LH 18 M Industry Litronic

LIEBHERR

Material handling machine

Generation
6

Operating weight
37,500–39,700 lb *

Engine
141 HP / 105 kW
Stage V
Tier 4 Final

* Without attachment

Performance

Power plus speed –
redefined performance

Economy

Good investment –
savings for the 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

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Operating weight
37,500–39,700 lb *
Engine
141 HP / 105 kW
Stage V
Tier 4 Final

* Without attachment

Well thought out to the last detail

Extremely dusty jobs
- Reversible fan slows down the accumulation of dirt in the engine and radiator, guaranteeing high levels of machine availability
- Protective grille with fine mesh, extending and folding fan for quick and easy cleaning
- Air pre-filter with dust discharge for extra-fine filtration of the engine intake air

Maintainability
- All daily service points are accessible from the ground
- Short service times for greater productivity

Integral travel drive protection
- Travel engine and gear unit are integrated in the robust undercarriage frame
- Solid construction for toughest requirements

Convincing in operation

Performance

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 optimizes the way forces are induced on components to minimize stress and guarantee maximum stability and durability.

Economy

Sensor controlled low idle automatic
The time-tested standard sensor controlled low idle automatic reduces the engine speed to idling level as soon as the operator takes his hand off the joystick which means that no hydraulic functions are activated. In addition to saving energy, this also reduces noise.

Rapid work cycles
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 and thus ensures high handling capacity.

Road licensing
The LH 18 M Industry with an adjustable boom package and the appropriate machine configuration can be issued with a road license ex-works by the TÜV. This road license enables it to work at the side of the road and to be driven to nearby places without the requirement for a special license.

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 extent of production and system solutions. Key components such as the diesel engine and electric motors, electronic components, slew ring, slew drives and hydraulic cylinders are developed and produced by Liebherr itself. The extend 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. 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.

Working area limit
The handling machine can be fitted with an optional working area limit for jobs which require a limited working area. The movement of the boom and stick can be set to a certain height above the display. Collisions and resulting component damage can thus be avoided.

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.

Comfort

Ergonomic
The cab design delivers excellent conditions for healthy, highly concentrated and productive work in maximum comfort. Both the display unit with touchscreen color display, the controls and Comfort driver's 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.

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

Proportional control system
Precision and the fine control of the handling machine are particularly important for applications such as material sorting or scrap recycling. The machine can master this demanding work with ease thanks to its standard proportional control system.

Maintainability

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 every more quickly and efficiently.

Integral maintenance benefits
The completion of maintenance work helps keep the machine fully functional. Maintenance work does, however, mean machine down times which must be minimized. Automatic central lubrication systems for the uppercarriage and equipment as well as optional systems for the undercarriage, rapid change systems and attachments not only make it easier to adhere to the prescribed lubrication intervals and ensure a long service life for the components, but also increase the productivity of the Liebherr LH 18 M Industry handling machine.

Technical data

Diesel engine

Rating	
per SAE J1349	141 HP (105 kW) at 1,800 rpm
per ISO 9249	143 HP (105 kW) at 1,800 rpm
Model	D924 – FPT motor designed for Liebherr
Type	4 cylinder in-line
Bore / Stroke	4.1 / 5.2 in
Displacement	274.61 in³
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
Stage V	
Harmful emissions values	According to regulation (EU) 2016/1628
Emission control	Liebherr-SCRT technology
Fuel tank	66 gal
Urea tank	12 gal
Tier 4 Final	
Harmful emissions values	In accordance with 40CFR1039 (EPA) / 13CCR (CARB)
Emission control	Liebherr-SCR technology
Fuel tank	66 gal
Urea tank	12 gal

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	66 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 compensation, torque controlled swing drive priority
Hydraulic tank	34 gal
Hydraulic system	79 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 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	0–10.0 rpm stepless
Swing torque	33,928 lbf ft
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 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

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 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)
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	70,548 lb drive axles; manual or automatic hydraulically controlled front axle oscillation lock
Service brake	Two circuit travel brake system with accumulator; wet and backlash-free disc brake
Holding brake	Wet multi-disc (spring applied, pressure released)
Stabilization	Stabilizing blade + 2 point outriggers; 4 point outriggers

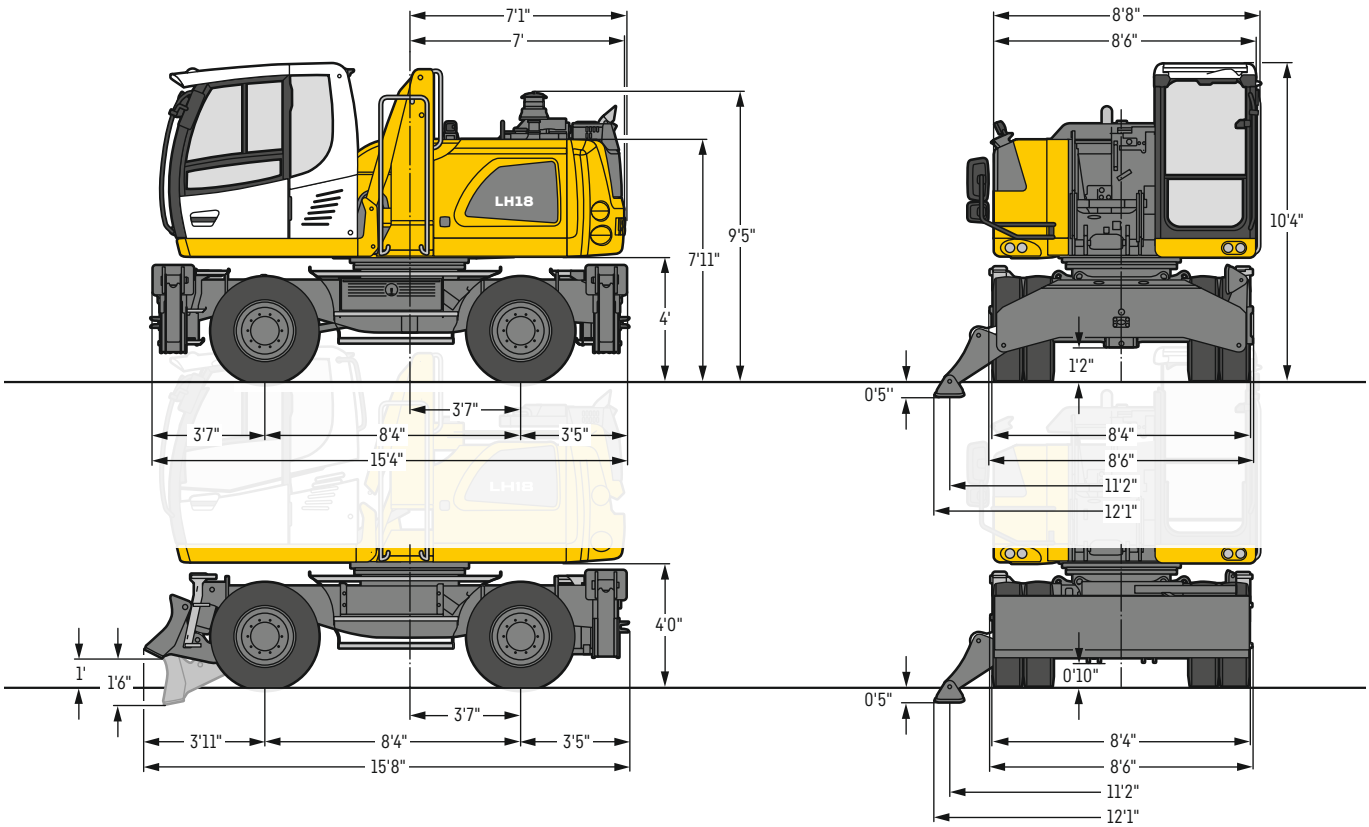
Equipment

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

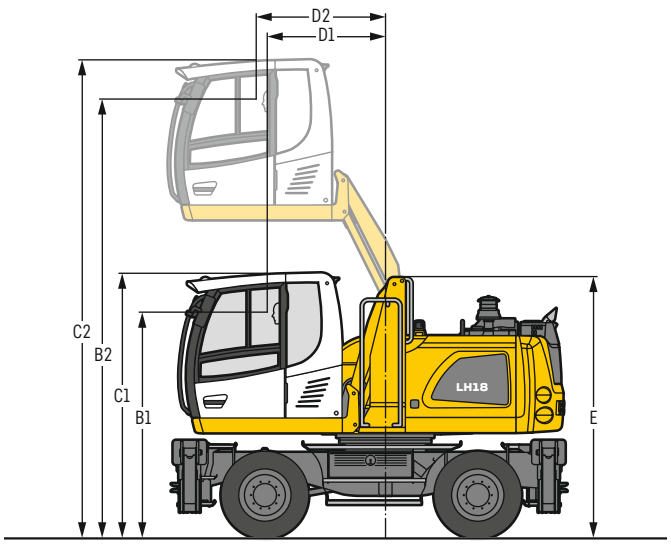
Lubrication	Liebherr central lubrication system for uppercarriage and equipment, automatically
Steps system	Safe and durable access system with anti-slip steps; main components hot-galvanized
Noise emission	
ISO 6396 (Stage V)	70 dB(A) = L_{pA} (inside cab)
2000/14/EC (Stage V)	100 dB(A) = L_{WA} (surround noise)
ISO 6396 (Tier 4 Final)	not specified
2000/14/EC (Tier 4 Final)	not specified

Dimensions



Cab elevation

Cab elevation LHC (hydraulic elevation)

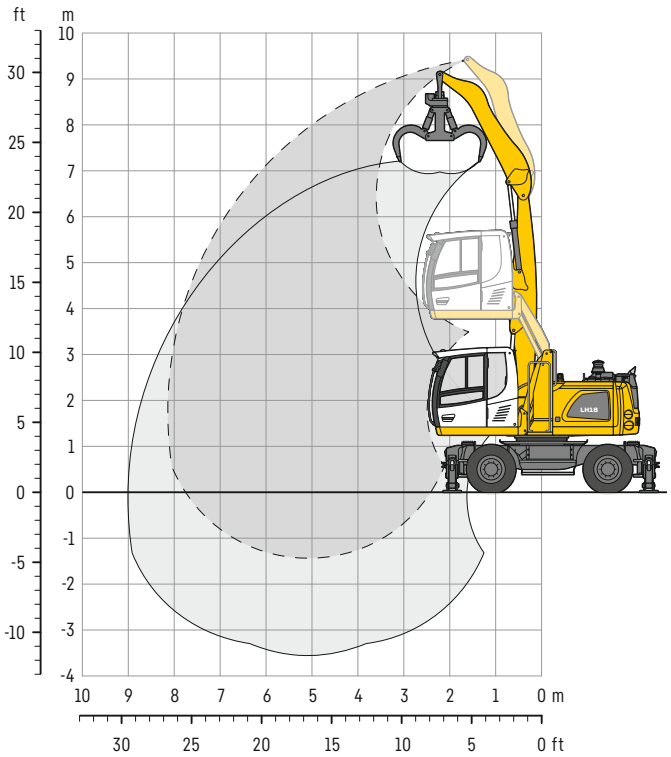


Increase type	LHC 255
B1	8'10"
B2	17' 2"
C1	10' 4"
C2	18' 8"
D1	4' 8"
D2	5' 1"
E	10' 2"

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

Equipment GF8



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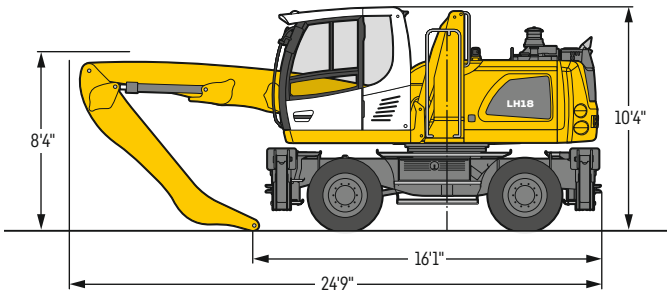


Operating weight

The operating weight includes the basic machine with 4 point outriggers, hydr. cab elevation, 8 solid tires plus intermediate rings, straight boom 15'5", flat angled stick 10'6" and multi-tine grab GM 55B / 0.52 yd³ semi-closed tines.

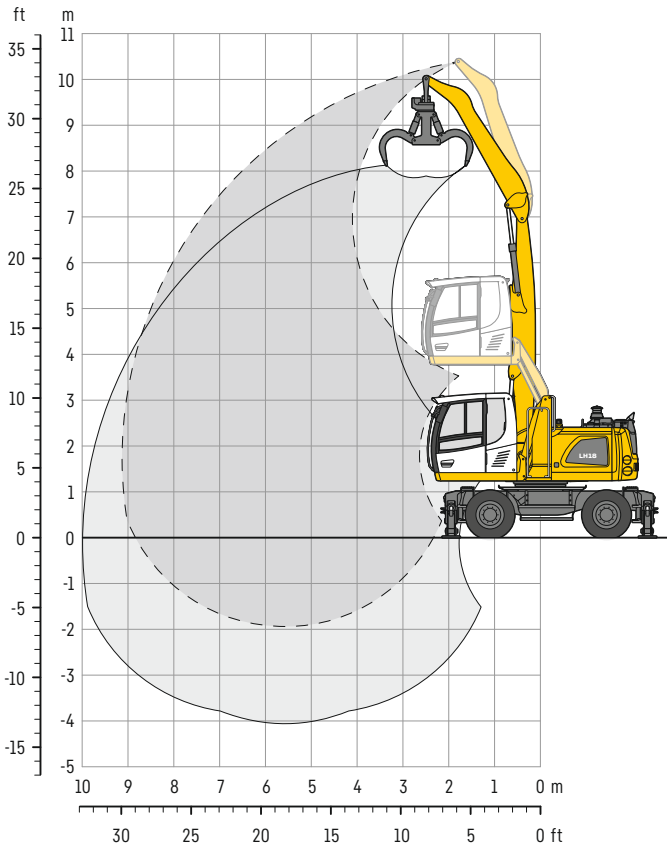
Weight	41,700 lb

ft	Undercarriage	10 ft		15 ft		20 ft		25 ft				ft in
	Stabilizers raised									10,8*	10,8*	
30	Blade + 2 pt. outriggers down									10,8*	10,8*	9'2"
	4 pt. outriggers down									10,8*	10,8*	
	Stabilizers raised			9,2	9,9*					6,8*	6,8*	
25	Blade + 2 pt. outriggers down			9,9*	9,9*					6,8*	6,8*	18'
	4 pt. outriggers down			9,9*	9,9*					6,8*	6,8*	
	Stabilizers raised			9,3	11,2*	6,0	9,1*			5,0	5,8*	
20	Blade + 2 pt. outriggers down			11,2*	11,2*	9,1*	9,1*			5,8*	5,8*	22'5"
	4 pt. outriggers down			11,2*	11,2*	9,1*	9,1*			5,8*	5,8*	
	Stabilizers raised	11,0*	11,0*	9,1	11,8*	5,9	9,1	4,2	5,5*	4,2	5,5*	
15	Blade + 2 pt. outriggers down	11,0*	11,0*	11,8*	11,8*	9,5*	9,5*	5,5*	5,5*	5,5*	5,5*	25'
	4 pt. outriggers down	11,0*	11,0*	11,8*	11,8*	9,5*	9,5*	5,5*	5,5*	5,5*	5,5*	
	Stabilizers raised	15,8	19,3*	8,7	12,9*	5,8	8,9	4,2	6,4	3,8	5,4*	
10	Blade + 2 pt. outriggers down	19,3*	19,3*	12,9*	12,9*	9,3	9,7*	6,7	7,5*	5,4*	5,4*	26'5"
	4 pt. outriggers down	19,3*	19,3*	12,9*	12,9*	9,7*	9,7*	7,5*	7,5*	5,4*	5,4*	
	Stabilizers raised	7,3*	7,3*	8,1	13,1	5,5	8,6	4,1	6,3	3,7	5,6*	
5	Blade + 2 pt. outriggers down	7,3*	7,3*	13,5*	13,5*	9,1	9,7*	6,7	7,1*	5,6*	5,6*	26'8"
	4 pt. outriggers down	7,3*	7,3*	13,5*	13,5*	9,7*	9,7*	7,1*	7,1*	5,6*	5,6*	
	Stabilizers raised	6,0*	6,0*	7,8	12,5*	5,4	8,4	4,0	5,8*	4,0	5,4*	
0	Blade + 2 pt. outriggers down	6,0*	6,0*	12,5*	12,5*	8,9*	8,9*	5,8*	5,8*	5,4*	5,4*	25'5"
	4 pt. outriggers down	6,0*	6,0*	12,5*	12,5*	8,9*	8,9*	5,8*	5,8*	5,4*	5,4*	

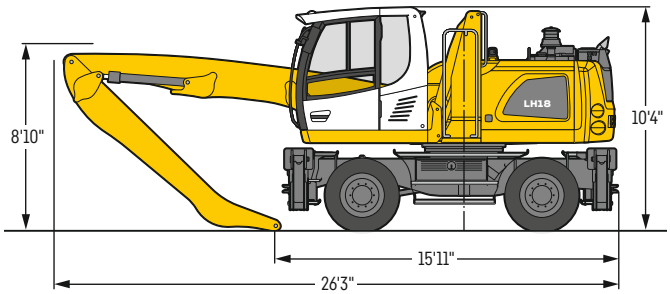
Height **Can be slewed through 360°** **In longitudinal position of undercarriage** **Max. reach** *** Limited by hydr. capacity**

The lift capacities on the stick end without attachment are stated in lb x 1,000 and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (±15°) are specified over the 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.

Equipment GF9



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 17'1", flat angled stick 12'2" and multi-tine grab GM 55B / 0.52 yd³ semi-closed tines.

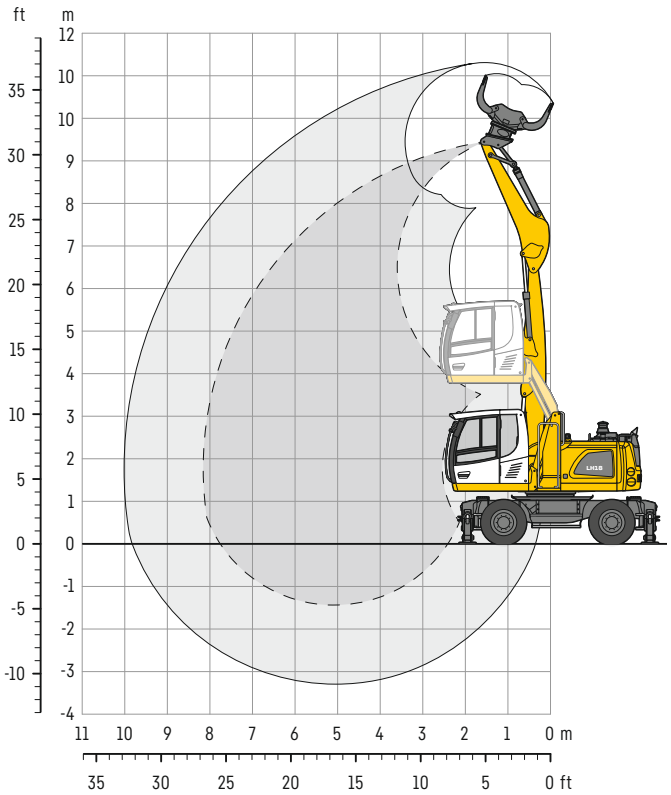
Weight	42,300 lb

ft	Undercarriage	10 ft		15 ft		20 ft		25 ft				ft in
	Stabilizers raised			8,2*	8,2*					6,7*	6,7*	
30	Blade + 2 pt. outriggers down			8,2*	8,2*					6,7*	6,7*	16' 8"
	4 pt. outriggers down			8,2*	8,2*					6,7*	6,7*	
	Stabilizers raised			9,5*	9,5*	6,0	7,8*			4,8	5,3*	
25	Blade + 2 pt. outriggers down			9,5*	9,5*	7,8*	7,8*			5,3*	5,3*	22' 7"
	4 pt. outriggers down			9,5*	9,5*	7,8*	7,8*			5,3*	5,3*	
	Stabilizers raised			9,5	9,9*	6,1	8,7*	4,2	6,4	3,8	4,8*	
20	Blade + 2 pt. outriggers down			9,9*	9,9*	8,7*	8,7*	6,5*	6,5*	4,8*	4,8*	26' 2"
	4 pt. outriggers down			9,9*	9,9*	8,7*	8,7*	6,5*	6,5*	4,8*	4,8*	
	Stabilizers raised			9,2	11,1*	5,9	8,9*	4,1	6,4	3,3	4,6*	
15	Blade + 2 pt. outriggers down			11,1*	11,1*	8,9*	8,9*	6,8	7,3*	4,6*	4,6*	28' 5"
	4 pt. outriggers down			11,1*	11,1*	8,9*	8,9*	7,3*	7,3*	4,6*	4,6*	
	Stabilizers raised	15,6	17,9*	8,5	12,3*	5,6	8,7	4,0	6,3	3,0	4,6*	
10	Blade + 2 pt. outriggers down	17,9*	17,9*	12,3*	12,3*	9,2	9,3*	6,6	7,3*	4,6*	4,6*	29' 7"
	4 pt. outriggers down	17,9*	17,9*	12,3*	12,3*	9,3*	9,3*	7,3*	7,3*	4,6*	4,6*	
	Stabilizers raised	4,4*	4,4*	7,8	12,8	5,3	8,4	3,9	6,1	3,0	4,7*	
5	Blade + 2 pt. outriggers down	4,4*	4,4*	13,0*	13,0*	8,9	9,4*	6,5	7,1*	4,7*	4,7*	29'11"
	4 pt. outriggers down	4,4*	4,4*	13,0*	13,0*	9,4*	9,4*	7,1*	7,1*	4,7*	4,7*	
	Stabilizers raised	3,9*	3,9*	7,3	12,2*	5,0	8,1	3,7	6,0	3,1	4,3*	
0	Blade + 2 pt. outriggers down	3,9*	3,9*	12,2*	12,2*	8,6	8,8*	6,3	6,4*	4,3*	4,3*	29'
	4 pt. outriggers down	3,9*	3,9*	12,2*	12,2*	8,8*	8,8*	6,4*	6,4*	4,3*	4,3*	
	Stabilizers raised			7,1	9,7*	4,9	7,2*			3,9	5,4*	
-5	Blade + 2 pt. outriggers down			9,7*	9,7*	7,2*	7,2*			5,4*	5,4*	23'11"
	4 pt. outriggers down			9,7*	9,7*	7,2*	7,2*			5,4*	5,4*	

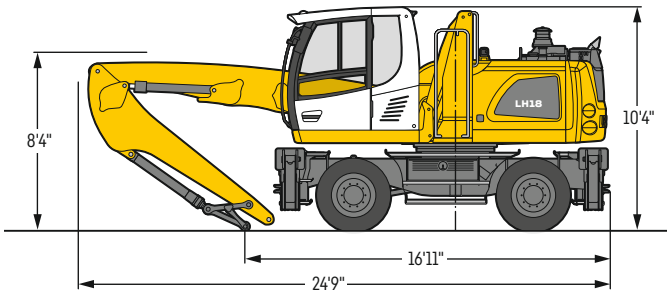
Height **Can be slewed through 360°** **In longitudinal position of undercarriage** **Max. reach** *** Limited by hydr. capacity**

The lift capacities on the stick end without attachment are stated in lb x 1,000 and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (±15°) are specified over the 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.

Equipment GK8



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 15'5", stick with tipping kinematics 10'6" and sorting grab SG 20B / 0.52 yd³ perforated shells.

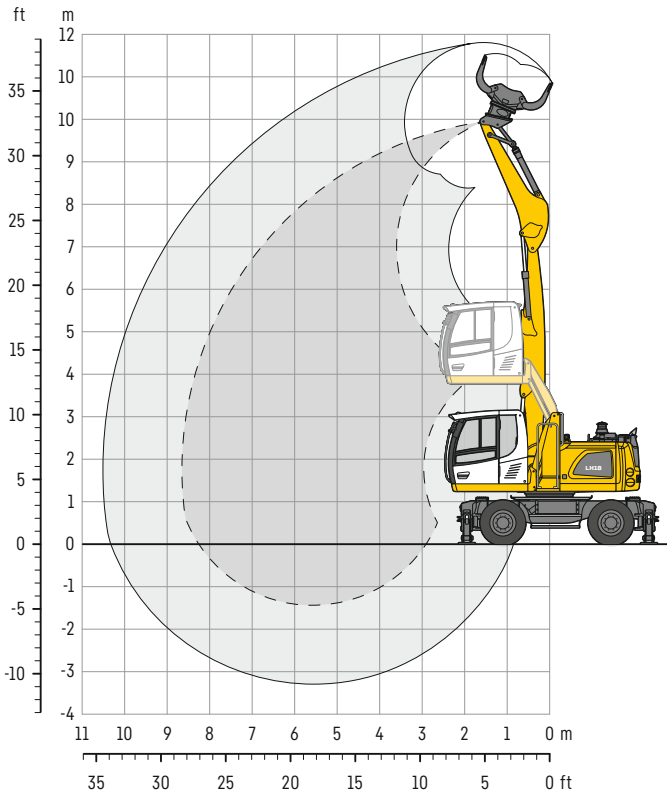
Weight	41,700 lb

ft	Undercarriage	10 ft		15 ft		20 ft		25 ft				ft in
	Stabilizers raised									10,7*	10,7*	
30	Blade + 2 pt. outriggers down									10,7*	10,7*	9' 4"
	4 pt. outriggers down									10,7*	10,7*	
	Stabilizers raised			9,0	9,8*					6,6*	6,6*	
25	Blade + 2 pt. outriggers down			9,8*	9,8*					6,6*	6,6*	18' 1"
	4 pt. outriggers down			9,8*	9,8*					6,6*	6,6*	
	Stabilizers raised			9,1	10,9*	5,7	8,9			4,7	5,6*	
20	Blade + 2 pt. outriggers down			10,9*	10,9*	9,0*	9,0*			5,6*	5,6*	22' 5"
	4 pt. outriggers down			10,9*	10,9*	9,0*	9,0*			5,6*	5,6*	
	Stabilizers raised	10,5*	10,5*	8,9	11,4*	5,7	8,8	3,9	5,4*	3,9	5,2*	
15	Blade + 2 pt. outriggers down	10,5*	10,5*	11,4*	11,4*	9,1*	9,1*	5,4*	5,4*	5,2*	5,2*	25'
	4 pt. outriggers down	10,5*	10,5*	11,4*	11,4*	9,1*	9,1*	5,4*	5,4*	5,2*	5,2*	
	Stabilizers raised	15,5	18,9*	8,4	12,5*	5,5	8,6	3,9	6,1	3,5	5,1*	
10	Blade + 2 pt. outriggers down	18,9*	18,9*	12,5*	12,5*	9,0	9,4*	6,5	7,2*	5,1*	5,1*	26' 5"
	4 pt. outriggers down	18,9*	18,9*	12,5*	12,5*	9,4*	9,4*	7,2*	7,2*	5,1*	5,1*	
	Stabilizers raised	6,7*	6,7*	7,8	12,8	5,2	8,3	3,8	6,0	3,4	5,3*	
5	Blade + 2 pt. outriggers down	6,7*	6,7*	13,1*	13,1*	8,8	9,4*	6,4	6,7*	5,3*	5,3*	26'10"
	4 pt. outriggers down	6,7*	6,7*	13,1*	13,1*	9,4*	9,4*	6,7*	6,7*	5,3*	5,3*	
	Stabilizers raised	5,6*	5,6*	7,5	12,1*	5,0	8,1	3,7	5,4*	3,7	5,1*	
0	Blade + 2 pt. outriggers down	5,6*	5,6*	12,1*	12,1*	8,5*	8,5*	5,4*	5,4*	5,1*	5,1*	25' 5"
	4 pt. outriggers down	5,6*	5,6*	12,1*	12,1*	8,5*	8,5*	5,4*	5,4*	5,1*	5,1*	
	Stabilizers raised											
−5	Blade + 2 pt. outriggers down											
	4 pt. outriggers down											

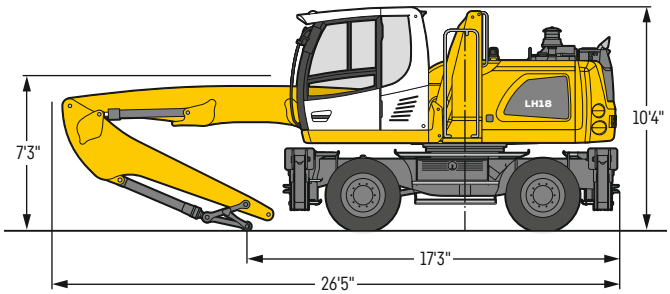
Height **Can be slewed through 360°** **In longitudinal position of undercarriage** **Max. reach** *** Limited by hydr. capacity**

The lift capacities on the stick end without attachment are stated in lb x 1,000 and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (±15°) are specified over the 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.

Equipment GK8.5



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 17'1", stick with tipping kinematics 10'6" and sorting grab SG 20B / 0.52 yd³ perforated shells.

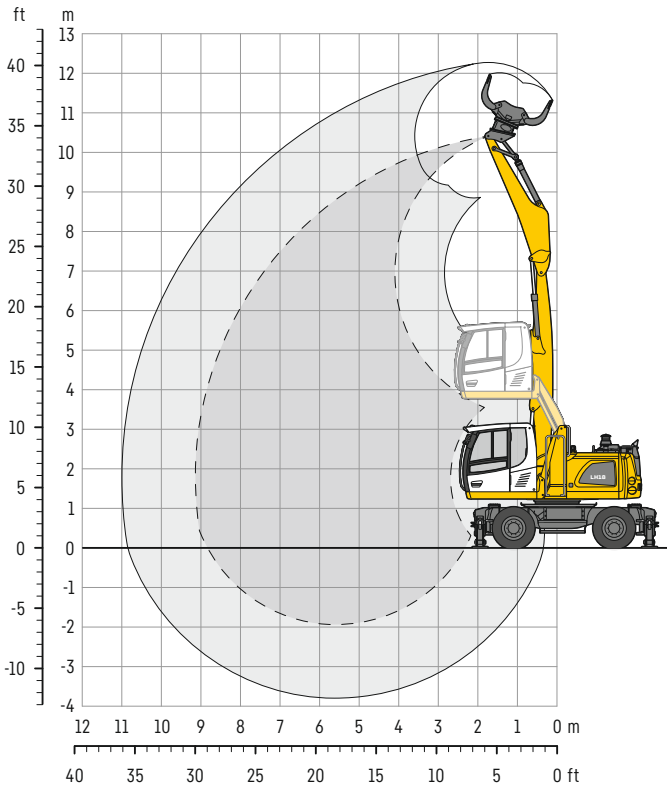
Weight	42,300 lb

ft	Undercarriage	10 ft		15 ft		20 ft		25 ft				ft in
	Stabilizers raised	11,4*	11,4*							8,5*	8,5*	
30	Blade + 2 pt. outriggers down	11,4*	11,4*							8,5*	8,5*	13' 6"
	4 pt. outriggers down	11,4*	11,4*							8,5*	8,5*	
	Stabilizers raised			9,1	10,4*	5,6	7,0*			5,3	6,2*	
25	Blade + 2 pt. outriggers down			10,4*	10,4*	7,0*	7,0*			6,2*	6,2*	20' 5"
	4 pt. outriggers down			10,4*	10,4*	7,0*	7,0*			6,2*	6,2*	
	Stabilizers raised			9,1	10,7*	5,7	8,7*			4,0	5,5*	
20	Blade + 2 pt. outriggers down			10,7*	10,7*	8,7*	8,7*			5,5*	5,5*	24' 5"
	4 pt. outriggers down			10,7*	10,7*	8,7*	8,7*			5,5*	5,5*	
	Stabilizers raised	11,0*	11,0*	8,7	11,4*	5,5	8,7	3,8	6,1	3,4	5,2*	
15	Blade + 2 pt. outriggers down	11,0*	11,0*	11,4*	11,4*	8,9*	8,9*	6,4	7,1*	5,2*	5,2*	26'10"
	4 pt. outriggers down	11,0*	11,0*	11,4*	11,4*	8,9*	8,9*	7,1*	7,1*	5,2*	5,2*	
	Stabilizers raised	14,6	19,5*	8,0	12,4*	5,2	8,4	3,7	5,9	3,1	5,0	
10	Blade + 2 pt. outriggers down	19,5*	19,5*	12,4*	12,4*	8,9	9,1*	6,3	7,0*	5,1*	5,1*	28' 1"
	4 pt. outriggers down	19,5*	19,5*	12,4*	12,4*	9,1*	9,1*	7,0*	7,0*	5,1*	5,1*	
	Stabilizers raised	1,7*	1,7*	7,4	12,3	4,9	8,0	3,6	5,8	3,0	4,8*	
5	Blade + 2 pt. outriggers down	1,7*	1,7*	12,6*	12,6*	8,5	9,0*	6,2	6,6*	4,8*	4,8*	28' 5"
	4 pt. outriggers down	1,7*	1,7*	12,6*	12,6*	9,0*	9,0*	6,6*	6,6*	4,8*	4,8*	
	Stabilizers raised	3,1*	3,1*	7,0	11,3*	4,7	7,8	3,5	5,6*	3,1	4,4*	
0	Blade + 2 pt. outriggers down	3,1*	3,1*	11,3*	11,3*	8,1*	8,1*	5,6*	5,6*	4,4*	4,4*	27' 1"
	4 pt. outriggers down	3,1*	3,1*	11,3*	11,3*	8,1*	8,1*	5,6*	5,6*	4,4*	4,4*	
	Stabilizers raised											
−5	Blade + 2 pt. outriggers down											
	4 pt. outriggers down											

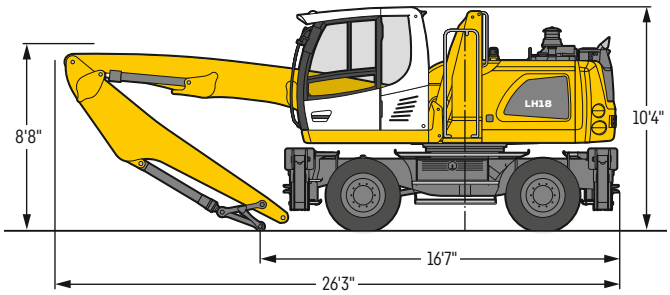
Height **Can be slewed through 360°** **In longitudinal position of undercarriage** **Max. reach** *** Limited by hydr. capacity**

The lift capacities on the stick end without attachment are stated in lb x 1,000 and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (±15°) are specified over the 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.

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 17'1", stick with tipping kinematics 12'2" and sorting grab SG 20B / 0.52 yd³ perforated shells.

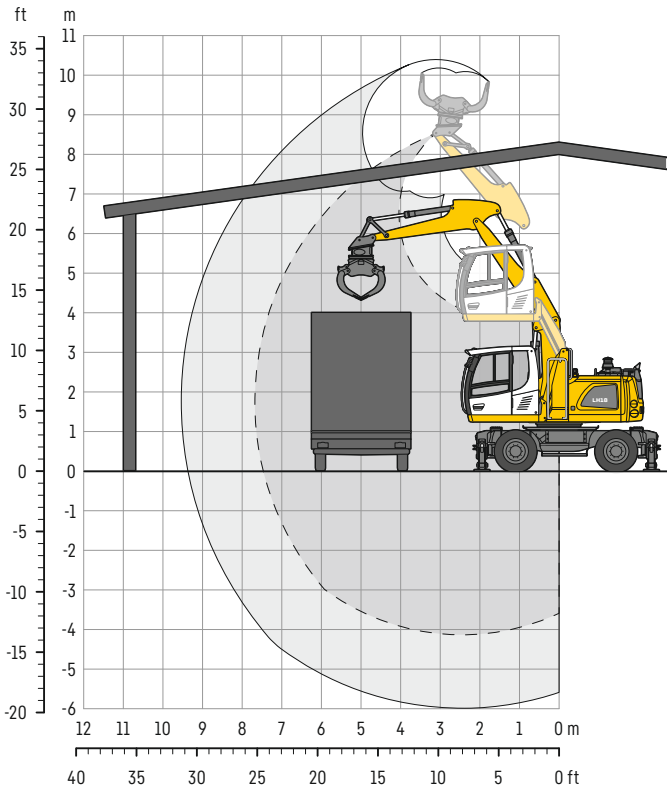
Weight	42,500 lb

		10 ft		15 ft		20 ft		25 ft				
ft	Undercarriage											ft in
	Stabilizers raised			7,9*	7,9*					6,2*	6,2*	
30	Blade + 2 pt. outriggers down			7,9*	7,9*					6,2*	6,2*	16' 8"
	4 pt. outriggers down			7,9*	7,9*					6,2*	6,2*	
	Stabilizers raised			9,1*	9,1*	5,7	7,5*			4,5	4,9*	
25	Blade + 2 pt. outriggers down			9,1*	9,1*	7,5*	7,5*			4,9*	4,9*	22' 7"
	4 pt. outriggers down			9,1*	9,1*	7,5*	7,5*			4,9*	4,9*	
	Stabilizers raised			9,2	9,5*	5,8	8,3*	3,8	6,1	3,5	4,4*	
20	Blade + 2 pt. outriggers down			9,5*	9,5*	8,3*	8,3*	6,2*	6,2*	4,4*	4,4*	26' 2"
	4 pt. outriggers down			9,5*	9,5*	8,3*	8,3*	6,2*	6,2*	4,4*	4,4*	
	Stabilizers raised			8,9	10,7*	5,6	8,5*	3,8	6,1	3,0	4,2*	
15	Blade + 2 pt. outriggers down			10,7*	10,7*	8,5*	8,5*	6,4	6,9*	4,2*	4,2*	28' 6"
	4 pt. outriggers down			10,7*	10,7*	8,5*	8,5*	6,9*	6,9*	4,2*	4,2*	
	Stabilizers raised	15,2	17,6*	8,2	11,9*	5,2	8,4	3,7	5,9	2,7	4,1*	
10	Blade + 2 pt. outriggers down	17,6*	17,6*	11,9*	11,9*	8,9*	8,9*	6,3	6,9*	4,1*	4,1*	29' 8"
	4 pt. outriggers down	17,6*	17,6*	11,9*	11,9*	8,9*	8,9*	6,9*	6,9*	4,1*	4,1*	
	Stabilizers raised	4,2*	4,2*	7,4	12,4	4,9	8,0	3,5	5,7	2,6	4,3*	
5	Blade + 2 pt. outriggers down	4,2*	4,2*	12,5*	12,5*	8,5	8,9*	6,1	6,7*	4,3*	4,3*	30'
	4 pt. outriggers down	4,2*	4,2*	12,5*	12,5*	8,9*	8,9*	6,7*	6,7*	4,3*	4,3*	
	Stabilizers raised	3,7*	3,7*	6,9	11,7*	4,6	7,7	3,4	5,6	2,7	3,9*	
0	Blade + 2 pt. outriggers down	3,7*	3,7*	11,7*	11,7*	8,2	8,3*	6,0	6,0*	3,9*	3,9*	29'
	4 pt. outriggers down	3,7*	3,7*	11,7*	11,7*	8,3*	8,3*	6,0*	6,0*	3,9*	3,9*	
	Stabilizers raised			6,7	9,2*	4,5	6,7*			3,5	5,0*	
-5	Blade + 2 pt. outriggers down			9,2*	9,2*	6,7*	6,7*			5,0*	5,0*	23'11"
	4 pt. outriggers down			9,2*	9,2*	6,7*	6,7*			5,0*	5,0*	

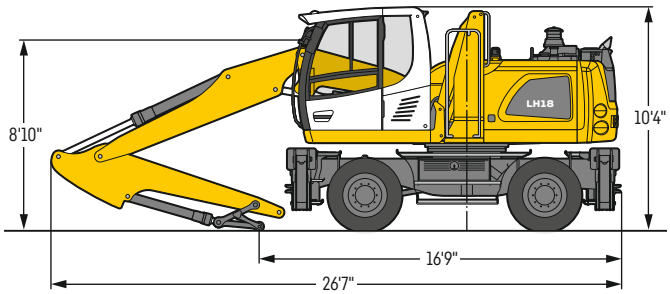
Height **Can be slewed through 360°** **In longitudinal position of undercarriage** **Max. reach** *** Limited by hydr. capacity**

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.

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 15'11", stick with tipping kinematics 8'8" and sorting grab SG 20B / 0.52 yd³ perforated shells.

Weight	42,500 lb

		10 ft		15 ft		20 ft		25 ft				
ft	Undercarriage											ft in
	Stabilizers raised			6,3*	6,3*					5,2*	5,2*	
25	Blade + 2 pt. outriggers down			6,3*	6,3*					5,2*	5,2*	15' 7"
	4 pt. outriggers down			6,3*	6,3*					5,2*	5,2*	
	Stabilizers raised			8,6*	8,6*	5,6*	5,6*			4,4*	4,4*	
20	Blade + 2 pt. outriggers down			8,6*	8,6*	5,6*	5,6*			4,4*	4,4*	20' 6"
	4 pt. outriggers down			8,6*	8,6*	5,6*	5,6*			4,4*	4,4*	
	Stabilizers raised			9,2	10,0*	6,0	8,8*			4,1*	4,1*	
15	Blade + 2 pt. outriggers down			10,0*	10,0*	8,8*	8,8*			4,1*	4,1*	23' 5"
	4 pt. outriggers down			10,0*	10,0*	8,8*	8,8*			4,1*	4,1*	
	Stabilizers raised	15,9	19,1*	9,0	12,4*	5,9	9,0			3,9	4,2*	
10	Blade + 2 pt. outriggers down	19,1*	19,1*	12,4*	12,4*	9,4	9,7*			4,2*	4,2*	24'10"
	4 pt. outriggers down	19,1*	19,1*	12,4*	12,4*	9,7*	9,7*			4,2*	4,2*	
	Stabilizers raised	15,6	20,9*	8,9	13,3	5,7	9,0	3,8	5,2*	3,8	4,4*	
5	Blade + 2 pt. outriggers down	20,9*	20,9*	13,8	14,0*	9,3	10,3*	5,2*	5,2*	4,4*	4,4*	25' 2"
	4 pt. outriggers down	20,9*	20,9*	14,0*	14,0*	10,3*	10,3*	5,2*	5,2*	4,4*	4,4*	
	Stabilizers raised	15,6	22,7*	8,7	13,4	5,5	8,7			3,8	4,9*	
0	Blade + 2 pt. outriggers down	22,7*	22,7*	13,8	14,3*	9,1	10,4*			4,9*	4,9*	24' 6"
	4 pt. outriggers down	22,7*	22,7*	14,3*	14,3*	10,4*	10,4*			4,9*	4,9*	
	Stabilizers raised	14,7	23,3*	8,1	13,4	5,2	8,4			4,3	6,0*	
- 5	Blade + 2 pt. outriggers down	23,3*	23,3*	14,0	14,6*	8,8	10,0*			6,0*	6,0*	22' 7"
	4 pt. outriggers down	23,3*	23,3*	14,6*	14,6*	10,0*	10,0*			6,0*	6,0*	
	Stabilizers raised	14,3	22,8*	7,7	12,6*					5,4	6,2*	
-10	Blade + 2 pt. outriggers down	22,8*	22,8*	12,6*	12,6*					6,2*	6,2*	19'
	4 pt. outriggers down	22,8*	22,8*	12,6*	12,6*					6,2*	6,2*	

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

The lift capacities on the stick end without attachment are stated in lb x 1,000 and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (±15°) are specified over the 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.

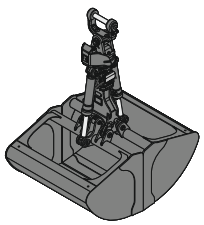
Machine stabilities sorting grabs

LH 18 M – Max. material weight in lb/yd³

Grab	Shell type	Width of shells	Capacity	Mounting for direct mounting								Mounting for quick coupler SWA 48							
				4 pt. outriggers down				Blade + 2 pt. outriggers down				4 pt. outriggers down				Blade + 2 pt. outriggers down			
		ft in	yd³	GK8	GK8.5	GK9	VK8	GK8	GK8.5	GK9	VK8	GK8	GK8.5	GK9	VK8	GK8	GK8.5	GK9	VK8
SG 20B	perforated	2' 7"	0.52	3,371	2,528	1,180	4,551	3,371	2,528	1,180	4,551	2,191	1,348	–	3,540	2,191	1,348	–	3,540
SG 20B	perforated	3' 3"	0.65	2,528	1,854	843	3,540	2,528	1,854	843	3,540	1,517	843	–	2,528	1,517	843	–	2,528
SG 20B	perforated	3'11"	0.78	1,854	1,348	506	2,697	1,854	1,348	506	2,697	1,180	674	–	2,023	1,180	674	–	2,023
SG 20B	perforated	4' 7"	0.92	1,517	1,011	–	2,191	1,517	1,011	–	2,191	843	–	–	1,686	843	–	–	1,686
SG 20B	closed	2' 7"	0.52	3,203	2,360	1,180	4,551	3,203	2,360	1,180	4,551	2,191	1,348	–	3,371	2,191	1,348	–	3,371
SG 20B	closed	3' 3"	0.65	2,360	1,686	674	3,371	2,360	1,686	674	3,371	1,517	843	–	2,528	1,517	843	–	2,528
SG 20B	closed	3'11"	0.78	1,854	1,348	506	2,697	1,854	1,348	506	2,697	1,180	674	–	2,023	1,180	674	–	2,023
SG 20B	closed	4' 7"	0.92	1,517	1,011	–	2,191	1,517	1,011	–	2,191	843	–	–	1,517	843	–	–	1,517

– = Load values at maximum outreach insufficient

Attachments



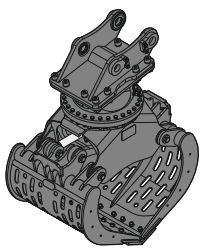
Grab for loose material

Shells for loose material with cutting edge (without teeth)

Grab model GMZ 26			
Width of shells	ft in	4'1"	4'11"
Capacity	yd³	1.96	2.35
Weight	lb	2,580	2,765

Multi-tine grab

Grab model GM 55B (5 tines)		open	semi-closed	closed, heart-shaped
Capacity	yd³	0.52	0.52	0.52
Weight	lb	2,195	2,470	3,030



Sorting grab

Grab model SG 20B		perforated	closed	perforated	closed	perforated	closed	perforated	closed
Width of shells	ft in	2'7"	2'7"	3'3"	3'3"	3'11"	3'11"	4'7"	4'7"
Capacity	yd³	0.52	0.52	0.65	0.65	0.78	0.78	0.92	0.92
Max. closing force	lbf	8,992	8,992	8,992	8,992	8,992	8,992	8,992	8,992
Weight incl. quick coupler mounting SWA 48	lb	2,095	2,125	2,195	2,225	2,295	2,315	2,390	2,415

Equipment

Undercarriage

Rear + front outriggers	●
Front stabilizer blade, rear outriggers	+
Individual control outriggers	●
Shuttle axle lock, automatic	●
Outrigger monitoring system	+
Tires, variants	+
Protection for travel drive	●
Protection for piston rods, outriggers	+
Two storage compartments	●

Uppercarriage

Uppercarriage right side light, 1 piece, LED	●
Uppercarriage rear light, 2 pieces, LED	+
Tank refilling pump fuel	+
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 –4 °F to +104 °F	●
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

Reversible fan drive	+
Protective grid (close-mesh) in front of cooler intake, extendible	●

Cab

Stabilizer, control lever, left console	+
Stabilizer, proportional control on left joystick	●
Cab lights front, halogen	+
Cab lights front, halogen (under rain cover)	●
Cab lights front, LED	+
Cab lights front, LED (under rain cover)	+
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	+
Footrest	+
Horn, button on left joystick	●
Joystick steering (max. 7.5 mph)	●
Cab elevation, hydraulic (LHC)	●
Cab elevation, hydraulic with tilt function (LHC)	+
Automatic air conditioning	●
Wheel steering (slim version)	+
LiDAT, vehicle fleet management	●
Proportional control	●
Radio Comfort, control via display with handsfree set	+
Preparation for radio installation	●
Back-up alarm (acoustic signal is emitted traveling backward, can not be switched off)	+
Amber beacon, on cab, LED double flash	+
Windows made from impact-resistant laminated safety glass	+
Windscreen wiper, roof	+
Windshield wiper, entire windshield	●
FOPS top guard	+
FGPS front guard, tiltable	+
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	+
Height limitation and stick shutoff, electronically	+
Boom cylinder cushioning	+
Stick camera (with separate monitor), bottom side, with protection	+
Load holding valve tipping cylinder	+
Liebherr quick coupler, hydraulic	+
Pipe fracture safety valves hoist cylinders	●
Pipe fracture safety valves stick cylinders	●
Quick coupling system Solidlink	+
Protection for piston rod, tipping cylinder	+
Overload warning device	+

Complete machine

Lubrication	
Lubrication undercarriage, manually – decentralized (grease points)	●
Lubrication undercarriage, manually – centralized (one grease point)	+
Central lubrication system for uppercarriage and equipment, automatically	●
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. With the development of the world's first mobile tower crane, Hans Liebherr laid the foundations of a successful family business which today comprises more than 140 companies on all continent and employs nearly 51,000 people. The parent company of the Group is Liebherr-International AG in Bulle (Switzerland), whose associates 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 portfolio
Not only is Liebherr one of the biggest construction equipment manufacturers in the world, it also provides high-quality, user-oriented products and services in a wide range of other areas. The product portfolio includes the segments earthmoving, 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, refrigeration and freezing, components and hotels.

Customized solutions and maximum customer benefit
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

⚠ 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.

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