LH 26 M Timber Litronic

LIEBHERR

Material handling machine

Generation
6

Operating weight
23,500 – 26,000 kg *

Engine
125 kW / 170 HP
Stage V / Tier 4 Final
129 kW / 175 HP
Stage IIIA (compliant)

* 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 26 M Timber Litronic

Operating weight
23,500 – 26,000 kg *
Engine
125 kW / 170 HP
Stage V / Tier 4 Final
129 kW / 175 HP
Stage IIIA (compliant)

* Without attachment

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

Compact dimensions
- Extremely small front and rear swivel radius for constricted locations

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

Outstanding dynamics and engine performance
The engine performance of 125 or 129 kW delivers high torque to the system for fast acceleration and powerful movements. In combination with the high pump flow, this guarantees fast, dynamic work movements and therefore maximum handling capacity.

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.

Optimised undercarriage concept for trailer operation
The combination of a log loader and trailer is the optimal choice for longer distances. Thanks to the new undercarriage concept with 2-point / blade support, the material handling capacity is increased significantly in trailer operation. The 2-point outrigger guarantees maximum stability and high lift capacities during loading and unloading of the trailer across the entire slewing range. As a result, more logs can be handled per work cycle and productivity is increased. The blade can also be used for clearing and thus increases safety in the timber yard.

Economy

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.

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.

Convincing in operation

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, 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.

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.

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 slewing 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 will open 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.

SCRT for stage V
The newly developed SCRT emissions purification system includes a DOC catalytic converter, a particulate filter and an SCR catalytic converter, ensuring that it reduces harmful emissions to a minimum. The DOC catalytic converter requires no maintenance and the particulate filter is actively regenerated. This enables the maintenance intervals to be extended to more than 3000 operating hours.

Technical data

Diesel engine

Rating per ISO 9249	125 kW (170 HP) at 1,800 RPM (FPT) 129 kW (175 HP) at 1,800 RPM (Cummins)
Model	
Stage V / Tier 4 Final	D924 – FPT motor designed for Liebherr
Stage IIIA (compliant)	Cummins QSB4.5
Type	4 cylinder in-line
Bore / Stroke	104 / 132 mm (FPT) 107 / 124 mm (Cummins)
Displacement	4.5 l
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 135 Ah / 12 V
Alternator	Three-phase current 28 V / 140 A (FPT) Three-phase current 28 V / 90 A (Cummins)
Stage V	
Harmful emissions values	According to regulation (EU) 2016/1628
Emission control	Liebherr-SCRT technology
Fuel tank	368 l
Urea tank	46 l
Stage IIIA (compliant)	
Harmful emissions values	In accordance with ECE-R.96 Power Band I
Fuel tank	368 l
Tier 4 Final	
Harmful emissions values	In accordance with 40CFR1039 (EPA) / 13CCR (CARB)
Emission control	Liebherr-SCR technology
Option	Liebherr particle filter
Fuel tank	368 l
Urea tank	46 l

Cooling system

Diesel engine	Water-cooled 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

Hydraulic controls

Power distribution	Via control valves with integrated safety valves, simultaneous and independent actuation of chassis, swing drive and equipment
Servo circuit	
Equipment and swing	With hydraulic pilot control and proportional joystick levers
Chassis	Electro-proportional via foot pedal
Additional functions	Via switch or electro-proportional foot pedals
Proportional control	Proportionally acting transmitters on the joysticks for additional hydraulic functions

Hydraulic system

Hydraulic pump	
For equipment and travel drive	Liebherr axial piston variable displacement pump
Max. flow	390 l/min.
Max. pressure	350 bar
Hydraulic pump regulation and control	Liebherr-Synchron-Comfort-system (LSC) with electronic engine speed sensing regulation, pressure and flow compensation, torque controlled swing drive priority
Hydraulic tank	155 l
Hydraulic system	350 l
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 environmentally friendly operation or for maximum material handling and heavy-duty jobs
S (Sensitive)	Mode for precision work and lifting through very sensitive movements
E (Eco)	Mode for especially economical and environmentally friendly operation
P (Power)	Mode for high performance with low fuel consumption
P+ (Power-Plus)	Mode for highest performance and for very heavy duty applications, suitable for continuous operation
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 pressures 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	53 kNm
Holding brake	Wet multi-disc (spring applied, pressure released)
Option	Slewing gear brake Comfort

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 armrests, headrest, lap belt, seat heater, adjustable seat cushion inclination and length, lockable horizontal suspension, automatic weight adjustment, adjustable suspension stiffness, pneumatic lumbar vertebrae support and passive seat climatisation with active coal
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 climatisation 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, colour display with touchscreen, video-compatible, numerous settings, 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
Refrigerant	R134a
Global warming potential	1,430
Vibration emission*	
Hand / arm vibrations	< 2.5 m/s²
Whole-body vibrations	< 0.5 m/s²
Measuring inaccuracy	According with standard EN 12096:1997

Undercarriage

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 – 3.5 km/h stepless (creeper speed + transmission stage 1) 0 – 7.0 km/h stepless (transmission stage 1) 0 – 13.0 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	60 t drive axles; manual or automatic hydraulically controlled front axle oscillation lock
Four wheel steering	Standard
Steering reversal control	Standard
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	Stabilizer blade rear
Option	Stabilizer blade rear and front Stabilizer blade rear + 2 point outriggers front

Equipment

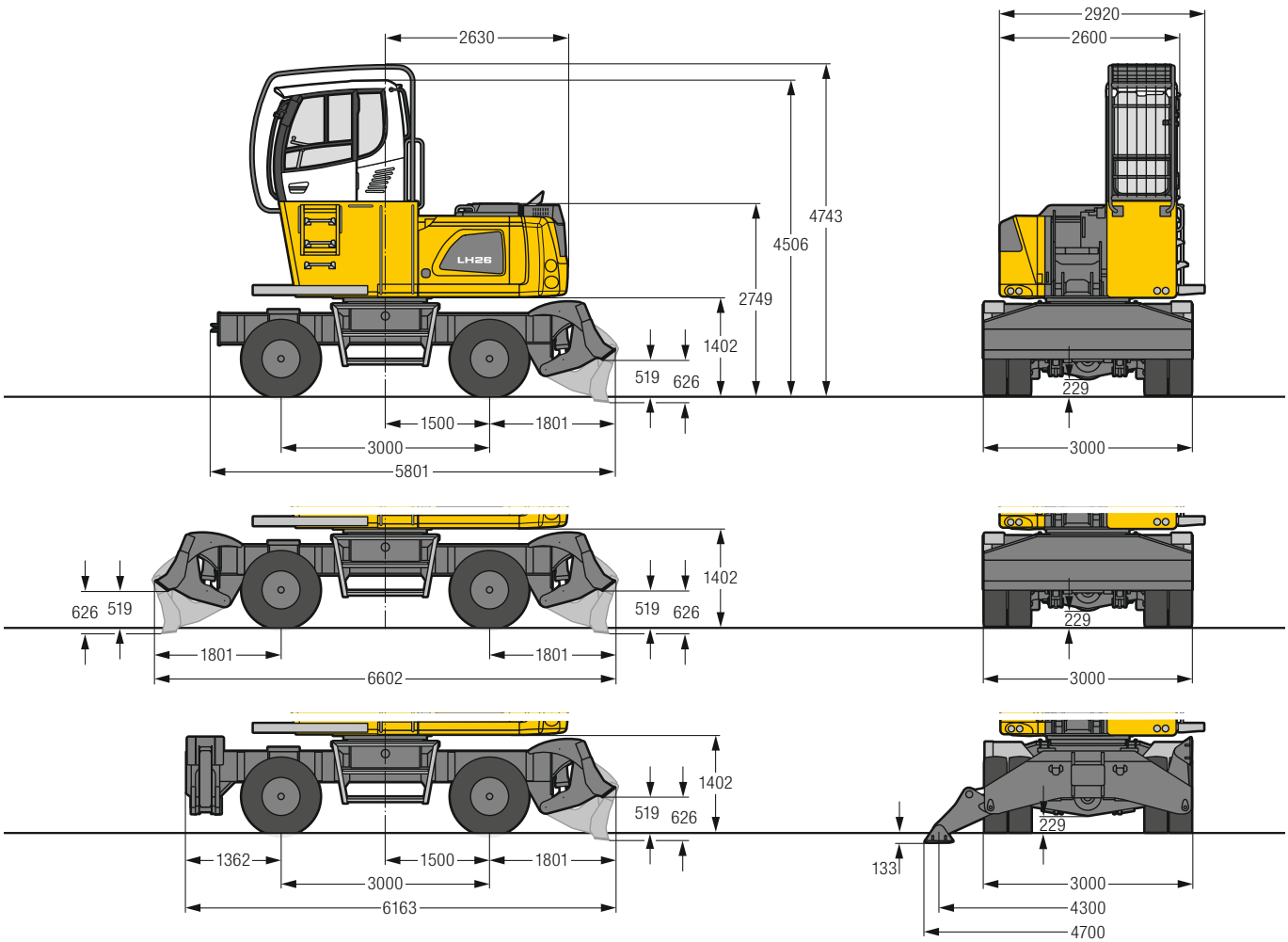
Type	High-strength steel plates at highly-stressed points for the toughest requirements. Complex and stable mountings of equipment and cylinders
Hydraulic cylinders	Liebherr cylinders with special sealing and guide system and, depending on cylinder type, shock absorption
Bearings	Sealed, low maintenance

Complete machine

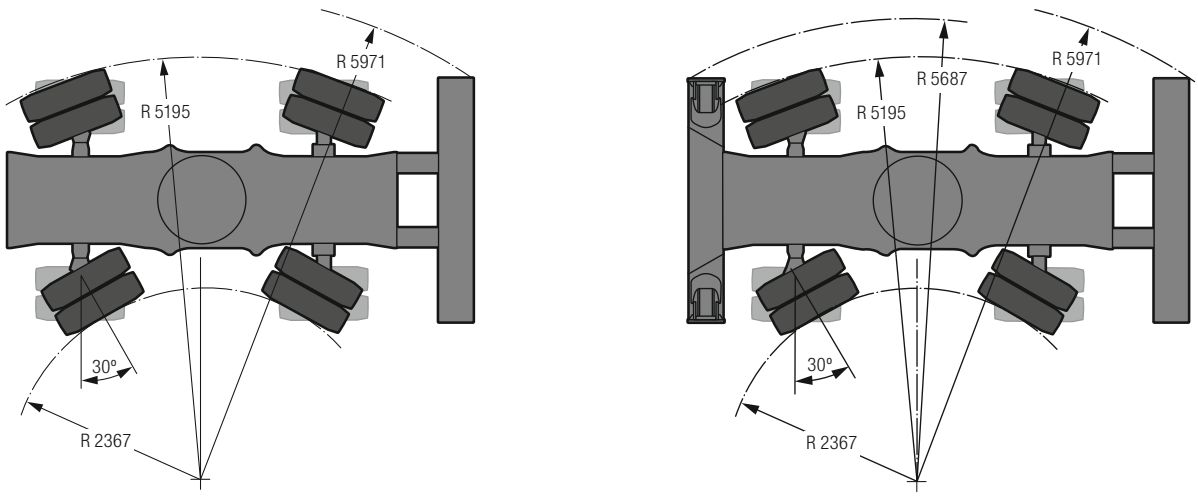
Lubrication	Liebherr central lubrication system for uppercarriage and equipment, automatically
Option	Liebherr central lubrication system for undercarriage, automatically
Steps system	Safe and durable access system with anti-slip steps; main components hot-galvanised
Noise emission	
ISO 6396 (Stage V)	70 dB(A) = L_{pA} (inside cab)
2000/14/EC (Stage V)	101 dB(A) = L_{WA} (surround noise)
ISO 6396 (Stage IIIA compliant)	70 dB(A) = L_{pA} (inside cab)
2000/14/EC (Stage IIIA compliant)	103 dB(A) = L_{WA} (surround noise)
ISO 6396 (Tier 4 Final)	70 dB(A) = L_{pA} (inside cab)
2000/14/EC (Tier 4 Final)	101 dB(A) = L_{WA} (surround noise)

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

Dimensions

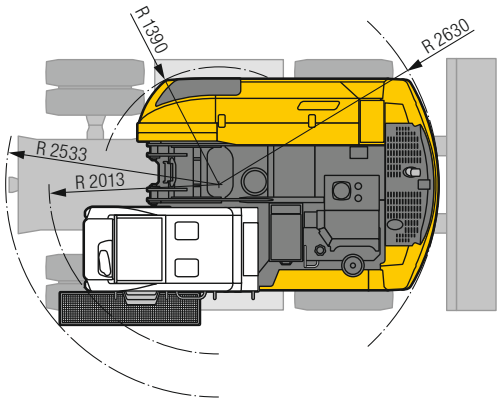


Turning radiuses



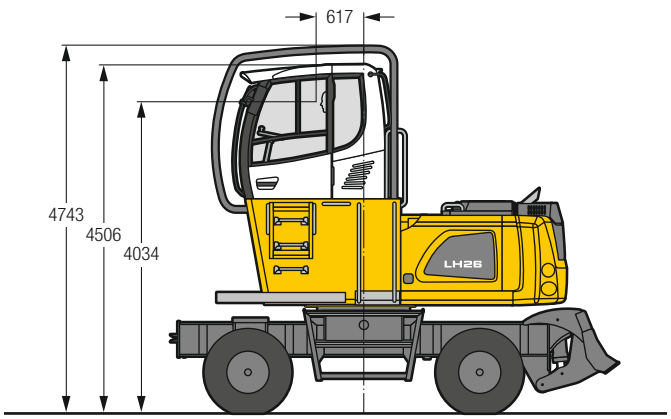
Tyres 12.00-20

Slewing radius



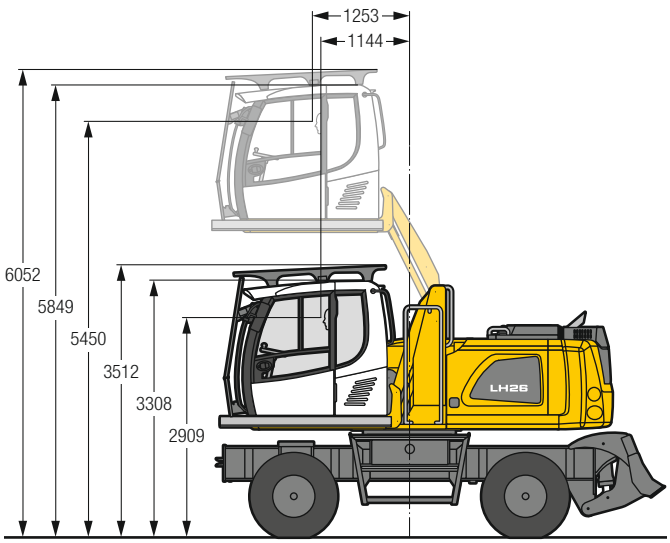
Choice of cab elevation

Cab elevation LFC 120 (rigid elevation)



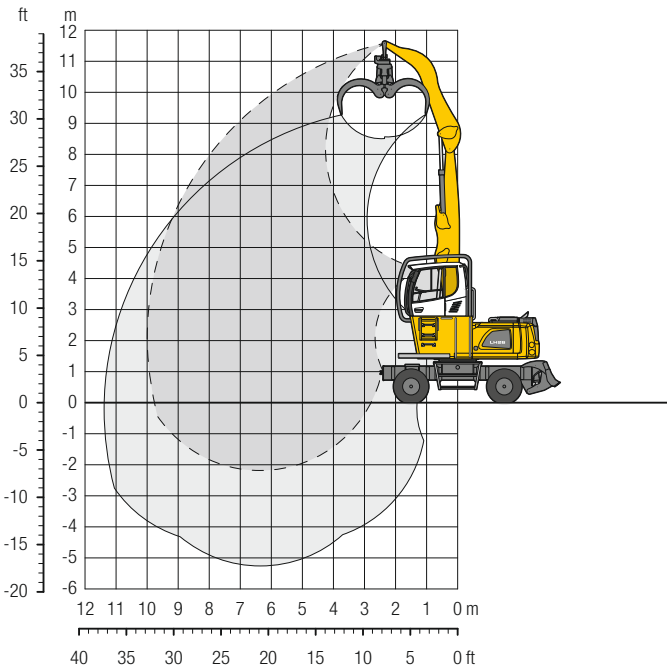
A rigid cab elevation has a fixed eye level height. For a lower transport height, the shell of the cab can be removed and replaced by a transport device. The dimension 4,506 mm is in this machine design for all rigid cab elevations 3,610 mm.

Cab elevation LHC 255 (hydraulic elevation)



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

Equipment GA10



Operating weight

The operating weight includes the basic machine with stabilizer blade, rigid cab elevation, 8 pneumatic tyres, straight boom 6.10 m, angled stick 4.00 m and wood grab GM 20B / 1.30 m².

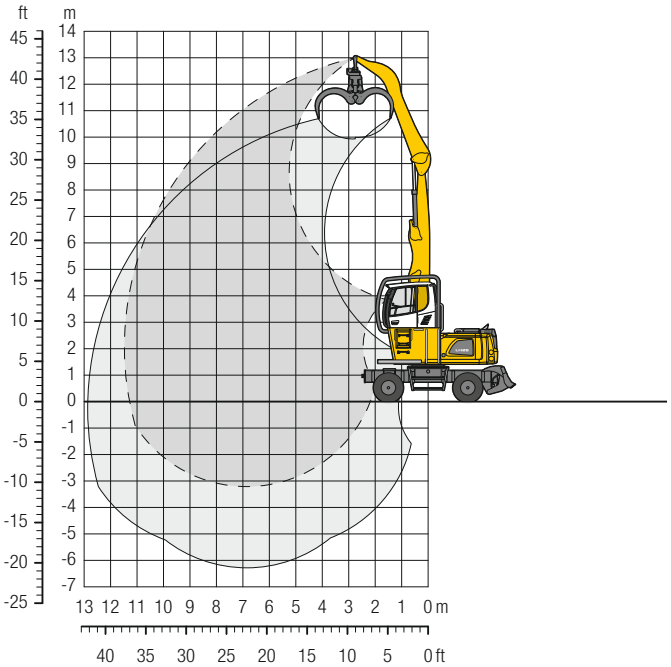
Weight	25,100 kg

		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m			
m	Undercarriage														m
12.0	Stabilizers raised (drive operation)														
	Stabilizers raised														
	Stabilizer blade down														
10.5	Stabilizers raised (drive operation)			6.5	7.0*									5.2	5.8*	
	Stabilizers raised			7.0*	7.0*									5.8*	5.8*	5.1
	Stabilizer blade down			7.0*	7.0*									5.8*	5.8*	
9.0	Stabilizers raised (drive operation)			6.7	8.4*	4.2	5.7							3.2	4.3	
	Stabilizers raised			8.3	8.4*	5.3	7.0*							3.9	4.9*	7.1
	Stabilizer blade down			8.4*	8.4*	5.6	7.0*							4.2	4.9*	
7.5	Stabilizers raised (drive operation)			6.7	9.0*	4.2	5.7	2.9	4.0					2.4	3.3	
	Stabilizers raised			8.3	9.0*	5.3	7.2	3.7	5.0					3.0	4.2	8.3
	Stabilizer blade down			8.9	9.0*	5.6	7.6*	3.9	6.6*					3.3	4.5*	
6.0	Stabilizers raised (drive operation)			6.5	9.0	4.1	5.6	2.9	4.0	2.1	2.9			2.1	2.9	
	Stabilizers raised			8.1	9.6*	5.1	7.0	3.6	4.9	2.7	3.7			2.6	3.6	9.2
	Stabilizer blade down			8.7	9.6*	5.5	7.8*	3.9	6.6*	2.9	5.0*			2.8	4.3*	
4.5	Stabilizers raised (drive operation)	11.8	12.8*	6.1	8.6	3.9	5.4	2.8	3.9	2.1	2.9			1.9	2.6	
	Stabilizers raised	12.8*	12.8*	7.6	10.6*	4.9	6.8	3.5	4.8	2.6	3.6			2.3	3.2	9.7
	Stabilizer blade down	12.8*	12.8*	8.2	10.6*	5.3	8.2*	3.8	6.8*	2.8	5.6*			2.5	4.3*	
3.0	Stabilizers raised (drive operation)	7.4*	7.4*	5.6	8.0	3.7	5.2	2.7	3.7	2.0	2.9			1.7	2.5	
	Stabilizers raised	7.4*	7.4*	6.9	10.0	4.6	6.5	3.3	4.7	2.6	3.6			2.2	3.1	10.0
	Stabilizer blade down	7.4*	7.4*	7.5	11.6*	5.0	8.6*	3.6	6.8*	2.8	5.5*			2.4	4.4*	
1.5	Stabilizers raised (drive operation)	2.1*	2.1*	5.1	7.5	3.5	4.9	2.6	3.6	2.0	2.8			1.7	2.4	
	Stabilizers raised	2.1*	2.1*	6.4	9.3	4.3	6.1	3.2	4.5	2.5	3.5			2.1	3.0	10.0
	Stabilizer blade down	2.1*	2.1*	6.9	11.8*	4.7	8.6*	3.5	6.7*	2.7	5.3*			2.3	4.2*	
0	Stabilizers raised (drive operation)	3.0*	3.0*	4.9	7.2	3.3	4.8	2.5	3.5	1.9	2.7			1.7	2.5	
	Stabilizers raised	3.0*	3.0*	6.1	9.0	4.1	5.9	3.1	4.4	2.4	3.4			2.2	3.1	9.8
	Stabilizer blade down	3.0*	3.0*	6.6	9.6*	4.5	8.0*	3.3	6.2*	2.6	4.6*			2.4	3.7*	
-1.5	Stabilizers raised (drive operation)			4.8	7.1	3.2	4.7	2.4	3.5					2.0	2.9	
	Stabilizers raised			6.0	8.5*	4.1	5.9	3.0	4.3					2.6	3.6	8.6
	Stabilizer blade down			6.5	8.5*	4.4	6.7*	3.3	5.1*					2.8	3.9*	
-3.0	Stabilizers raised (drive operation)															
	Stabilizers raised															
	Stabilizer blade down															

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

The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/– 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75% (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 6.60 m, angled stick 5.00 m and wood grab GM 20B / 1.30 m².

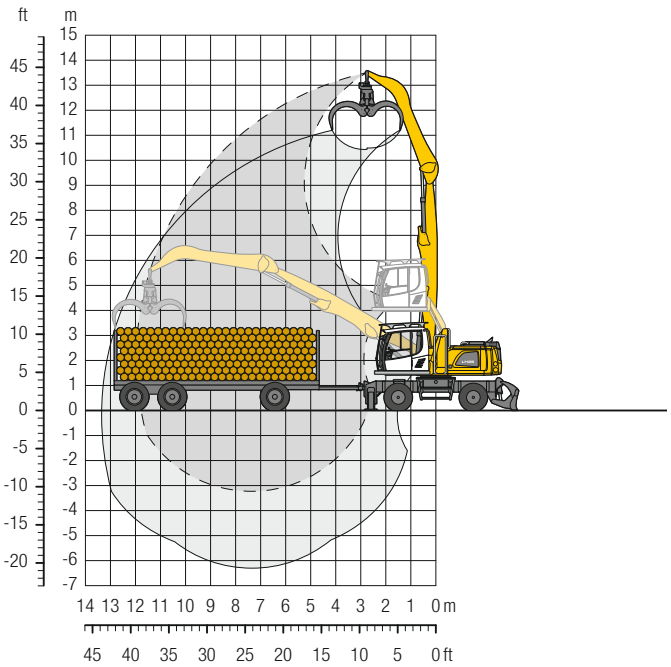
Weight	25,300 kg

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				m
	Stabilizers raised (drive operation)			6.2*	6.2*									4.8	4.9*	
12.0	Stabilizers raised			6.2*	6.2*									4.9*	4.9*	5.5
	Stabilizer blade down			6.2*	6.2*									4.9*	4.9*	
	Stabilizers raised (drive operation)					4.3	5.9	3.0	4.0					2.8	3.9	
10.5	Stabilizers raised					5.4	6.0*	3.7	4.3*					3.6	4.0*	7.6
	Stabilizer blade down					5.8	6.0*	4.0	4.3*					3.8	4.0*	
	Stabilizers raised (drive operation)					4.4	6.0	3.0	4.1	2.2	3.0			2.1	3.0	
9.0	Stabilizers raised					5.5	6.7*	3.8	5.2	2.7	3.7			2.7	3.6*	9.1
	Stabilizer blade down					5.9	6.7*	4.1	5.8*	2.9	3.8*			2.9	3.6*	
	Stabilizers raised (drive operation)					4.4	5.9	3.0	4.1	2.2	3.0			1.8	2.5	
7.5	Stabilizers raised					5.5	6.9*	3.8	5.1	2.8	3.8			2.2	3.1	10.1
	Stabilizer blade down					5.8	6.9*	4.1	6.0*	3.0	5.3*			2.4	3.4*	
	Stabilizers raised (drive operation)			6.7	7.5*	4.2	5.8	3.0	4.0	2.2	3.0	1.6	2.3	1.6	2.2	
6.0	Stabilizers raised			7.5*	7.5*	5.3	7.2	3.7	5.0	2.7	3.7	2.0	2.9	1.9	2.8	10.8
	Stabilizer blade down			7.5*	7.5*	5.7	7.2*	4.0	6.2*	2.9	5.4*	2.2	4.1*	2.1	3.3*	
	Stabilizers raised (drive operation)			6.3	8.8	4.0	5.5	2.8	3.9	2.1	2.9	1.6	2.3	1.4	2.0	
4.5	Stabilizers raised			7.8	9.4*	5.0	6.9	3.5	4.9	2.6	3.7	2.0	2.8	1.8	2.5	11.2
	Stabilizer blade down			8.4	9.4*	5.4	7.7*	3.8	6.4*	2.8	5.4*	2.2	4.6*	1.9	3.3*	
	Stabilizers raised (drive operation)	10.6	16.6	5.6	8.1	3.7	5.2	2.7	3.7	2.0	2.8	1.6	2.2	1.4	1.9	
3.0	Stabilizers raised	13.2	17.0*	7.0	10.1	4.6	6.5	3.3	4.6	2.5	3.5	2.0	2.8	1.7	2.4	11.4
	Stabilizer blade down	14.5	17.0*	7.6	11.0*	5.0	8.2*	3.6	6.6*	2.7	5.5*	2.1	4.5*	1.8	3.4*	
	Stabilizers raised (drive operation)	2.2*	2.2*	5.0	7.4	3.4	4.9	2.5	3.5	1.9	2.7	1.5	2.2	1.3	1.9	
1.5	Stabilizers raised	2.2*	2.2*	6.3	9.3	4.2	6.1	3.1	4.4	2.4	3.4	1.9	2.7	1.7	2.4	11.5
	Stabilizer blade down	2.2*	2.2*	6.8	11.6*	4.6	8.5*	3.4	6.6*	2.6	5.4*	2.1	4.3*	1.8	3.5*	
	Stabilizers raised (drive operation)	2.3*	2.3*	4.7	7.0	3.2	4.6	2.4	3.4	1.8	2.6	1.5	2.1	1.3	1.9	
0	Stabilizers raised	2.3*	2.3*	5.8	7.7*	4.0	5.8	2.9	4.2	2.3	3.3	1.8	2.7	1.7	2.4	11.3
	Stabilizer blade down	2.3*	2.3*	6.4	7.7*	4.3	8.2*	3.2	6.4*	2.5	5.0*	2.0	3.9*	1.8	3.1*	
	Stabilizers raised (drive operation)			4.5	6.8	3.1	4.5	2.3	3.3	1.8	2.6	1.5	2.1	1.4	2.1	
-1.5	Stabilizers raised			5.6	7.0*	3.8	5.6	2.8	4.1	2.2	3.2	1.8	2.7	1.8	2.6	10.6
	Stabilizer blade down			6.2	7.0*	4.2	7.3*	3.1	5.7*	2.4	4.4*	2.0	3.1*	2.0	2.9*	
	Stabilizers raised (drive operation)					3.0	4.5	2.3	3.3					2.0	2.9	
-3.0	Stabilizers raised					3.8	5.6	2.8	4.1					2.5	3.6	8.3
	Stabilizer blade down					4.1	5.7*	3.1	4.5*					2.7	3.8*	

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

The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/– 15°) are specified over the 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 GA12



Operating weight

The operating weight includes the basic machine with 2 point / stabilizer blade, hydr. cab elevation, 8 pneumatic tyres, straight boom 7.10 m, angled stick 5.00 m and wood grab GM 20B / 1.30 m².

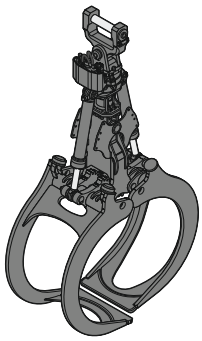
Weight	27,600 kg

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				m
12.0	Stabilizers raised (drive operation)			6.6*	6.6*	4.5	5.2*							3.9	4.5*	
	Stabilizers raised			6.6*	6.6*	5.2*	5.2*							4.5*	4.5*	6.4
	Stabilizer blade down			6.6*	6.6*	5.2*	5.2*							4.5*	4.5*	
10.5	Stabilizers raised (drive operation)					4.7	5.9	3.2	4.1					2.6	3.3	
	Stabilizers raised					5.8	6.3*	4.0	5.1					3.3	3.9*	8.4
	Stabilizer blade down					6.3*	6.3*	5.2*	5.2*					3.9*	3.9*	
9.0	Stabilizers raised (drive operation)					4.7	6.0	3.3	4.1	2.4	3.0			2.0	2.6	
	Stabilizers raised					5.9	6.8*	4.1	5.2	2.9	3.8			2.5	3.3	9.7
	Stabilizer blade down					6.8*	6.8*	5.9*	5.9*	4.8*	4.8*			3.6*	3.6*	
7.5	Stabilizers raised (drive operation)					4.6	5.9	3.2	4.1	2.4	3.0	1.8	2.3	1.7	2.2	
	Stabilizers raised					5.8	6.9*	4.0	5.1	2.9	3.8	2.2	2.9	2.1	2.8	10.6
	Stabilizer blade down					6.9*	6.9*	5.9*	5.9*	5.0	5.2*	3.7*	3.7*	3.4*	3.4*	
6.0	Stabilizers raised (drive operation)			7.0	7.8*	4.4	5.7	3.1	4.0	2.3	3.0	1.7	2.3	1.5	2.0	
	Stabilizers raised			7.8*	7.8*	5.5	7.1	3.9	5.0	2.9	3.7	2.2	2.8	1.9	2.5	11.3
	Stabilizer blade down			7.8*	7.8*	7.2*	7.2*	6.1*	6.1*	4.9	5.2*	3.8	4.5*	3.3*	3.3*	
4.5	Stabilizers raised (drive operation)	8.9*	8.9*	6.4	8.6	4.1	5.4	2.9	3.8	2.2	2.9	1.7	2.2	1.4	1.8	
	Stabilizers raised	8.9*	8.9*	8.0	10.0*	5.2	6.7	3.7	4.8	2.8	3.6	2.1	2.8	1.7	2.3	11.7
	Stabilizer blade down	8.9*	8.9*	10.0*	10.0*	7.7*	7.7*	6.3*	6.3*	4.8	5.3*	3.7	4.5*	3.1	3.3*	
3.0	Stabilizers raised (drive operation)	3.4*	3.4*	5.7	7.8	3.8	5.0	2.8	3.6	2.1	2.7	1.6	2.2	1.3	1.8	
	Stabilizers raised	3.4*	3.4*	7.1	9.7	4.8	6.3	3.4	4.5	2.6	3.4	2.1	2.7	1.7	2.2	11.9
	Stabilizer blade down	3.4*	3.4*	11.0*	11.0*	8.2*	8.2*	6.1	6.5*	4.6	5.3*	3.7	4.4*	3.0	3.4*	
1.5	Stabilizers raised (drive operation)	0.9*	0.9*	5.1	7.1	3.5	4.7	2.6	3.4	2.0	2.6	1.6	2.1	1.3	1.7	
	Stabilizers raised	0.9*	0.9*	6.4	7.9*	4.3	5.8	3.2	4.3	2.5	3.3	2.0	2.6	1.6	2.2	12.0
	Stabilizer blade down	0.9*	0.9*	7.9*	7.9*	8.1	8.3*	5.8	6.5*	4.5	5.2*	3.6	4.2*	3.0	3.2*	
0	Stabilizers raised (drive operation)	1.6*	1.6*	4.7	5.2*	3.3	4.4	2.4	3.3	1.9	2.5	1.5	2.1	1.3	1.8	
	Stabilizers raised	1.6*	1.6*	5.2*	5.2*	4.1	5.5	3.0	4.1	2.4	3.2	1.9	2.6	1.6	2.2	11.8
	Stabilizer blade down	1.6*	1.6*	5.2*	5.2*	7.7	7.9*	5.6	6.2*	4.4	4.9*	3.5	3.9*	2.8*	2.8*	
−1.5	Stabilizers raised (drive operation)			4.6	5.3*	3.1	4.3	2.3	3.2	1.8	2.5	1.5	2.0	1.4	1.9	
	Stabilizers raised			5.3*	5.3*	3.9	5.4	2.9	4.0	2.3	3.1	1.9	2.5	1.8	2.4	11.2
	Stabilizer blade down			5.3*	5.3*	6.9*	6.9*	5.5*	5.5*	4.3	4.3*	3.2*	3.2*	2.7*	2.7*	
−3.0	Stabilizers raised (drive operation)					3.1	4.3	2.3	3.2					1.9	2.5	
	Stabilizers raised					3.9	5.4	2.9	3.9					2.3	3.1	8.9
	Stabilizer blade down					5.4*	5.4*	4.4*	4.4*					3.4*	3.4*	

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

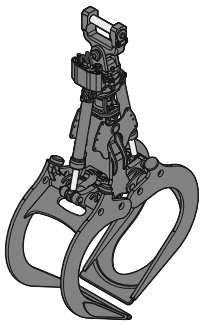
The lift capacities on the stick end without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/− 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75 % (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.

Attachments



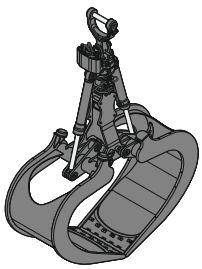
Wood Grab

Grab model GM 20B round-shaped (complete overlapping, vertical cylinders)						
Size	m²	1.00	1.30	1.50	1.70	1.90
Cutting width	mm	810	810	810	810	810
Height of grab, closed	mm	2,572	2,675	2,720	2,812	2,897
Weight	kg	1,545	1,575	1,595	1,625	1,760



Wood Grab

Grab model GM 20B round-shaped (complete overlapping, straight design, vertical cylinders)					
Size	m²	1.00	1.30	1.50	1.70
Cutting width	mm	810	810	810	810
Height of grab, closed	mm	2,551	2,638	2,729	2,786
Weight	kg	1,565	1,595	1,660	1,705



Wood Grab

Grab model GM 20C heart-shaped (tip-to-tip closing, straight design, vertical cylinders)			
Size	m²	1.60	1.90
Cutting width	mm	870	870
Height of grab, closed	mm	2,903	3,052
Weight	kg	1,890	1,925

Equipment

Undercarriage

Stabilizer and dozer blade, rear	●
Stabilizer and dozer blade, rear and front	+
4-wheel steering	●
Trailer coupling	+
Mudguards (rear and front)	+
Shuttle axle lock, automatic	●
Outriggers front, stabilizer and dozer blade, rear	+
Tyres, variants	+
Protection for travel drive	+
Protection for oscillating axle cylinders	+
Two storage compartments	●

Uppercarriage

Uppercarriage rear light, 2 pieces, LED	+
Uppercarriage right side light, 1 piece, LED	●
Main battery switch for electrical system	●
Amber beacon, at uppercarriage, LED double flash	+
Protection for headlights	+
Protection for rear lights	+
Tool equipment, extended	+

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	+

Engine

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

Cooling system

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

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	●
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, hydraulic (LHC)	+
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 cab, 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 (extend)	●
Filter system for attachment	+
Height limitation and stick shutoff, electronically	+
Boom cylinder cushioning	●
Stick camera (with separate monitor), bottom side, with protection	+
Load torque limitation	+
Liebherr multi coupling system	+
Pipe fracture safety valves hoist cylinders	●
Pipe fracture safety valves stick cylinders	●
Protection for piston rods, hoist cylinder	+
Protection for piston rods, stick cylinder	+
Overload warning device	+

Complete machine

Lubrication	
Lubrication undercarriage, manually – decentralised (grease points)	●
Lubrication undercarriage, manually – centralised (one grease point)	+
Central lubrication system for uppercarriage and equipment, automatically	●
Central lubrication system for undercarriage, automatically	+
Centralised lubrication extended for attachment	+
Special coating	
Special coating, variants	+
Monitoring	
Rear view monitoring with camera	●
Side view monitoring with camera	●

● = 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 when, with the development of the world's first mobile tower crane, Hans Liebherr laid the foundations for a family business now employing nearly 50,000 people and comprising over 140 companies across every continent.
The parent company is Liebherr-International AG in Bulle, Switzerland, whose associates are exclusively members of the Liebherr family.

Leaders and pioneers
Liebherr is a pioneer and its forward-looking approach has seen it make important contributions to technology history over a wide variety of industries. Employees throughout the world continue to share the courage of the founder, sharing a passion to produce innovative products and a determination to provide world-leading equipment and machinery.

Diversified portfolio
The company is one of the world's biggest construction equipment manufacturers and provides high-quality, user-oriented products and services to sectors including: earthmoving, material handling, deep foundations, mining, mobile and crawler cranes, tower cranes, concrete production and distribution, maritime cranes, aerospace and transportation, gear technology and automation, refrigeration and freezing, components and hotels.

Customised care
Liebherr solutions are characterised by precision, implementation and longevity. The company is committed to technological excellence and to providing customers with solutions that match their needs exactly. That customer focus does not end with delivery of a product but continues through a comprehensive range of back-up and support services.

www.liebherr.com

⚠ WARNING

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.

⚠ WARNING

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.

Liebherr-Hydraulikbagger GmbH
Liebherrstraße 12 · 88457 Kirchdorf/Iller, Germany · Phone +49 7354 80-0 · Fax +49 7354 80-7294
info.lhb@liebherr.com · www.liebherr.com · www.facebook.com/LiebherrConstruction