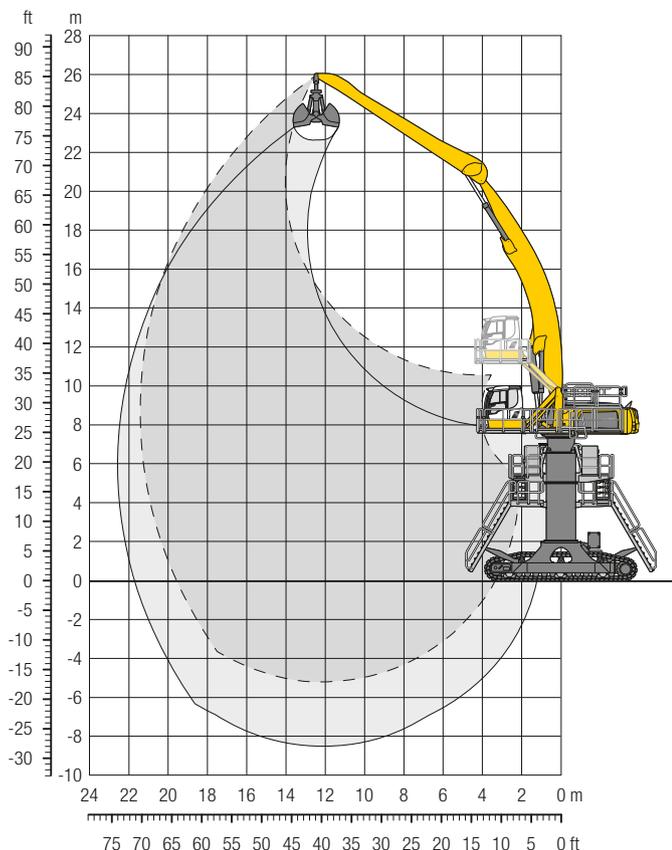
ft	Undercarriage	20 ft		25 ft		30 ft		35 ft		40 ft		45 ft		50 ft		55 ft		60 ft		65 ft		70 ft		ft in			
		SW	SW	SW	SW																						
80	SW																							23,6"	23,6"	24"	
75	SW																							18,7"	18,7"	34'10"	
70	SW					23,2"	23,2"																	16,4"	16,4"	42' 4"	
65	SW					25,5"	25,5"	22,9"	22,9"	19,0"	19,0"			18,6"	18,6"										15,0"	15,0"	48' 1"
60	SW							25,8"	25,8"	24,1"	24,1"	21,6"	21,6"	17,6"	17,6"										14,0"	14,0"	52'10"
55	SW							26,5"	26,5"	23,9"	23,9"	21,7"	21,7"	20,0"	20"	15,8"	15,8"								13,4"	13,4"	56' 7"
50	SW							26,5"	26,5"	23,9"	23,9"	21,7"	21,7"	19,9"	19,9"	18,4"	18,4"								12,9"	12,9"	59'10"
45	SW							26,7"	26,7"	24,0"	24,0"	21,8"	21,8"	19,9"	19,9"	18,4"	18,4"	16,5"	16,5"						12,6"	12,6"	62' 5"
40	SW							27,1"	27,1"	24,2"	24,2"	21,9"	21,9"	20,0"	20,0"	18,4"	18,4"	17,0"	17,0"						12,5"	12,5"	64' 6"
35	SW					29,8"	29,8"	27,7"	27,7"	24,6"	24,6"	22,2"	22,2"	20,2"	20,2"	18,5"	18,5"	17,0"	17,0"	14,7"	14,7"				12,4"	12,4"	66' 2"
30	SW			29,8"	29,8"	32,6"	32,6"	28,4"	28,4"	25,1"	25,1"	22,5"	22,5"	20,4"	20,4"	18,6"	18,6"	17,0"	17,0"	15,5"	15,5"				12,4"	12,4"	67' 1"
25	SW	31,0"	31,0"	37,2"	37,2"	33,9"	33,9"	29,2"	29,2"	25,7"	25,7"	22,9"	22,9"	20,6"	20,6"	18,7"	18,7"	17,0"	17,0"	15,4"	15,4"				12,5"	12,5"	68' 4"
20	SW	53,2"	53,2"	42,3"	42,3"	35,1"	35,1"	30,1"	30,1"	26,2"	26,2"	23,3"	23,3"	20,9"	20,9"	18,8"	18,8"	17,0"	17,0"	15,2"	15,2"				12,7"	12,7"	68'10"
15	SW	56,3"	56,3"	44,2"	44,2"	36,3"	36,3"	30,8"	30,8"	26,7"	26,7"	23,6"	23,6"	21,0"	21,0"	18,8"	18,8"	16,8"	16,8"	14,8"	14,8"				12,7"	12,7"	68'11"
10	SW	27,2"	27,2"	45,4"	45,4"	37,1"	37,1"	31,3"	31,3"	27,0"	27,0"	23,7"	23,7"	21,0"	21,0"	18,7"	18,7"	16,5"	16,5"	14,2"	14,2"				12,0"	12,0"	68' 8"
5	SW	18,0"	18,0"	45,3"	45,3"	37,3"	37,3"	31,4"	31,4"	27,0"	27,0"	23,6"	23,6"	20,7"	20,7"	18,2"	18,2"	15,9"	15,9"	13,3"	13,3"				11,0"	11,0"	68"
0	SW	16,5"	16,5"	32,7"	32,7"	36,7"	36,7"	30,9"	30,9"	26,5"	26,5"	23,0"	23,0"	20,1"	20,1"	17,5"	17,5"	14,9"	14,9"	11,7"	11,7"				9,9"	9,9"	67"
- 5	SW	17,1"	17,1"	29,4"	29,4"	34,8"	34,8"	29,5"	29,5"	25,3"	25,3"	21,9"	21,9"	18,9"	18,9"	16,1"	16,1"	13,1"	13,1"						10,3"	10,3"	63'10"
-10	SW	18,6"	18,6"	29,0"	29,0"	31,5"	31,5"	27,0"	27,0"	23,2"	23,2"	19,9"	19,9"	16,9"	16,9"	13,9"	13,9"								11,5"	11,5"	58' 7"
-15	SW					26,5"	26,5"	23,1"	23,1"	19,9"	19,9"	16,8"	16,8"												14,2"	14,2"	49' 5"
-20	SW																										

**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 lb x 1,000 and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 30" wide flat pads. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

# LH 80 C Gantry – Equipment AG22

## Industry – Kinematic 2C

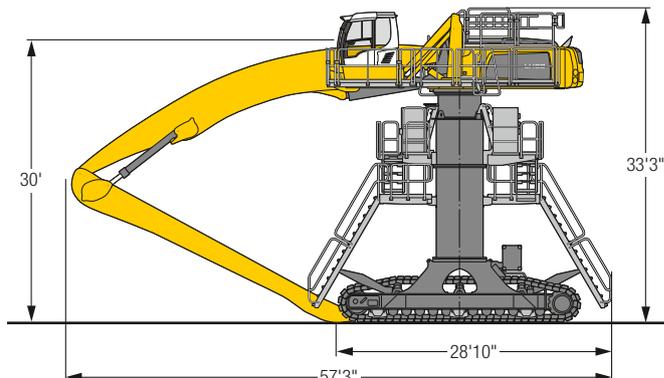


### Operating Weight and Ground Pressure

The operating weight includes the basic machine with hydr. cab elevation, angled boom 41°, straight stick 32'10" and grab for loose material GMZ 80/3.92 yd<sup>3</sup>.

Weight	248,000 lb
Pad width	30"
Ground pressure	on request

### Dimensions



ft	Gantry	20 ft		25 ft		30 ft		35 ft		40 ft		45 ft		50 ft		55 ft		60 ft		65 ft		70 ft		ft in					
		ft																											
85	Gantry																							15,4"	15,4"	41' 1"			
80	Gantry																								14,2"	14,2"	47' 5"		
75	Gantry												16,3"	16,3"												13,5"	13,5"	52' 5"	
70	Gantry														14,9"	14,9"											13,0"	13,0"	56' 6"
65	Gantry														14,7"	14,7"	13,8"	13,8"									12,7"	12,7"	59'11"
60	Gantry														14,7"	14,7"	13,7"	13,7"	12,9"	12,9"							12,5"	12,5"	62' 8"
55	Gantry													16,1"	16,1"	14,8"	14,8"	13,8"	13,8"	13,0"	13,0"	12,3"	12,3"				12,3"	12,3"	65"
50	Gantry													16,4"	16,4"	15,1"	15,1"	14,0"	14,0"	13,1"	13,1"	12,4"	12,4"				12,1"	12,1"	66'11"
45	Gantry												18,7"	18,7"	16,8"	16,8"	15,4"	15,4"	14,2"	14,2"	13,2"	13,2"	12,5"	12,5"			12,0"	12,0"	68' 4"
40	Gantry														17,3"	17,3"	15,7"	15,7"	14,5"	14,5"	13,4"	13,4"	12,6"	12,6"			12,0"	12,0"	69' 4"
35	Gantry	40,5"	40,5"	32,1"	32,1"	26,7"	26,7"	22,8"	22,8"	20,0"	20,0"	17,9"	17,9"	16,2"	16,2"	14,8"	14,8"	13,7"	13,7"	12,8"	12,8"					12,0"	12,0"	70"	
30	Gantry	44,1"	44,1"	34,3"	34,3"	28,1"	28,1"	23,9"	23,9"	20,8"	20,8"	18,5"	18,5"	16,6"	16,6"	15,1"	15,1"	13,9"	13,9"	12,9"	12,9"			12,0"	12,0"	12,0"	12,0"	70' 4"	
25	Gantry	22,8"	22,8"	36,4"	36,4"	29,6"	29,6"	24,9"	24,9"	21,6"	21,6"	19,0"	19,0"	17,1"	17,1"	15,5"	15,5"	14,2"	14,2"	13,1"	13,1"	12,0"	12,0"	12,0"	12,0"	12,0"	12,0"	70' 2"	
20	Gantry	15,7"	15,7"	34,4"	34,4"	30,9"	30,9"	25,9"	25,9"	22,3"	22,3"	19,6"	19,6"	17,5"	17,5"	15,8"	15,8"	14,4"	14,4"	13,2"	13,2"					12,0"	12,0"	69'10"	
15	Gantry	14,3"	14,3"	26,1"	26,1"	31,9"	31,9"	26,7"	26,7"	22,9"	22,9"	20,1"	20,1"	17,8"	17,8"	16,0"	16,0"	14,5"	14,5"	13,1"	13,1"					12,0"	12,0"	69"	
10	Gantry	14,6"	14,6"	23,5"	23,5"	32,4"	32,4"	27,2"	27,2"	23,3"	23,3"	20,4"	20,4"	18,0"	18,0"	16,1"	16,1"	14,5"	14,5"	12,9"	12,9"					12,0"	12,0"	67'10"	
5	Gantry	15,7"	15,7"	23,1"	23,1"	32,3"	32,3"	27,2"	27,2"	23,4"	23,4"	20,4"	20,4"	18,0"	18,0"	16,0"	16,0"	14,2"	14,2"	12,3"	12,3"					11,8"	11,8"	66' 4"	
0	Gantry	17,0"	17,0"	23,7"	23,7"	31,4"	31,4"	26,6"	26,6"	23,0"	23,0"	20,0"	20,0"	17,6"	17,6"	15,5"	15,5"	13,4"	13,4"							11,5"	11,5"	64' 2"	
-5	Gantry	18,5"	18,5"	24,8"	24,8"	29,5"	29,5"	25,3"	25,3"	21,9"	21,9"	19,1"	19,1"	16,6"	16,6"	14,4"	14,4"	12,0"	12,0"							11,0"	11,0"	61'10"	
-10	Gantry	20,1"	20,1"	26,4"	26,4"	26,5"	26,5"	23,0"	23,0"	20,0"	20,0"	17,3"	17,3"	14,9"	14,9"	12,4"	12,4"									10,2"	10,2"	58' 8"	
-15	Gantry					22,1"	22,1"	19,5"	19,5"	17,0"	17,0"	14,5"	14,5"	11,9"	11,9"											11,2"	11,2"	51' 4"	

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

The lift capacities on the stick end without attachment are stated in lb x 1,000 and can be slewed through 360° on a firm, level supporting surface. Capacities are valid for 30" wide flat pads. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity values indicated are attained at the corresponding operating temperature. This operating temperature is ensured by continuous movement of the boom. Weights of fitted attachments (grabs, load hooks, etc.) and load accommodation attachment are to be deducted from the lift capacity values. The lift capacity of the unit is limited by its stability, the lifting capability of the hydraulic elements, or the maximum permissible lifting capacity of the load hook.

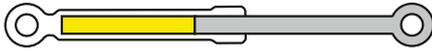
# Liebherr ERC-System



## 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.



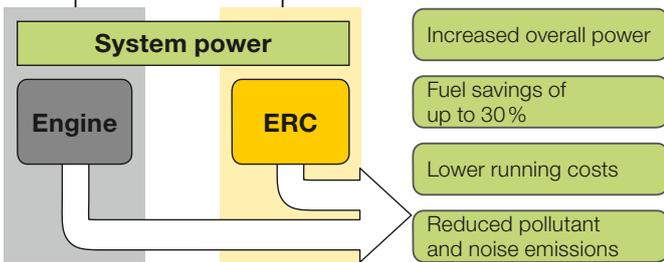
**B** 1. Equipment fitting raised/  
Energy released



2. Lower equipment fitting/  
Store energy  
4. Raise equipment fitting/  
Release energy

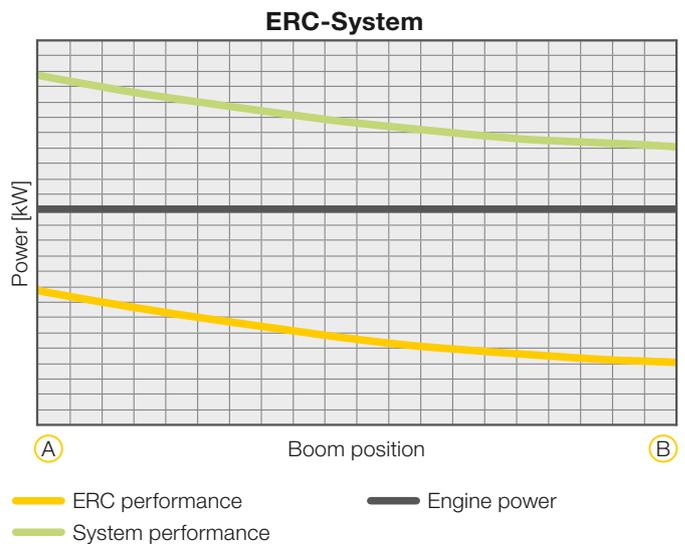


**A** 3. Equipment fitting lowered/  
Energy stored



### 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.



# Equipment

 <b>Undercarriage</b>	80 M	80 C	80 M HR	80 C HR	80 C Gantry
Track pads, variants		+		+	+
Individual control outriggers	+		•		
Three-piece chain guide		•		•	•
Shuttle axle lock, automatic	•		•		
Outrigger monitoring system	+		+		
Tires, variants	+		+		
Protection for piston rods, outriggers	+		+		
Two lockable storage compartments	•				
Undercarriage, variants		+			

 <b>Uppercarriage</b>	80 M	80 C	80 M HR	80 C HR	80 C Gantry
Uppercarriage right side light, 1 piece, LED	•	•	•	•	•
Uppercarriage rear light, 2 pieces, LED	+	+			
Uppercarriage underneath rear light, 1 piece, LED			+	+	+
Refuelling system with filling pump	+	+	+	+	+
Railing on uppercarriage	+	+	•	•	•
Generator	+	+	+	+	+
Main battery switch for electrical system	•	•	•	•	•
Amber beacon, at uppercarriage, LED double flash	+	+	+	+	+
Protection for headlights	+	+			
Protection for rear lights	+	+			
Tool equipment, extended	•	•	•	•	•

 <b>Hydraulic System</b>	80 M	80 C	80 M HR	80 C HR	80 C Gantry
Electronic pump regulation	•	•	•	•	•
Liebherr hydraulic oil from -4 °F to +104 °F	•	•	•	•	•
Liebherr hydraulic oil, biologically degradable	+	+	+	+	+
Liebherr hydraulic oil, specially for warm or cold regions	+	+	+	+	+
Magnetic rod in hydraulic tank	•	•	•	•	•
Bypass filter	+	+	+	+	+
Preheating hydraulic oil	+	+	+	+	+

 <b>Engine</b>	80 M	80 C	80 M HR	80 C HR	80 C Gantry
Fuel anti-theft device	+	+	+	+	+
Air pre-filter with dust discharge	+	+	+	+	+
Automatic engine shut-down (time adjustable)	+	+	+	+	+
Preheating fuel	+	+	+	+	+
Preheating coolant	+	+	+	+	+
Preheating engine oil*	+	+	+	+	+

 <b>Cooling System</b>	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	•	•	•	•	•



## Operator's Cab

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



## Equipment

	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	+	+	•	•	•
Equipment with electro-hydraulic end position control	•	•	•	•	•
AutoLift	+	+	+	+	+
Pressure warning mechanism hoist cylinder	•	•	•	•	•
ERC system	•	•	•	•	•
Filter system for attachment	+	+	+	+	+
Electronic lift limitation	+	+	+	+	+
Boom cylinder cushioning	•	•	•	•	•
Stick camera (with separate monitor), bottom side, with protection	+	+	+	+	+
Load torque limitation	+	+	+	+	+
Liebherr multi coupling system	+	+	+	+	+
Pipe fracture safety valves hoist cylinders	•	•	•	•	•
Pipe fracture safety valves stick cylinders	•	•	•	•	•
Quick coupling system MH 110B	+	+	+	+	+
Protection for piston rod, energy recovering cylinder	+	+	+	+	+
Protection for piston rods, hoist cylinder	+	+	+	+	+
Stick shutoff (retract), electronically	•	•	•	•	•
Stick shutoff (retract/extend), electronically	+	+	+	+	+
Retract stick without pressure	•	•	•	•	•
Sticks with quick coupling	+	+	+	+	+
Overload warning device	+	+	+	+	+



## Complete Machine

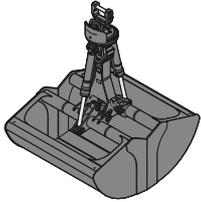
	80 M	80 C	80 M HR	80 C HR	80 C Gantry
<b>Lubrication</b>					
Lubrication undercarriage, manually – decentralized (grease points)	•				
Lubrication undercarriage, manually – centralized (one grease point)	+		•		
Central lubrication system for uppercarriage and equipment, automatically	•	•	•	•	•
Central lubrication system for undercarriage, automatically	+		+		
Central lubrication system, extension for attachment	+	+	+	+	+
<b>Special coating</b>					
Special coating, variants	+	+	+	+	+
<b>Monitoring</b>					
Rear view monitoring with camera	•	•	•	•	•
Side view monitoring with camera	•	•	•	•	•

• = Standard, + = Option

\* = country-dependent

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

# Attachments



## Grab for Loose Material

Shells for loose material with cutting edge (without teeth)

<b>Grab model GMZ 50</b>		ft in	4'7"	5'3"	5'11"	6'7"	7'3"	7'10"
Width of shells		ft in	4'7"	5'3"	5'11"	6'7"	7'3"	7'10"
Capacity	yd <sup>3</sup>		4.58	5.23	5.88	6.54	7.19	7.85
Weight	lb		5,765	6,050	6,215	6,515	6,800	7,090
<b>Grab model GMZ 80</b>		ft in	4'3"	4'11"	5'9"	6'7"	7'3"	8'6"
Width of shells		ft in	4'3"	4'11"	5'9"	6'7"	7'3"	8'6"
Capacity	yd <sup>3</sup>		3.92	4.58	5.23	5.88	6.54	7.85
Weight	lb		5,535	5,785	6,105	6,480	6,690	7,200
<b>Grab model GMZ 120</b>		ft in	5'3"	5'11"	6'7"	7'3"		
Width of shells		ft in	5'3"	5'11"	6'7"	7'3"		
Capacity	yd <sup>3</sup>		5.23	5.88	6.54	7.19		
Weight	lb		6,700	6,910	7,265	7,550		



## Multi-Tine Grab

open

semi-closed

closed

<b>Grab model GMM 80-4 (4 tines)</b>		yd <sup>3</sup>	1.44	1.83	2.22	1.44	1.83	2.22	1.83*
Capacity	yd <sup>3</sup>		1.44	1.83	2.22	1.44	1.83	2.22	1.83*
Weight	lb		4,180	4,265	4,400	4,610	4,740	4,870	5,355
<b>Grab model GMM 120-4 (4 tines)</b>		yd <sup>3</sup>	2.22	2.62	3.27	3.92	2.22	2.62	3.27
Capacity	yd <sup>3</sup>		2.22	2.62	3.27	3.92	2.22	2.62	3.27
Weight	lb		4,750	4,850	4,970	5,080	5,325	5,445	5,645
<b>Grab model GMM 80-5 (5 tines)</b>		yd <sup>3</sup>	1.44	1.83	2.22	1.44	1.83	2.22	1.44*
Capacity	yd <sup>3</sup>		1.44	1.83	2.22	1.44	1.83	2.22	1.44*
Weight	lb		4,785	4,895	5,050	5,270	5,435	5,600	5,380
<b>Grab model GMM 120-5 (5 tines)</b>		yd <sup>3</sup>	2.22	2.62	3.27	3.92	2.22	2.62	3.27
Capacity	yd <sup>3</sup>		2.22	2.62	3.27	3.92	2.22	2.62	3.27
Weight	lb		5,480	5,600	5,755	5,895	6,140	6,285	6,535

\* heart-shaped



## Wood Grab

**Grab model GMH 80 round-shaped** (complete overlapping, vertical cylinders)

Size	yd <sup>2</sup>	1.91	2.27	2.63	2.99
Cutting width	ft in	2'10"	2'10"	2'10"	2'10"
Height of grab, closed	ft in	9'6"	9'9"	10'1"	10'4"
Weight	lb	4,980	5,080	5,160	5,245

**Grab model GMH 120 round-shaped** (complete overlapping, vertical cylinders)

Size	yd <sup>2</sup>	3.35	3.83		
Cutting width	ft in	2'10"	2'10"		
Height of grab, closed	ft in	11'9"	12'1"		
Weight	lb	6,105	6,175		

## Load Hook

Max. load	lb	55,115
Height with suspension	ft	4'
Weight	lb	562

## Magnet Devices / Lifting Magnets

Generator	kW	20	30
<b>Electromagnet with suspension</b>			
Power	kW	11.7	17.8
Diameter of magnet	ft in	4'11"	5'7"
Weight	lb	5,290*	7,275*

\* only magnet plate

