R 950 Litronic



950

Demolition excavator

Generation 6

Engine 220 kW / 299 HP Stage V Tier 4 Final **Operating weight** 53,100–77,100 kg

Working height 29.00 m H/2: 25.50 m

Technical data

🛱 Engine

Rating per ISO 9249	220 kW (299 HP) at 1,800 RPM					
Torque	1,450 Nm at 1,100 RPM					
Model	Liebherr D944 A7-25 (Stage V)					
	or					
	Liebherr D944 A7-24 (Tier 4 Final)					
Туре	4 cylinder in-line					
Bore	130 mm					
Stroke	150 mm					
Displacement	7.9641					
Engine operation	4-stroke diesel					
	Common-Rail, monoturbo					
Exhaust gas treatment	DOC + SCR Filter (Stage V)					
	or					
	SCR (Tier 4 Final)					
Cooling system	Water-cooled and integrated motor oil cooler, after-					
	cooled and fuel cooled					
Air cleaner	Dry-type air cleaner with pre-cleaner, primary and safety					
	elements					
Fuel tank	7701					
Urea tank	901					
Electrical system						
Voltage	24V					
Batteries	2 x 180 Ah / 12 V					
Starter	24V/7.8kW					
Alternator	Three-phase current 28V/140A					
Engine idling	Sensor controlled					
Motor management	Connection to the integrated excavator system con-					
	trolling via CAN-BUS to the economical utilisation of the					
	service that is available					

Hydraulic system

Hydraulic system	Positive Control hydraulic system. Demand-based, double independent pump flows Features high system dynamics and sensitivity provided by integrated system controlling Independent circuit for rotation
Hydraulic pumps	
For equipment and travel drive	Liebherr, variable displacement, swashplate double pump
Max. flow	2 x 305 l/min.
Max. pressure	380 bar
For swing drive	Reversible, variable displacement, swashplate pump, closed-loop circuit
Max. flow	205 l/min.
Max. pressure	400 bar
Pump management	Electronic pump management via the integrated system controlling (CAN-BUS) synchronous to the control block
Hydraulic tank	3801
Hydraulic system	1,150l with demolition equipment
Filtration	1 full flow filter (10 μm) in return line with integrated fine filter area (5 μm)
Cooling system	Compact cooler, consisting of a water cooler, with hydraulic oil cooler, gearbox oil cooler, fuel cooler and after-cooler cores and hydrostatically driven fan
MODE selection	Adjustment of engine and hydraulic performance via a mode pre-selector to match application, e.g. for espe- cially economical and environmentally friendly operation or for maximum digging performance and heavy-duty jobs
RPM adjustment	Stepless adjustment of engine output via RPM at each selected mode
Tool Control	20 pre-adjustable pump flows and pressures for add-on attachments
Attachment system	
Flow	305 l/min.
Pressure	380 bar
Attachment rotation system	
Flow	30l/min.
Pressure	140 bar
Max. pressure	180 bar

\bigcirc Swing drive

Drive	Liebherr swashplate motor with integrated brake valve
Transmission	Liebherr compact planetary reduction gears
Swing ring	Liebherr, sealed race ball bearing swing ring, internal teeth
Swing speed	0-5.8 RPM stepless
Swing torque	160 kNm
Holding brake	Wet multi-disc (spring applied, pressure released)

Hydraulic controls

Power distribution	Via control valves in single block with integrated safety valves
Flow summation	To boom and stick
Closed-loop circuit	For uppercarriage swing drive
Servo circuit	
Equipment and swing	Proportional via joystick levers
Travel	 Proportional control via foot pedals or removable levers Speed pre-selection
Additional functions	Proportional regulation via foot pedals or mini-joystick

🖽 Cab	
Cab	Safety cab structure, headlight integrated under the protection, a door with a sliding window (can be opened on both sides), large storing box and several stowing possibilities, shock-absorbing suspension, sound damp- ing insulating, tinted laminated safety glass, separate window shades for the sunroof window and windscreen, cigarette lighter and 12V plug, storage bins, lunchbox, cup holder, polycarbonate windows on right side
Operator's seat	Liebherr-Comfort seat, airsprung with automatic weight adjustment, vertical and longitudinal seat damping including consoles and joysticks. Seat and armrests adjustable separately and in combination, seat heating as standard
Arm consoles	Oscillating consoles with seat, tiltable console left
Operation and displays	Large high-resolution colour display with intuitive opera- tion via touchscreen, video, additional colour display for front and side camera, versatile adjusting, control and monitoring facilities, e.g. climate control, implement and attachment parameters, specific demolition display
Air-conditioning	Standard automatic air-conditioning, ambient air func- tion, fast de-icing and demisting at the press of a button, air vents can be operated via a menu. Ambient 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 radia- tion, inside and outside temperatures The air conditioning system contains fluorinated green- house gases
Refrigerant	R134a
Global warming potential	1,430
Quantity at 25 °C*	1,260 g
CO ₂ equivalent	1.80t
Vibration emission**	
Hand/arm vibrations	< 2.5 m/s ² , according with ISO 5349-1:2001
Whole-body vibrations	< 0.5 m/s ²
Measuring inaccuracy	According with standard EN 12096:1997
Noise emission	
ISO 6396	$71 dB(A) = L_{pA}$ (inside cab)
2000/14/EC	105 dB(A) = L _{WA} (surround noise)

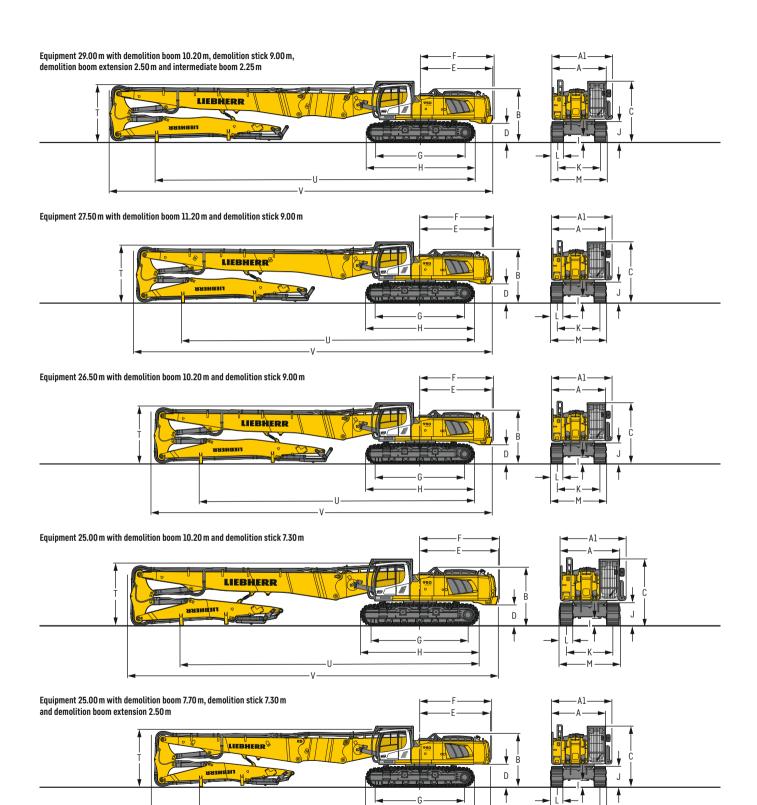
画 Undercarriage

Versions	
VH-HD	Hydraulic variable gauge
LC-V	Mechanical variable gauge
HD	Standard
Drive	Liebherr swashplate motor with integrated brake valve
Transmission	Liebherr compact planetary reduction gear
Maximum travel speed	2.2 km/h low range
	3.1 km/h high range
Drawbar pull on crawler	488 kN (VH-HD)
	457 kN (LC-V / HD)
Track components	D8L, maintenance-free
Track rollers / Carrier rollers	11/3 (VH-HD)
	10/3 (LC-V)
	9/2 (HD)
Tracks	Sealed and greased
Track pads	Triple grouser
Holding brake	Wet multi-disc (spring applied, pressure released)

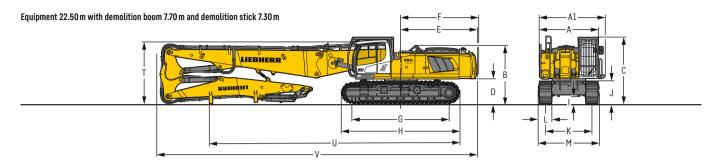
Equipment	
Туре	Combination of resistant steel plates and cast steel components
Hydraulic cylinders	Liebherr cylinders with seal and guidance systems
Bearings	Sealed, low maintenance
Lubrication	Automatic central lubrication system (except link and tilt geometry)
Hydraulic connections	Pipes and hoses equipped with SAE split-flange connec- tions
Buckets	Standard equipped with Liebherr tooth system

Valid for standard machine without operator's cab elevation and without height adjustable cab
 ** For the risk assessment according to 2002/44/EC see ISO/TR 25398:2006





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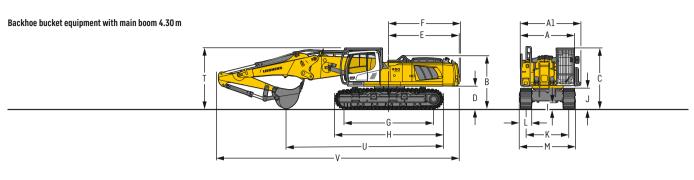
		VH-HD mm	LC-V mm	HD mm
Α	Uppercarriage width	2,985 ²⁾	2,9852)	2,9852)
A1	Uppercarriage width with catwalks	3,325	3,325	3,325
В	Uppercarriage height	2,970	3,180	3,075
С	Cab height	3,395	3,605	3,500
D	Counterweight ground clearance	1,070	1,280	1,175
Ε	Rear-end length	4,015	4,015	4,015
F	Tail swing radius	4,060	4,060	4,060
G	Wheelbase	4,640	4,500	4,500
Н	Undercarriage length	5,700	5,555	5,550
1	Undercarriage ground clearance	350	800	570
J	Track height	1,135	1,175	1,225
Κ	Track gauge	2,380-3,430 ³	2,390-2,890 ³	2,900
L	Track pad width	600	600	600
Μ	Width over tracks	3,100-4,150 ³⁾	2,990-3,490 ³	3,500
Ν	Width over steps	3,370-4,42013	3,200-3,7001)3)	3,715

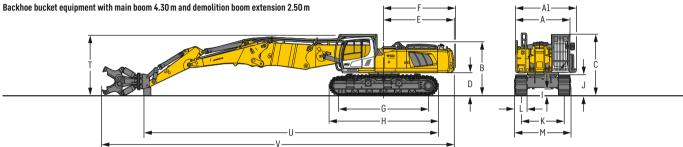
width with removable steps
 without door stop device and spacer
 work position

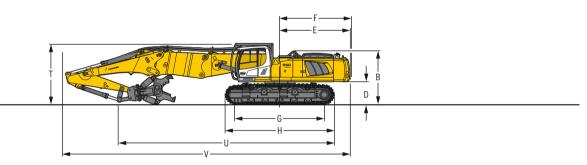
		Demolition equipment 29.00 m	Demolition equipment 27.50 m			Demolition equipment 26.50 m		
		mm	mm				mm	
		VH-HD	VH-HD	LC-V	HD	VH-HD	LC-V	HD
Т	Boom height	3,200	3,200	3,400	3,300	3,200	3,400	3,300
U	Length on ground	17,450	15,050	15,100	15,100	14,950	15,000	15,000
۷	Overall length	21,500	20,000	20,000	20,000	19,000	19,000	19,000

				Demolition equipment 25.00 m with demolition boom 7.70 m mm			Demolition equipment 22.50 m mm			
		VH-HD	LC-V	HD	VH-HD	LC-V	HD	VH-HD	LC-V	HD
Т	Boom height	3,200	3,400	3,300	3,200	3,400	3,300	3,200	3,400	3,300
U	Length on ground	12,450	12,500	12,500	14,950	15,000	15,000	12,450	12,500	12,500
٧	Overall length	19,000	19,000	19,000	18,900	18,900	18,900	16,400	16,400	16,400



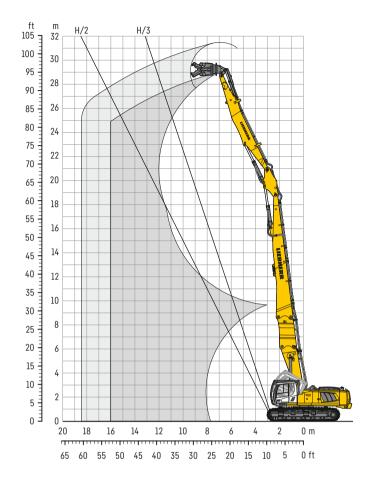






		Stick length	Backhoe bucket equipment			Backhoe bucket equipment with demolition boom extension			
		m		mm			mm	mm	
			VH-HD	LC-V	HD	VH-HD	LC-V	HD	
T Boo	om height	2.10	3,400	3,500	3,450	3,400	3,500	3,450	
		2.60	3,450	3,550	3,500	3,350	3,450	3,400	
U Ler	ngth on ground	2.10	8,400	8,450	8,500	10,900	10,950	11,000	
		2.60	7,950	7,950	8,050	11,650	11,750	11,800	
U1		2.10	-	-	-	-	-	-	
		2.60	-	-	-	16,000	16,150	16,200	
V Ove	erall length	2.10	13,500	13,500	13,500	16,000	16,000	16,000	
		2.60	13,500	13,500	13,500	16,000	11,600	16,000	
V1		2.10	-	-	-	-	-	-	
		2.60	-	-	-	19,600	19,600	19,600	

Demolition equipment 29.00 m



Reach limitation

		13 m	14 m	16 m	18 m	
Demolition boom 10.20 m						
+ Demolition boom extension 2.50 m						
+ Intermediate boom 2.25 m		Attachment weight*				
+ Demolition stick 9.00 m		t				
VH-HD undercarriage	lengthwise	3.00	3.00	3.00	2.25	
	transverse	3.00	2.75	2.25	1.75	

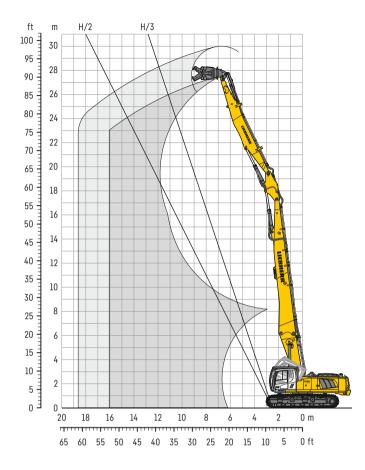
* included quick coupler, adapter plate and attachment

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 13.1t including 3.9t removable, demolition boom 10.20 m, demolition boom extension 2.50 m, intermediate boom 2.25 m, demolition stick 9.00 m and attachment 3.0 t.

Undercarriage	VH-H	ID
Pad width	mm 60	00
Weight	kg 77,10	00
Ground pressure	kg/cm ² 1.2	28

Demolition equipment 27.50 m



Reach limitation

		12 m	14 m	16 m
Demolition boom 11.20m + Intermediate boom 2.25 m + Demolition stick 9.00 m		Attachment weight* t		
VH-HD undercarriage	lengthwise	3.00	3.00	3.00
	transverse	3.00	3.00	2.25
LC-V undercarriage	lengthwise	3.00	3.00	2.50
	transverse	3.00	2.00	1.50
HD undercarriage	lengthwise	-	-	-
	transverse	-	-	-

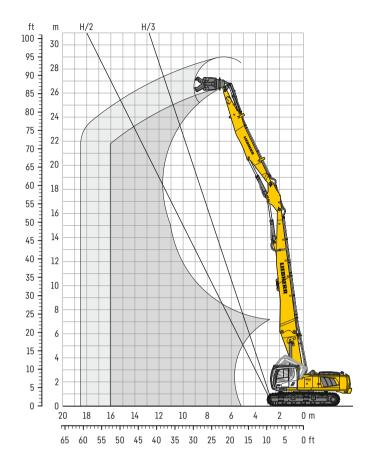
* included quick coupler, adapter plate and attachment

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 13.1t including 3.9t removable, demolition boom 11.20 m, intermediate boom 2.25 m, demolition stick 9.00 m and attachment 3.0 t.

Undercarriage		VH-HD	LC-V	HD
Pad width	mm	600	600	600
Weight	kg	75,550	68,050	65,050
Ground pressure	kg/cm ²	1.26	1.16	1.11

Demolition equipment 26.50 m



Reach limitation

		12 m	14 m	16 m
Demolition boom 10.20 m			achme	
+ Intermediate boom 2.25 m + Demolition stick 9.00 m		weight*		
VH-HD undercarriage	lengthwise	3.00	3.00	3.00
VH-HD ullueicallage	transverse		3.00	2.50
LC-V undercarriage	lengthwise		3.00	2.50
up	transverse	3.00	2.00	1.50
HD undercarriage	lengthwise	3.00	3.00	2.25
	transverse	2.75	2.00	-

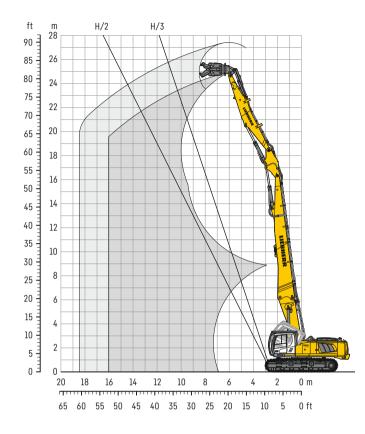
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Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 13.1t including 3.9t removable, demolition boom 10.20 m, intermediate boom 2.25 m, demolition stick 9.00 m and attachment 3.0 t.

Undercarriage		VH-HD	LC-V	HD
Pad width	mm	600	600	600
Weight	kg	73,900	66,400	63,400
Ground pressure	kg/cm ²	1.23	1.14	1.08

Demolition equipment 25.00 m



Reach limitation

		12 m	14 m	16 m		
Demolition boom 10.20 m			Attachment			
+ Intermediate boom 2.25 m		weight*				
+ Demolition stick 7.30 m			t			
VH-HD undercarriage	lengthwise	3.50	3.50	3.50		
	transverse	3.50	3.00	2.25		
LC-V undercarriage	lengthwise	3.50	3.50	2.75		
	transverse	3.00	2.25	1.50		
HD undercarriage	lengthwise	3.50	3.50	2.75		
	transverse	2.75	2.00	1.50		

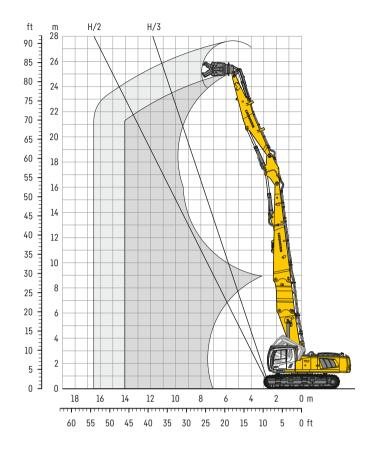
* included quick coupler, adapter plate and attachment

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 13.1t including 3.9t removable, demolition boom 10.20 m, intermediate boom 2.25 m, demolition stick 7.30 m and attachment 3.5 t.

Undercarriage	V	H-HD	LC-V	HD
Pad width	mm	600	600	600
Weight	kg 74	4,100	66,600	63,600
Ground pressure	kg/cm ²	1.23	1.14	1.09

Demolition equipment 25.00 m



Reach limitation

		12 m	14 m	16 m
Demolition boom 7.70 m				
+ Demolition boom extension 2.50 m		At	tachme	ent
+ Intermediate boom 2.25 m		۱	veight'	ĸ
+ Demolition stick 7.30 m			ť	
VH-HD undercarriage	lengthwise	3.50	3.50	3.25
	transverse	3.50	2.75	2.00
LC-V undercarriage	lengthwise	3.50	3.25	2.25
	transverse	2.25	1.50	-
HD undercarriage	lengthwise	3.50	3.00	2.25
	transverse	2.50	1.75	-

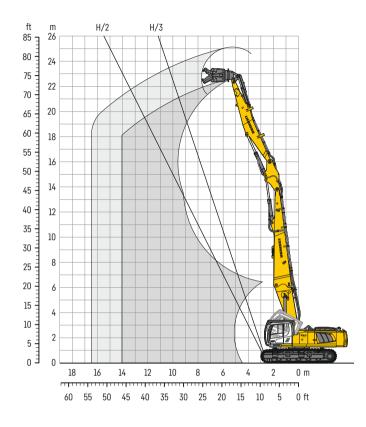
* included quick coupler, adapter plate and attachment

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 13.1t including 3.9t removable, demolition boom 7.70 m, demolition boom extension 2.50 m, intermediate boom 2.25 m, demolition stick 7.30 m and attachment 3.25 t.

Undercarriage		VH-HD	LC-V	HD
Pad width	mm	600	600	600
Weight	kg	75,850	68,350	65,350
Ground pressure	kg/cm ²	1.26	1.17	1.12

Demolition equipment 22.50 m



Reach limitation

		10 m	12 m	14 m		
Demolition boom 7.70 m			Attachment			
+ Intermediate boom 2.25 m			veight	*		
+ Demolition stick 7.30 m			t			
VH-HD undercarriage	lengthwise	3.50	3.50	3.50		
	transverse	3.50	3.50	2.25		
LC-V undercarriage	lengthwise	3.50	3.50	2.75		
	transverse	3.50	2.50	1.50		
HD undercarriage	lengthwise	3.50	3.50	2.50		
	transverse	3.25	2.50	1.50		

* included quick coupler, adapter plate and attachment

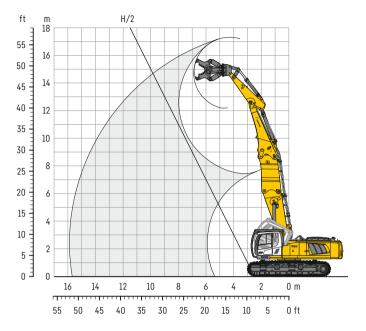
Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 9.2 t, demolition boom 7.70 m, intermediate boom 2.25 m, demolition stick 7.30 m and attachment 3.5 t.

Undercarriage		VH-HD	LC-V	HD
Pad width	mm	600	600	600
Weight	kg	69,300	61,800	58,800
Ground pressure	kg/cm ²	1.15	1.06	1.00

Backhoe bucket

with main boom 4.30 m and demolition boom extension 2.50 m



Operating weight and ground pressure

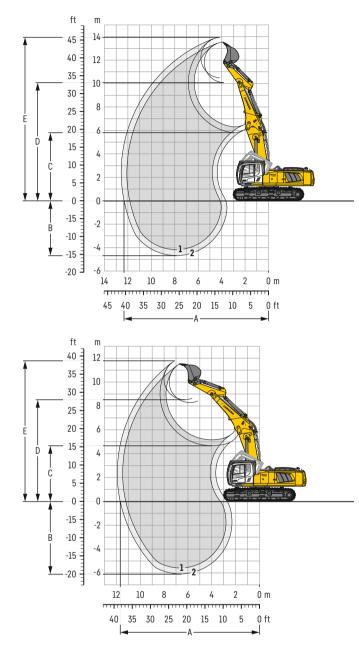
The operating weight includes the basic machine with counterweight 9.2t, main boom 4.30 m, demolition boom extension 2.50 m, HD stick 2.60 m and attachment* 4.5 t.

Undercarriage		VH-HD	LC-V	HD
Pad width	mm	600	600	600
Weight	kg	69,925	62,425	59,425
Ground pressure	kg/cm ²	1.16	1.07	1.01

* included quick coupler, adapter plate and attachment

Backhoe bucket

with main boom 4.30 m



Buckets Machine stability per ISO 10567* (75% of tipping capacity)

Main boom pinned in upper (in lower) bearing

		1	2
Stick length	m	2.10	2.60
A Max. reach at ground level	m	11.85 (11.20)	12.35 (11.70)
B Max. digging depth	m	4.20 (5.60)	4.70 (6.10)
C Min. dumping height	m	6.30 (5.15)	5.80 (4.65)
D Max. dumping height	m	10.05 (8.30)	10.50 (8.50)
E Max. cutting height	m	13.55 (11.50)	13.95 (11.80)

Forces

		1	2
Stick digging force (ISO 6015)	kN	229	201
Bucket digging force (ISO 6015)	kN	237	237
Stick digging force (SAE J1179)	kN	218	193
Bucket digging force (SAE J1179)	kN	212	212
Max. bucket digging force ISO			300 kN

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 9.2 t, main boom 4.30 m, HD stick 2.10 m and HD bucket $1.25 \, \text{m}^3$ (1,380 kg).

Undercarriage		VH-HD	LC-V	HD
Pad width	mm	600	600	600
Weight	kg	63,600	56,100	53,100
Ground pressure	kg/cm ²	1.06	0.96	0.91

Cutting width	apacity 0 7451	/eight	(with track	dercarriage pads 600 mm)	(with track	ercarriage pads 600 mm)	HD undercarriage (with track pads 600mm) Stick length (m)				
≤ũ	<u>ଅ ହ</u>	3	Stick le	ength (m)	Stick le	ength (m)					
mm	m ³	kg	2.10	2.60	2.10	2.60	2.10	2.60			
1,350	1.50	1,470	A	▲	A	A	A	A			
1,500	1.75	1,560	A	A	A	A	A	A			
1,650	2.00	1,700	A	▲ (A	A	A	A			
1,650	2.25	1,820	A	A	A	A	A				
1,850	2.50	1,990	A	A	A						

* Indicated loads are based on ISO 10567, at maximum reach, and may be swung 360° on firm and even ground

Max. material weight ▲ = ≤ 2.0 t/m³, ■ = ≤ 1.8 t/m³, ■ = ≤ 1.5 t/m³

Lift capacities

with main boom 4.30 m (pinned in upper bearing), counterweight 9.2 t and track pads 600 mm

Stic	:k 2.1	.0 m													Stic	:k 2.6	50 m												
, ee	t de	4.	5 m	6.0) m	7.9	5 m	9.	0 m	10.5 m	ו י	0	~2	E E	, ep	1	4.	5 m	6.0)m	7.	5 m	9.	Om	10.	5 m	0	~2	
Under- carriage	m		Ŀ		Ľ	-5	Ŀ		Ŀ		5		P	m	Under- carriage	m		Ŀ		Ŀ		Ŀ		ľ		Ŀ		Å	m
	12.0	-000	000		000		000	-000	Desc			-000	000			12.0	12.9*	12.9*		000	-000	bind		000	-000	000	12.1*	12.1*	4.6
	10.5			14.8*	14.8*							12.1*	12.1*	6.2		10.5	12.17	12.17	13.6*	13.6*							9.2*	9.2*	7.0
	9.0	16.9*	16.9*	17.6*	17.6*	14.8*	14.8*					10.4*	10.4*	7.9		9.0			13.9*	13.9*	13.3*	13.3*					8.2*	8.2*	8.5
	7.5	28.7*	28.7*	22.1*	22.1*	15.7	18.6*					9.7*	9.7*	9.0		7.5	17.7*	17.7*	16.4*	16.4*	15.4*	15.4*	11.9	12.3*			7.6*	7.6*	9.5
문	6.0			21.0	24.2*	15.2	19.4*	11.5	16.7*			9.4*	9.4*	9.7	문	6.0			21.4	23.3*	15.3	19.0*	11.6	15.7*			7.4*	7.4*	10.2
OH-HV	4.5					14.5	20.3*	11.2	17.0*			9.3*	9.3*	10.1	DH-HV	4.5			19.9	25.5*	14.6	20.0*	11.3	16.7*	9.0	9.5*	7.4*	7.4*	10.6
_	3.0					13.9	20.8*	10.9	16.7			9.0	9.5*	10.3	-	3.0					14.0	20.6*	10.9	16.7	8.8	12.6*	7.5*	7.5*	10.8
	1.5					13.6	20.4*	10.7	16.4			9.0	9.9*	10.3		1.5					13.6	20.6*	10.7	16.4	8.7	13.2	7.8*	7.8*	10.8
	0					13.5	19.2*	10.6	15.9*			9.3	10.6*	10.0		0			13.9*		13.4	19.7*	10.5	16.2*	8.7	9.5*	8.3*	8.3*	10.5
	- 1.5					13.6	17.0*	10.7	13.8*			10.1	11.9*	9.5		-1.5			18.6	20.5*	13.5	17.8*	10.6	14.6*			9.2*	9.2*	10.1
	12.0															12.0	14.0*	14.0*									11.6*	11.6*	4.6
	10.5			15.8*	15.8*							11.8*	11.8*	6.2		10.5			13.7*	13.7*							9.1*	9.1*	7.0
	9.0	17.1*	17.1*	17.3	17.8*	11.9	15.5*					10.3*	10.3*	7.9		9.0			14.0*	14.0*	12.2	13.5*					8.1*	8.1*	8.5
-	7.5	25.8	29.1*	16.5	22.3*	11.6	18.0	8.6	10.7*		_	8.5	9.6*	9.0		7.5	19.6*	19.6*	16.8	17.0*	11.8	15.7*	8.8	12.6*			7.6*	7.6*	9.5
-V	6.0			15.1	24.4*	11.1	17.4	8.4	13.1			7.4	9.4*	9.7	LC-V	6.0			15.5	23.5*	11.2	17.6	8.5	13.2		10.0*	6.8	7.4*	10.2
-	4.5					10.4	16.7	8.1	12.8		_	6.8	9.3*	10.1	-	4.5			14.1	23.5	10.6	16.8	8.2	12.8	6.5 6.3	10.0*	6.3	7.4*	10.6
	3.0 1.5					9.9 9.6	16.1 15.8	7.8	12.4 12.2			6.5 6.4	9.5* 10.0*	10.3 10.3		3.0 1.5					10.0 9.6	16.2 15.8	7.8	12.5 12.2	0.3 6.2	10.0 9.9	6.0 6.0	7.5* 7.8*	10.8 10.8
	1.5			10.8*	10.8*	9.5	15.8	7.6	12.2			6.7	10.0	10.5		1.5			12.9	14.7*	9.0	15.6	7.5	12.2	6.2	8.6*	6.2	8.4*	10.8
	-1.5			10.0	10.0	9.7	15.8	7.7	12.2			7.3	11.6	9.5		-1.5			13.0	20.2*	9.5	15.7	7.5	12.1	0.2	0.0	6.7	9.3*	10.1
	12.0					7.7	10.0	1.1	12.5			7.5	11.0	7.5		12.0	13.7*	13.7*	10.0	20.2	7.5	10.7	7.5	12.2			11.8*	11.8*	4.6
	10.5			15.4*	15.4*							11.9*	11.9*	6.2		10.5	10.7	10.7	13.6*	13.6*							9.2*	9.2*	7.0
	9.0	17.0*	17.0*	16.6	17.7*	11.4	15.2*					10.1	10.4*	7.9		9.0			14.0*		11.6	13.5*					8.1*	8.1*	8.5
	7.5	24.9	28.9*	15.8	22.2*	11.1	17.5	8.1	9.9*			8.1	9.7*	9.0		7.5	18.7*	18.7*	16.2	16.7*	11.3	15.5*	8.3	12.5*			7.4	7.6*	9.5
~	6.0			14.5	24.1	10.6	16.9	8.0	12.7			7.0	9.4*	9.7	~	6.0			14.9	23.5*	10.7	17.1	8.1	12.8			6.5	7.4*	10.2
문	4.5					9.9	16.1	7.7	12.3			6.4	9.3*	10.1	문	4.5			13.5	22.8	10.1	16.3	7.8	12.4	6.1	9.8	6.0	7.4*	10.6
	3.0					9.4	15.5	7.4	12.0			6.1	9.5*	10.3		3.0					9.5	15.6	7.4	12.0	6.0	9.6	5.7	7.5*	10.8
	1.5					9.1	15.2	7.2	11.8			6.1	9.8	10.3		1.5					9.1	15.2	7.2	11.7	5.9	9.5	5.7	7.8*	10.8
	0			10.2*	10.2*	9.0	15.1	7.1	11.7			6.3	10.2	10.0		0			12.2	14.3*	8.9	15.0	7.1	11.6	5.9	9.0*	5.9	8.4*	10.5
	-1.5					9.1	15.2	7.3	11.8			6.9	11.1	9.5		- 1.5			12.3	20.4*	9.0	15.1	7.1	11.7			6.3	9.2*	10.1

with main boom 4.30 m (pinned in upper bearing), counterweight 9.2 t and track pads 600 mm

Sti	ck 2.1	10 m													Stic	:k 2.6	50 m												
a	T AF	4.5	m	6.0	Dm	7.	5 m	9.	0 m	10.5	5 m			þ	e	T AF	4.5	ōm	6.0	Dm	7.5	ōm	9.0	0 m	10.5	im		\sim	þ
Under- carriage) Ø		J		1		J		1		J		1		Under- carriage	[#		Д		Д		L.		J		J		1	
55	m		Ľ		Ľ		Ľ		Ľ		Ľ		Ľ	m	a L	m	-47	Ľ		Ľ		Ľ		Ľ		Ľ		Ľ	m
	9.0											10.0*	10.0*	7.0		9.0					9.3*	9.3*					7.8*	7.8*	7.7
	7.5			18.5*	18.5*	16.3	16.4*					9.4*	9.4*	8.2		7.5					14.2*	14.2*					7.4*	7.4*	8.8
	6.0			20.8*	20.8*	15.8	17.4*	9.8*	9.8*			9.3*	9.3*	9.0		6.0	26.1*	26.1*	19.7*	19.7*	16.1	16.7*	12.1	12.2*			7.4*	7.4*	9.5
≘	4.5			20.7	23.7*	15.1	18.7*	11.6	16.2*			9.5*	9.5*	9.5	9	4.5			21.1	22.6*	15.3	18.1*	11.7	15.7*			7.5*	7.5*	10.0
OH-HV	3.0			18.2*	18.2*	14.5	20.0*	11.3	16.8*			9.9*		9.7	DH-HV	3.0			19.8	25.2*	14.6	19.5*	11.3	16.4*			7.8*	7.8*	10.2
⋝	1.5			16.9*	16.9*	14.0	20.8*	11.0	16.8			10.0	10.7*	9.7	>	1.5			19.0	23.1*	14.1	20.5*	11.0	16.8			8.4*	8.4*	10.1
	0			18.8	25.7*	13.8	20.8*	10.9	16.6			10.3	12.0*	9.4		0			18.8	26.2*	13.8	20.8*	10.8	16.6			9.3*	9.3*	9.9
	-1.5			18.9	24.4*	13.8	19.9*					11.1	14.3*	8.9		-1.5		16.2*	18.8	25.1*	13.7	20.2*	10.8	16.4*				10.8*	9.4
	-3.0			19.2	21.7*	14.0	17.6*					12.9	15.9*	8.0		-3.0	27.3*	27.3*	19.0	22.9*	13.8	18.5*					11.7	13.6*	8.6
	9.0											9.9*	9.9*	7.0		9.0					10.2*	10.2*					7.8*	7.8*	7.7
	7.5			17.5	18.7*	12.2	16.6*					9.4*	9.4*	8.2		7.5			16.9*	16.9*	12.5	14.6*					7.4*	7.4*	8.8
	6.0	_		16.3	21.0*	11.7	17.5*	8.8	10.9*			8.6	9.3*	9.0		6.0	25.6	26.8*	16.7	20.0*	11.9	16.8*	8.9	12.7*			7.4*	7.4*	9.5
LC-V	4.5			14.8 13.7	24.0* 17.3*	11.1	17.4 16.7	8.5 8.2	13.2 12.8			7.7	9.5* 10.0*	9.5 9.7	- C-	4.5 3.0			15.3 14.0	22.9* 23.4	11.2 10.6	17.6 16.8	8.6 8.2	13.3 12.9			7.2	7.5* 7.8*	10.0
2	3.0 1.5			13.7	17.5*	10.4	16.2	7.9	12.6			7.2	10.0*	9.7	2	1.5			13.4	22.6	10.8	16.3	7.9	12.9			6.7	8.4*	10.2
	1.5			13.3	22.4	9.8	16.0	7.8	12.0			7.4	10.8	9.4		1.5			13.4	22.0	9.8	16.0	7.7	12.0			6.9	0.4 9.4*	10.1 9.9
	-1.5			13.2	22.4	9.8	16.0	7.0	12.4			8.1	12.9	8.9		- 1.5	17.2*	17.2*	13.2	22.4	9.7	15.9	7.7				7.4	11.0*	9.4
	-3.0			13.6	21.4*	10.1	16.3					9.5	15.2	8.0		-3.0	17.2	17.2	13.4	22.6*	9.9	16.1	1.1	12.4			8.5	13.7	8.6
	9.0			10.0	21.4	10.1	10.5					9.9*	9.9*	7.0		9.0			10.4	22.0	9.8*	9.8*					7.8*	7.8*	7.7
	7.5			16.8	18.6*	11.7	16.5*					9.4*	9.4*	8.2		7.5			16.7*	16.7*	11.9	14.4*					7.4*	7.4*	8.8
	6.0			15.6	20.9*	11.2	17.5*	8.3	10.5*			8.2	9.3*	9.0		6.0	24.7	26.5*	16.0	19.9*	11.4	16.8*	8.5	12.5*			7.4*	7.4*	9.5
	4.5			14.2	23.7	10.6	16.9	8.1	12.7			7.4	9.5*	9.5		4.5			14.6	22.8*	10.7	17.1	8.2	12.9			6.9	7.5*	10.0
문	3.0			13.1	17.6*	9.9	16.2	7.8	12.4			6.9	10.0*	9.7	문	3.0			13.4	22.7	10.1	16.3	7.8	12.5			6.5	7.8*	10.2
-	1.5			12.6	17.2*	9.5	15.7	7.5	12.1			6.8	10.8*	9.7	_	1.5			12.7	21.9	9.5	15.7	7.5	12.1			6.4	8.4*	10.1
	0			12.5	21.7	9.3	15.4	7.4	12.0			7.0	11.3	9.4		0			12.5	21.7	9.3	15.4	7.3	11.9			6.5	9.4*	9.9
	-1.5			12.6	21.9	9.3	15.4					7.6	12.3	8.9		-1.5	16.8*	16.8*	12.5	21.7	9.2	15.3	7.3	11.9			7.0	10.9*	9.4
	-3.0			12.9	21.5*	9.5	15.7					8.9	14.5	8.0		-3.0	19.9	27.3*	12.7	22.0	9.3	15.5					8.0	13.1	8.6
	4							Ģ																					

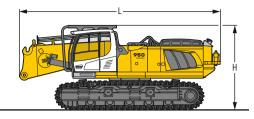
🕼 Height 🕤 Can be slewed through 360° 🖞 In longitudinal position of undercarriage 🏾 🖓 Max. reach 🔹 Limited by hydr. capacity

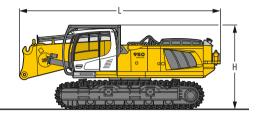
The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads. Indicated loads are based on ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 625 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.

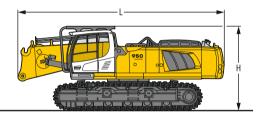
According to European Standard, EN 474-5: In the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic safety check valves on hoist cylinders and stick cylinder(s), when they are used for lifting operations which require the use of lifting accessories.

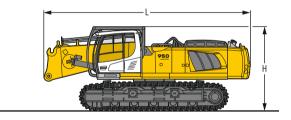
Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.

Dimensions and weights









Basic machine

without counterweight with cab tiltable 30° and integral protection grid

		VH-HD	LC-V	HD
L	mm	8,150	8,150	8,150
Н	mm	3,395	3,605	3,500
Weight	kg	48,100	40,600	37,600

Basic machine

without counterweight with cab tiltable 30° and integral protection grid on tilting device

		VH-HD	LC-V	HD
L	mm	8,150	8,150	8,150
Н	mm	3,395	3,605	3,500
Weight	kg	48,500	41,000	38,000

Basic machine

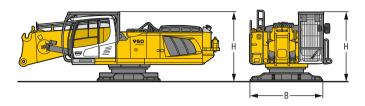
with counterweight 9.2 t, cab tiltable 30° and integral protection grid

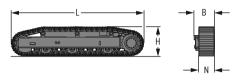
		VH-HD	LC-V	HD
L	mm	8,400	8,400	8,400
н	mm	3,395	3,605	3,500
Weight	kg	56,000	48,500	45,500

Basic machine

with counterweight 9.2 t, cab tiltable 30° and integral protection grid on tilting device

	VI	H-HD	LC-V	HD
L	mm 8	3,400	8,400	8,400
Н	mm 3	,395	3,605	3,500
Weight	kg 56	,400	48,900	45,900





Basic machine without side frames

В		mm 2,995
Н	Height	mm 2,810
	Weight	kg 26,100

Side frame

Counterweight

L Length H Height Width Weight

TOP	LC-V undercar	rriage		
L	Length	n	nm	5,555
Н	Height	n	nm	1,175
Ν		n	nm	600
В		n	nm	795
	Weight		kg	7,400



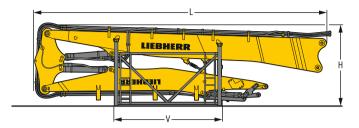
⊢L→

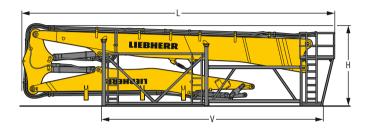
Additional counterweight

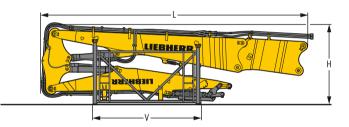
L	Length	mm 1,260
Н	Height	mm 400
	Width	mm 2,990
	Weight	kg 3,900

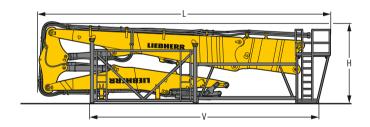
mm910mm1,290mm2,970kg7,900

Dimensions and weights









Demolition equipment

with	storage	rack
------	---------	------

			22.50 m	25.00 m	26.50 m	27.50 m
L	Length	mm	8,450	10,950	10,920	11,930
Н	Height	mm	3,300	3,300	3,300	3,300
۷		mm	4,450	4,450	4,445	4,445
	Width	mm	2,200	2,200	2,200	2,200
	Weight without attachment	kg	10,100	11,200	11,400	13,050

Demolition equipment with storage rack with catwalks

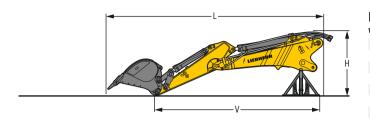
			22.50 m	25.00 m	26.50 m	27.50 m
L	Length	mm	9,500	11,850	11,830	12,840
н	Height	mm	3,300	3,300	3,300	3,300
۷		mm	6,200	9,150	4,445	4,445
	Width	mm	2,500	2,500	2,485	2,485
	Weight without attachment	kg	10,700	12,000	12,200	13,850

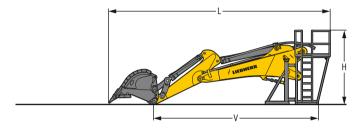
Demolition equipment with demolition boom extension with storage rack

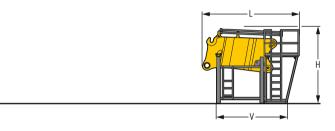
			25.00 m	29.00 m
L	Length	mm	10,950	13,450
Н	Height	mm	3,250	3,300
۷		mm	4,450	7,700
	Width	mm	2,200	2,200
	Weight without attachment	kg	13,190	14,450

Demolition equipment with demolition boom extension with storage rack with catwalks

			25.00 m	29.00 m
L	Length	mm	12,000	14,100
Н	Height	mm	3,250	3,300
۷		mm	8,700	10,350
	Width	mm	2,500	2,500
	Weight without attachment	kg	14,110	15,550







Backhoe equipment

with	i storage rack			
	Main boom length	m	4.	30
	Stick length	m	2.10	2.60
L	Length	mm	8,400	8,900
Н	Height	mm	2,600	2,600
۷		mm	6,100	6,600
	Width	mm	1,800	1,800
	Weight without bucket	kg	6,050	6,150

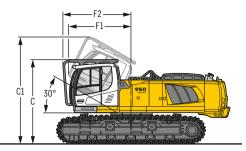
Backhoe equipment with storage rack with catwalks

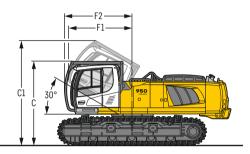
with sto	rage rack with catwalks		
Ma	in boom length m	4.	30
Sti	ck length m	2.10	2.60
L Ler	gth mm	9,000	9,520
H Hei	ght mm	3,020	3,020
V	mm	6,700	7,220
Wi	lth mm	2,500	2,500
We	ight without bucket kg	6,185	6,300

Demolition boom extension with storage rack with catwalks

	-		
L	Length	mm	3,950
Н	Height	mm	3,150
۷		mm	2,925
	Width	mm	2,485
	Weight	kg	4,160

Choice of cab elevations





Version

with cab tiltable 30° and integral protection grid

C mm 3,3	5 3 605	7 500
	0 0,000	5,500
C1 mm 4,2	40 4,450	4,345
F1 mm 2,5	0 2,540	2,540
F2 mm 2,7	0 2,770	2,770

Version

with cab tiltable 30° and integral protection grid on tilting device

C mm 3,395 3,605 3 C1 mm 4,240 4,450 4	HD
C1 mm 4.240 4.450 4	500
	345
F1 mm 2,570 2,570 2	570
F2 mm 2,730 2,730 2	730

Serial equipment

Undercarriage

Lashing eyes Sprocket double-toothed Track rollers, lifetime-lubricated

🕮 Uppercarriage

Anti-skid surfaces Automatic swing brake lock Centralised lubrication system (automatic) Engine hood with gas spring opening Handrails Lockable fuel tank cap Lockable tool box Removable counterweight Sound insulation

Hydraulic system

Filter with integrated fine filters High pressure circuit with Tool Control and LDC Hydraulic pressure measuring ports Medium pressure circuit Pressure accumulator for controlled lowering of equipment with engine turned off Shut-off valve between hydraulic tank and pumps

🗒 Engine

Air filter with automatic dust ejector Automatic engine idling / speed increase, controlled via joystick sensors Common-Rail injection system Exhaust gas after-treatment system - DOC + SCR Fixed geometry turbocharger Fuel pre-filter and water separator Intercooler Power Pack EU Stage V



7" multifunction colour touchscreen + demolition display for LDC Air conditioning, automatic, tri-zone, controlled via display Bottle holder Cab door sliding windows Cigarette lighter Coat hook DEF level on touchscreen Engine oil level on touchscreen Fuel level on touchscreen Hydraulic oil level on touchscreen Impact resistant one-piece windscreen Impact resistant roof window Integral front wiper and washer Integral protection guard Interior lighting Left hand side view monitoring camera LiDAT Plus (Liebherr data transfer system)* Mechanical hour meter, visible from ground level Rear view monitoring camera Rear window emergency exit Right hand side view monitoring camera Roll-down sun blinds for windscreen and roof window Roof wiper and washer Rubber floor mat, fixed on floor and removable Storage spaces Visco-elastic damping Work mode selector



Pipe fracture safety valves for boom cylinders Standard boom with quick change coupling

Equipment standard / option

Undercarriage

-	
Chain guide 1 piece	•
Chain guide 4 pieces	+
Chain guide full length	+
Chain scrapers	+
Special painting	+
Steps	•
Steps wide	+
Tracks, sealed and greased	•
Undercarriage HD	+
Undercarriage LC-V	+
Undercarriage VH-HD	+
-	•

Dppercarriage

	Air compressor	+
	Boxing ring	+
	Catwalks tiltable left and right	+
	Electric socket on uppercarriage (24V)	+
	Extended tool set including tool box	+
	Fogging system	+
	Headlight on uppercarriage, front right, LED, 1 piece, protection included	•1]
	Headlight on uppercarriage, front right, LED+, 1 piece, protection included	+1)
	Headlight on uppercarriage, lateral left, LED+, 1 piece	+1)
	Headlights on uppercarriage, rear, LED+, 2 pieces	+1)
	Lighting for tank area	+1)
	Lighting for uppercarriage access	+1)
	Radiator fine mesh protection grid	+
	Reversible fan drive	+
	Rock protection (swing gear and lubrication pipes)	+
	Special painting	+
	Tank refilling pump fuel	+
	Tool set including storage case	٠
	Transport device for the counterweight	+
	Uppercarriage bottom and side protection	+

Hydraulic system

Bypass filter for hydraulic oil	+
Filter for hydraulic hammer return flow	+
High flow	+
Hydraulic for counterweight	+
Liebherr hydraulic oil	•
Liebherr hydraulic oil, adapted for extreme climate conditions	+
Liebherr hydraulic oil, biodegradable	+
Pre-heating system for hydraulic oil (240 V)	+

🗒 Engine

Automatic engine shutdown after idling	+
Pre-heating system for fuel, coolant and engine oil (240V)	+

🖓 Cab

2" seat belt with retractor	•
3" seat belt with retractor, orange colour	+
4-points seat belt	+
Acoustic travel alarm deactivatable	+
Additional air filtration	+
Air system for roof window cleaning	+
Auxilary heater programmable	+
Coming / Leaving Home with lighting for cabin access	+
Cool box (12 V)	+
Dark tinted windows	+
Electrically adjustable and heated outside rear-view mirrors	+
Electronic immobiliser	+
Emergency stop in cab	+
Fire extinguisher	+
Footrest	+
Headlights on cab, front, LED, 2 pieces	•1)
Headlights on cab, front, LED+, 2 pieces	+1)
Luminosity control (LED+ headlights)	+1)
Operator seat Comfort	•
Operator seat Premium	+
Radio Comfort	+
Radio pre-installation	•
Rotating beacon on cabin, LED, 1 piece	+
Sun visor	+

Equipment

Boom bottom protection	+
Boom cylinders rod protection	+
Bucket cylinder rod protection for backhoe equipment	+
Camera for equipment	+
Centralised lubrication extended for connecting link for backhoe equipment	+
Fogging system for backhoe equipment	+
Fogging system for demolition equipment	+
Headlight on boom, on each side, LED, 1 piece, protection included	•1)
Headlight on boom, on each side, LED+, 1 piece, protection included	+1)
Headlights on equipment, LED, 4 pieces, protections included	٠
Headlights on equipment, LED+, 4 pieces, protections included	+
High pressure circuit for backhoe equipment	+
Medium pressure circuit for backhoe equipment	+
Overload warning system	+
Pipe fracture safety valve for stick cylinder for backhoe equipment	+
Quick coupler for standard boom	+
Quick coupler SWA 66 hydraulic	+
Quick coupler SWA 66 mechanical	+
Solidlink for quick coupler SWA 66 hydraulic	+
Standard boom with multicouplers for demolition boom and backhoe equipment	+
Stick bottom protection	+
Storage rack with catwalks	+
Tool Management	+

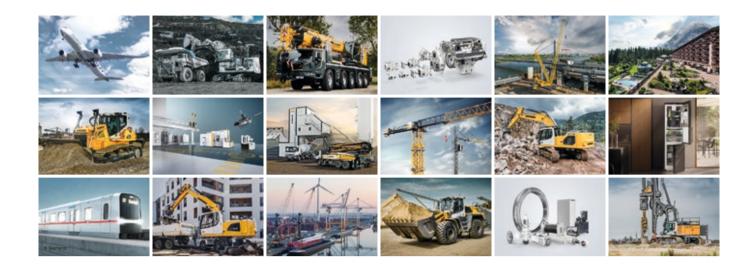
• = Standard, + = Option

 $^{\rm D}$ Equipment not individually available, but only as predefined packages Non-exhaustive list, please contact us for further information.

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.

Notes

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-run company which now has more than 50,000 employees and comprises over 150 companies across every continent. The holding company of the Group is Liebherr-International AG in Bulle, Switzerland, whose shareholders are exclusively members of the Liebherr family.

Technology leadership and pioneering spirit

Liebherr 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 company founder, sharing a passion to produce innovative products and a determination to provide world-leading equipment and machinery.

Diversified product programme

Liebherr is one of the world's biggest construction machine manufacturers and provides high-quality, user-oriented products and services. Its product programme includes earthmoving machinery, material handling technology, deep foundation machines, mining, mobile and crawler cranes, tower cranes, concrete technology, maritime cranes, aerospace and transportation systems, gear technology and automation systems, refrigerators and freezers, components and hotels.

Customised solutions and maximum customer value

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. For Liebherr, customer focus does not end with delivery of a product but continues through a comprehensive range of back-up and support services.

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