Product Information Material Handling Machine

LH 18 M Industry

Litronic





Performance Power Plus Speed – Redefined Performance

Economy Good Investment – Savings for the Long-term



Operating Weight 37,500 - 39,700 lb*

Engine 141 HP (I)/105 kW Stage Tier 4f

* Without attachment

Reliability Durability and Sustainability – Quality Down to the Last Detail

Comfort Perfection at a Glance – When Technology is Comfortable **Maintainability** Efficiency Bonus – Even with Maintenance and Service



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
- Air pre-filter with dust discharge for extra-fine filtration of the engine intake air



Maintainability

- Stabilizer blade requires no maintenance
- All daily service points are accessible from the ground



Integral Travel Drive Protection

- Travel engine and gear unit are integrated in the robust undercarriage frame
- Robust design 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 optimises the way forces are induced on components to minimise stress and guarantee maximum stability and durability.



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 intuitive 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 licence ex-works by the TÜV. This road licence enables it to work at the side of the road and to be driven to nearby places without the requirement for a special licence.

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 depth 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. Highstrength 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. Every possible dimensional can be adjusted for this purpose – height, depth, reach and proximity. This can prevent collisions and the resulting component damage.

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 latest cab design delivers excellent conditions for healthy, highly concentrated and productive work in maximum comfort. Both the display unit with touchscreen colour 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 favour of joystick steering provides additional legroom and a clear view of the working area. A new standard feature is Joystick control of the outriggers for more convenience and an increased productivity.

Proportional Control System

Precision and the fine control of the material handler 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 maintenance 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 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 minimised. 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

-	Diesei Liigilie	
R	ating per	141 HP (I) (105 kW) at 1,800 rpm
S	AE J1349/ISO 9249	
M	lodel	D924 – FPT motor designed for Liebherr
T١	/pe	4 cylinder in-line
Bo	ore/Stroke	4.1/5.2 in
Di	isplacement	274.61 in ³
E	ngine operation	4-stroke diesel
		Common-Rail
		turbo-charged and after-cooled
		reduced emissions
Ai	ir cleaner	dry-type air cleaner with pre-cleaner, primary
		and safety elements
E	ngine idling	sensor controlled
E	lectrical system	
Vo	oltage	24 V
Ba	atteries	2 x 135 Ah/12 V
Al	ternator	three-phase current 28 V/140 A
St	tage Tier 4f	
Ha	armful emissions values	in accordance with EPA/CARB-40CFR stage
		Tier 4f
Er	mission control	Liebherr-SCR technology
Fu	uel tank	66 gal
U	rea tank	12 gal

Hydraulic System

Hydraulic pump	
for equipment	Liebherr axial piston variable displacement
and travel drive	pump
Max. flow	66 gpm
Max. pressure	5,076 psi
Hydraulic pump	Liebherr-Synchron-Comfort-system (LSC) with
regulation and control	electronic engine speed sensing regulation,
	pressure and flow compensation, torque con-
	trolled swing drive priority
Hydraulic tank	34 gal
Hydraulic system	79 gal
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 pre-adjustable pump flows and
	pressures for add-on attachments

Cooling System Diesel engine w

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 joy- sticks for additional hydraulic functions

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	39,828 lbf ft
Holding brake	wet multi-disc (spring applied, pressure released)
Option	slewing gear brake Comfort

Operator's 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 insulat- ing, tinted laminated safety glass, separate shades for the sunroof window and windscreen
Operator's seat Comfort	air cushioned operator's seat with 3D-adjust- able armrests, headrest, lap belt, seat heater, adjustable seat cushion inclination and length, lockable horizontal suspension, automatic weight adjustment, adjustable suspension stiff- ness, 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 re- adjustment), pneumatic low frequency suspen- sion and active seat climatisation with active coal and ventilator
Control system	joysticks with control consoles and swivel seat, folding left control console
Operation and displays	large high-resolution operating unit, self-explan- atory, 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 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

●= 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

Equipment

Equipilion	
Туре	high-strength steel plates at highly-stressed points for the toughest requirements. Complex and stable mountings of equipment and cylin- ders
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 upper- carriage and equipment, automatically
Steps system	safe and durable access system with anti-slip steps; main components hot-galvanized
Noise emission	
ISO 6396	L _{pA} (inside cab) = not specified
2000/14/EC	L _{WA} (surround noise) = not specified

Dimensions



Choice of Cab Elevation

Cab Elevation LHC (Hydraulic Elevation)



Increas	se type	LHC 255
B1		8'10"
B2		17' 2"
C1		10' 4"
C2		18' 8"
D1		4' 8"
D2		5'
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 VK8



Operating Weight

The operating weight includes the basic machine with stabilizing blade + 2 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.

42,100 lb

Dimensions

Weight



▲ A		10) ft	15	15 ft		20 ft		25 ft				
↓/∕ ft	Undercarriage		- <mark>1</mark>		L L		di d		P		P .	ft in	
25	Stabilizers raised Blade + 2 pt. outriggers down		_	6,1* 6,1*	6,1* 6,1*		-		-	5,2* 5,2*	5,2* 5,2*	15' 5"	
20	Stabilizers raised Blade + 2 pt. outriggers down			8,6* 8,6*	8,6* 8,6*	5,5* 5,5*	5,5* 5,5*			4,4* 4,4*	4,4* 4,4*	20' 6"	
15	Stabilizers raised Blade + 2 pt. outriggers down			9,2 10,0*	10,0* 10,0*	6,0 8,8*	8,8* 8,8*			4,1* 4,1*	4,1* 4,1*	23' 4"	
10	Stabilizers raised Blade + 2 pt. outriggers down	15,9 19,0*	19,0* 19,0*	9,0 12,4*	12,4* 12,4*	5,9 9,4	9,0 9,7*			4,0 4,1*	4,1* 4,1*	24'10"	
5	Stabilizers raised Blade + 2 pt. outriggers down	15,6 20,9*	20,9* 20,9*	8,9 13,8	13,3 14,0*	5,8 9,3	9,0 10,3*	3,8 5,2*	5,2* 5,2*	3,8 4,4*	4,4* 4,4*	25' 2"	
0	Stabilizers raised Blade + 2 pt. outriggers down	15,6 22,7*	22,7* 22,7*	8,7 13,9	13,4 14,4*	5,5 9,1	8,7 10,4*			3,9 4,9*	4,9* 4,9*	24' 6"	
- 5	Stabilizers raised Blade + 2 pt. outriggers down	14,8 23,4*	23,4* 23,4*	8,2 14,1	13,4 14,7*	5,2 8,9	8,4 10,1*			4,3 5,9*	5,9* 5,9*	22' 8"	
-10	Stabilizers raised Blade + 2 pt. outriggers down	14,4 23,0*	23,0* 23,0*	7,7 12,7*	12,7* 12,7*					5,4 6,1*	6,1* 6,1*	19' 2"	
1/2-1	leight 🛛 🗝 🛱 Can be slewed th	rough 360°	un longitu	dinal positio	n of undercar	riage 🥕	Max.	reach * Lim	ited 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 ($+/-15^{\circ}$) 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.

Equipment MK7



Operating Weight

The operating weight includes the basic machine with stabilizing blade + 2 point outriggers, hydr. cab elevation, 8 solid tires plus intermediate rings, mono boom 15'1", stick with tipping kinematics 8'8" and sorting grab SG 20B/0.52 yd³ perforated shells.

41,500 lb

Dimensions

Weight



•	• 2		10 ft		15 ft		20 ft		25 ft				
↓∕∕ ft	Undercarriage		Ľ		Ľ		<mark>L</mark>		Ľ			ft in	
25	Stabilizers raised Blade + 2 pt. outriggers down									5,2* 5,2*	5,2* 5,2*	13'4"	
20	Stabilizers raised Blade + 2 pt. outriggers down			7,6* 7,6*	7,6* 7,6*					4,3* 4,3*	4,3* 4,3*	19'	
15	Stabilizers raised Blade + 2 pt. outriggers down			8,4* 8,4*	8,4* 8,4*	5,8 7,5*	7,5* 7,5*			4,1* 4,1*	4,1* 4,1*	22'	
10	Stabilizers raised Blade + 2 pt. outriggers down	15,2* 15,2*	15,2* 15,2*	8,6 10,6*	10,6* 10,6*	5,6 8,8*	8,8* 8,8*			4,2* 4,2*	4,2* 4,2*	23'7"	
5	Stabilizers raised Blade + 2 pt. outriggers down	13,9 15,4*	15,4* 15,4*	8,0 13,0*	13,0* 13,0*	5,4 9,0	8,6 9,8*			4,1 4,5*	4,5* 4,5*	24'	
0	Stabilizers raised Blade + 2 pt. outriggers down	13,3 14,6*	14,6* 14,6*	7,6 13,4	12,7 14,3*	5,2 8,8	8,4 10,4*			4,2 5,2*	5,2* 5,2*	23'4"	
- 5	Stabilizers raised Blade + 2 pt. outriggers down	13,3 20,9*	20,9* 20,9*	7,4 13,2	12,6 14,1*	5,1 8,7	8,3 10,0*			4,7 6,7*	6,7* 6,7*	21'4"	
-10	Stabilizers raised Blade + 2 pt. outriggers down	13,5 17,6*	17,6* 17,6*	7,5 11,8*	11,8* 11,8*					6,1 9,3*	9,3* 9,3*	17'8"	
1/3- I	leight 🛛 🗝 🛱 Can be slewed th	rough 360°	un longitu	dinal positior	of undercar	riage 🔎	Max.	reach * Lim	ited 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 VG8



Operating Weight

The operating weight includes the basic machine with stabilizing blade + 2 point outriggers, hydr. cab elevation, 8 solid tires plus intermediate rings, two-piece boom 15'11", angled stick 9'10" and multi-tine grab GM 55B/0.52 yd³ semi-closed tines.

42,000 lb

Dimensions

Weight



•		10 ft		15 ft		20 ft		25 ft				
↓∕∕ ft	Undercarriage		Ľ		Ľ		Ľ		Ľ			ft in
25	Stabilizers raised Blade + 2 pt. outriggers down			7,7* 7,7*	7,7* 7,7*					5,2* 5,2*	5,2* 5,2*	17' 5"
20	Stabilizers raised Blade + 2 pt. outriggers down			7,9* 7,9*	7,9* 7,9*	6,3 7,1*	7,1* 7,1*			4,5* 4,5*	4,5* 4,5*	22'
15	Stabilizers raised Blade + 2 pt. outriggers down			8,6* 8,6*	8,6* 8,6*	6,4 8,5*	8,5* 8,5*			4,2* 4,2*	4,2* 4,2*	24' 8"
10	Stabilizers raised Blade + 2 pt. outriggers down	16,4 18,0*	18,0* 18,0*	9,4 12,3*	12,3* 12,3*	6,4 9,8	9,4 9,8*	4,4 6,7*	6,7* 6,7*	4,1 4,2*	4,2* 4,2*	26' 1"
5	Stabilizers raised Blade + 2 pt. outriggers down	16,0 21,1*	21,1* 21,1*	9,3 14,2*	13,8 14,2*	6,3 9,7	9,3 10,6*	4,3 6,9	6,6 8,0*	3,9 4,4*	4,4* 4,4*	26' 5"
0	Stabilizers raised Blade + 2 pt. outriggers down	16,1 22,8*	22,8* 22,8*	9,2 14,2	13,8 14,9*	6,0 9,6	9,2 10,8*	4,2 6,8	6,5 7,6*	4,0 4,8*	4,8* 4,8*	25'10"
- 5	Stabilizers raised Blade + 2 pt. outriggers down	15,4 23,8*	23,8* 23,8*	8,7 14,5	14,0 15,0*	5,7 9,3	8,9 10,9*			4,3 5,6*	5,6* 5,6*	24' 1"
-10	Stabilizers raised Blade + 2 pt. outriggers down	15,0 24,5*	24,5* 24,5*	8,2 14,1	13,5 14,5*	5,5 7,8*	7,8* 7,8*			5,2 6,3*	6,3* 6,3*	20'11"
t/3-I	leight 🛛 🗝 🛱 Can be slewed th	rough 360°	n longitu	dinal positio	n of undercar	riage	Max.	reach * Lim	ited 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 ($+/-15^{\circ}$) 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.

Equipment MG8



Operating Weight

The operating weight includes the basic machine with stabilizing blade + 2 point outriggers, hydr. cab elevation, 8 solid tires plus intermediate rings, mono boom 15'1", angled stick 9'10" and multi-tine grab GM 55B/0.52 yd3 semi-closed tines.

41,300 lb

Dimensions

Weight

Equipment over digging axle for transport



•		10) ft	15	i ft	20) ft	25	ft			
↓			l l		1		L L		1			
ft	Undercarriage			- <u>-</u>		<u>-</u>				╺╼╅	2	ft in
25	Stabilizers raised			5,9*	5,9*					5,1*	5,1*	451.00
25	Blade + 2 pt. outriggers down			5,9*	5,9*					5,1*	5,1*	15 0
	Stabilizers raised			7,2*	7,2*	5,4*	5,4*			4,4*	4,4*	001 011
20	Blade + 2 pt. outriggers down			7,2*	7,2*	5,4*	5,4*			4,4*	4,4*	20. 0.
45	Stabilizers raised			8,1*	8,1*	6,3	7,9*			4,2*	4,2*	001 51
15	Blade + 2 pt. outriggers down			8,1*	8,1*	7,9*	7,9*			4,2*	4,2*	23. 5.
10	Stabilizers raised	13,8*	13,8*	9,1	10,3*	6,1	8,8*			4,2*	4,2*	041111
10	Blade + 2 pt. outriggers down	13,8*	13,8*	10,3*	10,3*	8,8*	8,8*			4,2*	4,2*	24.11.
-	Stabilizers raised	14,8	19,8*	8,5	12,9*	5,8	9,0	4,3	5,2*	4,2	4,5*	051 01
5	Blade + 2 pt. outriggers down	19,8*	19,8*	12,9*	12,9*	9,5	10,0*	5,2*	5,2*	4,5*	4,5*	25° 2"
•	Stabilizers raised	14,0	14,6*	8,1	13,2	5,6	8,8			4,3	5,0*	041 70
U	Blade + 2 pt. outriggers down	14,6*	14,6*	13,9	14,6*	9,2	10,8*			5,0*	5,0*	24' 1''
-	Stabilizers raised	13,8	19,4*	7,9	13,0	5,5	8,7			4,7	6,1*	221 01
- 5	Blade + 2 pt. outriggers down	19,4*	19,4*	13,6	14,8*	9,1	10,7*			6,1*	6,1*	22. 9.
10	Stabilizers raised	13,9	19,5*	7,9	13,0					5,7	8,7*	101 51
-10	Blade + 2 pt. outriggers down	19,5*	19,5*	13,1*	13,1*					8,7*	8,7*	19 5.
			7				70					

🎷 Height 📲 Can be slewed through 360° 🖞 In longitudinal position of undercarriage 👘 💭 Max. reach 🔹 Limited by hydr. capacity

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Machine Stabilities Sorting Grabs

LH 18 M – Max. Material Weight in Ib/yd³

Grab	Shell type	Capacity	Direct mounting w Blade + 2 pt. o	ith mounting plate utriggers down	Mounting with SWA 48 Blade + 2 pt. outriggers down		
		yd3	VK8	MK7	VK8	MK7	
SG 20B	perforated	0.52	3,371	3,708	2,191	2,528	
SG 20B	perforated	0.65	2,528	2,865	1,517	1,854	
SG 20B	perforated	0.78	1,854	2,191	1,180	1,348	
SG 20B	perforated	0.92	1,517	1,686	843	1,180	
SG 20B	closed	0.52	3,203	3,708	2,023	2,528	
SG 20B	closed	0.65	2,360	2,697	1,517	1,854	
SG 20B	closed	0.78	1,854	2,191	1,180	1,348	
SG 20B	closed	0.92	1,517	1,686	843	1,011	

Equipment

•=• Undercarriage

Individual control outriggers	٠
Shuttle axle lock, automatic	٠
Outrigger monitoring system	+
Tires, variants	+
Protection for travel drive	٠
Protection for piston rods, outriggers	+
Two lockable storage compartments	٠
Undercarriage, variants	+

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	+



Uppercarriage

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

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

$\approx \stackrel{F}{\sim}$ Cooling System

Reversible fan drive, fully automatic	+
Protective grid in front of cooler intake	•

Operator's Cab

Stabilizer, control lever, left console	+	
Stabilizer, proportional control on left joystick	٠	
Cab lights front, halogen	+	
Cab lights front, halogen (under rain cover)	٠	
Cab lights front, LED	+	
Cab lights front, LED (under rain cover)	+	
Armrest adjustable	٠	
Slewing gear brake Comfort, button on the left or right joystick	+	
Operator's seat Comfort	٠	
Operator's seat Premium	+	
Driving alarm (acoustic signal is emitted during travel, can be switched ON/OFF)	+	
Fire extinguisher	+	
Footrest	+	
Horn, button on left joystick	٠	
Joystick steering (max. 7.5 mph)	٠	
Cab elevation, hydraulic (LHC)	٠	
Cab elevation, hydraulic with tilt function (LHC)	+	
Automatic air conditioning	٠	
Wheel steering (slim version)	+	
LiDAT, vehicle fleet management	٠	
Proportional control	٠	
Radio Comfort, control via display with handsfree set	+	
Preparation for radio installation	٠	
Back-up alarm (acoustic signal is emitted traveling backward, can not be switched off)	+	
Amber beacon, on cabin, LED double flash	+	
Windows made from impact-resistant laminated safety glass	+	
Windscreen wiper, roof	+	
Windshield wiper, entire windscreen	٠	
Top guard	+	
Front guard, adjustable	+	
Sun visor	+	
Left control console, folding	•	

Equipment

Boom lights, 2 pieces, halogen	٠
Boom lights, 2 pieces, LED	+
Stick lights, 2 pieces, halogen	•
Stick lights, 2 pieces, LED	+
Height limitation and stick shutoff, electronically	+
Stick camera (with separate monitor), bottom side, with protection	+
Liebherr quick coupler, hydraulic	+
Pipe fracture safety valves hoist cylinders	•
Pipe fracture safety valves stick cylinders	•
Quick coupling system LIKUFIX	+
Overload warning device	+

Complete Machine

Lubrication

	Edbriddion						
	Lubrication undercarriage, manually – decentralized (grease points)	٠					
	Lubrication undercarriage, manually – centralized (one grease point)	+					
	Central lubrication system for uppercarriage and equipment, automatically						
	Central lubrication system for undercarriage, automatically	+					
	Special coating						
1	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



Grab for Loose Material

Grab model GM 10B			
Width of shells	ft in	3'3"	4'3"
Capacity	yd3	1.31	1.70
Weight	lb	2,415	2,500

Shells for loose material with cutting edge (without teeth)



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



Sorting Grab		perforated	closed	perforated	closed	perforated	closed	perforated	closed
Grab model SG 20B									
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. adapter plate SWA	lb	2,095	2,125	2,195	2,225	2,295	2,315	2,390	2,415

Notes	

The Liebherr Group of Companies



Diverse Product Range

The Liebherr Group is one of the largest construction equipment manufacturers in the world. Liebherr's quality products and services hold a high reputation in many industries. The wide range includes domestic appliances, aerospace and transportation systems, machine tools and maritime cranes.

Exceptional Customer Benefit

Every product line provides a complete range of models in many different versions. With both their technical excellence and superior quality, Liebherr products offer customers the highest benefits in practical applications.

State-of-the-art Technology

Liebherr attributes great importance to the product areas of core technology and components, in order to achieve its consistent, top-quality products. Important modules and components are developed and manufactured in-house, for instance, the entire drive and control technology for the construction equipment and mining trucks.

Worldwide and Family-Owned

Hans Liebherr founded the Liebherr family company in 1949. Since that time, the enterprise has steadily grown to a group of more than 130 companies with more than 48,000 employees located on all continents. The corporate headquarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.

www.liebherr.us