LH 22 Industry Litronic

LIEBHERR

LIEBHE

Material handling machine

LH22

Generation 6

Operating weight 42,300-48,900 lb*

Engine 141 HP / 105 kW Stage V Stage IIIA (compliant) Tier 4 Final

* Without attachment

Performance

Power plus speed – Redefined performance

Economy

Good investment – Savings for long-term

Reliability

Durability and sustainability – Quality down to the last detail

Comfort

Perfection at a glance – When technology is comfortable

Maintainability

Efficiency bonus – Even with maintenance and service





LH 22 M Industry Litronic

Operating weight

42,300-48,300 lb* **Engine** 141 HP / 105 kW Stage V Stage IIIA (compliant) Tier 4 Final

* Without attachment

LH 22 C Industry Litronic

Operating weight

46,300-48,900 lb* **Engine** 141 HP / 105 kW Stage V Stage IIIA (compliant) Tier 4 Final

Performance



Power plus speed – Redefined performance

Liebherr has been designing and manufacturing successful machines for material handling for over 60 years. With the different versions of the LH 22 Industry machine model of the generation of Liebherr handlers, high performance and yet economical machines specially designed for use in waste and scrap recycling.

Maximum handling capacity

High engine performance

The optimized design of the 105 kW engine supplies a high torque output for fast and strong movements. Load peaks are cleverly compensated for to ensure that maximum torque is available at all times for highest handling capacity.

High load capacities

The intelligent arrangement of the components in the uppercarriage concept optimizes the center of gravity of the complete machine. This allows greater load capacities while retaining compact dimensions.

Captivating dynamics

Lowering the equipment in the ERC system provides the machine with additional stored energy. This results in increased system performance, which in turn enables more powerful, faster and more homogeneous work cycles and increases handling performance.

Precision operation

Intelligent electronics

The elaborate machine controls guarantee that the hydraulics are optimally configured for the task at hand. Here, the load sensing control ensures that the flow delivered by the pump is optimally distributed when movements overlap. Speed and power are available whenever they are needed.

Sensitive hydraulics

The optimal harmonisation between the engine and the control valve allows a fast and direct response from the hydraulics to the input command. This is controlled proportionally to enable smooth and gentle movements to be executed when the joystick is moved.

Firm and stable positioning

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



Liebherr diesel engine compliant with Tier 4 Final

- 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



Generator

- Twin-belt drive for good functional reliability
- High efficiency thanks to direct transmission of the engine torque
- Optimized belt guidance for long service life



Travel motor

- Powerful, robust, reliable and quiet
- Better performance even on uphill grades due to electrical swivel angle adjustment for more torque, maximum acceleration and more driving power
- Fuel efficiency at maximum speed due to optimal adjustment of speed and delivery volume





Good investment – Savings for long-term

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

Increased productivity

Requirement-controlled cooling

The vanes of the fan are driven regardless of the diesel engine, generating the exact cooling output that is actually required. Thermal sensors guarantee reliable, need-based and efficient control.

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.

Increased productivity

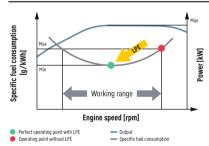
Attachments and quick coupling systems

Liebherr offers a wide selection of attachments for every application to increase the productivity of its material handling machines. In addition the material handlers can be fitted with a Liebherr quick coupling system which increases the productivity of the machine by up to 30%. The matching attachment and quick coupling system combined with the outstanding dynamics of a Liebherr handler ensures highest handling capacity and maximum productivity.

Road licensing

The LH 22 M Industry with an adjustable boom package and the appropriate machine configuration can be issued with a road licence ex-works by the TÜV. This road licence enables it to work at the side of the road and to be driven to nearby places without the requirement for a special licence.

Liebherr Power Efficiency (LPE) System



Low energy consumption thanks to intelligent machine control

- Liebherr-Power Efficiency (LPE) optimizes the interaction of the drive components in terms of efficiency
- LPE enables machine operation in the area of the lowest specific energy 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



Eco-mode

- Reducing the engine speed by pressing a button
- Lower fuel consumption with unchanged high performance
- Economical and environmentally friendly working guaranteed
- Ideal for light to medium operations





Durability and sustainability – Quality down to the last detail

Every day Liebherr material handlers show their qualities in a very wide range of industrial applications all over the world. Years of experience, continuous development and the latest technologies provide maximum safety in use. Their robust, compact design and the use of components produced in-house ensure that the material handling machine LH 22 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 prevents 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 made to ensure that collisions and resulting component damage are avoided.

Overload warning device and load torque limitation

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

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, slewing ring, swivelling drive and hydraulic cylinders are developed and produced by Liebherr itself. The great depth of in-house manufacturing guarantees maximum quality and ensures that components are optimally configured to each other.

Robust design

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

Intelligent self diagnostics

The 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



Dust-intensive jobs

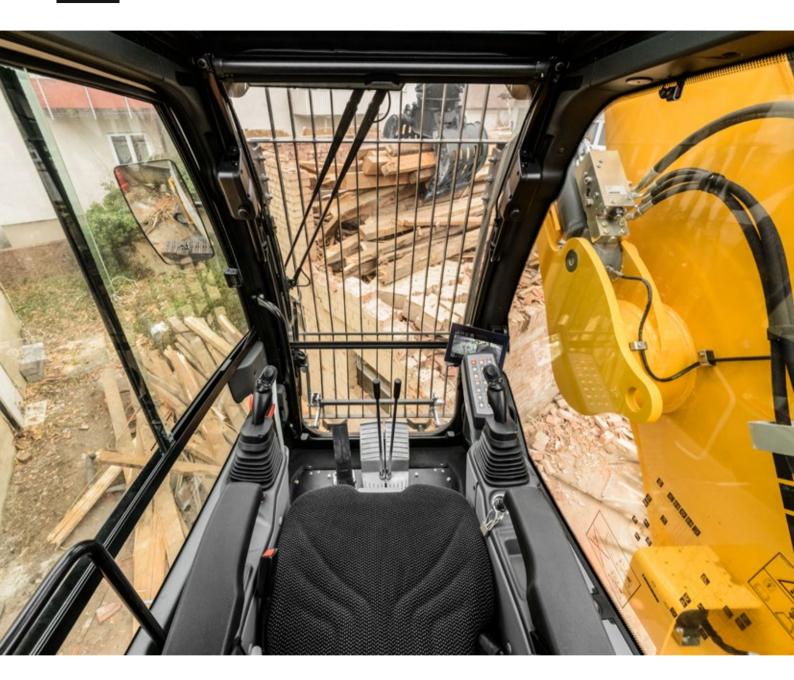
- Large-dimension radiator with large mesh for optimum cooling performance, even in extremely dustintensive conditions
- Protective grille with fine mesh, extending and folding fan for quick and easy cleaning
- Provision for the installation of filter systems on the cab



Recycling package

- Reversible fan slows down the accumulation of dirt in the engine and radiator, guaranteeing high levels of machine availability
- Separate position of air conditioning compressor maximizes the air stream in the radiator / fan unit and guarantees good reliability even in extremely dust-intensive conditions
- Air pre-filter with dust discharge for extra-fine filtration of the engine intake air





Perfection at a glance – When technology is comfortable

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 lownoise diesel engines from Liebherr minimizes noise emissions and vibrations.

Comfortable operation

Proportional control

Precision control of the material handling machine are especially important in applications such as waste separation or scrap recycling. 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 favour 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 9" 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.



Safe access

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



Operator's seat comfort with adjustable armrests

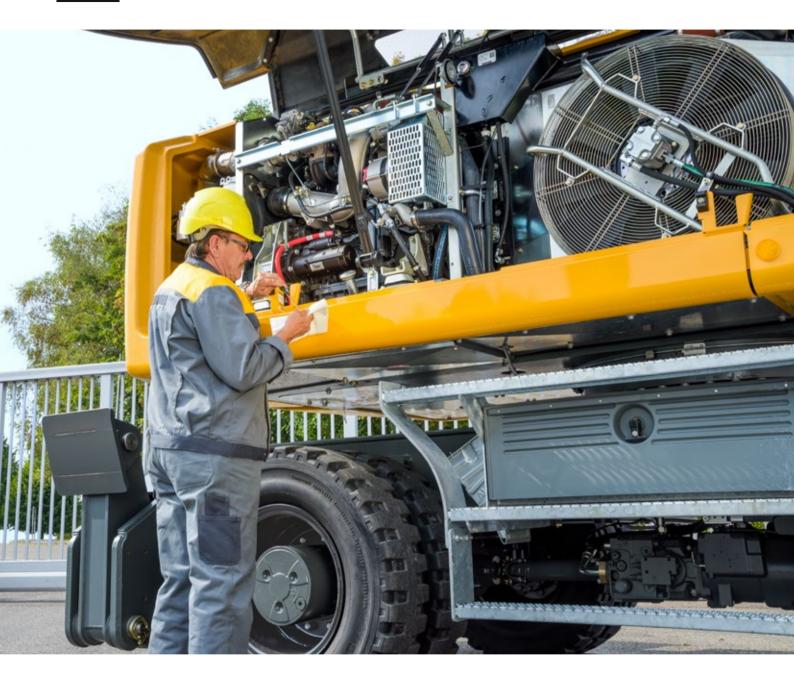
- Greater seating comfort due to variable damper hardness, lockable horizontal suspension, pneumatic lumbar support, seat heating and passive seat air conditioning for concentrated working
- Individual adjustment options for armrests, seat cushion depth, seat angle and head restraint for healthful working



Joystick with proportional control

- Good functionality with streamlined, ergonomic design
- 4-way mini-joystick enables versatile possibilities of control without having to encompass, for example steering, outriggers, cab elevation or attachments
- Joysticks each with two buttons and a rocker switch – increase the number of functions available

Maintainability



Efficiency bonus – Even with maintenance and service

The Liebherr material handling machine LH 22 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 the material handling machine's maintenance costs and down times.

Elaborate maintenance concept

Service-based machine design

The service-based machine design guarantees short servicing times, thus minimizing maintenance costs due to the time it saves. All the maintenance points are easily accessible from the ground 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 500 hours for engine oil and up to 8,000 hours for hydraulic oil, Liebherr has significantly reduced the amount of maintenance and increased the productivity of the material handlers. In addition, central lubrication systems minimise daily maintenance.

Your competent service partner

Remanufacturing

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

Competent advice and service

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



Lubrication as it works

- Fully automatic central lubrication system for uppercarriage and equipment
- Can be extended as an option to the connection link, quick coupler and attachment
- Fully automatic central lubrication system for the undercarriage available as an option
- Lubricates without interrupting work to ensure better productivity and a long component service life



Excellent service access

- Large, wide-opening service doors
- Engine oil, fuel, air and cab air filters are easily and safely accessible from the ground
- 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 machines overview

Equipment

- High load capacities and long reaches thanks to optimized kinematic properties and robust construction for greater handling performance
- Ingenious routing of hydraulic hoses optimizes the oil flow and minimizes power losses for maximum energy efficiency
- Pipe fracture safety valves on hoist and stick cylinders and retract stick shut-off for maximum safety during every application
- Quick coupling systems and attachments made by Liebherr for maximum machine capacity 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 as standard with 4-way mini joystick for greater precision, high precision control and functions



- Maximum acceleration and higher drawbar pull thanks to the travel motor for greater travelling performance
- Load-holding valves fitted as standard on all support cylinders for maximum stability in every application
- Fewer downtimes thanks to maintenance-free support cylinders
- Undercarriage variants with dozer blade for universal operation of the material handling machine

The perfect solution for every application

Attachments



Grab for loose material



Multi-tine grab



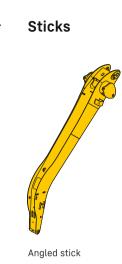
Sorting grab

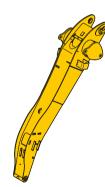


Load hook

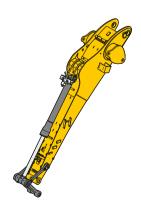


Magnet devices

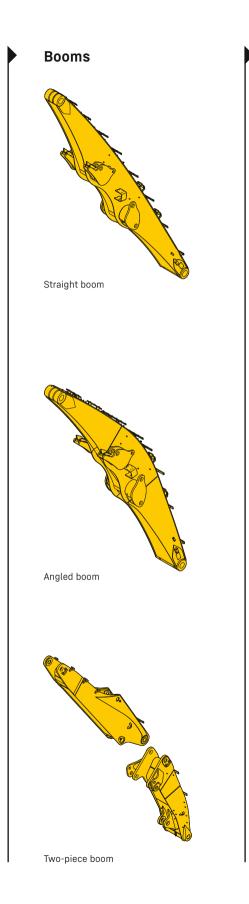




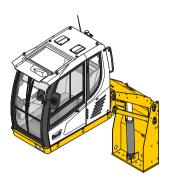
Flat angled stick

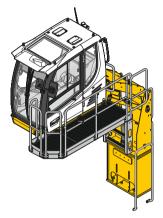


Stick with tipping kinematics



Cab elevations









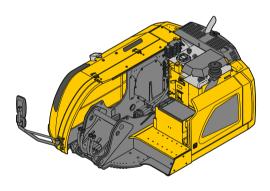
Rigid cab elevation

30° tilt function

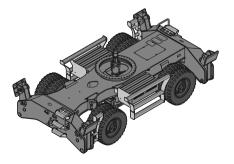
Hydraulic cab elevation

Connecting piece for hydraulic cab elevation

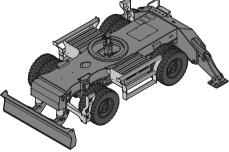


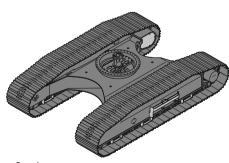


Undercarriage



Mobile, 4 point outriggers



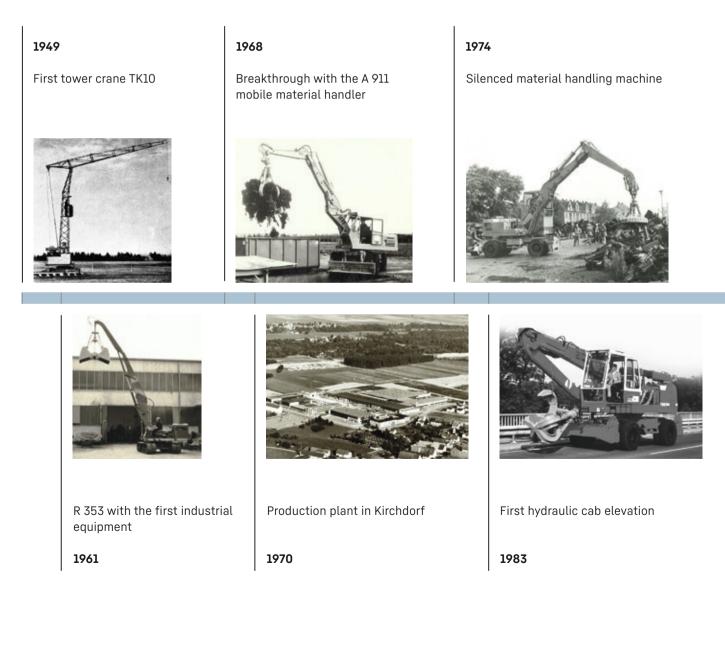


Mobile, blade + 2 point outriggers

Crawler

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 uncompromising for the industrial use.



Liebherr has now been developing and manufacturing material handling machines for a very wide range of applications in the scrap, port and timber handling sectors and for the waste and recycling industry for over 60 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





Launch of the new LH series



Launch of the new port material handling machines









Prize for the LH 120

Awarded the Bauma Design 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

Rating per SAE J1349 per ISO 9249 Model Stage V/Tier 4 Final Stage IIIA (compliant) Type Bore / Stroke

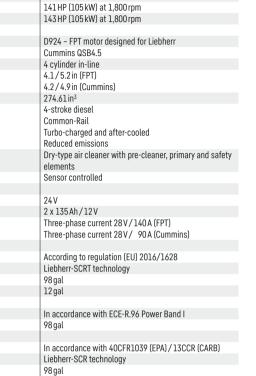
Displacement Engine operation

Air	cleaner
7.11	occurrer

Engine idling Electrical system

Voltage Batteries Alternator

Stage V Harmful emissions values Emission control Fuel tank Urea tank Stage IIIA (compliant) Harmful emissions values Fuel tank Tier 4 Final Harmful emissions values Emission control



Hydraulic system

Hydraulic pump	
For equipment and travel drive	Liebherr axial piston variable displacement pump
Max. flow	79 gpm
Max. pressure	5,076 psi
Hydraulic pump regulation and control	Liebherr-Synchron-Comfort-system (LSC) with electronic engine speed sensing regulation, pressure and flow com- pensation, torque controlled swing drive priority
Hydraulic tank	41gal
Hydraulic system	93 gal
Filtration	1 main return filter with integrated partial micro filtration (5 μm)
MODE selection	Adjustment of engine and hydraulic performance via a mode pre-selector to match application, e.g. for espe- cially economical and environmentally friendly operation or for maximum material handling and heavy-duty jobs
S (Sensitive)	Mode for precision work and lifting through very sensi- tive movements
E (Eco)	Mode for especially economical and environmentally friendly operation
P (Power)	Mode for high performance with low fuel consumption
P+ (Power-Plus)	Mode for highest performance and for very heavy duty applications, suitable for continuous operation
Engine speed and performance setting	Stepless alignment of engine output and hydraulic power via engine speed
Option	Tool Control: 20 pre-adjustable pump flows and pres- sures for add-on attachments

🌛 Swing drive

Drive	Liebherr axial piston motor with integrated brake valve and torque control
Swing ring	Liebherr, sealed race ball bearing swing ring, internal teeth
Swing speed	0-9.0 rpm stepless
Swing torque	39,091 lbf ft
Holding brake	Wet multi-disc (spring applied, pressure released)
Option	Slewing gear brake Comfort

\approx Cooling system

Diesel engine

Fuel tank

Urea tank

Water-cooled

12 gal

Compact cooling system consisting cooling unit for water, hydraulic oil and charge air with stepless thermostatically controlled fan, fans for radiator cleaning can be completely folded away

Via control valves with integrated safety valves, simulta-

$\stackrel{\fbox{}}{\doteq}$ Hydraulic controls

Power d	listri	butio	n

neous and independent actuation of chassis, swing drive and equipment
With hydraulic pilot control and proportional joystick levers
Electro-proportional via foot pedal
With hydraulic proportionally functioning foot pedals or adjusted with plugable levers
Via switch or electro-proportional foot pedals
Proportionally acting transmitters on the joysticks for additional hydraulic functions

🖓 Cab

Cab	TOPS safety cab structure (tip-over protection) with individual windscreens or featuring a slide-in subpart under the ceiling, work headlights integrated in the ceiling, a door with a sliding window (can be opened on both sides), large stowing and depositing possibilities, shock-absorbing suspension, sound damping insulating, tinted laminated safety glass, separate shades for the sunroof window and windscreen
Operator's seat Comfort	Air cushioned operator's seat with 3D-adjustable arm- rests, headrest, lap belt, seat heater, adjustable seat cushion inclination and length, lockable horizontal sus- pension, automatic weight adjustment, adjustable sus- pension stiffness, pneumatic lumbar vertebrae support and passive seat climatization with active coal
Operator's seat Premium (Option)	In addition to operator's seat comfort: active electronic weight adjustment (automatic readjustment), pneumatic low frequency suspension and active seat climatization with active coal and ventilator
Arm consoles	Joysticks with control consoles and swivel seat, folding left control console
Operation and displays	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
Air-conditioning	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

Туре	High-strength steel plates at highly-stressed points for the toughest requirements. Complex and stable mount- ings of equipment and cylinders
Hydraulic cylinders	Liebherr cylinders with special sealing and guide system and, depending on cylinder type, shock absorption
Bearings	Sealed, low maintenance

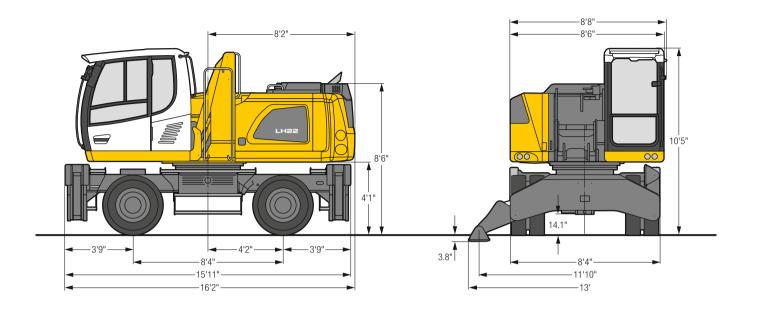
📼 📼 Undercarriage

Mobile	
Drive	Oversized two speed power shift transmission with addi- tional creeper speed, Liebherr axial piston motor with functional brake valve on both sides
Travel speed Joystick steering	0-2.2 mph stepless (creeper speed + transmission stage 1) 0-4.3 mph stepless (transmission stage 1) 0-7.5 mph stepless (creeper speed + transmission stage 2) 0-7.5 mph stepless (transmission stage 2)
Travel speed Wheel steering (Option)	 0- 2.2 mph stepless (creeper speed + transmission stage 1) 0- 4.3 mph stepless (transmission stage 1) 0- 8.1 mph stepless (creeper speed + transmission stage 2) 0-12.4 mph stepless (transmission stage 2)
Driving operation	Automotive driving using accelerator pedal, cruise control function: storage of variable accelerator pedal positions
Axles	70,5481b 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	Stabilizing blade + 2 point outriggers 4 point outriggers
Option Crawler	Dozer blade, at the front, for 4 point outriggers
Version	LC
Drive	Liebherr compact planetary reduction gear with Liebherr axial piston motor per side of undercarriage
Travel speed	0-1.7 mph stepless (creeper speed) 0-2.9 mph stepless
Brake	Functional brake valves on both sides
Holding brake	Wet multi-disc (spring applied, pressure released)
Track pads	Triple grouser

Complete machine

Lubrication	Liebherr central lubrication system for uppercarriage and equipment, automatically
Mobile (Option)	Liebherr central lubrication system for undercarriage, automatically
Steps system	Safe and durable access system with anti-slip steps; main components hot-galvanized
Noise emission	
ISO 6396 (Stage V)	70 dB(A) = L _{pA} (inside cab)
2000/14/EC (Stage V)	101 dB(A) = L _{WA} (surround noise)
ISO 6396 (Stage IIIA compliant)	70dB(A) = L _{pA} (inside cab)
2000/14/EC (Stage IIIA compliant)	102 dB(A) = L _{WA} (surround noise)
ISO 6396 (Tier 4 Final)	70 dB(A) = L _{pA} (inside cab)
2000/14/EC (Tier 4 Final)	101dB(A) = L _{WA} (surround noise)

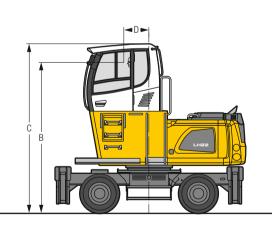
LH 22 M – Dimensions



LH 22 M - Choice of cab elevation

Cab elevation LFC (rigid elevation)

Cab elevation LHC (hydraulic elevation)



Increase type	LFC 120
Height B	3'11"
В	12' 9"
С	14' 4"
D	2' 2"

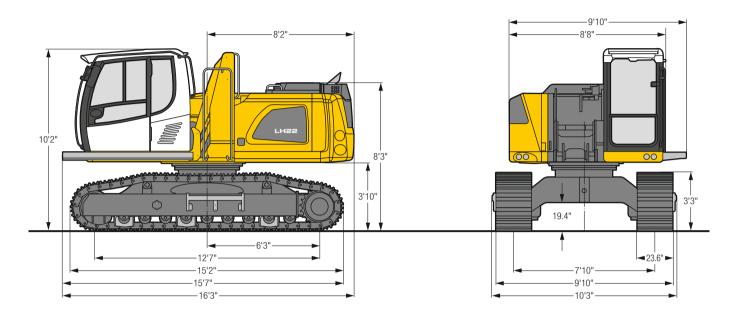
A rigid cab elevation has a fixed eye level height. For a lower transport height, the shell of the cab can be removed and replaced by a transport device. The dimension C is in this machine design for all rigid cab elevations 11'4".

Increase type	LHC 255
B1	8'10"
B2	17' 2"
C1	10' 5"
C2	18' 9"
D1	3'11"
D2	4' 3"
E	10' 2"

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

Tires 10.00-20

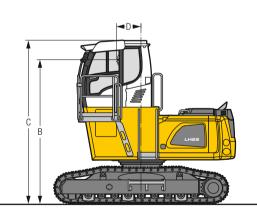
LH 22 C – Dimensions



LH 22 C - Choice of cab elevation

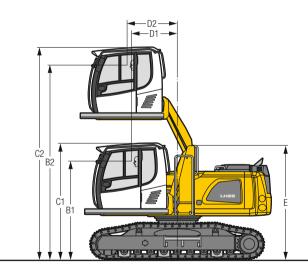
Cab elevation LFC (rigid elevation)

Cab elevation LHC (hydraulic elevation)



Increase type	LFC 120
Height	3'11"
B	12' 6"
С	14' 2"
D	2' 2"

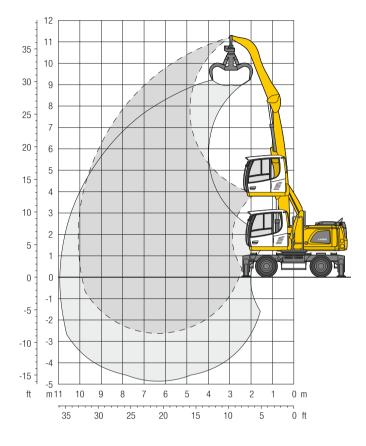
A rigid cab elevation has a fixed eye level height. For a lower transport height, the shell of the cab can be removed and replaced by a transport device. The dimension C is in this machine design for all rigid cab elevations 11'3".



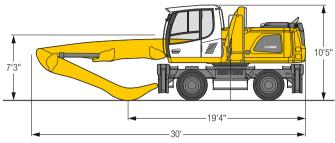
Increase type	LHC 255
B1	8' 7"
B2	16'11"
C1	10' 2"
C2	18' 6"
D1	4'
D2	4' 4"
E	9'11"

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

LH 22 M – Equipment GA10



Dimensions



Operating weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 8 solid tires plus intermediate rings, straight boom 19'8", angled stick 13'1" and multi-tine grab GM 55B/0.52 yd³ semi-closed tines.

Weight

49,600lb

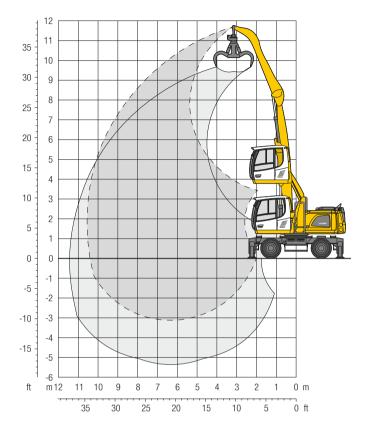
t		10	ft	15	ft	20)ft	25	öft	30	ft			
↓&⁄ ft	Undercarriage		Ľ		Ľ		Ľ	-5	Ŀ		Ľ		Ŀ	ft in
35	Stabilizers raised 4 pt. outriggers down											11,5* 11,5*	11,5* 11,5*	14' 8"
30	Stabilizers raised 4 pt. outriggers down					8,3 11,8*	10,9 11,8*					6,8 8,8*	8,8* 8,8*	22' 4"
25	Stabilizers raised 4 pt. outriggers down					8,4 12,5*	11,1 12,5*	5,8 10,8*	7,7 10,8*			5,1 7,9*	6,8 7,9*	26'11"
20	Stabilizers raised 4 pt. outriggers down			12,9 15,5*	15,5* 15,5*	8,3 12,7*	10,9 12,7*	5,8 10,7*	7,7 10,7*			4,2 7,4*	5,7 7,4*	29'11"
15	Stabilizers raised 4 pt. outriggers down			12,2 16,9*	16,4 16,9*	7,9 13,3*	10,5 13,3*	5,6 10,9*	7,5 10,9*	4,2 8,6	5,6 9,0*	3,7 7,3*	5,1 7,3*	31'10"
10	Stabilizers raised 4 pt. outriggers down	19,8 29,1*	29,0 29,1*	11,1 18,6*	15,2 18,6*	7,4 13,9*	10,0 13,9*	5,3 11,0*	7,2 11,0*	4,0 8,5	5,5 8,9*	3,5 7,4*	4,8 7,4*	32'10"
5	Stabilizers raised 4 pt. outriggers down	2,6* 2,6*	2,6* 2,6*	10,0 19,3*	14,1 19,3*	6,9 14,0*	9,5 14,0*	5,1 10,8*	6,9 10,8*	3,9 8,4	5,4 8,4*	3,4 6,6*	4,7 6,6*	33'
0	Stabilizers raised 4 pt. outriggers down	3,9* 3,9*	3,9* 3,9*	9,4 16,5*	13,4 16,5*	6,5 13,2*	9,1 13,2*	4,9 10,0*	6,7 10,0*	3,8 7,4*	5,3 7,4*	3,5 5,6*	4,8 5,6*	32' 6"
- 5	Stabilizers raised 4 pt. outriggers down			9,2 14,2*	13,2 14,2*	6,3 11,0*	8,9 11,0*	4,8 8,3*	6,6 8,3*			3,9 5,6*	5,3 5,6*	29' 8"
-10	Stabilizers raised 4 pt. outriggers down													
t			"		, ,		<i>~</i> Ъ.							

1// Height 🖼 Can be slewed through 360° 🖞 In longitudinal position of undercarriage

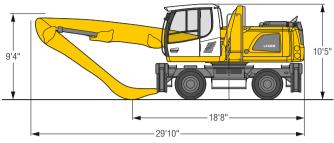
Max. reach * Limited by hydr. capacity

The lift capacities on the stick end without attachment are stated in 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 steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity 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 22 M – Equipment GA11



Dimensions



Operating weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 8 solid tires plus intermediate rings, straight boom 19'8", angled stick 14'9" and multi-tine grab GM 55B / 0.52 yd³ semi-closed tines.

Weight

49,800 lb

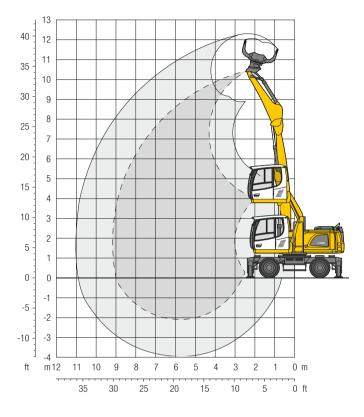
tE		10	ft	15	ft	20)ft	25	ift	30	ft		~₽	
↓ø⁄ ft	Undercarriage		Ľ		Ľ		Ľ		Ľ	-5	Ľ		Ľ	ft in
35	Stabilizers raised 4 pt. outriggers down			12,2* 12,2*	12,2* 12,2*							9,3* 9,3*	9,3* 9,3*	18' 2"
30	Stabilizers raised 4 pt. outriggers down					8,5 11,7*	11,2 11,7*					5,9 7,6*	7,6* 7,6*	24' 8"
25	Stabilizers raised 4 pt. outriggers down					8,6 12,0*	11,3 12,0*	5,9 10,4*	7,9 10,4*			4,5 6,9*	6,1 6,9*	28'10"
20	Stabilizers raised 4 pt. outriggers down					8,5 12,2*	11,1 12,2*	5,9 10,4*	7,8 10,4*	4,3 8,8	5,8 9,0*	3,9 6,5*	5,2 6,5*	31'8"
15	Stabilizers raised 4 pt. outriggers down			12,5 16,0*	16,0* 16,0*	8,1 12,8*	10,7 12,8*	5,7 10,7*	7,6 10,7*	4,2 8,7	5,7 9,0*	3,5 6,4*	4,7 6,4*	33' 6"
10	Stabilizers raised 4 pt. outriggers down	20,9 27,4*	27,4* 27,4*	11,4 18,0*	15,6 18,0*	7,5 13,6*	10,2 13,6*	5,4 10,9*	7,3 10,9*	4,1 8,6	5,6 8,9*	3,2 6,5*	4,5 6,5*	34' 5"
5	Stabilizers raised 4 pt. outriggers down	5,4* 5,4*	5,4* 5,4*	10,3 19,2*	14,3 19,2*	7,0 14,0*	9,6 14,0*	5,1 10,9*	7,0 10,9*	3,9 8,4	5,4 8,6*	3,2 6,3*	4,4 6,3*	34' 8"
0	Stabilizers raised 4 pt. outriggers down	5,0* 5,0*	5,0* 5,0*	9,5 18,4*	13,5 18,4*	6,5 13,5*	9,1 13,5*	4,9 10,3*	6,7 10,3*	3,8 7,9*	5,3 7,9*	3,2 5,4*	4,4 5,4*	34' 1"
- 5	Stabilizers raised 4 pt. outriggers down	7,2* 7,2*	7,2* 7,2*	9,1 15,5*	13,1 15,5*	6,3 11,8*	8,8 11,8*	4,7 9,0*	6,6 9,0*	3,8 6,3*	5,2 6,3*	3,5 5,1*	4,8 5,1*	32'
-10	Stabilizers raised 4 pt. outriggers down					6,3 8,7*	8,7* 8,7*					5,2 7,2*	7,2 7,2*	23' 2"
t			р Пя				~h							

1// Height 🖼 Can be slewed through 360° 🖞 In longitudinal position of undercarriage

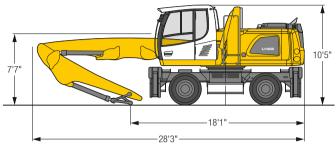
Max. reach * Limited by hydr. capacity

The lift capacities on the stick end without attachment are stated in 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 steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity 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 22 M – Equipment GK9



Dimensions



Operating weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 8 solid tires plus intermediate rings, straight boom 18'1", stick with tipping kinematics 11'6" and sorting grab SG 20B / 0.65 yd³ perforated shells.

Weight

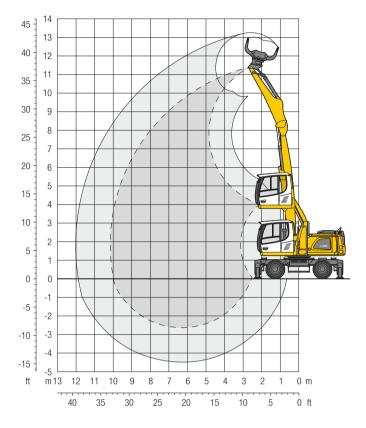
50,000 lb

t		10	ft	15	ft	20	Oft	25	öft	30	ft		~£	
1.⁄∕ ft	Undercarriage		Ľ		Ľ		Ľ		Ľ		Ľ		Ŀ	ft in
35	Stabilizers raised 4 pt. outriggers down		[Jan]		Tree1	-04		-14			DelD	-040	(ma)	
30	Stabilizers raised 4 pt. outriggers down			12,1 15,1*	15,1* 15,1*							9,2 11,3*	11,3* 11,3*	17' 6"
25	Stabilizers raised 4 pt. outriggers down			12,5 15,5*	15,5* 15,5*	7,8 12,9*	10,4 12,9*					5,9 9,3*	8,0 9,3*	23' 1"
20	Stabilizers raised 4 pt. outriggers down			12,3 15,8*	15,8* 15,8*	7,7 12,8*	10,4 12,8*	5,2 10,7*	7,1 10,7*			4,6 8,4*	6,4 8,4*	26' 7"
15	Stabilizers raised 4 pt. outriggers down	16,8* 16,8*	16,8* 16,8*	11,7 17,0*	15,9 17,0*	7,5 13,2*	10,1 13,2*	5,2 10,7*	7,0 10,7*			4,0 8,1*	5,5 8,1*	28' 8"
10	Stabilizers raised 4 pt. outriggers down	19,5 29,0*	28,7 29,0*	10,7 18,5*	14,9 18,5*	7,0 13,7*	9,6 13,7*	5,0 10,7*	6,8 10,7*			3,7 7,9*	5,1 7,9*	29'10"
5	Stabilizers raised 4 pt. outriggers down	2,5* 2,5*	2,5* 2,5*	9,8 18,9*	13,8 18,9*	6,6 13,6*	9,1 13,6*	4,7 10,3*	6,6 10,3*	3,6 6,9*	5,0 6,9*	3,6 6,8*	5,0 6,8*	30' 1"
0	Stabilizers raised 4 pt. outriggers down	4,6* 4,6*	4,6* 4,6*	9,2 17,1*	13,2 17,1*	6,2 12,5*	8,8 12,5*	4,6 9,1*	6,4 9,1*			3,7 5,4*	5,2 5,4*	29' 6"
-5	Stabilizers raised 4 pt. outriggers down			9,1 12,9*	12,9* 12,9*	6,1 9,8*	8,7 9,8*	4,6 6,6*	6,4 6,6*			4,5 6,4*	6,3 6,4*	25' 2"
ţ/			,L				~h							

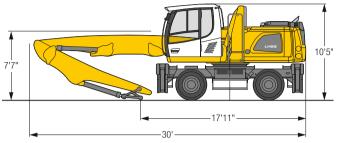
🛿 Height 🗝 Can be slewed through 360° 🖞 In longitudinal position of undercarriage 🛛 😽 Max. reach 🔹 Limited by hydr. capacity

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 steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity 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 22 M – Equipment GK10



Dimensions



Operating weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 8 solid tires plus intermediate rings, straight boom 19'8", stick with tipping kinematics 13'1" and sorting grab SG 20B / 0.65 yd³ perforated shells.

Weight

50,500 lb

t/		10	ft	15	ift	20	Oft	25	ōft	30	ft		Ē	
1√ ft	Undercarriage		Ľ		P		Ľ		Ľ		Ľ		Ŀ	ft in
35	Stabilizers raised 4 pt. outriggers down		(Jac)	11,8 12,2*	12,2* 12,2*	-040					Uwili	11,3 11,6*	11,6* 11,6*	15' 5"
30	Stabilizers raised 4 pt. outriggers down					7,8 12,2*	10,4 12,2*					6,0 8,6*	8,2 8,6*	22' 8"
25	Stabilizers raised 4 pt. outriggers down					7,9 11,9*	10,6 11,9*	5,3 10,1*	7,2 10,1*			4,4 7,6*	6,0 7,6*	27' 2"
20	Stabilizers raised 4 pt. outriggers down			12,5 15,0*	15,0* 15,0*	7,8 12,1*	10,4 12,1*	5,2 10,1*	7,1 10,1*	3,6 7,6*	5,1 7,6*	3,5 7,0*	5,0 7,0*	30' 2"
15	Stabilizers raised 4 pt. outriggers down			11,7 16,3*	15,9 16,3*	7,4 12,6*	10,0 12,6*	5,0 10,2*	6,9 10,2*	3,6 8,1	5,1 8,3*	3,1 6,8*	4,4 6,8*	32'1"
10	Stabilizers raised 4 pt. outriggers down	19,0 28,2*	28,2* 28,2*	10,4 17,9*	14,6 17,9*	6,8 13,2*	9,4 13,2*	4,8 10,3*	6,6 10,3*	3,5 7,9	4,9 8,2*	2,9 6,5*	4,2 6,5*	33' 1"
5	Stabilizers raised 4 pt. outriggers down			9,3 18,4*	13,3 18,4*	6,2 13,2*	8,8 13,2*	4,5 10,1*	6,3 10,1*	3,3 7,7*	4,8 7,7*	2,8 5,7*	4,1 5,7*	33' 4"
0	Stabilizers raised 4 pt. outriggers down	2,8* 2,8*	2,8* 2,8*	8,6 16,6*	12,6 16,6*	5,8 12,3*	8,4 12,3*	4,2 9,3*	6,1 9,3*	3,2 6,7*	4,7 6,7*	2,8 4,6*	4,1 4,6*	32'10"
-5	Stabilizers raised 4 pt. outriggers down			8,4 13,2*	12,3 13,2*	5,6 10,2*	8,2 10,2*	4,1 7,5*	6,0 7,5*			3,3 4,8*	4,7 4,8*	29' 8"

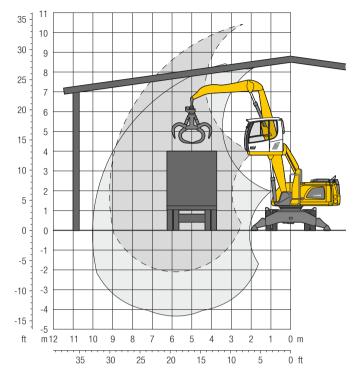
1// Height 🖼 Can be slewed through 360° 🖞 In longitudinal position of undercarriage

Max. reach * Limited by hydr. capacity

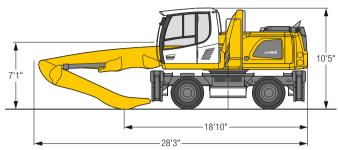
The lift capacities on the stick end without attachment are stated in lb x 1,000 and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (±15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity 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 22 M – Equipment GF9

Specially designed equipment for indoor application



Dimensions



Operating weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 8 solid tires plus intermediate rings, straight boom 18'1", flat angled stick 11'6" and multi-tine grab GM 55B/0.52 yd³ semi-closed tines.

Weight

49,400 lb

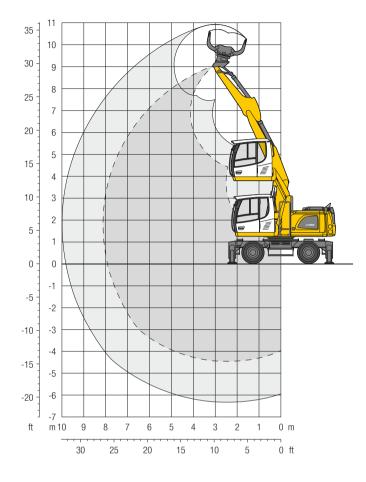
tE		10	ft	15	ift	20	ft	25	öft	30	ft		~₽	
↓⁄⁄ ft	Undercarriage		Ph		Ľ		Ľ		Ŀ		Ľ		Ŀ	ft in
30	Stabilizers raised 4 pt. outriggers down		52	12,5 15,3*	15,3* 15,3*		5-4		<u>_</u>		<u>_</u>	9,8 11,6*	11,6* 11,6*	17' 6"
25	Stabilizers raised 4 pt. outriggers down			12,9 16,0*	16,0* 16,0*	8,2 13,4*	10,8 13,4*					6,4 9,6*	8,5 9,6*	23'
20	Stabilizers raised 4 pt. outriggers down			12,8 16,3*	16,3* 16,3*	8,2 13,4*	10,8 13,4*	5,7 11,3*	7,6 11,3*			5,1 8,8*	6,9 8,8*	26' 6"
15	Stabilizers raised 4 pt. outriggers down	17,8* 17,8*	17,8* 17,8*	12,2 17,6*	16,4 17,6*	8,0 13,8*	10,6 13,8*	5,7 11,3*	7,5 11,3*			4,5 8,5*	6,1 8,5*	28' 8"
10	Stabilizers raised 4 pt. outriggers down	20,2 29,8*	29,4 29,8*	11,3 19,2*	15,5 19,2*	7,6 14,3*	10,2 14,3*	5,5 11,3	7,4 11,3*			4,2 8,5*	5,7 8,5*	29'10"
5	Stabilizers raised 4 pt. outriggers down	3,2* 3,2*	3,2* 3,2*	10,4 19,7*	14,5 19,7*	7,2 14,3*	9,7 14,3*	5,3 10,9*	7,2 10,9*	4,1 7,5*	5,6 7,5*	4,1 7,4*	5,6 7,4*	30' 1"
0	Stabilizers raised 4 pt. outriggers down	5,3* 5,3*	5,3* 5,3*	9,9 17,9*	14,0 17,9*	6,9 13,2*	9,4 13,2*	5,2 9,8*	7,0 9,8*			4,2 6,1*	5,7 6,1*	29' 5"
-5	Stabilizers raised 4 pt. outriggers down			9,8 13,8*	13,8* 13,8*	6,8 10,5*	9,3 10,5*	5,1 7,3*	7,0 7,3*			5,1 7,1*	6,9 7,1*	25' 2"
1/		through 7/0	Plates		, ,		<i>—</i> Ъ.			h				

🗤 Height 🖼 Can be slewed through 360° 🖞 In longitudinal position of undercarriage

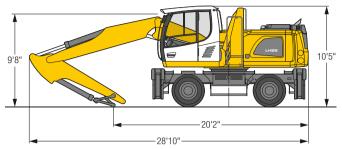
Max. reach * Limited by hydr. capacity

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 steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. The lift capacity 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 22 M – Equipment VK8



Dimensions



Operating weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 8 solid tires plus intermediate rings, two-piece boom 17'3", stick with tipping kinematics 8'8" and sorting grab SG 20B / 0.65 yd³ perforated shells.

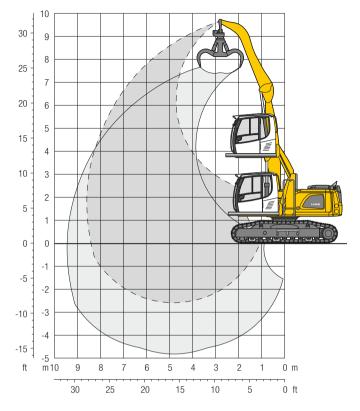
49,900lb

Weight

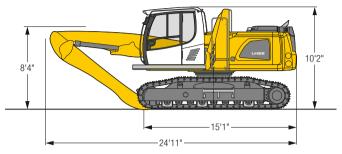
t/		10	ft	15	ft	20	ft	2	5ft	30	ft		~₽	
↓.⁄/ ft	Undercarriage		Ľ		Ľ		Ľ		Ŀ		Ľ		Ľ	ft in
25	Stabilizers raised 4 pt. outriggers down			11,1* 11,1*	11,1* 11,1*							6,5* 6,5*	6,5* 6,5*	18'
20	Stabilizers raised 4 pt. outriggers down			11,1* 11,1*	11,1* 11,1*	8,2 10,0*	10,0* 10,0*					5,6* 5,6*	5,6* 5,6*	22'5"
15	Stabilizers raised 4 pt. outriggers down	14,1* 14,1*	14,1* 14,1*	12,3 12,5*	12,5* 12,5*	8,3 10,4*	10,4* 10,4*					5,3* 5,3*	5,3* 5,3*	25'
10	Stabilizers raised 4 pt. outriggers down	20,6* 20,6*	20,6* 20,6*	12,0 14,7*	14,7* 14,7*	8,2 11,2*	10,5 11,2*	5,6 9,3*	7,4 9,3*			5,0 5,3*	5,3* 5,3*	26'4"
5	Stabilizers raised 4 pt. outriggers down	20,5 22,9*	22,9* 22,9*	11,8 16,4*	15,2 16,4*	8,1 11,9*	10,4 11,9*	5,4 9,4*	7,3 9,4*			4,8 5,5*	5,5* 5,5*	26'8"
0	Stabilizers raised 4 pt. outriggers down	20,7 25,8*	25,8* 25,8*	11,9 16,7*	15,3 16,7*	7,7 12,1*	10,3 12,1*	5,3 9,1*	7,2 9,1*			4,9 6,0*	6,0* 6,0*	26'
- 5	Stabilizers raised 4 pt. outriggers down	20,2 27,3*	27,3* 27,3*	11,4 17,0*	15,6 17,0*	7,3 12,3*	9,9 12,3*					5,4 7,1*	7,1* 7,1*	24'2"
-10	Stabilizers raised 4 pt. outriggers down	20,1 28,2*	28,2* 28,2*	10,8 16,5*	15,0 16,5*	7,1 8,6*	8,6* 8,6*					6,6 6,7*	6,7* 6,7*	21'
I/	Height 🖼 Can be slewed	through 360°	n Din long	gitudinal pos	ition of unde	rcarriage		lax. reach	* Limited by	hydr. capacit	y			

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 steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. The values apply with the optimum positioning of the two-piece boom. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity. 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 22 C – Equipment GA9



Dimensions



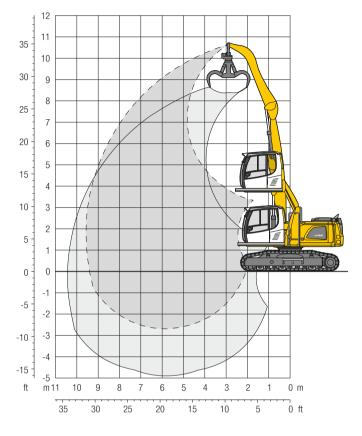
Operating weight and ground pressure

The operating weight includes the basic machine with hydr. cab elevation, straight boom 14'9", angled stick 13'1" and multi-tine grab GM 55B / 0.52 yd³ semi-closed tines.

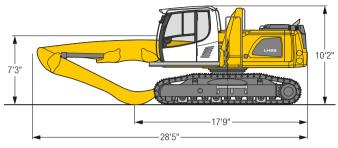
Weight	50,000 lb
Pad width	24"
Ground pressure	on request

tC		10) ft	15	ift	20)ft	25	ft	30 1	ft			
11			1				4		J.		1		1	
ft	Undercarriage		牌		Ľ		만		牌		Ľ		Ľ.	ft in
30	LC											11,8*	11,8*	13'
25	LC			14,2*	14,2*	8,9*	8,9*					8,8*	8,8*	20' 1"
20	LC					11,5	13,3*					7,8*	7,8*	24' 1"
15	LC			15,9*	15,9*	11,4	13,6*	8,1	10,8*			7,4*	7,4*	26' 6"
10	LC			17,2	17,8*	11,1	14,3*	8,0	11,7*			6,8	7,3*	27'11"
5	LC	30,5*	30,5*	16,3	19,9*	10,8	14,8*	7,9	11,5*			6,6	7,6*	28' 2"
0	LC	19,1*	19,1*	15,6	20,2*	10,4	14,5*	7,7	10,4*			6,8	7,7*	27' 8"
- 5	LC	17,3*	17,3*	15,3	17,6*	10,3	12,3*					7,6*	7,6*	24'11"
.6			P											
1	Height 🛁 🖓 Can be	slewed throu	gh 360° 🖞	In longitudin	al position of	undercarriag		🗄 Max. reach	* Limited	by hydr. capac	ity			

LH 22 C – Equipment GA10



Dimensions



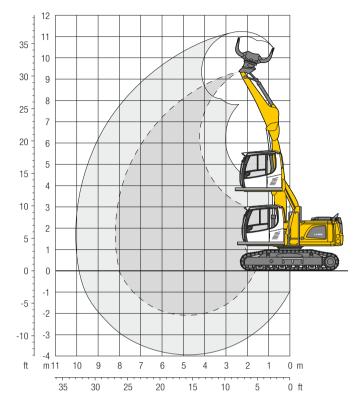
Operating weight and ground pressure

The operating weight includes the basic machine with hydr. cab elevation, straight boom 18'1", angled stick 13'1" and multi-tine grab GM 55B / 0.52 yd³ semi-closed tines.

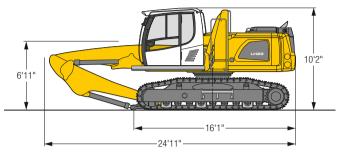
Weight	50,700 lb
Pad width	24"
Ground pressure	on request

t	,	10	ft	15	ift	20	ft	25	ft	30	ft		~Ŀ	
$\downarrow \!\!\! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$			1		1		1		1		1			
ft	Undercarriage		Ľ	-40	Ľ				Ľ	-5	Ľ		Ľ	ft in
30	LC			13,8*	13,8*							9,5*	9,5*	19' 1"
25	LC					11,5	12,8*					8,1*	8,1*	24' 5"
20	LC					11,5	12,8*	8,1	11,0*			6,7	7,5*	27'10"
15	LC			16,5*	16,5*	11,2	13,3*	8,0	11,1*			6,0	7,3*	29'11"
10	LC	27,4*	27,4*	16,5	18,3*	10,7	14,0*	7,8	11,2*	5,9	8,9*	5,6	7,4*	31' 1"
5	LC	9,0*	9,0*	15,4	19,6*	10,3	14,3*	7,5	11,1*	5,8	8,4*	5,4	7,4*	31' 5"
0	LC	6,8*	6,8*	14,6	18,9*	9,9	13,8*	7,3	10,4*	5,7	7,2*	5,5	6,3*	30'11"
-5	LC	9,4*	9,4*	14,4	15,7*	9,7	11,8*	7,2	8,6*			6,1*	6,1*	28' 5"
6			Ģ											
1/	Height 🛁 🛱 Can be s	slewed throug	gh 360° 🖞	In longitudin	al position of	undercarriag		🗄 Max. reach	* Limited	by hydr. capac	ity			

LH 22 C – Equipment GK8



Dimensions



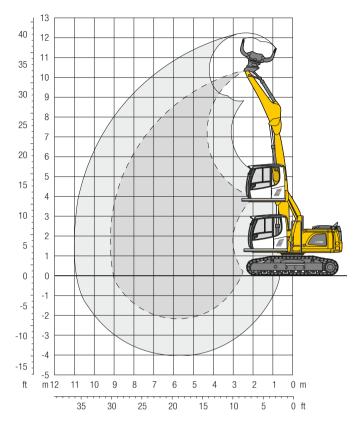
Operating weight and ground pressure

The operating weight includes the basic machine with hydr. cab elevation, straight boom 14'9", stick with tipping kinematics 11'6" and sorting grab SG 20B/0.65 yd perforated shells.

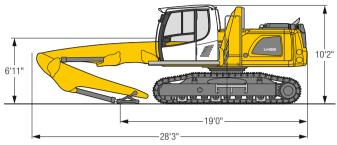
Weight	50,500 lb
Pad width	24"
Ground pressure	on request

tE		10)ft	15	ft	20	Oft	25	ft	30	ft			
Ţ.			p l h		j.		,L		1					
ft	Undercarriage		믭		Ľ	먹	빤	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Ľ		5		2	ft in
30	LC											16,8*	16,8*	9' 5"
25	LC			15,3*	15,3*							10,4*	10,4*	18' 1"
20	LC			15,9*	15,9*	10,9	13,6*					8,8*	8,8*	22' 6"
15	LC			16,6*	16,6*	10,8	13,7*	7,5	8,6*			7,5	8,2*	25' 1"
10	LC	20,1*	20,1*	16,4	18,3*	10,5	14,1*	7,5	11,1*			6,8	8,0*	26' 6"
5	LC	29,9	31,1*	15,6	19,7*	10,2	14,3*	7,4	10,5*			6,6	8,3*	26'11"
0	LC	13,7*	13,7*	14,9	19,1*	9,9	13,4*	7,3	8,8*			6,8	6,9*	26' 4"
-5	LC	16,4*	16,4*	14,7	15,3*	9,8	10,4*					8,1*	8,1*	22' 4"
. 6			ę				~							
I	Height 🛁 🖓 Can be s	slewed throu	gh 360° 🖞	In longitudin	al position of	undercarriag		🗄 Max. reach	* Limited	by hydr. capac	ity			

LH 22 C – Equipment GK9



Dimensions



Operating weight and ground pressure

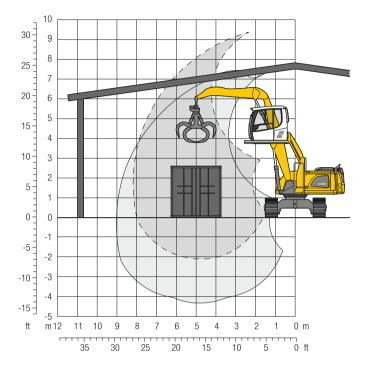
The operating weight includes the basic machine with hydr. cab elevation, straight boom 18'1", stick with tipping kinematics 11'6" and sorting grab SG 20B/0.65 yd³ perforated shells.

Weight	51,100 lb
Pad width	24"
Ground pressure	on request

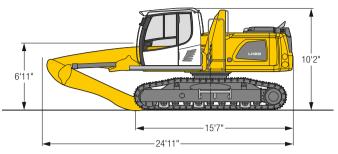
tE	,	10	ft	15	ft	20)ft	25	ft	30	ft		~Ŀ	
$\downarrow \!\!\!\! /$			J.		-		1		-		J.			
ft	Undercarriage		Ľ		Ľ				Ľ	-5	Ľ	-41	Ľ	ft in
30	LC			14,6*	14,6*							11,7*	11,7*	16'10"
25	LC			15,6*	15,6*	10,8	12,9*					8,7	9,4*	22' 8"
20	LC			15,7*	15,7*	10,8	12,8*	7,5	10,7*			6,8	8,5*	26' 4"
15	LC			16,7	16,8*	10,6	13,2*	7,4	10,7*			5,9	8,1*	28' 6"
10	LC	28,6*	28,6*	15,6	18,4*	10,1	13,7*	7,2	10,7*			5,4	8,0*	29'10"
5	LC	2,6*	2,6*	14,6	19,0*	9,6	13,7*	7,0	10,4*	5,3	7,0*	5,3	6,9*	30' 1"
0	LC	4,2*	4,2*	13,9	17,4*	9,3	12,7*	6,8	9,3*			5,4	5,6*	29' 7"
- 5	LC			13,5*	13,5*	9,1	10,2*	6,8	6,9*			6,2*	6,2*	26'
.6			P					_						
	Height 🛛 🗝 💭 Can be s	slewed throug	gh 360° 🛱	In longitudina	al position of	undercarriag	e 2	Max. reach	* Limited	by hydr. capac	ity			

LH 22 C – Equipment GF8

Specially designed equipment for indoor application



Dimensions



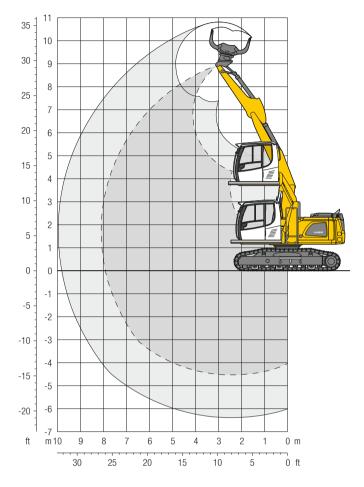
Operating weight and ground pressure

The operating weight includes the basic machine with hydr. cab elevation, straight boom 149", flat angled stick 11'6" and multi-tine grab GM $55B / 0.52 \, yd^3$ semi-closed tines.

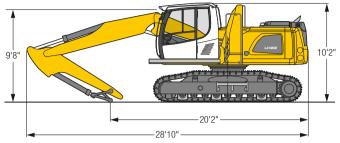
Weight	49,800 lb
Pad width	24"
Ground pressure	on request

tC		10) ft	15	öft	20	Oft	25	ft	30	ft		~Ŀ	
11			j.	_	.L	_	1		"L	_	, D	_	 "	
ft	Undercarriage		받		Ľ				比	-5	Ľ		Ľ	ft in
30	LC											17,0*	17,0*	9' 4"
25	LC			15,6*	15,6*							10,7*	10,7*	18'
20	LC			16,4*	16,4*	11,3	14,2*					9,2*	9,2*	22' 5"
15	LC			17,1*	17,1*	11,3	14,3*	8,0	8,8*			8,0	8,6*	25'
10	LC	21,3*	21,3*	16,9	18,9*	11,0	14,7*	8,0	11,6*			7,3	8,5*	26' 5"
5	LC	30,7	31,9*	16,2	20,4*	10,7	15,0*	7,9	11,1*			7,1	8,7*	26'10"
0	LC	14,4*	14,4*	15,6	19,9*	10,5	14,1*	7,8	9,4*			7,3	7,6*	26' 2"
- 5	LC	17,0*	17,0*	15,4	16,1*	10,4	11,1*					8,7*	8,7*	22' 4"
.6			P				\sim							
1	Height 🛁 🖓 Can be s	slewed throu	gh 360° 🖞	In longitudin	al position of	undercarriag		∃Max. reach	* Limited	by hydr. capac	ity			

LH 22 C – Equipment VK8



Dimensions



Operating weight and ground pressure

The operating weight includes the basic machine with hydr. cab elevation, two-piece boom 17'3", stick with tipping kinematics 8'8" and sorting grab SG 20B / 0.65 yd³ perforated shells.

Weight	51,000 lb
Pad width	24"
Ground pressure	on request

tE		10	Oft	15	ift	20) ft	25	ft	30	ft	I	~Ŀ	
14			P		P		P		P		P		ŗ	
ft	Undercarriage		빤		Ľ				변	-50	Ľ		Ľ	ft in
25	LC			10,9*	10,9*							6,5*	6,5*	17' 7"
20	LC			11,1*	11,1*	10,0*	10,0*					5,6*	5,6*	22' 2"
15	LC	13,4*	13,4*	12,4*	12,4*	10,3*	10,3*					5,3*	5,3*	24'11"
10	LC	20,5*	20,5*	14,6*	14,6*	10,8	11,1*	7,8	9,3*			5,3*	5,3*	26' 4"
5	LC	22,7*	22,7*	15,7	16,3*	10,7	11,9*	7,6	9,4*			5,5*	5,5*	26' 8"
0	LC	25,6*	25,6*	15,7	16,7*	10,8	12,1*	7,5	9,2*			6,0*	6,0*	26' 1"
- 5	LC	27,2*	27,2*	16,2	16,9*	10,4	12,3*					7,0*	7,0*	24' 5"
-10	LC	28,2*	28,2*	15,6	16,7*	9,1*	9,1*					6,6*	6,6*	21' 5"
tC			-L					-						

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

Max. reach * Limited by hydr. capacity

Machine stabilities sorting grabs

LH 22 M - Max. material weight in lb/yd³

Grab	Shell type	Capacity		Mounting for direct mounting					Mounting for quick coupler SWA 48						
			4 pt.	outriggers o	lown	Blade + 2	2 pt. outriggers down			4 pt. outriggers down			Blade + 2 pt. outriggers down		
		yd3	GK9	GK10	VK8	GK9	GK10	VK8	GK9	GK10	VK8	GK9	GK10	VK8	
SG 20B	perforated	0.52	5,394	3,371	2,528	3,708	1,686	2,528	4,214	2,191	1,348	2,528	506	1,348	
SG 20B	perforated	0.65	4,214	2,528	1,854	2,865	1,180	1,854	3,203	1,517	843	1,854	-	843	
SG 20B	perforated	0.78	3,371	1,854	1,348	2,191	843	1,348	2,528	1,180	506	1,348	-	506	
SG 20B	perforated	0.92	2,697	1,517	1,011	1,686	506	1,011	2,023	843	-	1,180	-	-	
SG 20B	closed	0.52	5,394	3,203	2,360	3,708	1,517	2,360	4,214	2,023	1,180	2,528	-	1,180	
SG 20B	closed	0.65	4,045	2,360	1,686	2,697	1,011	1,686	3,203	1,517	843	1,854	-	843	
SG 20B	closed	0.78	3,371	1,854	1,348	2,191	843	1,348	2,528	1,180	506	1,348	-	506	
SG 20B	closed	0.92	2,697	1,517	1,011	1,686	506	1,011	2,023	843	-	1,011	-	-	

- = Load values at maximum outreach insufficient

LH 22 C - Max. material weight in lb/yd³

Grab	Shell type	Capacity	М	lounting for direct mounti LC undercarriage	ng	Moun	Mounting for quick coupler SWA 48 LC undercarriage				
		yd3	GK8	GK9	VK8	GK8	GK9	VK8			
SG 20B	perforated	0.52	4,551	2,023	2,528	3,371	843	1,348			
SG 20B	perforated	0.65	3,540	1,517	1,854	2,528	506	843			
SG 20B	perforated	0.78	2,697	1,011	1,348	2,023	-	506			
SG 20B	perforated	0.92	2,191	843	1,011	1,517	-	-			
SG 20B	closed	0.52	4,551	2,023	2,360	3,371	843	1,180			
SG 20B	closed	0.65	3,371	1,348	1,686	2,528	506	843			
SG 20B	closed	0.78	2,697	1,011	1,348	2,023	-	506			
SG 20B	closed	0.92	2,191	843	1,011	1,517	-	-			

- = Load values at maximum outreach insufficient

Attachments



Grab for loose ma	Grab for loose material Shells for loose material with cutting edge (without teeth)											
Grab model GMZ 26												
Width of shells	ft in 3'3"	4'1"	4'11"	5'9"								
Capacity	yd³ 1.57	1.96	2.35	2.75								
Weight	lb 2,490	2,655	2,855	3,095								



Multi-tine grab		open	semi-closed	closed, heart-shaped
Grab model GMM 35-4 (4 tines)				
Capacity	yd3	0.78	0.78	0.78
Weight	lb	2,780	2,920	3,130
Grab model GM 55B (5 tines)				
Capacity	yd3	0.52	0.52	0.52
Weight	lb	2,195	2,470	3,030
Grab model GMM 35-5 (5 tines)				
Capacity	yd3	0.78	0.78	0.78
Weight	lb	3,195	3,340	3,440



Sorting grab	pe	erforated			ribbed			closed			
Grab model SG 20B											
Width of shells	ft in 2'7	7" 3'3"	3'11"	4'7"				2'7"	3'3"	3'11"	4'7"
Capacity	yd3 0.5	52 0.65	0.78	0.92				0.52	0.65	0.78	0.92
Max. closing force	lbf 8,9	992 8,99	8,992	8,992				8,992	8,992	8,992	8,992
Weight incl.											
quick coupler mounting SWA 48	lb 2,0	095 2,19	2,295	2,390				2,125	2,225	2,315	2,415
Grab model SG 25B											
Width of shells	ft in 2'7	7" 3'3"	3'11"	4'7"	2'7"	3'3"	3'11"	2'7"	3'3"	3'11"	4'7"
Capacity	yd3 0.7	72 0.98	1.18	1.44	0.65	0.85	1.05	0.72	0.98	1.18	1.44
Max. closing force	lbf 13	3,489 13,4	89 13,489	13,489	13,489	13,489	13,489	13,489	13,489	13,489	13,489
Weight incl. quick coupler mounting SWA 48	lb 2,7	735 2,87	75 3,020	3,165	2,835	3.020	3,210	2,780	2,930	3,085	3,240



Load hook

Max. load	lb	27,560			
Height with suspension	ft in	3'1"			
Weight	lb	210			



Magnet devices / lifting magnets

•	- •	•	
Generator	kW	10	10
Electromagnet with sus	spension		
Power	kW	5.5	8.8
Diameter of magnet	ft in	3'9"	4'1"
Weight	lb	2,480*	3,120*

* only magnet plate

Equipment

🖚 📼 Undercarriage	22 M	22 C
Track pads, variants		+
Individual control outriggers	+	
Shuttle axle lock, automatic	•	
Outrigger monitoring system	+	
Dozer blade	+	
Tires, variants	+	
Protection for travel drive	+	
Protection for piston rods, outriggers	+	
Two lockable storage compartments	•	
Undercarriage, variants	+	

🕮 Uppercarriage	22 M	22 C
Uppercarriage right side light, 1 piece, LED	•	٠
Uppercarriage rear light, 2 pieces, LED	+	+
Refuelling system with filling pump	+	+
Generator	+	+
Main battery switch for electrical system	•	٠
Recycling package	+	+
Amber beacon, at uppercarriage, LED double flash	+	+
Protection for headlights	+	+
Protection for rear lights	+	+
Tool equipment, extended	+	+

J Hydraulic system	22 M	22 C
Electronic pump regulation	•	٠
Liebherr hydraulic oil from – 4 °F to +104 °F	•	٠
Liebherr hydraulic oil, biologically degradable	+	+
Magnetic rod in hydraulic tank	•	٠
Bypass filter	+	+
Preheating hydraulic oil	+	+
	-	
	22 M	22 C
Fuel anti-theft device	+ 22	- + 22 C
Fuel anti-theft device Automatic engine shut-down (time adjustable)	+ + 22	+
Fuel anti-theft device Automatic engine shut-down (time adjustable) Preheating fuel	+ + + 22	+ +
Fuel anti-theft device Automatic engine shut-down (time adjustable) Preheating fuel Preheating coolant*	+ + + 2	+ + +
Fuel anti-theft device Automatic engine shut-down (time adjustable) Preheating fuel	+ + + 22	+ +

≈⊌ Cooling system	2	22
Radiator, large-mesh, for dust-intensive operation	•	•
Reversible fan drive, fully automatic	+	+
Protective grid (close-mesh) in front of cooler intake, extendible	•	٠

🖓 Cab	22 M	22 C
Stabilizer, control lever, left console	+	
Stabilizer, proportional control on left joystick	٠	
Cab lights front, halogen	+	+
Cab lights front, halogen (under rain cover)	٠	٠
Cab lights front, LED	+	+
Cab lights front, LED (under rain cover)	+	+
Armrest adjustable	•	٠
Slewing gear brake Comfort, button on the left or right joystick	+	
Operator's seat Comfort	•	٠
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	•	٠
Joystick steering (max. 7.5 mph)	•	
Joystick and wheel steering (slim version)	+	
Cab elevation, hydraulic (LHC)	•	٠
Cab elevation, hydraulic with tilt function (LHC)	+	+
Cab elevation, hydraulic with connecting piece 3'3" (LHC)	+	+
Cab elevation, rigid (LFC)	+	+
Automatic air conditioning	٠	٠
Wheel steering (slim version)	+	
LiDAT, vehicle fleet management	•	٠
Proportional control	٠	٠
Radio Comfort, control via display with handsfree set	+	+
Preparation for radio installation	٠	٠
Back-up alarm (acoustic signal is emitted traveling backward, can not be switched off)	+	
Amber beacon, on cab, LED double flash	+	+
Windows made from impact-resistant laminated safety glass	+	+
Windscreen wiper, roof	+	+
Windshield wiper, entire windshield	٠	٠
FOPS top guard	+	+
FGPS front guard, tiltable	+	+
Sun visor	+	+
Left control console, folding	•	•

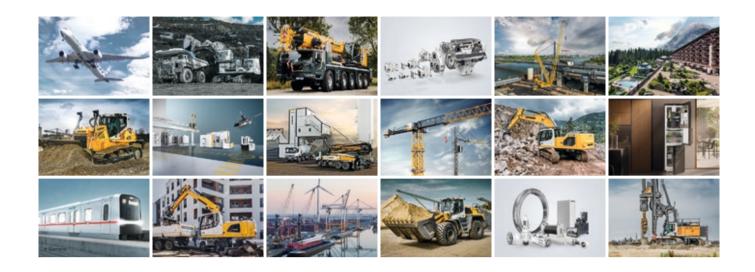
🖞 Equipment	22 M	22 C
Boom lights, 2 pieces, halogen	•	•
Boom lights, 2 pieces, LED	+	+
Stick lights, 2 pieces, halogen	•	•
Stick lights, 2 pieces, LED	+	+
Filter system for attachment	+	+
Height limitation and stick shutoff, electronically	+	+
Boom cylinder cushioning	+	+
Stick camera (with separate monitor), bottom side, with protection	+	+
Liebherr multi coupling system	+	+
Liebherr quick coupler, hydraulic	+	+
Pipe fracture safety valves hoist cylinders	•	•
Pipe fracture safety valves stick cylinders	•	•
Quick coupling system Solidlink	+	+
Protection for piston rods, hoist cylinder	+	+
Protection for piston rods, stick cylinder	+	+
Overload warning device	+	+

Complete machine	22 M	22 C
Lubrication		
Lubrication undercarriage, manually – decentralized (grease points)	٠	
Lubrication undercarriage, manually – centralized (one grease point)	+	
Central lubrication system for uppercarriage and equipment, automatically	•	•
Central lubrication system for undercarriage, automatically	+	
Centralized lubrication extended for attachment	+	+
Special coating		
Special coating, variants	+	+
Monitoring		
Rear view monitoring with camera	•	•
Side view monitoring with camera	٠	•

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

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

The Liebherr Group



Global and independent: more than 70 years of success

Liebherr was founded in 1949. With the development of the world's first mobile tower crane, Hans Liebherr laid the foundations of a successful family-run company which today comprises more than 150 companies on all continents with over 50,000 employees. The holding company of the Group is Liebherr-International AG in Bulle (Switzerland), whose shareholders are exclusively members of the Liebherr family.

Technology leadership and pioneering spirit

Liebherr regards itself as a pioneer. This spirit has enabled the company to make a decisive contribution to the technological history of many industries. Today, employees around the world still share the courage of the company founder to take new paths. They are all united by a passion for technology and fascinating products and the determination to perform outstanding work for their customers.

Widely diversified product program

Not only is Liebherr one of the biggest construction machine manufacturers in the world, it also provides high-quality, user-oriented products and services in a wide range of other areas. The product program includes the segments earthmoving machinery, material handling technology, deep foundation machines, mining, mobile and crawler cranes, tower cranes, concrete technology, maritime cranes, aerospace and transportation systems, gear technology and automation systems, refrigerators and freezers, components and hotels.

Customized solutions and maximum customer value

Liebherr solutions are characterized by maximum precision, outstanding implementation and exceptional longevity. Its mastery of key technologies enables the company to offer its customers customized solutions. For Liebherr, customer focus does not end with the product; it also encompasses a wide range of services that make a real difference.

www.liebherr.us

Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Always start and operate the engine in a well-ventilated area.
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with exhaust system.
- Do not idle the engine except as necessary.
- For more information go to www.P65warnings.ca.gov/diesel.



This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

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