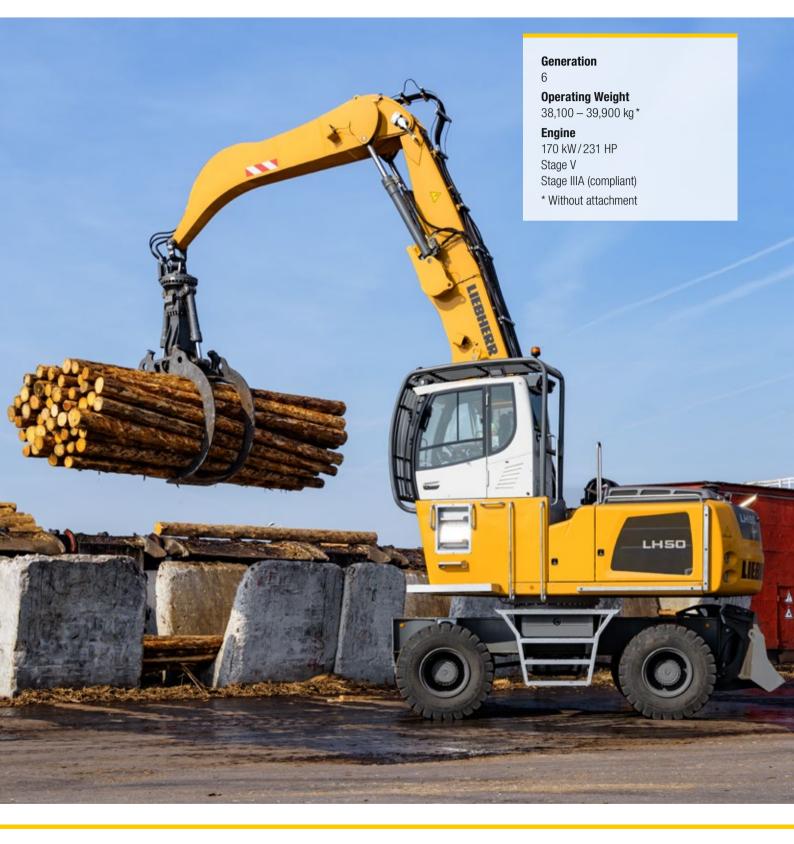
Product Information Log Loader

LH 50 M Timber

Litronic®





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



Well Thought Out to the Last Detail







Optimised Travel Motor

- Better performance with lower fuel consumption even on uphill grades
- Powerful, robust, reliable and quiet
- Protection for the travel drive components thanks to a robust steel frame



Rigid Cab Elevation LFC 120

 New, clever, space-saving access system with integrated treads and 10° inclination for easy access and more safety



Piston Rod Protection

- Robust construction for maximum protection ensuring a long service life in tough applications
- Available as an option for support cylinders as well as hoist and stick cylinders

Convincing in Operation



Performance

Increased Engine Output

Engine output has been increased from 160 kW to 170 kW compared to the predecessor models, giving the system more torque for more powerful movement. Furthermore, load peaks are compensated cleverly, meaning maximum torque is available at all times for maximum handling capacity.

Captivating Dynamics

The combination of 170 kW of engine output and a high pump delivery volume guarantees maximum acceleration and speed of working motions.

4-Wheel Steering

The standard 4-wheel steering provides great agility and manoeuvrability of the log loader, even in the tight space of a timber yard. Furthermore, the 4-wheel steering increases driving stability and improves the driving in one lane.

Economy

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.

Liebherr-Power Efficiency (LPE)

LPE optimises the interaction of the drive components in terms of efficiency and enables machine operation in the area of the lowest specific fuel use for less consumption and greater efficiency with the same performance.

Efficient Drive Operation

The electric swivel angle adjustment in the drive motor provides for more torque, maximum acceleration and higher traction. That allows a constantly high performance to be called up even on uphill gradients. Optimal adjustment of speed and delivery volume ensures impressive fuel efficiency even at maximum speed.

Reliability

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 knowledge 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 depth of in-house manufacturing guarantees maximum quality and ensures that components are optimally configured to each other.

Protective Devices

Especially in tough timber application the material handlers are used heavily. The optional protective devices extend the component service life and guarantee high machine availability with maximum safety for people and machine.

Intelligent Self Diagnostics

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

Comfort

Proportional Control

In timber yards, where space is tight, precision and fine control are especially important. The 4-way mini-joystick with its proportional control make for efficient use of the machine. The streamlined design and ergonomic form of the joystick further increase functionality directly in the hands of the operator for simple and efficient control.

Slewing Gear Brake Comfort

The standard slewing gear brake comfort control allows the selection between the mode manual, semiautomatic and automatic.

This standard slewing gear brake in the manual mode can be opened and closed with the button on the joystick. In the semiautomatic mode the slew gear brake can also be closed manually but automatically opened again when the uppercarriage is moved via the joystick control.

The automatic mode allows the slewing gear brake to be closed automatically when the predefined time, set by the operator, has passed and the uppercarriage has stopped moving. It can be opened automatically as soon as the uppercarriage is moved via the joystick control.

By opening and closing the slewing gear brake automatically the operator can work faster and more safely with less effort.

Maintainability

Service-based Machine Design

The service-based machine design guarantees short servicing times, thus minimising maintenance costs due to the time it saves. All the maintenance points are easily accessible 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.

SCRFilter for Stage V

The SCR filter system includes a DOC catalyst, an SCR catalyst and an SCR-coated particulate filter. The DOC catalyst requires no maintenance and the coated particulate filter is regenerated passively ensuring that the system is reliable and easy to use. The maintenance intervals can be extended to more than 4,500 operating hours.

Technical Data

Diesei Englite	i de la constante de
Rating per ISO 9249	170 kW (231 HP) at 1,800 RPM
Model	Liebherr D934
Туре	4 cylinder in-line
Bore/Stroke	122/150 mm
Displacement	7.0
Engine operation	4-stroke diesel
	Common-Rail
	turbo-charged and after-cooled
	reduced emissions
Air cleaner	dry-type air cleaner with pre-cleaner, primary
	and safety elements
Engine idling	sensor controlled
Electrical system	
Voltage	24 V
Batteries	2 x 180 Ah/12 V
Alternator	three-phase current 28 V/140 A
Stage V	
Harmful emissions values	according to regulation (EU) 2016/1628
Emission control	Liebherr-SCRFilter technology
Fuel tank	460
Urea tank	65 I
Stage IIIA (compliant)	
Harmful emissions values	in accordance with ECE-R.96 Power Band H
Fuel tank	460

Hydraulic System

Hydraulic pump	
for equipment	2 Liebherr axial piston variable displacement
and travel drive	pumps (double construction)
Max. flow	2 x 237 l/min.
Max. pressure	350 bar
for swing drive	reversible axial piston variable displacement pump, closed-loop circuit
Max. flow	144 l/min.
Max. pressure	370 bar
Hydraulic pump regulation and control	2 circuit Liebherr-Synchron-Comfort-system (LSC) with electronic engine speed sensing regulation, pressure and flow compensation, automatic oil flow optimizer
Hydraulic tank	285
Hydraulic system	585 I
Hydraulic oil filter	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 especially economical and environmen- tally friendly operation or for maximum material handling and heavy-duty jobs
S (Sensitive)	mode for precision work and lifting through very sensitive movements
E (Eco)	mode for especially economical and environ- mentally friendly operation
P (Power)	mode for high performance with low fuel con- sumption
P+ (Power-Plus)	mode for highest performance and for very heavy duty applications, suitable for continuous operation
Engine speed and	stepless alignment of engine output and
performance setting	hydraulic power via engine speed
Option	Tool Control: 20 preadjustable pump flows and pressures for add-on attachments

جيً⊷ Cooling System

Diesel engine water-cooled compact cooling for water, hydrau

compact cooling system consisting cooling unit for water, hydraulic oil and charge air with stepless thermostatically controlled fan

Hydraulic Controls

Power distribution	via control valves with integrated safety valves, simultaneous actuation of chassis and equip- ment. Swing drive in separate closed circuit					
Servo circuit						
Equipment and swing	with electro-hydraulic pilot control and propor- tional joystick levers					
Chassis	electroproportional via foot pedal					
Additional functions	via switch or electroproportional foot pedals					
Proportional control	proportionally acting transmitters on the joy- sticks for additional hydraulic functions					

C Swing Drive

Drive	Liebherr axial piston motor in a closed system, Liebherr planetary reduction gear
Swing ring	Liebherr, sealed race ball bearing swing ring,
	internal teeth
Swing speed	0 – 8.0 RPM stepless
Swing torque	84 kNm
Holding brake	wet multi-disc (spring applied, pressure released)
Operation holding brake	slewing gear brake Comfort

Operator's Cab

 in subpart under the ceiling, work headlights integrated in the ceiling, a door with a sliding window (can be opened on both sides), larg stowing and depositing possibilities, shock-absorbing suspension, sounddamping insuling, tinted laminated safety glass, separate shades for the sunroof window and windsor Operator's seat Comfort air cushioned operator's seat with 3D-adjust able armrests, headrest, lap belt, seat heate adjustable seat cushion inclination and lengt lockable horizontal suspension, automatic weight adjustment, adjustable suspension s ness, pneumatic lumbar vertebrae support a passive seat climatisation with active coal in addition to operator's seat comfort: active electronic weight adjustment (automatic readjustment), pneumatic low frequency suspension and active seat climatisation with active coal and ventilator Control system joysticks with control consoles and swivel set folding left control console Operation and displays Air-conditioning Air-conditioning automatic automatic and monitoring options, e.g. air conditioning con fuel consumption, machine and attachment parameters Air-conditioning 		
 able armrests, headrest, lap belt, seat heate adjustable seat cushion inclination and lengt lockable horizontal suspension, automatic weight adjustment, adjustable suspension a mess, pneumatic lumbar vertebrae support a passive seat climatisation with active coal in addition to operator's seat comfort: active electronic weight adjustment (automatic readjustment), pneumatic low frequency suspesion and active seat climatisation with active coal and ventilator Control system joysticks with control consoles and swivel sea folding left control consoles and swivel sea folding left control consoles and swivel sea folding left control consoles. Automatic atory, colour display with touchscreen, videor compatible, numerous setting, control and monitoring options, e.g. air conditioning con fuel consumption, machine and attachment parameters Air-conditioning Air-conditioning 		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, sounddamping insulat-
(Option) electronic weight adjustment (automatic re- adjustment), pneumatic low frequency susp sion and active seat climatisation with active coal and ventilator Control system joysticks with control consoles and swivel se folding left control console Operation and displays large high-resolution operating unit, selfexpla atory, colour display with touchscreen, videe compatible, numerous setting, control and monitoring options, e.g. air conditioning con fuel consumption, machine and attachment parameters Air-conditioning automatic air-conditioning, recirculated air fut tion, fast de-icing and demisting at the press a button, air vents can be operated via a me recirculated air and fresh air filters can be ea replaced and are accessible from the outsid		weight adjustment, adjustable suspension stiff- ness, pneumatic lumbar vertebrae support and passive seat climatisation with active coal
folding left control console Operation and displays large high-resolution operating unit, selfexpl, atory, colour display with touchscreen, vided compatible, numerous setting, control and monitoring options, e.g. air conditioning con fuel consumption, machine and attachment parameters Air-conditioning Air-conditioning automatic air-conditioning, recirculated air fution, fast de-icing and demisting at the press a button, air vents can be operated via a me recirculated air and fresh air filters can be ear replaced and are accessible from the outsid	(Option)	electronic weight adjustment (automatic re- adjustment), pneumatic low frequency suspen- sion and active seat climatisation with active coal and ventilator
atory, colour display with touchscreen, videor compatible, numerous setting, control and monitoring options, e.g. air conditioning con fuel consumption, machine and attachment parameters Air-conditioning automatic air-conditioning, recirculated air fution, fast de-icing and demisting at the press a button, air vents can be operated via a me recirculated air and fresh air filters can be ear replaced and are accessible from the outsid		joysticks with control consoles and swivel seat, folding left control console
tion, fast de-icing and demisting at the press a button, air vents can be operated via a me recirculated air and fresh air filters can be ea replaced and are accessible from the outsid		monitoring options, e.g. air conditioning control, fuel consumption, machine and attachment parameters
side temperatures, sensors for solar radiatio inside and outside temperatures		automatic air-conditioning, recirculated air func- tion, 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 out- side temperatures, sensors for solar radiation, inside and outside temperatures
Refrigerant R134a		
Global warming potential 1,430	Global warming potential	1,430
Quantity at 25 °C* 1,400 – 1,600 g	Quantity at 25 °C*	
CO ₂ equivalent* 2.002 – 2.288 t		2.002 – 2.288 t
Vibration emission **		
Hand/arm vibrations < 2.5 m/s ²		
		() E mo (a')
Measuring inaccuracy according with standard EN 12096:1997		

●=● Undercarriage

e enacioarnage	•
Drive	oversized two speed power shift transmission with additional creeper speed, Liebherr axial piston motor with functional brake valve on both sides
Travel speed	
Joystick and wheel steering	0 - 3.0 km/h stepless (creeper speed + transmission stage 1) 0 - 5.0 km/h stepless (transmission stage 1) 0 - 10.0 km/h stepless (creeper speed + transmission stage 2) 0 - 20.0 km/h stepless (transmission stage 2)
Driving operation	automotive driving using accelerator pedal, cruise control function: storage of variable accelerator pedal positions
Axles	71 t drive axles; manual or automatic hydrauli- cally controlled front axle oscillation lock
Four wheel steering	standard
Steering reversal control	standard
Service brake	two circuit travel brake system with accumulator dry and backlash-free drum brake
Holding brake	wet multi-disc (spring applied, pressure released)
Stabilization	stabilizer blade rear
Option	stabilizer blade rear and front

Equipment

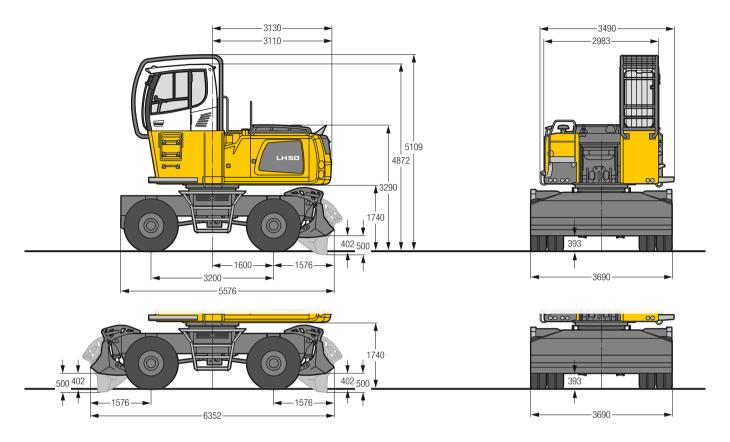
Туре	high-strength steel plates at highlystressed points for the toughest requirements. Complex and stable mountings of equipment and cylin- ders
Hydraulic cylinders	Liebherr cylinders with special seal system as well as shock absorption
Bearings	sealed, low maintenance

Complete Machine

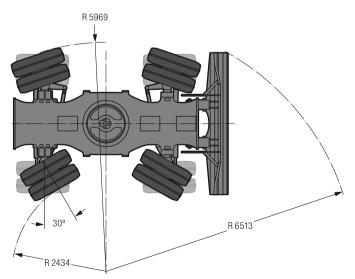
Lubrication	Liebherr central lubrication system for upper- carriage and equipment, automatically
Option	Liebherr central lubrication system for under- carriage, automatically
Steps system	safe and durable access system with anti-slip steps main components hot-galvanised

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

Dimensions



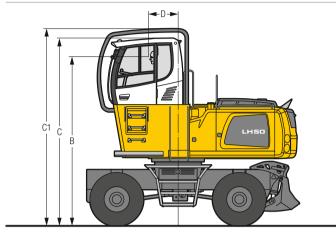
Turning Radius



Tyres 14.00-24

Choice of Cab Elevation

Cab Elevation LFC (Rigid Elevation)

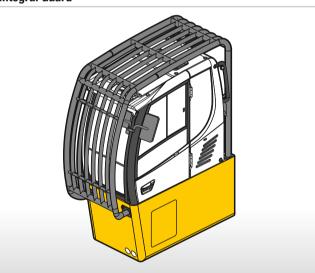


Increase type	LFC 120
Height	1,200 mm
В	4,400 mm
C	4,872 mm
C1	5,109 mm
D	770 mm
A rigid cab alovation has a fixed over level height. For all	ower transport beight, the shell of the cab

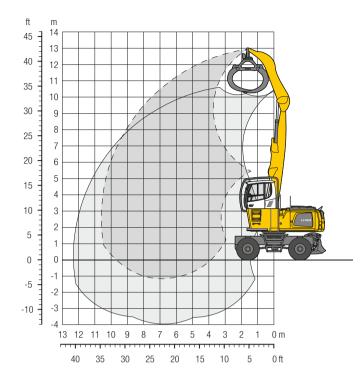
A rigid cab elevation has a fixed eye level height. For a lower transport height, the shell of the cab can be removed and replaced by a transport device. On this machine dimension C is 3,976 mm.

Cab Protection

Integral Guard



Equipment GA11



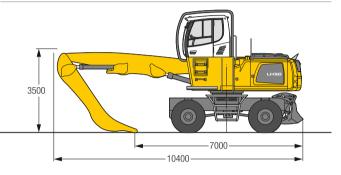
Operating Weight

The operating weight includes the basic machine with stabilizer blade, rigid cab elevation, 8 pneumatic tyres, straight boom 6.70 m, angled stick 4.30 m and wood grab GMH 50/ 2.50 m².

40,300 kg

Dimensions

Weight



•		3.0) m	4.5	5 m	6.0) m	7.5	5 m	9.0) m	10.	5 m	1		2
↓ ∕∕ m	Undercarriage		Ŀ		ŀ		Ь		Ь		Ľ		Ь		ľ	m
13.5	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down	-														
12.0	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down	11.4* 11.4* 11.4*	11.4* 11.4* 11.4*	9.3* 9.3* 9.3*	9.3* 9.3* 9.3*									8.9* 8.9* 8.9*	8.9* 8.9* 8.9*	4.7
10.5	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down			10.7* 10.7* 10.7*	10.7* 10.7* 10.7*	9.2* 9.2* 9.2*	9.2* 9.2* 9.2*							7.4* 7.4* 7.4*	7.4* 7.4* 7.4*	7.0
9.0	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down			11.3* 11.3* 11.3*	11.3* 11.3* 11.3*	9.6 10.3* 10.3*	10.3* 10.3* 10.3*	6.7 8.4 8.9*	8.1 8.9* 8.9*					5.6 6.8* 6.8*	6.8 6.8* 6.8*	8.4
7.5	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down			12.0* 12.0* 12.0*	12.0* 12.0* 12.0*	9.5 10.5* 10.5*	10.5* 10.5* 10.5*	6.7 8.3 8.9*	8.1 8.9* 8.9*	5.0 6.2 6.8	6.1 7.6 7.8*			4.7 5.8 6.4	5.7 6.5* 6.5*	9.4
6.0	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down	11.8* 11.8* 11.8*	11.8* 11.8* 11.8*	13.7* 13.7* 13.7*	13.7* 13.7* 13.7*	9.2 10.9* 10.9*	10.9* 10.9* 10.9*	6.5 8.1 8.9	7.9 9.1* 9.1*	4.9 6.2 6.7	6.0 7.5 7.8*			4.1 5.2 5.7	5.1 6.4 6.5*	10.0
4.5	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down	22.6* 22.6* 22.6*	22.6* 22.6* 22.6*	13.5 15.1* 15.1*	15.1* 15.1* 15.1*	8.7 10.9 11.5*	10.7 11.5* 11.5*	6.3 7.9 8.6	7.7 9.4* 9.4*	4.8 6.0 6.6	5.9 7.4 7.8*			3.9 4.8 5.3	4.7 5.9 6.5*	10.4
3.0	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down			12.4 15.6 16.1*	15.7 16.1* 16.1*	8.2 10.3 11.4	10.2 11.9* 11.9*	6.0 7.5 8.3	7.4 9.3 9.5*	4.7 5.8 6.4	5.8 7.2 7.7*	3.8 4.7 5.1	4.6 5.8 6.2*	3.7 4.6 5.1	4.6 5.7 6.1*	10.6
1.5	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down			11.7* 11.7* 11.7*	11.7* 11.7* 11.7*	7.9 9.8 10.9	9.8 11.8* 11.8*	5.8 7.3 8.0	7.2 9.0 9.3*	4.6 5.7 6.3	5.6 7.0 7.4*	3.7 4.6 5.1	4.6 5.6* 5.6*	3.7 4.6 5.1	4.6 5.6* 5.6*	10.5
0	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down			10.1* 10.1* 10.1*	10.1* 10.1* 10.1*	7.6 9.5 10.6	9.6 10.8* 10.8*	5.7 7.1 7.8	7.1 8.5* 8.5*	4.5 5.6 6.2	5.6 6.6* 6.6*			4.1 5.1 5.6	5.0 5.8* 5.8*	9.7
-1.5	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down															

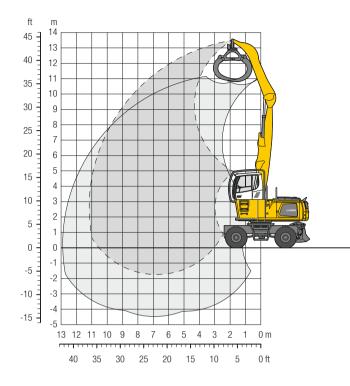
ln longitudinal position of undercarriage t Height ⊶ Can be slewed through 360°

🕮 Max. reach 🛛 * Limited by hydr. capacity

The lift capacities on the stick end without attachment are stated in metric tons (t) and 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 axie 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% (according to EN 474-5 in drive operation only 60%) 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. In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load

hook and a lift capacity chart.

Equipment GA11

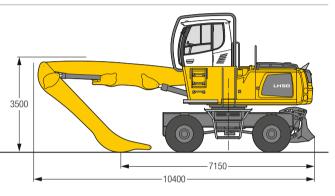


Operating Weight

The operating weight includes the basic machine with stabilizer blade, rigid cab elevation, 8 pneumatic tyres, straight boom 6.70 m, angled stick 4.90 m and wood grab GMH 50/ 2.50 m².

Dimensions

Weight



•		3.0) m	4.5	im	6.0) m	7.5	im	9.0	m	10.	5 m	P		2
↓	Undercarriage		J.		d,		d,		ď		Ľ		դ		b	
m 13.5	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down													11.8* 11.8* 11.8*	11.8* 11.8* 11.8*	m 1.9
12.0	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down			9.2* 9.2* 9.2*	9.2* 9.2* 9.2*									7.3* 7.3* 7.3*	7.3* 7.3* 7.3*	5.9
10.5	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down			9.7* 9.7* 9.7*	9.7* 9.7* 9.7*	8.8* 8.8* 8.8*	8.8* 8.8* 8.8*	6.8 7.0* 7.0*	7.0* 7.0* 7.0*	5.0				6.3 6.3* 6.3*	6.3* 6.3* 6.3*	7.8
9.0	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down			9.8* 9.8* 9.8* 10.0*	9.8* 9.8* 9.8* 10.0*	9.6* 9.6* 9.6* 9.7	9.6* 9.6* 9.6* 9.9*	6.8 8.5* 8.5* 6.8	8.3 8.5* 8.5* 8.2	5.0 6.2* 6.2* 5.1	6.1 6.2* 6.2* 6.1			4.9 5.8* 5.8* 4.2	5.8* 5.8* 5.8* 5.1	9.1
7.5	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down			10.0* 10.0* 10.0* 11.1*	10.0* 10.0* 10.0* 11.1*	9.9* 9.9*	9.9* 9.9*	8.5 8.6*	8.6* 8.6*	6.3 6.9	7.5* 7.5*	0.0	47	5.3 5.6*	5.6* 5.6*	10.0
6.0	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down			11.1* 11.1*	11.1* 11.1*	9.3 10.4* 10.4*	10.4* 10.4* 10.4*	6.6 8.3 8.8*	8.0 8.8* 8.8*	5.0 6.2 6.8	6.1 7.6 7.6*	3.9 4.8 5.3	4.7 5.9 6.1*	3.8 4.7 5.2	4.7 5.6* 5.6*	10.6
4.5	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down	14.2* 14.2* 14.2*	14.2* 14.2* 14.2*	13.9 14.4* 14.4*	14.4* 14.4* 14.4*	8.9 11.1 11.1*	10.9 11.1* 11.1*	6.4 7.9 8.7	7.8 9.1* 9.1*	4.8 6.0 6.6	5.9 7.4 7.7*	3.8 4.8 5.2	4.7 5.9 6.5*	3.5 4.4 4.8	4.4 5.5 5.7*	11.0
3.0	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down	5.8* 5.8* 5.8*	5.8* 5.8* 5.8*	12.7 15.7* 15.7*	15.7* 15.7* 15.7*	8.4 10.4 11.5	10.3 11.7* 11.7*	6.1 7.6 8.3	7.5 9.3* 9.3*	4.7 5.8 6.4	5.8 7.2 7.7*	3.7 4.7 5.1	4.6 5.8 6.3*	3.4 4.3 4.7	4.2 5.3 5.6*	11.2
1.5	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down	2.7* 2.7* 2.7*	2.7* 2.7* 2.7*	11.8 14.8 15.9*	15.0 15.9* 15.9*	7.9 9.9 10.9	9.8 11.8* 11.8*	5.8 7.3 8.0	7.2 9.0 9.3*	4.5 5.7 6.2	5.6 7.0 7.5*	3.7 4.6 5.0	4.5 5.7 5.9*	3.4 4.2 4.6	4.2 5.2* 5.2*	11.1
0	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down			10.7* 10.7* 10.7*	10.7* 10.7* 10.7*	7.6 9.5 10.5	9.5 11.2* 11.2*	5.6 7.0 7.8	7.0 8.8* 8.8*	4.4 5.5 6.1	5.5 6.9 6.9*	3.6 4.5 5.0	4.5 5.2* 5.2*	3.6 4.5 4.9	4.5 5.1* 5.1*	10.5
-1.5	Stabilizers raised (drive operation) Stabilizers raised Stabilizer blade down					7.4 9.3 9.7*	9.4 9.7* 9.7*	5.5 6.9 7.6*	6.9 7.6* 7.6*					4.9 6.1 6.7*	6.1 6.7* 6.7*	8.3

t Height ⊶ Can be slewed through 360°

ln longitudinal position of undercarriage

🕮 Max. reach 🛛 * Limited by hydr. capacity

The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/-15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75% (according to EN 474-5 in drive operation only 60%) 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. In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load

hook and a lift capacity chart.

Equipment

●= Undercarriage

Stabilizer and dozer blade, rear	•
Stabilizer and dozer blade, rear and front	+
4-wheel steering	٠
Trailer coupling	+
Mudguards (rear and front)	+
Shuttle axle lock, automatic	٠
Protection for oscillating axle cylinders	+
Two lockable storage compartments	•

Hydraulic System

Electronic pump regulation	•
Liebherr hydraulic oil from -20 °C to +40 °C	•
Liebherr hydraulic oil, biologically degradable	+
Magnetic rod in hydraulic tank	•
Bypass filter	+
Preheating hydraulic oil	+



Generation Uppercarriage

Uppercarriage right side light, 1 piece, LED	•
Railing on uppercarriage	+
Main battery switch for electrical system	•
Amber beacon, at uppercarriage, LED double flash	+
Protection for counterweight (both sides)	+
Protection for headlights	+
Protection for uppercarriage (both sides)	+
Protection for rear lights	+
Tool equipment, extended	•

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

$\approx \overset{\sharp}{\sim}$ Cooling System

Radiator, large-mesh, for dust-intensive operation	•
Reversible fan drive, fully automatic	+
Protective grid in front of cooler intake	٠

Operator's Cab

•	
Stabilizer, control lever, left console	+
Stabilizer, proportional control on left joystick	•
Front headlights integral protective grid, left side, halogen	+
Front headlights integral protective grid, left side, LED	+
Cab lights rear, halogen	+
Cab lights rear, LED	+
Cab lights front, halogen	•
Cab lights front, LED	+
Armrest adjustable	•
Slewing gear brake Comfort, button on the left or right joystick	•
Driver profile, personalised (max. 5 drivers)	+
Operator's seat Comfort	•
Operator's seat Premium	+
Driving alarm (acoustic signal is emitted during travel, can be switched ON/OFF)	+
Fire extinguisher	+
Horn, button on left joystick	•
Joystick and wheel steering (slim version)	•
Cab elevation, rigid (LFC)	•
Automatic air conditioning	•
LiDAT, vehicle fleet management	•
Proportional control	•
Radio Comfort, control via display with handsfree set	+
Preparation for radio installation	•
Amber beacon, on cabin, LED double flash	+
Windows made from impact-resistant laminated safety glass	+
Windscreen wiper, roof	+
Windshield wiper, entire windscreen	•
Integral guard	•
Sun visor	+
Left control console, folding	•

Equipment

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	•
Pressure warning mechanism hoist cylinder	•
Filter system for attachment	+
Electronic lift limitation	+
Boom cylinder cushioning	•
Stick camera (with separate monitor), bottom side, with protection	+
Load torque limitation	+
Pipe fracture safety valves hoist cylinders	•
Pipe fracture safety valves stick cylinders	•
Protection for piston rods, hoist cylinder	+
Protection for piston rods, stick cylinder	+
Retract stick without pressure	+
Overload warning device	+

Complete Machine

Lubrication	
Lubrication undercarriage, manually – decentralised (grease points)	•
Central lubrication system for uppercarriage and equipment, automatically	•
Central lubrication system for undercarriage, automatically	+
Central lubrication system, extension for attachment	+
Special coating	
Special coating, variants	+
Monitoring	
Rear view monitoring with camera	•
Side view monitoring with camera	•

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



Wood Grab

Grab model GMH 50 round-sha	ped (overlapping, hori	zontal cylinders	3)			
Size	m ² 2.50)	2.50	2.80	3.20	
Cutting width	mm 870		1,000	1,000	1,000	
Height of grab, closed	mm 2,41	6	2,416	2,521	2,649	
Weight	kg 2,10	0	2,175	2,260	2,315	



Wood Grab

Grab model GMH 50 heart-shaped (tip-to-tip closing, straight design, horizontal cylinders)							
Size	m ² 2.20	2.50	2.80	3.20			
Cutting width	mm 870	1,000	1,000	1,000			
Height of grab, closed	mm 2,606	2,737	2,852	2,986			
Weight	kg 2,190	2,250	2,340	2,380			



Wood Grab

Grab model GMH 50 combi-shaped (tip-to-tip closing, horizontal cylinders)						
Size	m ²	3.20	3.20			
Cutting width	mm	870	1,000			
Height of grab, closed	mm	2,766	2,766			
Weight	kg	2,280	2,325			



Wood Grab

Grab mode	I GMH 80 round-shaped	(complete	overlapping.	vertical cylinders)	

Grad model GMH 80 round-snaped (complete overlapping, vertical cylinders)								
Size	m² 1.60	0	1.90	2.20	2.50			
Cutting width	mm 870)	870	870	870			
Height of grab, closed	mm 2,90	08	2,984	3,062	3,140			
Weight	kg 2,26	60	2,305	2,340	2,380			