

Crawler excavator

R 976
Litronic®

Operating Weight with Backhoe Attachment:	85,300 – 95,500 kg
Operating Weight with Shovel Attachment:	90,800 – 92,600 kg
Engine Output:	400 kW / 544 HP
Bucket Capacity:	2.00 – 6.60 m ³
Shovel Capacity:	4.40 – 5.60 m ³



LIEBHERR



Equipment

- Cast steel elements
- Greater resistance to stresses
- Longer service life
- Safety check valves for stick and boom cylinders with integrated regeneration for less fuel consumption

Tools

- Different levels of protection to suit the different areas of application
- New Liebherr Z-type tooth system

Operator's cab

- New comfortable and ergonomic design
- 7" high definition colour touch screen
- Wider than the cab in the small excavators range
- Bullet-proof panels at the front and in the roof as standard
- Optional FOPS and FGPS protective guards



Accessibility

- Maintenance platform in the engine compartment
- Broad, anti-slip side catwalks as standard
- Newly designed undercarriage steps for a longer service life

Undercarriage

- Robust structure thanks to the more rigid profile
- Improved self-cleaning capacity
- Molded two-tooth sprocket for a longer service life
- Two types of undercarriage available: an HD fixed-track gauge and LC-V variable-track gauge

Equipment

- Cast steel parts
- Parallel kinematics for powerful and regular digging
- Bucket cylinders positioned under the equipment for better protection against the elements
- Safety valves on boom cylinder for pipe burst protection



Buckets

- The front shovel is the perfect shape for digging deep into the material and for a high filling rate
- Several levels of protection for the front shovel, depending on requirements



Operator's cab

- New comfortable and ergonomic design
- 7" high-resolution colour touch screen
- Wider than the cab in the small excavators range
- Bullet-proof panels at the front and in the roof as standard
- Optional FOPS and FGPS protection guards
- Operator's cab with a fixed riser for a full view over the work area

Technical Data



Engine

Rating per ISO 9249	400 kW (544 HP) at 1,800 RPM
Model	Liebherr D 9508 A7 SCR
Type	8 cylinder V engine
Bore/Stroke	128/157 mm
Displacement	16.16 l
Engine operation	4-stroke diesel Common-Rail
Exhaust gas treatment	SCR system (Selective Catalytic Reduction) emission standard stage IIIB/Tier 4i
Cooling	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	1,498 l
Urea tank	140 l
Electrical system	Voltage 24 V Batteries 2 x 180 Ah/12 V Starter 24 V/7.8 kW Alternator three phase current 28 V/100 A Engine idling sensor-controlled
Motor management	connection to the integrated excavator system controlling via CAN-BUS to the economical utilisation of the service that is available



Swing Drive

Drive by	Liebherr swash plate motor with integrated brake valves
Transmission	Liebherr compact planetary reduction gear
Swing ring	Liebherr, sealed single race ball bearing swing ring, internal teeth
Swing speed	0 – 5.9 RPM stepless
Swing torque	295 kNm
Holding brake	wet multi-disc (spring applied, pressure released)
Option	pedal controlled positioning brake



Operator's Cab

Cab	work headlights integrated in the ceiling, a door with a side window (can be opened on both sides), large stowing and depositing possibilities, shock-absorbing suspension, sounddamping insulating, tinted laminated safety glass, separate window shades for the sunroof window and windscreen, 12 V plug, storage bins, lunchbox, cup holder
Operator's seat	Liebherr-Comfort seat, air sprung with automatic weight adjustment, vertical and horizontal seat damping including consoles and joysticks. Seat and armrests adjustable separately and in combination, seat heating as standard
Control system	arm consoles, swinging with the seat
Operation and displays	large high resolution colour display with self-explanatory operation via touch screen, video, versatile adjusting, control and monitoring facilities, e.g. climate control, implement and tool parameters
Air-conditioning	standard automatic air-conditioning, ambient air function, 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 radiation, inside and outside temperatures
Noise emission	
ISO 6396	L_{PA} (inside cab) = 71 dB(A)
2000/14/EC	L_{WA} (surround noise) = 109 dB(A)



Undercarriage

Version	HD gauge 3,600 mm LC-V gauge 3,590 mm
Drive	Liebherr swash plate motors with integrated brake valves on both sides
Transmission	Liebherr planetary reduction gears
Travel speed	low range – 2.7 km/h high range – 4.3 km/h
Net drawbar pull on crawler	538 kN
Track components	D 9 G, maintenance-free
Track rollers/Carrier rollers	HD: 8/2 LC-V: 9/3
Tracks	sealed and greased
Track pads	double grouser
Digging locks	wet multi-discs (spring applied, pressure released)
Brake valves	outside the travel motor
Lashing eyes	integrated



Attachment

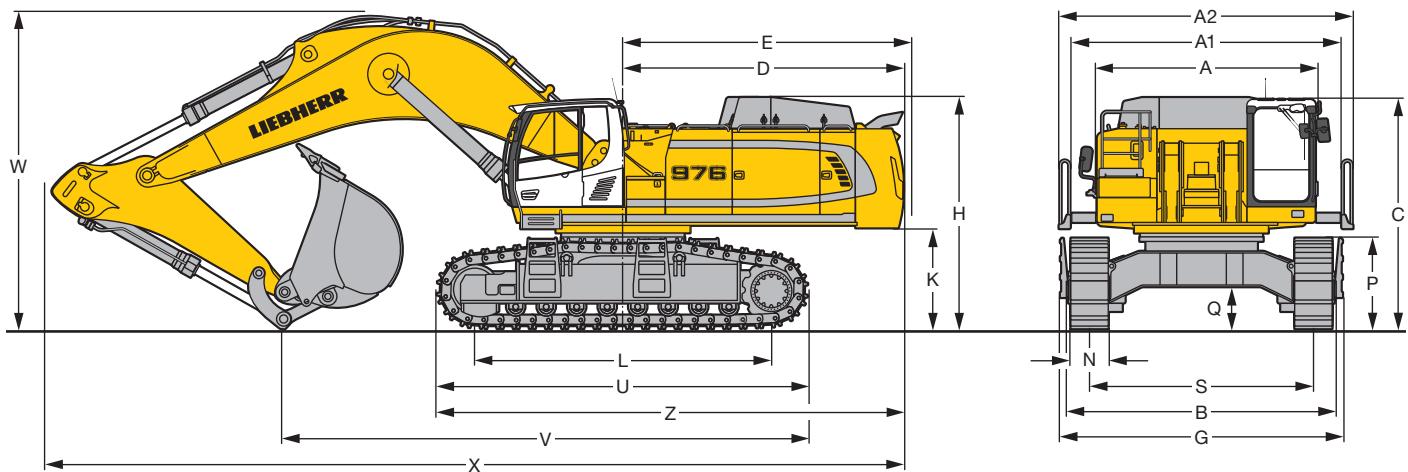
Type	combination of resistant steel plates and cast steel components
Hydraulic cylinders	Liebherr cylinders with special seal-system, shock protection
Pivots	sealed, low maintenance
Lubrication	automatic central lubrication system (except link and tilt geometry)
Hydraulic connections	pipes and hoses equipped with SAE split-flange connections
Bucket	standard equipped with Liebherr tooth system



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	electro-hydraulic control
Attachment and swing	proportional via joystick levers
Travel	– proportional via foot pedals or removable hand levers – speed pre-selection
Additional functions	via foot pedals or joystick toggle switch

Dimensions



	HD	mm	LC-V	mm
A		3,565		3,565
A1		4,355		4,355
A2		4,730		4,730
C		3,695/3,890*		3,835/4,030*
D		4,515		4,515
E		4,640		4,640
H		3,725		3,865
K		1,620		1,755
L		4,770		5,160
P		1,460		1,495
Q		682		955
S		3,600		2,750**/3,590
U		5,955		6,335
N	500	600	750	500 600 750
B	4,290	4,290	4,350	3,490** 3,490** 3,500**
G	4,540	4,540	4,540	3,870** 3,870** 3,870**
Z			7,490	7,680

* with FOPS top guard

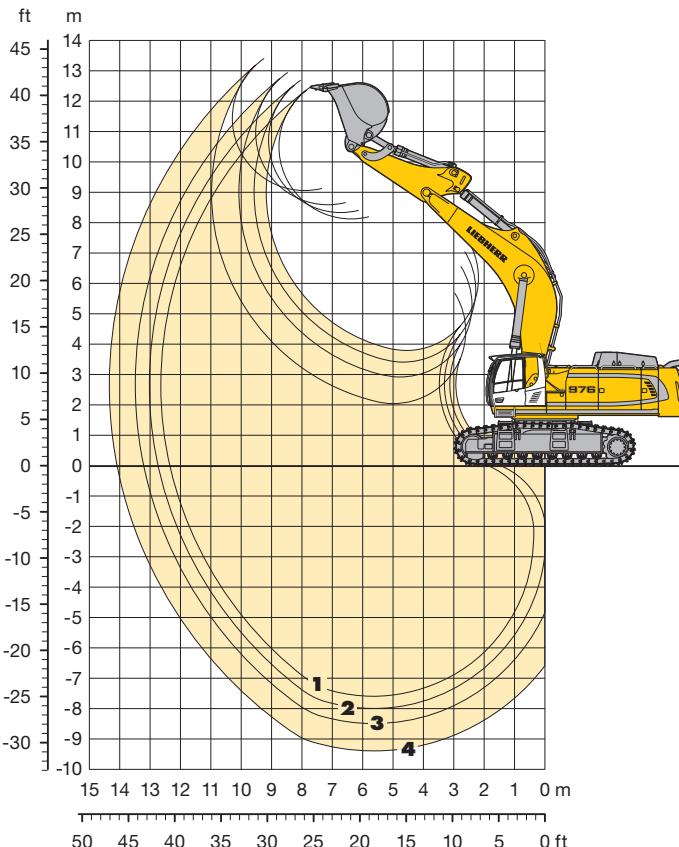
** transport position

	HD-Undercarriage		Mono Boom 8.60 m	Mono Boom 10.50 m
	Stick Length	Mono Boom 7.20 m		
V	2.90	8,450	—	—
	3.30	8,200	9,950	12,050
	3.80	8,100	9,850	11,900
	4.70	7,950	9,650	11,700
	5.80	—	9,650	11,550
W	2.90	5,100	—	—
	3.30	5,250	5,450	5,750
	3.80	5,550	5,600	5,900
	4.70	6,050	6,000	6,100
	5.80	—	6,800	6,800
X	2.90	13,800	—	—
	3.30	13,500	14,900	16,800
	3.80	13,400	14,750	16,650
	4.70	13,150	14,550	16,450
	5.80	—	14,150	16,150

	LC-V-Undercarriage		Mono Boom 8.60 m	Mono Boom 10.50 m
	Stick Length	Mono Boom 7.20 m		
V	2.90	8,600	—	—
	3.30	8,350	10,100	12,200
	3.80	8,200	10,000	12,050
	4.70	8,050	9,800	11,850
	5.80	—	9,750	11,700
W	2.90	5,150	—	—
	3.30	5,350	5,500	5,850
	3.80	5,600	5,700	6,000
	4.70	6,150	6,000	6,200
	5.80	—	6,750	6,800
X	2.90	13,800	—	—
	3.30	13,500	14,900	16,800
	3.80	13,450	14,750	16,650
	4.70	13,250	14,550	16,500
	5.80	—	14,250	16,250

Backhoe Bucket

with Mono Boom 7.20 m



Digging Envelope

	1	2	3	4	
Stick length	m	2.90	3.30	3.80	4.70
Max. digging depth	m	7.60	8.00	8.50	9.40
Max. reach at ground level	m	12.35	12.75	13.20	14.10
Max. dump height	m	8.10	8.35	8.60	9.05
Max. teeth height	m	12.45	12.70	12.95	13.40
Digging force ISO	kN	390	361	329	284
	t	39.8	36.8	33.5	28.9
Breakout force ISO	kN	485	485	485	485
	t	49.4	49.4	49.4	49.4

Operating Weight and Ground Pressure

Operating weight includes basic machine with mono boom 7.20 m, stick 2.90 m and bucket 5.20 m³ (4,600 kg).

Undercarriage	HD	LC-V
Pad width	mm	500 600 750
Weight	kg	85,300 86,000 87,100
Ground pressure	kg/cm ²	1.65 1.38 1.12
		1.62 1.36 1.10

Optional: heavy counterweight

(heavy counterweight increases the operating weight by 1,900 kg and ground pressure by 0.04 kg/cm²)

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

Cutting width mm	Capacity ISO 7451 m ³	Weight kg	HD-Undercarriage				LC-V-Undercarriage			
			2.90	3.30	3.80	4.70	2.90	3.30	3.80	4.70
STD ¹⁾	1,800	3.80	4,000	○	○	○	□	○	○	□
	1,950	4.30	4,200	○	○	○	□	○	○	□
	2,150	4.80	4,450	○	○	□	△	○	○	△
	2,300	5.20	4,600	□	□	□	■	○	○	■
	2,300	5.80	4,800	□	□	△	■	□	△	■
	2,600	6.60	5,100	△	△	■	▲	△	△	▲
HD ²⁾	1,800	3.60	4,400	○	○	○	□	○	○	□
	1,950	4.10	4,750	○	○	○	△	○	○	□
	2,150	4.60	5,050	○	○	□	△	○	○	△
	2,300	5.20	5,400	□	□	△	■	□	□	■
	2,300	5.60	5,550	□	△	△	■	□	□	■
	2,400	6.20	5,900	△	△	■	▲	△	△	▲
HDV ³⁾	1,950	4.20	5,250	○	○	○	▲	○	○	▲
	2,150	4.70	5,550	□	□	□	▲	○	○	▲
	2,300	5.20	5,850	□	□	△	▲	□	□	▲
	2,300	5.70	6,400	△	△	■	▲	△	△	▲

* Indicated loads are based on ISO 10567 max. stick length, lifted 360° on firm

¹⁾ Standard bucket with Liebherr teeth Z 90

²⁾ HD bucket with Liebherr teeth Z 90

³⁾ HDV bucket with Liebherr teeth Z 90

Other backhoes available on request

Max. material weight ○ = ≤ 2.2 t/m³, □ = ≤ 1.8 t/m³, △ = ≤ 1.5 t/m³, ■ = ≤ 1.2 t/m³, ▲ = not authorized

Lift Capacities

with Mono Boom 7.20 m

Stick 2.90 m

 m	Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	 m
12.0	HD LC-V									23.7* 23.5* 21.3* 21.2*
10.5	HD LC-V									23.7* 23.5* 21.3* 21.2*
9.0	HD LC-V				21.6* 21.6*	21.6* 21.6*				6.4 8.0
7.5	HD LC-V				21.8* 21.9*	21.8* 21.9*	19.1 20.0	20.4* 20.8*		19.1 19.7
6.0	HD LC-V			27.4* 27.7*	27.4* 27.7*	23.3* 23.5*	18.9 19.7	21.1* 21.1*		16.6 17.2
4.5	HD LC-V			31.5* 31.9*	31.5* 31.9*	24.1 25.1	25.3* 25.5*	18.3 19.1	22.0* 22.0*	15.2 15.8
3.0	HD LC-V			31.6 32.9	35.1* 35.4*	22.9 23.9	27.3* 27.5*	17.6 18.4	22.9 23.0*	14.4 15.1
1.5	HD LC-V			30.2 31.6	36.9* 37.0*	22.0 23.0	28.6* 28.7*	17.1 17.9	22.3 23.7*	14.3 15.0
0	HD LC-V			29.6 31.0	36.7* 36.6*	21.4 22.5	28.6 28.8*	16.7 17.5	21.9 23.5*	14.7 15.6
-1.5	HD LC-V		38.5* 40.4*	38.5* 40.4*	29.5 30.9	34.9* 34.7*	21.3 22.3	27.8* 27.6*	16.6 17.5	20.9* 21.0*
-3.0	HD LC-V	40.6* 42.5*	40.6* 42.5*	38.8* 38.2*	38.8* 38.2*	29.8 30.8*	31.3* 30.8*	21.5 22.6	24.8* 24.4*	18.4 19.6
-4.5	HD LC-V			30.4* 29.5*	30.4* 29.5*	24.6* 23.7*	24.6* 23.7*			19.1* 18.9*
-6.0	HD LC-V									
-7.5	HD LC-V									
-9.0	HD LC-V									

Stick 3.30 m

 m	Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	 m
12.0	HD LC-V									20.1* 19.9*
10.5	HD LC-V									20.1* 19.9*
9.0	HD LC-V				20.3* 20.3*	20.3* 20.3*				7.0 8.4
7.5	HD LC-V				20.8* 20.9*	20.8* 20.9*	19.4 19.8*	19.8* 19.8*		18.2* 18.1*
6.0	HD LC-V			26.0* 26.3*	26.0* 26.3*	22.4* 22.5*	22.4* 22.5*	19.0 19.8	20.3* 20.3*	10.1 10.5
4.5	HD LC-V			30.3* 30.6*	30.3* 30.6*	24.4 24.7*	24.5* 24.7*	18.4 19.2	21.3* 21.4*	14.3 15.0
3.0	HD LC-V			32.1 33.4	34.2* 34.5*	23.2 24.1	26.7* 26.9*	17.7 18.5	22.5* 22.6*	13.7 14.4
1.5	HD LC-V			30.5 31.8	36.5* 36.7*	22.1 23.1	28.3* 28.4*	17.1 17.9	22.3 23.4*	10.6 10.6
0	HD LC-V			29.7 31.1	36.9* 36.9*	21.5 22.5	28.6 28.8*	16.7 17.5	21.9 23.6*	13.9 14.2
-1.5	HD LC-V		36.8* 38.3*	36.8* 38.3*	29.4 30.9	35.6* 35.4*	21.2 22.3	28.2* 28.0*	16.5 17.4	19.5 20.0*
-3.0	HD LC-V	36.6* 38.2*	36.6* 38.2*	41.2* 40.7*	41.2* 40.7*	29.6 31.1	32.5* 32.1	21.3 22.4	25.8* 25.5*	8.9 9.7
-4.5	HD LC-V			33.5* 32.7*	33.5* 32.7*	26.8* 26.1*	26.8* 26.1*	20.1* 19.2*	20.1* 19.2*	16.9 19.1*
-6.0	HD LC-V									18.1 18.9*
-7.5	HD LC-V									
-9.0	HD LC-V									



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 double grouser 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 1,300 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.

Lift Capacities

with Mono Boom 7.20 m

Stick 3.80 m

↑ m	Under- carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	 m
12.0	HD LC-V									
10.5	HD LC-V				18.3* 18.9*	18.3* 18.9*				16.8* 16.6*
9.0	HD LC-V						15.8*	15.8*		16.8* 16.6*
7.5	HD LC-V				19.5* 19.6*	19.5* 19.6*				14.7* 14.7*
6.0	HD LC-V				21.1* 21.3*	21.1* 21.3*	19.3* 19.4*	19.3* 19.4*	14.7* 15.4*	14.7* 14.5*
4.5	HD LC-V			28.6* 29.0*	28.6* 29.0*	23.4* 23.7*	18.6* 19.4*	20.5* 20.6*	14.4* 15.1*	14.7* 18.7*
3.0	HD LC-V			32.7* 33.2*	32.9* 33.2*	23.4* 24.4	25.8* 26.0*	17.8* 18.6	14.0* 14.7*	15.2* 19.3*
1.5	HD LC-V			30.8* 32.2	35.8* 36.0*	22.3* 23.3	27.7* 27.8*	17.1* 18.0	22.4* 23.0*	13.7* 14.3
0	HD LC-V			29.8* 31.2	36.8* 36.9*	21.5* 22.6	28.6* 28.7*	16.6* 17.5	21.9* 23.4*	17.5* 19.6*
-1.5	HD LC-V			34.9* 36.1*	34.9* 36.1*	29.3* 30.8	36.1* 36.0*	21.1* 22.2	28.3* 28.3*	21.6* 22.9*
-3.0	HD LC-V	32.7* 34.0*	32.7* 34.0*	43.7* 43.2*	43.7* 43.2*	29.4* 30.8	33.7* 33.4*	21.1* 22.2	26.7* 26.4*	16.4* 17.3
-4.5	HD LC-V	48.1* 47.0*	48.1* 47.0*	36.9* 36.1*	36.9* 36.1*	29.0* 28.4*	29.0* 28.4*	21.5* 22.0*	22.5* 22.0*	20.8*
-6.0	HD LC-V									
-7.5	HD LC-V									
-9.0	HD LC-V									

Stick 4.70 m

↑ m	Under- carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	 m
12.0	HD LC-V									
10.5	HD LC-V						12.6* 12.4*	12.6* 12.4*		8.9
9.0	HD LC-V						15.8* 15.9*	15.8* 15.9*		11.7* 11.6*
7.5	HD LC-V						16.5* 16.5*	16.5* 16.5*	14.0* 14.2*	11.2* 11.2*
6.0	HD LC-V						17.4* 17.4*	17.4* 17.5*	15.1* 15.8	11.1* 11.1*
4.5	HD LC-V			25.3* 25.7*	25.3* 25.7*	21.3* 21.5*	18.8* 19.0*	18.8* 19.0*	14.0* 15.3	11.2* 11.2*
3.0	HD LC-V			30.0* 30.4*	30.0* 30.4*	23.9* 24.2*	23.9* 24.2*	18.1* 18.9	20.4* 20.5*	14.2* 14.8
1.5	HD LC-V			31.6* 32.9	33.9* 34.1*	22.7* 23.6	26.3* 26.5*	17.3* 18.1	21.8* 21.9*	13.7* 14.4
0	HD LC-V			30.1* 26.1*	36.0* 26.1*	21.7* 22.7	27.8* 27.9*	16.6* 17.5	21.9* 22.9*	17.4* 19.4*
-1.5	HD LC-V	18.1* 18.9*	18.1* 18.9*	32.5* 33.2*	29.3* <td>36.4*<td>21.0< td></td></td>	36.4* <td>21.0< td></td>	21.0< td>			
-3.0	HD LC-V	27.4* 28.3*	27.4* 28.3*	43.5* 44.7*	29.0* <td>35.1*<td>20.8< td></td></td>	35.1* <td>20.8< td></td>	20.8< td>			
-4.5	HD LC-V	39.3* 40.5*	39.3* 40.5*	41.8* 41.2*	29.2* <td>31.9*<td>20.9< td></td></td>	31.9* <td>20.9< td></td>	20.9< td>			
-6.0	HD LC-V	44.9* 43.4*	44.9* 43.4*	33.4* 32.4*	33.4* <td>25.8*<td>19.3*<td>19.3*</td></td></td>	25.8* <td>19.3*<td>19.3*</td></td>	19.3* <td>19.3*</td>	19.3*		
-7.5	HD LC-V									
-9.0	HD LC-V									

↑ Height  Can be slewed through 360°

 In longitudinal position of undercarriage



Max. reach

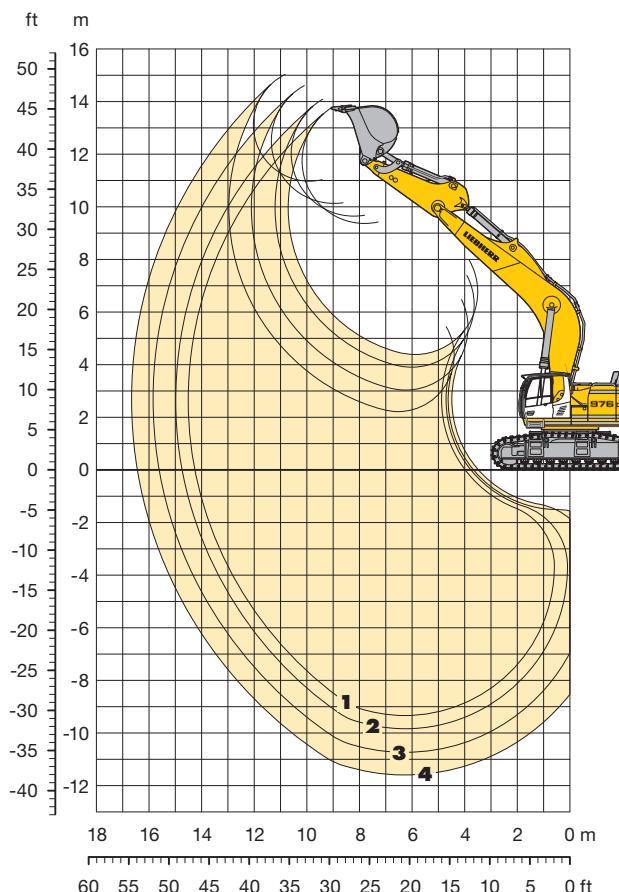
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The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide double grouser 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 1,300 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.

Backhoe Bucket

with Mono Boom 8.60 m



Digging Envelope

	1	2	3	4	
Stick length	m	3.30	3.80	4.70	5.80
Max. digging depth	m	9.30	9.85	10.75	11.60
Max. reach at ground level	m	14.25	14.75	15.60	16.45
Max. dump height	m	9.35	9.65	10.15	10.95
Max. teeth height	m	13.75	14.10	14.60	15.05
Digging force ISO	kN	361	329	284	249
	t	36.8	33.5	28.9	25.4
Breakout force ISO	kN	485	485	485	356
	t	49.4	49.4	49.4	36.3

Operating Weight and Ground Pressure

Operating weight includes basic machine with mono boom 8.60 m, stick 3.80 m and bucket 3.80 m³ (4,000 kg).

Undercarriage	HD	LC-V
Pad width	mm	500 600 750
Weight	kg	85,900 86,600 87,700
Ground pressure	kg/cm ²	1.66 1.39 1.13
		1.63 1.37 1.11

Optional: heavy counterweight

(heavy counterweight increases the operating weight by 1,900 kg and ground pressure by 0.04 kg/cm²)

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

Cutting width mm	Capacity ISO 7451 m ³	Weight kg	HD-Undercarriage				LC-V-Undercarriage			
			Stick length (m)	Stick length (m)			Stick length (m)	Stick length (m)		
				3.30	3.80	4.70		3.30	3.80	4.70
STD ¹⁾	1,400	2.70	3,450	○	○	○	▲	○	○	○
	1,600	3.20	3,750	○	○	□	▲	○	○	□
	1,800	3.80	4,000	□	□	△	▲	○	○	△
	1,950	4.30	4,200	□	△	■	▲	□	□	■
	2,150	4.80	4,450	△	△	■	▲	△	△	■
	2,300	5.20	4,600	■	■	▲	▲	△	■	▲
HD ²⁾	1,800	3.60	4,400	□	□	△	▲	○	○	△
	1,950	4.10	4,750	△	△	■	▲	□	□	■
	2,150	4.60	5,050	△	■	▲	▲	△	△	▲
HD ³⁾ STD ⁴⁾	1,750	3.00	3,150	▲	▲	▲	□	▲	▲	▲
	1,950	3.50	3,450	▲	▲	▲	△	▲	▲	△
	1,950	4.00	3,600	▲	▲	▲	■	▲	▲	■
	1,800	2.50	3,850	▲	▲	▲	□	▲	▲	□
	2,000	3.00	4,100	▲	▲	▲	△	▲	▲	△
	2,150	3.50	4,450	▲	▲	▲	■	▲	▲	■

* Indicated loads are based on ISO 10567 max. stick length, lifted 360° on firm

1) Standard bucket with Liebherr teeth Z 90

2) HD bucket with Liebherr teeth Z 70

3) Standard bucket from R 966 Litronic® with Liebherr teeth Z 70

4) HD bucket from R 966 Litronic with Liebherr teeth Z 90

Other backhoes available on request

Max. material weight ○ = ≤ 2.2 t/m³, □ = ≤ 1.8 t/m³, △ = ≤ 1.5 t/m³, ■ = ≤ 1.2 t/m³, ▲ = not authorized

Lift Capacities

with Mono Boom 8.60 m

Stick 3.30 m

↑ m	Under- carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	 m
12.0	HD LC-V									
10.5	HD LC-V					16.5* 16.4*	16.5* 16.4*			16.6* 16.5*
9.0	HD LC-V					16.1* 16.1*	16.1* 16.1*			15.4 15.9
7.5	HD LC-V				18.5* 18.7*	18.5* 18.7*	16.7* 16.8*	14.7 15.4	15.8* 15.8*	13.2 13.7
6.0	HD LC-V			20.6* 20.9*	20.6* 20.9*	17.9* 18.0*	17.9* 18.0*	14.3 15.0	16.3* 16.3*	11.9 12.4
4.5	HD LC-V			22.8 23.3*	23.1* 23.3*	17.5 19.4*	19.3*	13.8 14.5	17.0* 17.1*	11.1 11.6
3.0	HD LC-V			21.3 22.3	25.3* 25.4*	16.6 17.4	20.6* 20.7*	13.3 14.0	13.3 17.8*	10.6 11.4
1.5	HD LC-V			20.3 21.4	26.7* 26.7*	15.9 16.7	21.1 21.7*	12.8 13.5	16.9 18.4*	10.5 11.1
0	HD LC-V			19.8 20.9	26.9 27.1*	15.4 16.3	20.6 22.1*	12.5 13.2	16.6 18.7*	10.7 11.3
-1.5	HD LC-V			27.4 28.9	31.7* 33.1*	19.6 20.7	26.7* 26.7*	15.2 16.1	20.4 21.9*	12.4 13.1
-3.0	HD LC-V	27.5* 28.9*	27.5* 28.9*	27.7 29.2	31.3* 31.1*	19.7 20.8	25.5* 25.4*	15.3 16.1	20.4 20.9*	12.5 13.3
-4.5	HD LC-V	33.9* 33.5*	33.9* 33.5*	28.1* 27.8*	28.1* 27.8*	20.1 21.2	23.1* 22.8*	15.6 16.5	18.7* 18.4*	14.4 15.4
-6.0	HD LC-V	27.6* 26.8*	27.6* 26.8*	23.1* 22.5*	23.1* 22.5*	18.5* 17.9*	18.5* 17.9*			16.4* 15.6*
-7.5	HD LC-V									9.7 8.3
-9.0	HD LC-V									

Stick 3.80 m

↑ m	Under- carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	 m
12.0	HD LC-V									16.4* 16.3*
10.5	HD LC-V					15.2* 15.1*	15.2* 15.1*			15.4* 15.4*
9.0	HD LC-V					15.1* 15.2*	15.1* 15.2*			14.1 14.6
7.5	HD LC-V					15.9* 16.0*	15.9* 16.0*	14.9 15.0*		12.3 12.8
6.0	HD LC-V				19.6* 19.8*	19.6* 19.8*	17.1* 17.2*	17.1* 17.2*	14.5 15.1	14.4 14.5*
4.5	HD LC-V				22.1* 22.3*	22.1* 22.3*	17.7 18.4	18.5* 18.7*	13.9 14.6	13.5 14.6*
3.0	HD LC-V				21.6 22.6	24.4* 24.6*	16.7 17.5	20.0* 20.1*	13.3 14.0	10.8 11.4
1.5	HD LC-V				20.5 21.5	26.1* 26.2*	16.0 16.8	21.2* 21.2*	12.8 13.5	15.6* 15.9*
0	HD LC-V				19.8 20.9	26.9* 26.9*	15.4 16.3	20.6 21.9*	11.4 13.2	13.0 13.6
-1.5	HD LC-V				27.2 28.7	31.3* 32.3*	19.5 20.6	26.6 26.8*	15.1 16.0	12.3 13.0
-3.0	HD LC-V	25.8* 26.9*	25.8* 26.9*	27.4 28.9	32.2* 32.0	19.5 20.6	25.9* 25.8*	15.1 15.9	20.2 21.2*	12.3 13.0
-4.5	HD LC-V	29.6* 30.7*	29.6* 30.7*	36.5* 36.1*	36.5* 36.1*	29.4* 29.1*	24.0* 23.7*	15.3 16.2	19.6* 19.3*	11.7 17.5*
-6.0	HD LC-V	30.6* 30.0*	30.6* 30.0*	30.6* 30.4*	25.0* 24.5*	20.3* 19.8*	20.3* 19.8*			15.3* 15.2*
-7.5	HD LC-V									
-9.0	HD LC-V									

↑ 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 double grouser 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 1,300 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.

Lift Capacities

with Mono Boom 8.60 m

Stick 4.70 m

 m	Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	m
12.0	HD LC-V									13.3* 13.1*
10.5	HD LC-V						13.4* 13.3*			13.3* 13.1*
9.0	HD LC-V						13.1* 13.1*			12.1* 12.1*
7.5	HD LC-V					14.3* 15.5*	13.5* 14.3*	11.8 12.4	13.2* 13.2*	10.8 11.2*
6.0	HD LC-V				17.8* 20.2*	17.8* 20.2*	13.6* 14.3*	11.6 12.2	13.5* 13.5*	9.8 10.3
4.5	HD LC-V			20.4* 20.4*	17.3* 17.3*	17.1* 17.3*	14.1 14.3*	11.3 12.2	14.0* 14.1*	9.2 9.7
3.0	HD LC-V			22.2 23.0*	22.7* 23.0*	17.0 17.8	18.7* 18.9*	13.5 14.1	10.9 11.4	14.2* 14.7*
1.5	HD LC-V			20.9 21.8	24.8* 25.0*	16.1 16.9	20.1* 20.3*	12.9 13.5	17.0 17.3*	10.5 11.1
0	HD LC-V			19.9 20.9	26.2* 26.2*	15.4 16.2	20.6 21.2*	12.4 13.1	16.5 17.9*	10.2 10.8
-1.5	HD LC-V		26.9 28.4	30.4* 31.1*	19.4 20.4	26.5 26.6*	15.0 15.8	20.2 21.6*	12.1 12.8	13.3 15.5*
-3.0	HD LC-V	22.9* 23.7*	22.9* 23.7*	26.9 28.3	33.2* 33.1*	19.2 20.3	26.2 26.2*	14.8 15.6	11.9 12.6	16.0 17.8*
-4.5	HD LC-V	24.3* 25.1*	24.3* 25.1*	33.5* 34.6*	33.5* 34.6*	27.1 28.6	31.2* 31.0*	19.3 20.4	25.0* 24.8*	14.8 15.7
-6.0	HD LC-V	35.3* 36.4*	35.3* 36.4*	35.3* 34.8*	35.3* 34.8*	27.7 27.5*	27.8* 27.5*	19.7 20.8	22.4* 22.1*	15.2 16.1
-7.5	HD LC-V		27.9* 27.1*	27.9* 27.1*	22.3* 21.7*	22.3* 21.7*	17.6* 17.6*	17.6* 16.9*		
-9.0	HD LC-V									

Stick 5.80 m

 m	Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	m
12.0	HD LC-V						11.8* 11.8*			9.9* 9.8*
10.5	HD LC-V							10.1* 10.5*		9.8* 9.8*
9.0	HD LC-V							10.5* 11.6*		9.2* 9.2*
7.5	HD LC-V						12.1* 12.2*	11.9* 11.9*	11.9* 11.9*	8.6* 8.6*
6.0	HD LC-V						13.0* 13.1*	12.2* 12.4*	11.8* 12.4*	8.5* 8.5*
4.5	HD LC-V				18.0* 18.3*	18.0* 18.3*	15.6* 15.8*	14.1* 14.2*	11.8 12.3	8.3 8.6*
3.0	HD LC-V				20.9* 21.1*	20.9* 21.1*	17.5* 17.6*	14.0 14.7	15.3* 15.4*	9.2 9.7
1.5	HD LC-V				21.9 22.9	23.5* 23.7*	16.8 17.6	19.2* 19.3*	13.4 14.0	16.4* 16.5*
0	HD LC-V				20.7 21.7	25.4* 25.5*	16.0 16.8	20.5* 20.6*	12.8 13.4	14.2* 17.4*
-1.5	HD LC-V			27.5 28.9	30.2* 30.5*	19.9 20.9	26.5* 26.5*	15.4 16.2	20.6 21.5*	12.3 13.0
-3.0	HD LC-V	14.1* 14.1*	20.4* 21.0*	20.4* 21.0*	27.1 28.5	34.3* 34.3*	19.4 20.5	26.5 26.7	15.0 15.8	20.2 21.7
-4.5	HD LC-V	19.9* 20.5*	19.9* 20.5*	27.8* 28.6*	27.1 28.5	33.2* 33.0*	19.3 20.4	26.2* 26.1*	14.8 15.7	18.2* 21.3*
-6.0	HD LC-V	27.7* 28.5*	27.7* 28.5*	37.9* 39.0*	37.9* 39.0*	27.4 28.9	30.9* 30.6*	19.4 20.6	24.6* 24.4*	15.0 15.8
-7.5	HD LC-V	38.2* 39.4*	38.2* 39.4*	34.8* 34.1*	34.8* 34.1*	27.0* 27.1	27.0* 21.2*	19.9 19.6	21.5* 16.3	15.4 16.8*
-9.0	HD LC-V		26.0* 25.0*	26.0* 25.0*	20.4* 19.6*	20.4* 19.6*	15.6* 14.7*	15.6* 14.7*		

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 double grouser 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 1,300 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.

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Lift Capacities

with Mono Boom 7.20 m and Heavy Counterweight

Stick 2.90 m

Height m	Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	Max. reach m
12.0	HD LC-V									
10.5	HD LC-V				21.6* 21.6*	21.6* 21.6*				23.7* 23.5*
9.0	HD LC-V				21.8* 21.9*	21.8* 21.9*	20.3 20.8*	20.4* 20.8*		23.7* 23.5*
7.5	HD LC-V				23.3* 23.5*	23.3* 23.5*	20.1 20.9	21.1* 21.1*		21.3* 21.2*
6.0	HD LC-V		27.4* 27.7*	27.4* 27.7*	23.3* 23.5*	23.3* 23.5*	20.1 20.9	21.1* 21.1*		17.7 18.3
4.5	HD LC-V	31.5* 31.9*	31.5* 31.9*	25.3* 25.5*	25.3* 25.5*	19.5 20.3	22.0* 22.0*			16.2 16.9
3.0	HD LC-V	33.7 35.0	35.1* 35.4*	24.5 25.5	27.3* 27.5*	18.8 19.6	23.0* 23.0*			15.5 16.2
1.5	HD LC-V	32.3 33.6	36.9* 37.0*	23.5 24.6	28.6* 28.7*	18.3 19.1	23.6* 23.7*			15.3 16.1
0	HD LC-V	31.7 33.1	36.7* 36.6*	23.0 24.0	28.9* 28.8*	17.9 18.7	23.3 23.5*			15.8 16.6
-1.5	HD LC-V	38.5* 40.4*	38.5* 40.4*	31.6 33.0	34.9* 34.7*	22.8 23.9	27.8* 27.6*	17.8 18.7	22.3* 22.1*	17.1 18.1
-3.0	HD LC-V	40.6* 42.5*	38.8* 38.2*	31.3* 30.8*	31.3* 30.8*	23.0 24.1	24.8* 24.4*			19.7 20.6*
-4.5	HD LC-V	30.4* 29.5*	30.4* 29.5*	24.6* 23.7*	24.6* 23.7*					19.1* 18.9*
-6.0	HD LC-V									
-7.5	HD LC-V									
-9.0	HD LC-V									

Stick 3.30 m

Height m	Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	Max. reach m
12.0	HD LC-V									
10.5	HD LC-V									20.1* 19.9*
9.0	HD LC-V				20.3* 20.3*	20.3* 20.3*				18.2* 18.1*
7.5	HD LC-V				20.8* 20.9*	20.8* 20.9*	19.8* 19.8*	19.8* 19.8*		17.4* 17.3*
6.0	HD LC-V			26.0* 26.3*	26.0* 26.3*	22.4* 22.5*	20.3* 20.3*	20.3* 20.3*		16.7 17.1*
4.5	HD LC-V			30.3* 30.6*	30.3* 30.6*	24.5* 24.7*	19.6 20.4	21.3* 21.4*		15.3 16.0
3.0	HD LC-V			34.2 34.5*	34.2* 34.5*	24.7 25.7	26.7* 26.9*	18.9 19.7	22.5* 22.6*	14.7 15.7
1.5	HD LC-V			32.6 33.9	36.5* 36.7*	23.7 24.7	28.3* 28.4*	18.3 19.1	23.3* 23.4*	14.5 15.2
0	HD LC-V			31.8 33.2	36.9* 36.9*	23.0 24.1	28.9* 28.8*	17.9 18.7	23.3* 23.6*	14.9 15.7
-1.5	HD LC-V			36.8* 38.3*	36.8* 38.3*	31.5 33.0	35.6* 35.4*	22.7 23.8	28.2* 28.0*	16.0 16.9
-3.0	HD LC-V	36.6* 38.2*	36.6* 38.2*	41.2* 40.7*	41.2* 40.7*	31.7 32.1*	32.5* 32.1*	22.8 23.9	25.8* 25.5*	18.2 19.3
-4.5	HD LC-V			33.5* 32.7*	33.5* 32.7*	26.8* 26.1*	20.1* 19.2*	20.1* 19.2*		19.1* 18.9*
-6.0	HD LC-V									
-7.5	HD LC-V									
-9.0	HD LC-V									

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 double grouser 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 1,300 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.

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Lift Capacities

with Mono Boom 7.20 m and Heavy Counterweight

Stick 3.80 m

m m	Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	m
12.0	HD LC-V									
10.5	HD LC-V				18.3* 18.9*	18.3* 18.9*				16.8* 16.6*
9.0	HD LC-V						15.8* 16.6*			15.3* 15.3*
7.5	HD LC-V				19.5* 19.6*	19.5* 19.6*	18.6* 18.6*			14.7* 14.7*
6.0	HD LC-V				21.1* 21.3*	21.1* 21.3*	19.3* 19.4*	15.6* 16.2*	15.6*	14.5* 14.5*
4.5	HD LC-V			28.6* 29.0*	28.6* 29.0*	23.4* 23.7*	19.8* 20.6*	15.4* 16.1	18.7* 18.7*	14.3* 14.7*
3.0	HD LC-V			32.9* 33.2*	32.9* 33.2*	25.0* 25.9	25.8* 26.0*	19.0* 19.8	21.8* 21.9*	15.0* 15.7
1.5	HD LC-V			33.0* 34.3	35.8* 36.0*	23.9* 24.8	27.7* 27.8*	18.4* 19.2	22.9* 23.0*	14.7* 15.3
0	HD LC-V			31.9* 33.3	36.8* 36.9*	23.1* 24.1	28.6* 28.7*	17.8* 18.7	23.2* 23.4*	14.4* 15.1
-1.5	HD LC-V		34.9* 36.1*	34.9* 36.1*	31.4* 32.9	36.1* 36.0*	22.7* 23.7	28.4* 28.3*	17.6* 18.4	23.0* 22.9*
-3.0	HD LC-V	32.7* 34.0*	32.7* 34.0*	43.7* 43.2*	43.7* 43.2*	31.5* 32.9	33.7* 34.4*	22.6* 23.7	26.7* 26.4*	17.6* 18.5
-4.5	HD LC-V	48.1* 47.0*	48.1* 47.0*	36.9* 36.1*	36.9* 36.1*	29.0* 28.4*	29.0* 28.4*	22.5* 22.0*	22.5* 22.0*	18.7* 18.6*
-6.0	HD LC-V									17.2*
-7.5	HD LC-V									17.2*
-9.0	HD LC-V									6.5

Stick 4.70 m

m m	Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	m
12.0	HD LC-V									
10.5	HD LC-V						12.6* 12.6*	12.6*		12.6* 12.4*
9.0	HD LC-V						15.8* 15.9*	15.8* 15.9*		11.7* 11.6*
7.5	HD LC-V						16.5* 16.5*	16.5* 16.5*	14.0* 14.2*	14.0* 14.2*
6.0	HD LC-V						17.4* 17.4*	17.4* 17.5*	16.1* 16.6*	11.1* 11.1*
4.5	HD LC-V			25.3* 25.7*	25.3* 25.7*	21.3* 21.5*	18.8* 19.0*	18.8* 19.0*	15.7* 16.3	11.2* 11.2*
3.0	HD LC-V			30.0* 30.4*	30.0* 30.4*	23.9* 24.2*	19.3* 20.1	20.4* 20.5*	15.2* 15.8	11.6* 11.6*
1.5	HD LC-V			33.7* 34.1*	33.9* 34.1*	24.2* 25.2	26.3* 26.5*	18.5* 19.3	21.8* 21.9*	14.7* 15.3
0	HD LC-V		26.1* 18.1*	26.1* 18.1*	33.5* 33.2*	36.1* 36.4*	24.2* 23.6	27.8* 28.3*	17.9* 18.2	22.8* 23.0*
-1.5	HD LC-V	18.1* 18.9*	18.1* 18.9*	31.4* 32.7	36.4* 36.4*	22.6* 23.6	28.3* 28.3*	17.4* 18.2	22.8* 23.0*	18.2* 19.1*
-3.0	HD LC-V	27.4* 28.3*	27.4* 28.3*	43.5* 44.7*	43.5* 44.7*	31.1* 32.5	35.1* 34.9*	22.3* 23.4	27.6* 27.4	22.2* 22.1*
-4.5	HD LC-V	39.3* 40.5*	39.3* 40.5*	41.8* 41.2*	41.8* 41.2*	31.3* 31.5*	31.9* 31.5*	22.4* 23.5	25.1* 24.7*	19.5* 18.3
-6.0	HD LC-V	44.9* 43.4*	44.9* 43.4*	33.4* 32.4*	33.4* 32.4*	25.8* 25.0*	25.8* 25.0*	19.3* 18.5*	19.3* 18.5*	16.9* 16.8*
-7.5	HD LC-V									
-9.0	HD LC-V									



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 double grouser 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 1,300 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.

Lift Capacities

with Mono Boom 8.60 m and Heavy Counterweight

Stick 3.30 m

↑ m	Under- carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	 m
12.0	HD LC-V									
10.5	HD LC-V					16.5* 16.4*	16.5* 16.4*			16.6* 16.5*
9.0	HD LC-V					16.1* 16.1*	16.1* 16.1*			16.0* 16.0*
7.5	HD LC-V				18.5* 18.7*	18.5* 18.7*	16.7* 16.8*	16.7* 16.8*	15.7* 15.8*	14.2* 14.7*
6.0	HD LC-V			20.6* 20.9*	20.6* 20.9*	17.9* 18.0*	17.9* 18.0*	15.3* 16.0*	16.3* 16.3*	12.8* 13.3*
4.5	HD LC-V			23.1* 23.3*	23.1* 23.3*	18.7* 19.4*	19.3* 19.4*	14.8* 15.5*	17.0* 17.1*	12.5* 12.5*
3.0	HD LC-V			22.9* 23.8	25.3* 25.4*	17.8* 18.6	20.6* 20.7	14.3* 15.0	17.8* 17.8*	11.5* 12.0
1.5	HD LC-V			21.9* 22.9	26.7* 26.7*	17.1* 17.9	21.6* 21.7*	13.8* 14.5	18.0* 18.4*	11.3* 11.9
0	HD LC-V			21.3* 22.4	27.1* 27.1*	16.6* 17.5	22.0* 22.1*	13.5* 14.2	17.7* 18.7*	11.5* 12.2
-1.5	HD LC-V			29.5* 31.0	31.7* 33.1*	21.2* 22.2	26.8* 26.7*	16.4* 17.3	21.8* 21.9*	13.4* 14.1
-3.0	HD LC-V	27.5* 28.9*	27.5* 28.9*	29.8* 31.1*	31.3* 31.1*	21.2* 22.3	25.5* 25.4*	16.5* 17.3	21.0* 20.9*	13.5* 14.3
-4.5	HD LC-V	33.9* 33.5*	33.9* 33.5*	28.1* 27.8*	28.1* 27.8*	21.6* 22.7	23.1* 22.8*	16.8* 17.7	18.7* 18.4*	13.3* 14.2
-6.0	HD LC-V	27.6* 26.8*	27.6* 26.8*	23.1* 22.5*	23.1* 22.5*	18.5* 17.9*	18.5* 17.9*			15.5* 15.6*
-7.5	HD LC-V									16.4* 15.4*
-9.0	HD LC-V									8.3

Stick 3.80 m

↑ m	Under- carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	 m
12.0	HD LC-V									16.4* 16.3*
10.5	HD LC-V					15.2* 15.1*	15.2* 15.1*			15.4* 15.4*
9.0	HD LC-V					15.1* 15.2*	15.1* 15.2*			15.0* 15.0*
7.5	HD LC-V					15.9* 16.0*	15.9* 16.0*	14.9* 15.0*		13.2* 13.7
6.0	HD LC-V				19.6* 19.8*	19.6* 19.8*	17.1* 17.2*	17.1* 17.2*	15.5* 15.6*	11.9* 12.5
4.5	HD LC-V				22.1* 22.3*	22.1* 22.3*	18.5* 18.7*	18.5* 18.7*	14.9* 15.6*	11.2* 11.7
3.0	HD LC-V				23.2* 24.1	24.4* 24.6*	18.0* 18.7	20.0* 20.1*	14.3* 15.0	11.7* 12.3
1.5	HD LC-V				22.1* 23.0	26.1* 26.2*	17.2* 18.0	21.2*	13.8* 14.5	10.6* 11.2
0	HD LC-V				21.4* 22.4	26.9* 26.9*	16.6* 17.5	21.9*	18.0* 18.5*	10.8* 11.4
-1.5	HD LC-V				29.3* 30.8	31.3* 32.3*	21.1* 22.1	26.9* 26.8*	16.3* 17.2	11.3* 12.0
-3.0	HD LC-V	25.8* 26.9*	25.8* 26.9*	29.5* 30.9	32.2* 32.0	21.0* 22.1	25.9* 25.8*	16.3* 17.2	21.3* 21.2	12.3* 13.1
-4.5	HD LC-V	29.6* 30.7*	29.6* 30.7*	36.5* 36.1*	36.5* 36.1*	29.4* 29.1*	24.0* 23.7*	16.5* 17.4	19.6* 19.3*	15.8* 15.0
-6.0	HD LC-V	30.6* 30.0*	30.6* 30.0*	30.6* 30.4*	25.0* 24.5*	20.3* 19.8*	20.3* 19.8*			15.3* 15.2*
-7.5	HD LC-V									11.9* 9.0
-9.0	HD LC-V									

↑ 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 double grouser 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 1,300 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.

Lift Capacities

with Mono Boom 8.60 m and Heavy Counterweight

Stick 4.70 m

 m	Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	m
12.0	HD LC-V									13.3* 13.1*
10.5	HD LC-V						13.4* 13.3*			13.3* 13.1*
9.0	HD LC-V						13.1* 13.1*			12.1* 12.1*
7.5	HD LC-V					14.3* 15.5*	13.5* 14.3*	12.7 12.5	13.2* 13.5*	11.2* 11.2*
6.0	HD LC-V				17.8* 20.2*	17.8* 20.2*	13.6* 15.3*	13.2* 14.1*	13.2* 14.0*	10.6 10.0
4.5	HD LC-V			20.4* 22.7*	20.4* 22.7*	17.1* 18.2*	15.1* 14.5*	12.1 11.7	14.0* 14.6*	11.2* 11.2*
3.0	HD LC-V			23.0* 22.4	23.0* 24.8*	18.9* 17.3	15.1* 20.1*	12.3 13.9	14.7* 17.2*	11.1* 11.1*
1.5	HD LC-V			23.4	25.0*	18.1	14.5	11.9	15.2*	11.5* 11.5*
0	HD LC-V			21.5	26.2*	16.6	13.4	11.0	14.5	9.6 10.0
-1.5	HD LC-V			22.5	26.2*	21.4	21.2*	17.6	15.6*	10.1 10.6
-3.0	HD LC-V	22.9* 23.7*	22.9* 23.7*	29.0	33.2*	20.7	26.3*	16.0	12.9	10.7 11.4
-4.5	HD LC-V	30.4	31.1*	30.7	31.0*	21.8	26.2*	16.8	21.4*	14.0* 14.5*
-6.0	HD LC-V	35.3* 36.4*	35.3* 36.4*	34.6*	34.8*	27.8* 27.5*	21.2 22.4*	16.4	18.0*	14.0* 14.4*
-7.5	HD LC-V	27.9* 27.1*	27.9* 27.1*	22.3*	22.3*	17.6*	17.6*	16.9*	16.9*	13.7* 13.6*
-9.0	HD LC-V									8.6

Stick 5.80 m

 m	Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	m
12.0	HD LC-V						11.8*	11.8*		9.9* 9.8*
10.5	HD LC-V							10.1* 10.5*	10.1*	9.8* 9.8*
9.0	HD LC-V							10.5* 11.6*	10.5*	9.2* 9.2*
7.5	HD LC-V						12.1* 12.2*	11.9* 11.9*	11.9*	8.6* 8.6*
6.0	HD LC-V						13.0* 13.1*	12.4* 12.4*	10.4	8.5* 8.5*
4.5	HD LC-V				18.0* 18.3*	18.0* 18.3*	15.6* 15.8*	14.1* 14.2*	12.6	12.4* 12.4*
3.0	HD LC-V				20.9* 21.1*	20.9* 21.1*	17.5* 17.6*	15.0 15.4*	12.2	12.8* 12.9*
1.5	HD LC-V			23.5	23.5*	18.0	19.2*	14.4	16.4*	11.7 11.7
0	HD LC-V			23.7*	23.7*	18.8	19.3*	15.0	16.5*	11.0 11.0
-1.5	HD LC-V			22.2	25.4*	17.2	20.5*	13.8	17.4*	10.2 10.2
-3.0	HD LC-V	29.6	30.2*	21.4	26.5*	16.6	21.4*	13.3	17.5	13.3* 13.3*
-4.5	HD LC-V	30.5*	30.5*	22.4	26.5*	17.4	21.5*	14.0	18.0*	11.6 11.6
-6.0	HD LC-V	14.1* 19.9*	14.1* 19.9*	20.4* 27.8*	20.4* 27.8*	21.0	26.7*	16.2	21.5	9.8* 10.0
-7.5	HD LC-V	20.5*	20.5*	28.6*	28.6*	30.6	33.2*	22.0	26.7	17.0 17.0
-9.0	HD LC-V	27.7* 39.4*	27.7* 39.4*	37.9* 34.1*	37.9* 34.1*	29.5	30.9*	21.0	24.6*	13.7 13.7
								16.1	21.3*	13.0 13.0
								16.9	21.3*	17.1 17.1
								21.2*	16.9	15.5* 14.6*
								16.9*	21.3*	10.8 11.5
								19.9*	13.7*	12.4* 14.6*
								13.9	16.1*	

Height

Can be slewed though 360°

In longitudinal position of undercarriage



Max. reach

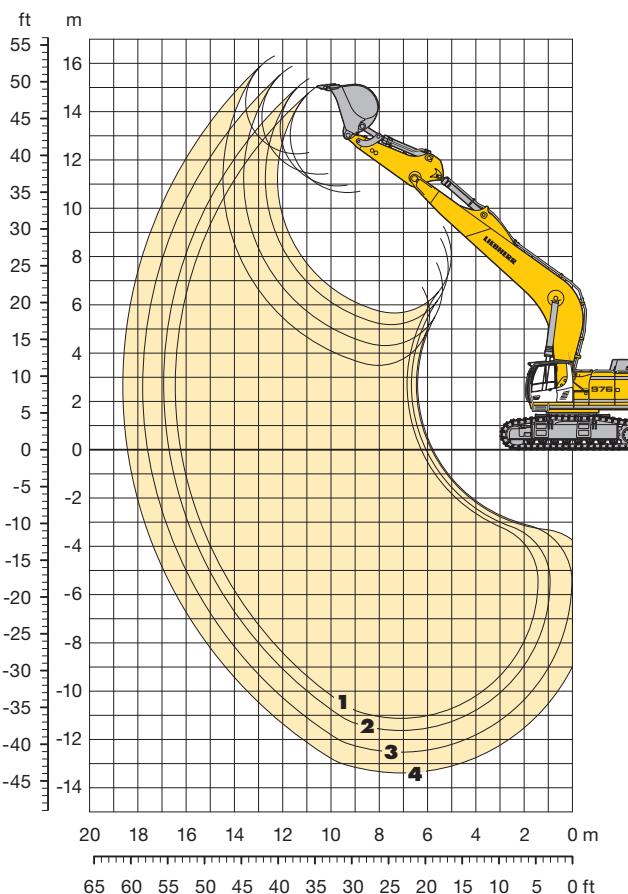
* Limited by hydr. capacity

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 double grouser 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 1,300 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.

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Backhoe Bucket

with Mono Boom 10.50 m and Heavy Counterweight



Digging Envelope

	1	2	3	4	
Stick length	m	3.30	3.80	4.70	5.80
Max. digging depth	m	11.15	11.65	12.55	13.40
Max. reach at ground level	m	16.25	16.70	17.60	18.45
Max. dump height	m	10.65	10.90	11.40	12.25
Max. teeth height	m	15.05	15.35	15.85	16.30
Digging force ISO	kN	361	329	284	249
	t	36.8	33.5	28.9	25.4
Breakout force ISO	kN	485	485	485	356
	t	49.4	49.4	49.4	36.3

Operating Weight and Ground Pressure

Operating weight includes basic machine with heavy counterweight, mono boom 10.50 m, stick 4.70 m and bucket 2.20 m³ (3,200 kg).

Undercarriage	HD	LC-V
Pad width	mm	500 600 750
Weight	kg	88,500 89,200 90,300
Ground pressure	kg/cm ²	1.71 1.43 1.16
		1.68 1.41 1.14

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

Cutting width mm	Capacity ISO 7451 m ³	Weight kg	HD-Undercarriage				LC-V-Undercarriage			
			Stick length (m)	3.30	3.80	4.70	5.80	Stick length (m)	3.30	3.80
				3.30	3.80	4.70	5.80		3.80	4.70
STD ¹⁾	1,250	2.20	3,200	○	○	□	▲	○	○	○
	1,400	2.70	3,450	○	□	△	▲	○	□	□
	1,600	3.20	3,750	□	△	■	▲	□	△	△
	1,800	3.80	4,000	△	■	▲	▲	△	■	▲
HD ²⁾	1,400	2.60	3,800	○	□	△	▲	○	□	□
	1,600	3.10	4,250	□	■	■	▲	□	△	△
	1,800	3.60	4,400	△	■	▲	▲	△	■	▲
STD ³⁾	1,350	2.00	2,750	▲	▲	▲	□	▲	▲	▲
	1,550	2.50	2,950	▲	▲	▲	△	▲	▲	□
	1,750	3.00	3,150	▲	▲	▲	■	▲	▲	△
	1,950	3.50	3,450	▲	▲	▲	▲	▲	▲	■
HD ⁴⁾	1,600	2.00	3,550	▲	▲	▲	△	▲	▲	□
	1,800	2.50	3,850	▲	▲	▲	■	▲	▲	△
	2,000	3.00	4,100	▲	▲	▲	▲	▲	▲	■

* Indicated loads are based on ISO 10567 max. stick length, lifted 360° on firm

¹⁾ Standard bucket with Liebherr teeth Z 90

²⁾ HD bucket with Liebherr teeth Z 90

³⁾ Standard bucket from R 966 Litronic® with Liebherr teeth Z 90

⁴⁾ HD bucket from R 966 Litronic® with Liebherr teeth Z 90

Other backhoes available on request

Max. material weight ○ = ≤ 2.2 t/m³, □ = ≤ 1.8 t/m³, △ = ≤ 1.5 t/m³, ■ = ≤ 1.2 t/m³, ▲ = not authorized

Lift Capacities

with Mono Boom 10.50 m and Heavy Counterweight

Stick 3.30 m

 Height m	Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	 m		
13.5	HD LC-V													
12.0	HD LC-V											12.5* 12.5*		
10.5	HD LC-V						12.5* 12.0* 12.0*	12.5* 12.0* 12.0*				12.1* 12.1* 12.1*		
9.0	HD LC-V					13.4* 13.4*	13.4* 12.3*	12.3* 12.3*	11.8* 11.8*	11.8* 11.8*		11.2 11.6 11.9*		
7.5	HD LC-V					14.6* 14.7*	14.6* 13.0*	13.0* 13.0*	12.0 12.1*	12.0* 12.1*		9.9 10.4 11.8*		
6.0	HD LC-V					16.0* 16.2*	16.0* 16.2*	13.8* 13.9*	11.6 12.1	12.5* 12.6*	9.4 9.9 11.8*	9.1 9.6 11.8*		
4.5	HD LC-V							13.5 14.1	14.8* 14.9*	11.1 11.6	13.1* 13.1*	9.1 9.7 12.1*		
3.0	HD LC-V							12.8 13.5	15.7* 15.7*	10.6 11.2	13.7* 13.7*	8.9 9.4 12.4*		
1.5	HD LC-V							12.3 12.9	16.3* 16.4*	10.2 10.8	13.7 14.2*	8.7 9.2 12.7*		
0	HD LC-V					14.6 15.4	19.9 20.1*	11.9 12.6	16.1 16.8*	10.0 10.6	13.4 14.5*	8.2 8.6 11.0		
- 1.5	HD LC-V					14.5 15.3	19.7 20.0*	11.8 12.5	15.9 16.8*	9.9 10.5	13.3 14.5*	8.6 9.1 12.7*		
- 3.0	HD LC-V				19.1 20.2	23.2* 23.1*	14.5 15.4	19.6* 19.5*	11.8 12.5	15.9 16.5*	9.9 10.5	13.3 14.1*	9.2 9.8 12.3	
- 4.5	HD LC-V			25.6* 25.4*	25.6* 25.4*	19.4 20.5	22.0* 21.8*	14.8 15.7	18.6* 18.5*	12.0 12.7	15.8* 15.7*	10.2 10.2	13.0*	10.2 10.9 12.9*
- 6.0	HD LC-V	26.5* 26.3*	26.5* 26.3*	23.4* 23.1*	23.4* 23.1*	19.9 19.9*	20.1* 19.6	15.2 16.1	17.0* 16.8*	12.4 13.2	14.1* 13.8*			11.9 12.8 12.8*
- 7.5	HD LC-V			19.9* 19.5*	19.9* 19.5*	17.0* 16.7	17.0* 16.7	13.9* 13.4*	13.9*					12.3* 12.2*
- 9.0	HD LC-V													
- 10.5	HD LC-V													

Stick 3.80 m

 Height m	Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	 m
13.5	HD LC-V											12.3* 12.3*
12.0	HD LC-V						11.5* 11.4*	11.5* 11.4*				11.7* 11.6*
10.5	HD LC-V						11.3* 11.3*	11.3* 11.2*	11.2* 11.2*			11.3* 11.3*
9.0	HD LC-V						11.7* 11.7*	11.7* 11.7*	11.1* 11.2*			10.4 10.8 11.2*
7.5	HD LC-V					13.9* 14.0*	13.9* 14.0*	12.4* 12.5*	12.4* 12.5*	11.5* 11.5*	11.5* 11.5*	9.7 9.7 11.1*
6.0	HD LC-V					15.3* 15.5*	15.3* 15.5*	13.3* 13.4*	13.3* 13.4*	11.6 12.1*	12.0* 12.1*	9.5 10.2 11.3*
4.5	HD LC-V					16.8 17.0*	16.9* 17.0*	13.6 14.2	14.3* 14.4*	11.1 11.7	12.6* 12.7*	9.7 9.7 11.6*
3.0	HD LC-V						12.9 13.5	15.2* 15.3*	11.1 11.2	13.3* 13.3*	9.4 9.4	12.0*
1.5	HD LC-V						12.3 13.0	16.0* 16.0*	10.2 10.8	13.6 13.9	8.6 9.1	11.5*
0	HD LC-V					14.6 15.4	19.8* 19.8*	11.9 12.6	16.0 16.5*	9.9 10.5	13.3* 14.2*	8.4 8.9 11.3
- 1.5	HD LC-V					14.4 15.2	19.6 19.9*	11.7 12.4	15.8 16.7*	9.7 10.3	13.1* 14.4*	8.3 8.8 11.2
- 3.0	HD LC-V			18.8 19.9	23.5* 23.5*	14.4 15.2	19.6* 19.6*	11.6 12.3	15.7 16.5*	9.7 10.3	13.1* 14.2*	
- 4.5	HD LC-V	26.7* 28.7*	26.7* 28.7*	19.0 20.2	22.5* 22.3*	14.5 15.4	18.9* 18.8*	11.7 12.5	15.9 15.9*	9.9 10.5	13.3* 13.4*	9.4 10.1
- 6.0	HD LC-V	28.9* 28.7*	28.9* 28.7*	19.5 20.6	20.8* 20.6*	14.9 15.8	17.5* 17.4*	12.1 12.8	14.7* 14.5*			10.8 11.6
- 7.5	HD LC-V	25.1* 24.7*	25.1* 24.7*	21.4* 21.1*	18.1* 17.8*	18.1* 18.4*	15.1* 14.8*	15.1* 14.8*				12.0* 12.0*
- 9.0	HD LC-V			16.3* 12.7*	16.3* 12.7*	13.4* 13.4*	13.4* 12.7*					10.9* 11.4*
- 10.5	HD LC-V											8.4



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 double grouser 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 1,300 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.

Lift Capacities

with Mono Boom 10.50 m and Heavy Counterweight

Stick 4.70 m

 m	Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	m	
13.5	HD LC-V											10.8* 10.7*	
12.0	HD LC-V							10.2* 10.1*	10.2* 10.1*			10.3* 10.3*	
10.5	HD LC-V							9.9* 9.9*	9.9* 9.9*			10.3* 10.1*	
9.0	HD LC-V							10.0* 10.1*	10.0* 10.1*	9.9* 9.9*		9.1* 9.5*	
7.5	HD LC-V						11.3* 11.4*	11.3* 11.4*	10.5* 10.5*	9.9* 10.0*		8.2* 8.6*	
6.0	HD LC-V				14.0* 14.2*	14.0* 14.2*	12.2* 12.3*	11.1* 11.1*	11.1* 11.1*	10.1* 10.4*	8.2* 10.0*	7.6* 8.0*	
4.5	HD LC-V				15.6* 15.8*	15.6* 15.8*	13.3* 13.4*	11.2* 11.8*	11.8* 11.8*	9.2* 9.7*	10.8* 10.2*	7.2* 7.6*	
3.0	HD LC-V				16.1* 16.8*	17.1* 17.2*	13.0* 13.6*	14.3* 14.4*	10.7* 11.2*	12.5* 12.5*	8.8* 9.3*	11.3* 11.3*	
1.5	HD LC-V				15.2* 15.9*	18.3* 18.4*	12.3* 13.0*	15.2* 15.3*	10.2* 10.7*	13.1* 13.2*	8.5* 9.0*	11.4* 11.7*	
0	HD LC-V				14.5* 15.3*	19.1* 19.2*	11.8* 12.5*	15.9* 15.9*	10.4* 10.4*	13.7* 12.1*	8.2* 8.7*	11.1* 12.1*	
- 1.5	HD LC-V				14.2* 15.0*	19.4* 19.5*	11.5* 12.2*	15.6* 16.3*	9.5* 10.1*	12.9* 14.0*	8.1* 8.6*	10.9* 12.2*	
- 3.0	HD LC-V			18.3* 19.4*	23.8* 23.7*	14.0* 14.9*	19.3* 19.5*	11.3* 12.0*	15.5* 16.3*	9.4* 10.0*	12.8* 14.0*	8.0* 8.5*	
- 4.5	HD LC-V			23.7* 24.6*	23.7* 24.6*	18.5* 19.6*	23.0* 22.9*	14.1* 15.0*	19.0* 19.0*	11.3* 12.1*	15.5* 16.0*	9.4* 10.1*	
- 6.0	HD LC-V	19.6* 20.4*	19.6* 20.4*	24.6* 25.5*	24.6* 25.5*	26.4* 26.2*	18.8* 20.0*	21.7* 21.5*	14.3* 15.2*	18.1* 18.0*	11.5* 12.3*	15.2* 15.1*	9.7* 10.3*
- 7.5	HD LC-V	28.9* 29.8*	28.9* 29.8*	29.0* 28.6*	29.0* 28.6*	23.7* 23.4*	23.7* 23.4*	19.4* 19.4*	19.6* 19.4*	14.8* 15.7*	16.4* 16.2*	12.0* 12.8*	13.5* 13.3*
- 9.0	HD LC-V	23.7* 23.2*	23.7* 23.2*	19.7* 19.2*	19.7* 19.2*	16.3* 15.9*	16.3* 15.9*	13.1* 12.7*	13.1* 12.7*				10.9* 10.7*
- 10.5	HD LC-V												11.3* 11.1*

Stick 5.80 m

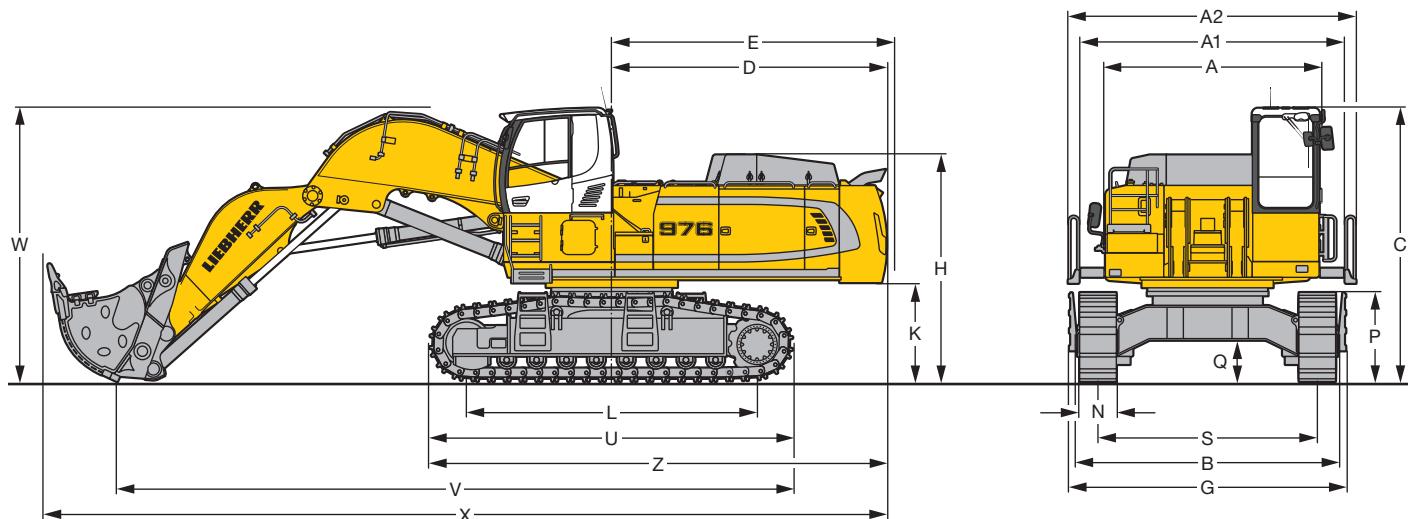
 m	Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m	13.5 m	15.0 m	16.5 m	m	
13.5	HD LC-V							9.3* 9.2*	9.3* 9.2*			9.5* 9.5*	
12.0	HD LC-V							9.2* 9.2*	9.2* 9.2*			9.3* 9.3*	
10.5	HD LC-V							8.8* 9.2*	8.8* 8.8*			9.0* 9.0*	
9.0	HD LC-V							9.1* 9.2*	9.1* 9.2*	8.4* 8.9*	9.0* 9.0*	8.1* 8.5*	
7.5	HD LC-V							9.6* 9.7*	9.6* 9.7*	9.2* 9.3*	8.4* 8.8*	7.4* 7.8*	
6.0	HD LC-V				12.9* 14.5*	12.9* 14.5*	11.3* 12.4*	11.3* 12.4*	10.3* 11.1*	10.3* 11.1*	9.7* 10.2*	9.7* 10.2*	6.9* 7.3*
4.5	HD LC-V				14.5* 14.6*	14.5* 14.6*	12.4* 12.5*	11.1* 11.2*	11.1* 11.2*	10.1* 10.1*	10.2* 10.2*	8.4* 8.4*	6.5* 6.9*
3.0	HD LC-V				16.1* 16.3*	16.1* 16.3*	13.6* 13.7*	13.6* 13.7*	11.1* 11.7*	11.9* 12.0*	9.2* 9.7*	10.7* 10.8*	6.3* 6.7*
1.5	HD LC-V				15.9* 16.7*	17.6* 17.7*	12.9* 13.5*	14.6* 14.7*	10.6* 11.1*	12.7* 12.7*	8.8* 9.3*	11.3* 11.3*	6.2* 6.6*
0	HD LC-V				15.1* 15.9*	18.6* 18.7*	12.2* 12.9*	15.5* 15.5*	10.1* 10.7*	13.3* 13.4*	8.5* 9.0*	11.4* 11.8*	6.2* 6.7*
- 1.5	HD LC-V				14.5* 15.4*	19.3* 19.4*	11.8* 12.5*	15.9* 16.1*	10.3* 10.3*	13.8* 16.1*	7.6* 8.7*	10.7* 12.1*	6.4* 6.8*
- 3.0	HD LC-V				18.5* 19.5*	24.3* 24.2*	14.2* 15.1*	19.5* 19.7*	11.5* 12.2*	15.6* 16.4*	9.5* 10.1*	12.9* 14.0*	6.0* 6.7*
- 4.5	HD LC-V	14.5* 16.1*	14.5* 20.3*	20.8* 20.3*	18.5* 26.5*	23.9* 23.0*	14.1* 14.2*	19.4* 19.0*	11.4* 12.1*	15.5* 16.4*	9.4* 10.1*	12.8* 14.0*	7.1* 7.7*
- 6.0	HD LC-V	16.1* 16.6*	16.1* 16.6*	20.3* 20.9*	26.5* 28.0*	28.6* 28.4*	18.7* 19.8*	23.0* 22.9*	14.2* 15.1*	19.0* 18.9*	11.4* 12.2*	15.6* 15.9*	8.6* 8.7*
- 7.5	HD LC-V	22.7* 23.4*	22.7* 23.4*	28.4* 29.2*	28.4* 26.2*	26.5* 26.2*	19.1* 20.2*	21.5* 21.3*	14.5* 15.4*	17.8* 17.7*	11.7* 12.4*	14.9* 14.8*	8.2* 8.7*
- 9.0	HD LC-V	31.3* 32.2*	31.3* 29.3*	29.3* 28.9*	23.3* 28.9*	23.3* 28.9*	19.1* 19.2*	19.1* 18.9*	15.1* 15.6*	15.8* 16.2*	12.2* 12.6*	12.9* 12.6*	9.8* 10.5*
- 10.5	HD LC-V	32.0* 32.2*	23.0* 23.0*	23.0* 18.6*	18.6* 18.6*	18.6* 15.1*	18.1* 15.1*	18.1* 18.9*	14.7* 14.7*	11.2* 11.2*			10.6* 10.5*

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 double grouser 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 1,300 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.

Dimensions Front Shovel

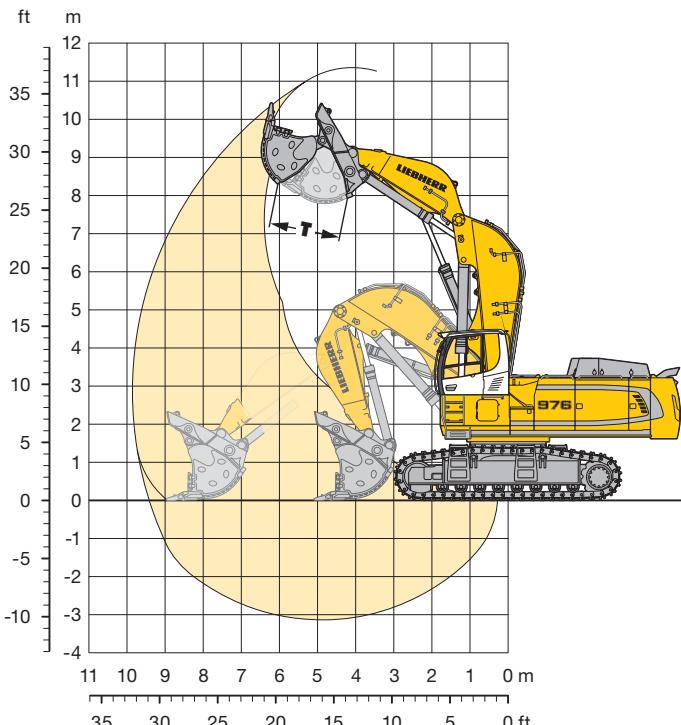


	HD	mm
A		3,565
A1		4,355
A2		4,730
C		4,495/4,690*
D		4,515
E		4,640
H		3,725
K		1,620
L		4,770
P		1,460

	HD	mm
Q		682
S		3,600
U		5,955
N	500 600 750	
B	4,290 4,290 4,350	
G	4,540 4,540 4,540	
Z		7,490
V		11,100
W		4,500
X		13,850

* with FOPS top guard

Front Shovel



Digging Envelope

Max. reach at ground level	9.40 m
Max. dump height	7.80 m
Max. crowd length	3.90 m
Bucket opening width T	1,825 mm
Max. crowd force	690 kN/70.4 t
Max. crowd force at ground level	490 kN/50.0 t
Max. breakout force	500 kN/51.0 t

Operating Weight and Ground Pressure

Operating weight includes basic machine with cab elevation 800 mm, shovel attachment and front shovel 5.10 m³ (9,100 kg), level II.

Undercarriage	HD		
Pad width	mm	500	600
Weight	kg	90,800	91,500
Ground pressure	kg/cm ²	1.75	1.47
			1.19

Front Shovels

Cutting width mm	Capacity ISO 7451 m ³	Weight kg	Wear kit level	HD-Undercarriage	Shovel Attachment
2,300	4.40	8,300	II	○	
2,300	4.40	9,150	III	○	
2,700	5.10	8,450	I	□	
2,700	5.10	9,100	II	□	
2,700	5.10	10,150	III	□	
2,700	5.40	9,900	III	△	
2,700	5.60	8,750	I	△	
2,700	5.60	9,450	II	△	

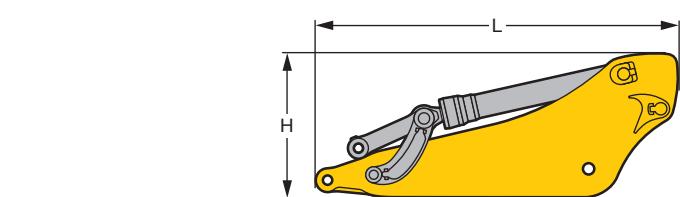
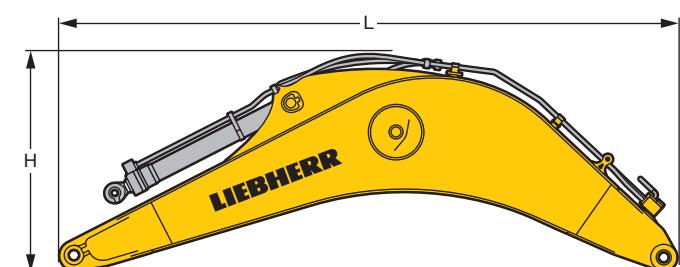
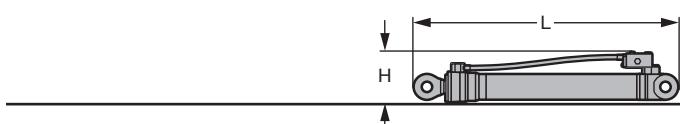
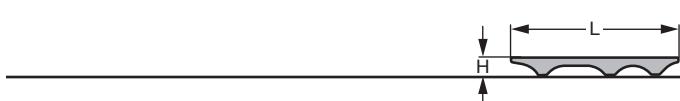
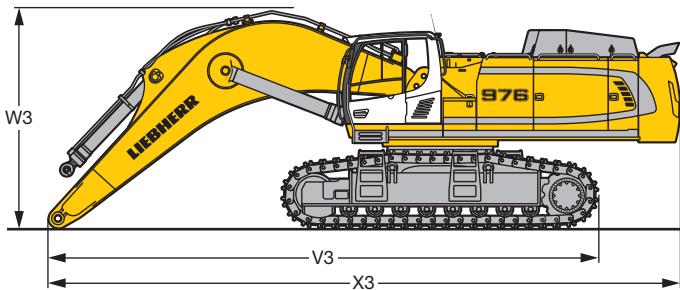
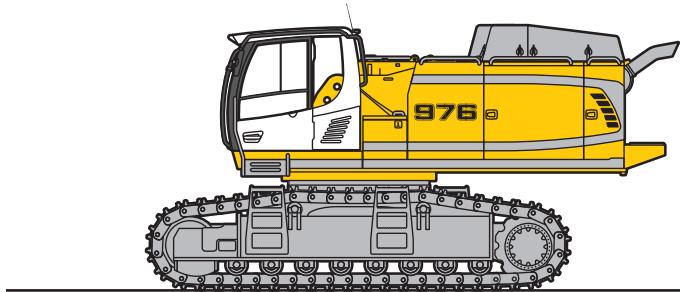
Level I: For non-abrasive materials, such as limestone without flint inclusion, shot material or easily breakable rock, i.e., deteriorated rock, soft limestone, shale, etc.

Level II: For pre-blasted heavy rock, or deteriorated, cracked material (classification 3 to 4, accord. to DIN 18300)

Level III: For highly-abrasive materials such as rock with a high silica content, sandstone etc.

Max. material weight ○ = ≤ 2.2 t/m³, □ = ≤ 1.8 t/m³, △ = ≤ 1.65 t/m³

Component Dimensions and Weights



Basic Machine

Track pads	mm	500	600	750
Weight with backhoe attachment and HD-undercarriage	kg	50,500	51,250	52,350
Weight with shovel attachment and HD-undercarriage	kg	50,600	51,350	52,450
Weight with backhoe attachment and LC-V-undercarriage	kg	55,600	56,400	57,550

Basic Machine

	HD	LC-V
V3 Mono boom 7.20 m	mm	10,350 10,400
Mono boom 8.60 m	mm	13,450 13,400
Mono boom 10.50 m	mm	13,650 13,800
W3 Mono boom 7.20 m	mm	4,150 4,250
Mono boom 8.60 m	mm	4,500 4,550
Mono boom 10.50 m	mm	4,900 5,000
X3 Mono boom 7.20 m	mm	11,950 11,900
Mono boom 8.60 m	mm	11,700 11,850
Mono boom 10.50 m	mm	15,450 15,400

Cab Elevation

800 mm

L Length	mm	1,890
H Height	mm	925
Width	mm	1,370
Weight	kg	600

Counterweight

Std heavy

L Length	mm	775	775
H Height	mm	1,595	1,595
Width	mm	3,360	3,360
Weight	kg	14,100	16,000

Upper Protection Screen

L Length	mm	1,960
H Height	mm	190
Width	mm	1,110
Weight	kg	75

Hoist Cylinders (two)

L Length	mm	2,920
H Height	mm	550
Ø Diameter	mm	400
Weight	kg	2 x 1,050

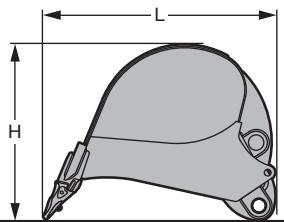
Mono Boom with Stick Cylinder

Stick length	m	7.20	8.60	10.50
L Length	mm	7,550	8,950	10,850
H Height	mm	2,700	2,800	3,050
Width	mm	1,460	1,460	1,460
Weight	kg	9,500	10,400	11,500

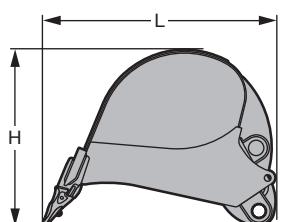
Stick with Bucket Cylinder

Stick length	m	2.90	3.30	3.80	4.70	5.80
L Length	mm	4,050	4,450	4,900	5,800	6,900
H Height	mm	1,700	1,650	1,500	1,450	1,400
Width	mm	900	900	900	900	900
Weight	kg	4,450	4,550	4,750	5,150	5,100

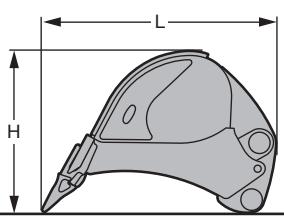
Component Dimensions and Weights



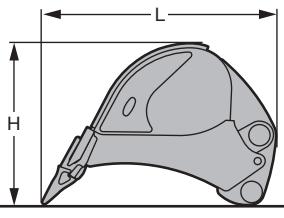
Backhoe Buckets		Std				
Cutting width	mm	1,250	1,400	1,600	1,800	1,950
Capacity	m³	2.20	2.70	3.20	3.80	4.30
L Length	mm	2,500	2,500	2,500	2,500	2,500
H Height	mm	1,900	1,900	1,900	1,900	1,900
Width	mm	1,300	1,450	1,650	1,850	2,000
Weight	kg	3,200	3,450	3,750	4,000	4,200



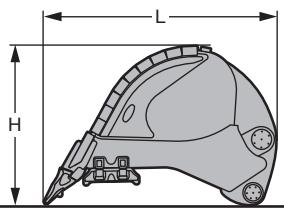
Backhoe Buckets		Std				
Cutting width	mm	2,150	2,300	2,300	2,600	
Capacity	m³	4.80	5.20	5.80	6.60	
L Length	mm	2,500	2,500	2,600	2,600	
H Height	mm	1,900	1,950	1,950	1,950	
Width	mm	2,200	2,350	2,350	2,650	
Weight	kg	4,450	4,600	4,800	5,100	



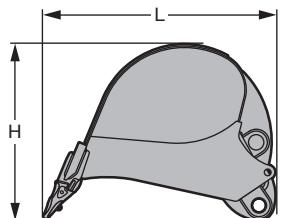
Backhoe Buckets		HD				
Cutting width	mm	1,400	1,600	1,800	1,950	
Capacity	m³	2.60	3.10	3.60	4.10	
L Length	mm	2,450	2,450	2,450	2,450	
H Height	mm	1,950	1,950	1,950	1,950	
Width	mm	1,450	1,650	1,850	2,000	
Weight	kg	3,800	4,250	4,400	4,750	



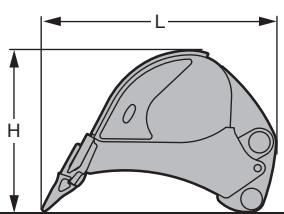
Backhoe Buckets		HD				
Cutting width	mm	2,150	2,300	2,300	2,400	
Capacity	m³	4.60	5.20	5.60	6.20	
L Length	mm	2,450	2,450	2,550	2,550	
H Height	mm	1,950	1,950	1,950	1,950	
Width	mm	2,200	2,350	2,350	2,450	
Weight	kg	5,050	5,400	5,550	5,900	



Backhoe Buckets		HDV				
Cutting width	mm	1,950	2,150	2,300	2,300	
Capacity	m³	4.20	4.70	5.20	5.70	
L Length	mm	2,450	2,450	2,450	2,600	
H Height	mm	1,950	1,950	1,950	1,950	
Width	mm	2,000	2,200	2,350	2,350	
Weight	kg	5,250	5,550	5,850	6,400	

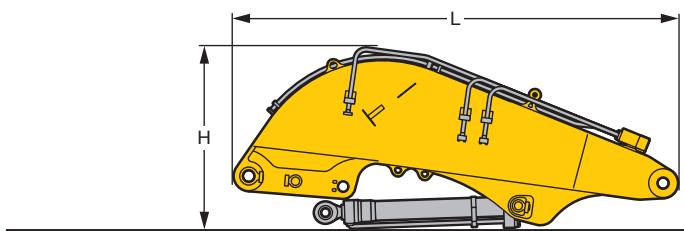


Backhoe Buckets R 966		Std				
Cutting width	mm	1,350	1,550	1,750	1,950	2,150
Capacity	m³	2.00	2.50	3.00	3.50	4.00
L Length	mm	2,400	2,400	2,400	2,400	2,400
H Height	mm	1,700	1,700	1,700	1,700	1,700
Width	mm	1,400	1,600	1,800	2,000	2,200
Weight	kg	2,750	2,950	3,150	3,450	3,600



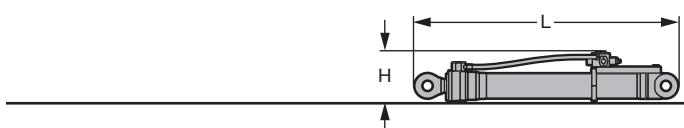
Backhoe Buckets R 966		HD				
Cutting width	mm	1,600	1,800	2,000	2,150	
Capacity	m³	2.00	2.50	3.00	3.50	
L Length	mm	2,300	2,300	2,300	2,350	
H Height	mm	1,600	1,600	1,600	1,650	
Width	mm	1,650	1,850	2,050	2,200	
Weight	kg	3,550	3,850	4,100	4,450	

Component Dimensions and Weights



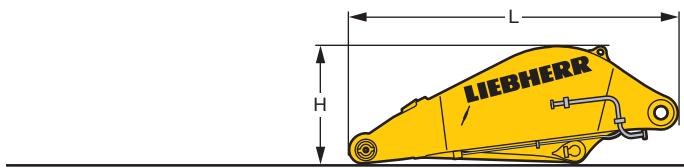
Shovel Boom

L	Length	mm	4,950
H	Height	mm	2,050
	Width	mm	1,650
	Weight without crowd cylinder	kg	7,300
	Weight crowd cylinder	kg	2 x 450



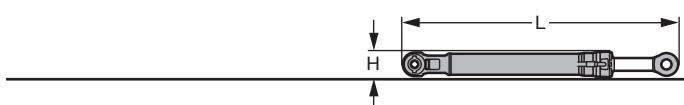
Shovel Hoist Cylinders (two)

L	Length	mm	2,920
H	Height	mm	550
Ø	Diameter	mm	450
	Weight	kg	2 x 1,100



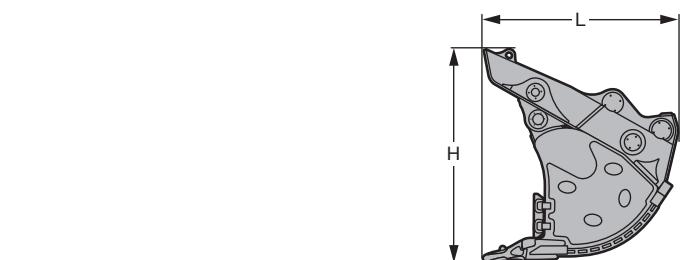
Shovel Stick

L	Length	mm	3,660
H	Height	mm	1,300
	Width	mm	1,800
	Weight	kg	4,650



Shovel Bucket Cylinders (two)

L	Length	mm	3,050
Ø	Diameter	mm	300
	Weight	kg	2 x 625



Front Shovels

Cutting width	mm	2,300	2,700	2,000	2,000	
Capacity	m ³	4.40	5.10	5.40	5.60	
L	Length	mm	2,600	2,600	2,500	2,800
H	Height	mm	2,600	2,600	2,700	2,600
	Width	mm	2,350	2,750	2,750	2,750
	Weight					
Level I	kg		–	8,450	–	8,750
Level II	kg		8,300	9,100	–	9,450
Level III	kg		9,150	10,150	9,900	–

Standard Equipment



Undercarriage

Lashing eyelets
Lifetime-lubricated track rollers
Track guide at each track frame (three pieces)
Tracks sealed and greased



Uppercarriage

Engine hood with lift help
Extended tool kit
Fuel tank cap, lockable
Handrails, non slip surfaces
Maintenance-free swing brake lock
Sound insulation
Toolbox lockable
Walkway, both-sided



Hydraulics

Filter with integrated fine filter area
Hydraulic tank shut-off valve and pumps
Liebherr hydraulic oil
Pressure storage for controlled lowering of equipment with engine turned off
Pressure test ports for hydraulic
Stepless work mode selector



Engine

After-cooled
Air pre-filter with dust trap
Common-Rail system injection
Conform with stage IIIB/Tier 4i emission standard
Dry-type air cleaner w/pre-cleaner, main and safety elements
Engine cold starting aid
Fuel filter and water separator
SCR system (Selective Catalytic Reduction)
Sensor-controlled automatic engine idling
Turbo charger



Operator's Cab

7" colour multifunction display with touchscreen
All tinted windows
Automatic air conditioning
Cigarette lighter and ashtray
Coat hook
Cup holder
Dome light
Door with sliding windows
Emergency exit rear window
Fuel consumption indicator
Hydro mounts
Impact-resistant front window and roof window
LiDAT Plus (enhanced Liebherr data transfer system)*
Mechanical hour meters, readable from outside the cab
Operator seat Liebherr-Comfort
Preparation for radio installation
Rain hood over front window opening
Rear space monitoring with camera
Roll-down sun blind
Rubber floor mat
Seat belt
Storage bin
Storage space
Two headlights (Halogen)
Wiper/washer



Attachment

Headlights on boom (both-sided, halogen)
Liebherr full-automatic central lubrication system (except connecting link for bucket kinematics)
Re-Generation plus
Safety check valves hoist cylinder
Safety check valves stick cylinder

* optionally extendable after one year

Individual Options



Undercarriage

Cover and base protection plates
Protection plate for wrecking ball operation
Track guide at each track frame (four pieces)
Travel drive protection
Travel gear support, reinforced



Uppercarriage

Cab elevation
Customized colors
Headlights with protection
Heavy counterweight
Refuelling pump (electrical)
Rock protection (swing gear and lubrication pipes)
Walkway, wide version with guard rail
Wiggins quick-coupling for fuel



Operator's Cab

Additional headlights front or/and rear (Halogen or LED)
Amber beacon
Auxiliary heater with weekly timer
Camera for side area monitoring
Electric cool box (12 V)
Electronic drive away lock
Engine shut-down (emergency stop) in cab
FGPS front guard, lockable
Fire extinguisher
Footrest
FOPS top guard
Headlights (two pieces, LED)
Operator seat Liebherr-Premium
Proportional controls Liebherr
Radio Comfort
Roof wiper
Sun visor
Travel alarm system



Hydraulics

Bypass filter
Liebherr hydraulic oil, biodegradable
Liebherr hydraulic oil, specially for warm and cold regions



Attachment

Automatic lubrication system for connecting link
Bottom boom protection for stick
Headlights on boom (both-sided, LED)
High pressure circuit
Hydraulic or mechanical quick coupler
Liebherr line of buckets
Liebherr tooth system
Middle pressure circuit
Overload warning device
Piston rod guard for bucket cylinder
Piston rod guard for crowd cylinder
Piston rod guard for hoist cylinder
Security for hoist cylinder in grab or hammer operation
Tool Control



Engine

Automatic engine shut-down (adjustable time-period)
Engine compartment light
Fuel pre-heating system

Options and/or special attachments, 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 of Companies



Wide Product Range

The Liebherr Group is one of the largest construction equipment manufacturers in the world. Liebherr's high-value products and services enjoy a high reputation in many other fields. 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 acknowledged quality, Liebherr products offer a maximum of customer benefits in practical application.

State-of-the-art Technology

To provide consistent, top quality products, Liebherr attaches great importance to each product area, its components and core technologies. Important modules and components are developed and manufactured in-house, for instance the entire drive and control technology for construction equipment.

Worldwide and Independent

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 over 38,000 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.

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