Crawler Excavator

R 974 C
Litronic®

Operating Weight with Backhoe Attachment:	**84,500 – 101,300 kg**
Operating Weight with Shovel Attachment:	**90,200 – 106,000 kg**
Engine Output:	**400 kW/544 HP**
Bucket Capacity:	**2.00 – 6.80 m³**
Shovel Capacity:	**4.40 – 6.50 m³**

LIEBHERR

Technical Data

Engine

Rating per ISO 9249	400 kW (544 HP) at 1,800 RPM
Model	Liebherr D 9508
Type	8 cylinder V-engine
Bore/Stroke	128/157 mm
Displacement	16.16 l
Engine operation	4-stroke diesel common rail injection turbo-charged after-cooled reduced emissions
Cooling	water-cooled
Air cleaner	dry-type air cleaner with pre-cleaner, primary and safety elements, automatic dust discharge
Fuel tank	1,460 l
Electrical system	
Voltage	24 V
Batteries	2 x 170 Ah/12 V
Starter	24 V/7.8 kW
Alternator	three phase current 28 V/80 A

Hydraulic System

Hydraulic pumps for attachment and travel drive	2 Liebherr variable flow swash plate pumps
Max. flow	2 x 496 l/min.
Max. hydr. pressure	320 bar
Pump control	electro-hydraulic with electronic engine speed sensing regulation over entire RPM range, pressure compensation, flow compensation automatic oil flow optimizer, flow summation
Hydraulic pump for swing drive	1 reversible swash plate pump, closed-loop circuit
Max. flow	315 l/min.
Max. hydr. pressure	350 bar
Hydraulic tank	745 l
Hydraulic system	1,350 l
Hydraulic oil filter	2 full flow filters in return line with integrated fine filter area (5 µm), 1 high pressure filter for each main pump
Cooler	radiator, consisting of cooling unit for coolant and after-cooler as well as 2nd cooler for hydraulic oil with hydrostatically regulated fan drive
MODE selection	adjustment of machine performance and the hydraulics via a mode selector to match application
LIFT	for lifting
FINE	for precision work and lifting through very sensitive movements
ECO	for especially economical and environmentally friendly operation
POWER	for maximum digging power and heavy duty jobs
RPM adjustment	stepless adjustment of engine output via the rpm at each selected mode
Menu for auxiliary functions	4 fixed adjustable oil flow parameters for optional working tools

Hydraulic Controls

Power distribution	via control valves in single block with integrated safety valves
Flow summation	to boom stick and bucket cylinders
Closed-loop circuit	for uppercarriage swing drive
Activation	electro-hydraulic control
Attachment and swing	proportional via joystick levers
Travel	proportional via foot pedals or removable hand levers
Additional functions	via foot pedals or joystick toggle switch

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

Uppercarriage

Design	torque resistant modular design upper frame
Attachment mounting	parallel length girders
Catwalks	on both sides

Operator's Cab

Cab	profiles and deep drawn technology, resiliently mounted, sound insulated, tinted windows. Front window armored glass, door with sliding window
Operator's seat	shock absorbing suspension, adjustable to operator's weight, 6-way adjustable seat
Joysticks	integrated into adjustable seat consoles
Monitoring	menu driven query of current operating conditions via the LCD display. Automatic monitoring, display, warning (acoustical and optical signal) and saving machine malfunction data, for example, engine overheating, low engine oil pressure or low hydraulic oil level
Heating system	standard automatic air conditioning, combined cooler/heater, additional dust filter in fresh air/recirculated
Noise emission	
ISO 6396	L_{pA} (inside cab) = 72 dB(A)
2000/14/EC	L_{WA} (surround noise) = 109 dB(A)

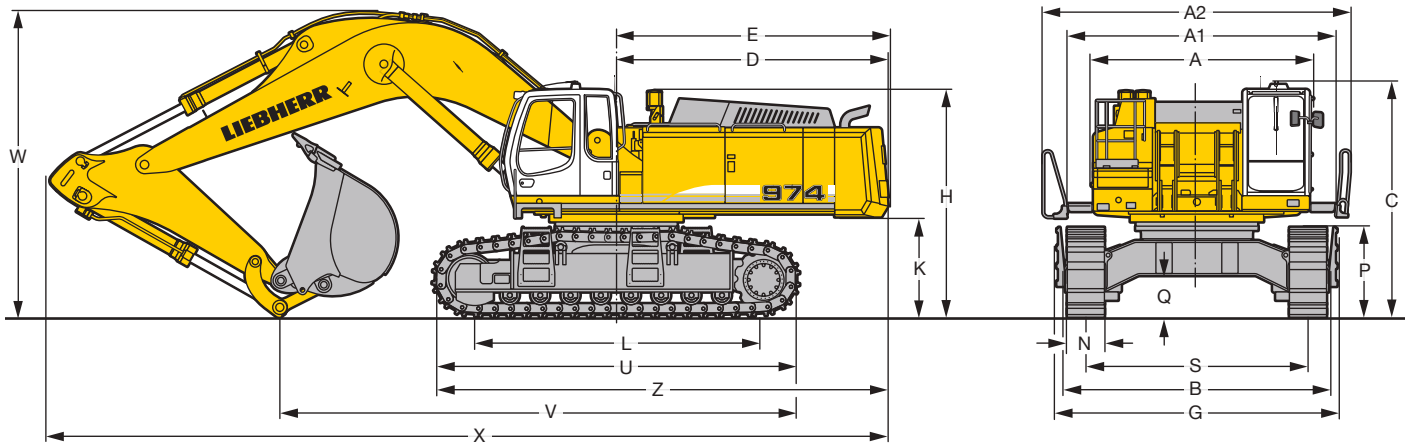
Undercarriage

Versions	
HD	heavy duty
LC-V	heavy duty, variable gauge
S-HD	heavy duty version for extreme and difficult application
Drive	Liebherr swash plate motors with integrated brake valves on both sides
Transmission	Liebherr planetary reduction gears
Travel speed	HD/LC-V: low range – 2.7 km/h high range – 4.3 km/h S-HD: low range – 2.1 km/h high range – 3.6 km/h
Net drawbar pull on crawler	HD/LC-V: 568 kN S-HD: 730 kN
Track components	D 9 G, maintenance-free
Track rollers/Carrier rollers	HD: 8/2 LC-V: 9/3 S-HD: 9/2
Tracks	sealed and greased
Track pads	double-grouser beveled
Digging locks	wet multi-discs (spring applied, pressure released)
Brake valves	integrated into travel motor

Attachment

Type	box-type, combination of resistant steel plates and cast steel components
Hydraulic cylinders	Liebherr cylinders with special seal-system, shock absorbed
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

Dimensions



	HD			mm	LC-V			mm
A				3,605				3,605
A1				4,365				4,365
A2				5,000				5,000
C				3,825				3,965
D				4,400				4,400
E				4,440				4,440
H				3,665				3,805
K				1,625				1,765
L				4,770				5,160
P				1,460				1,493
Q				682				955
S				3,600				2,750*/3,590
U				5,953				6,334
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		3,866	3,866	3,866	
Z				7,377				7,567

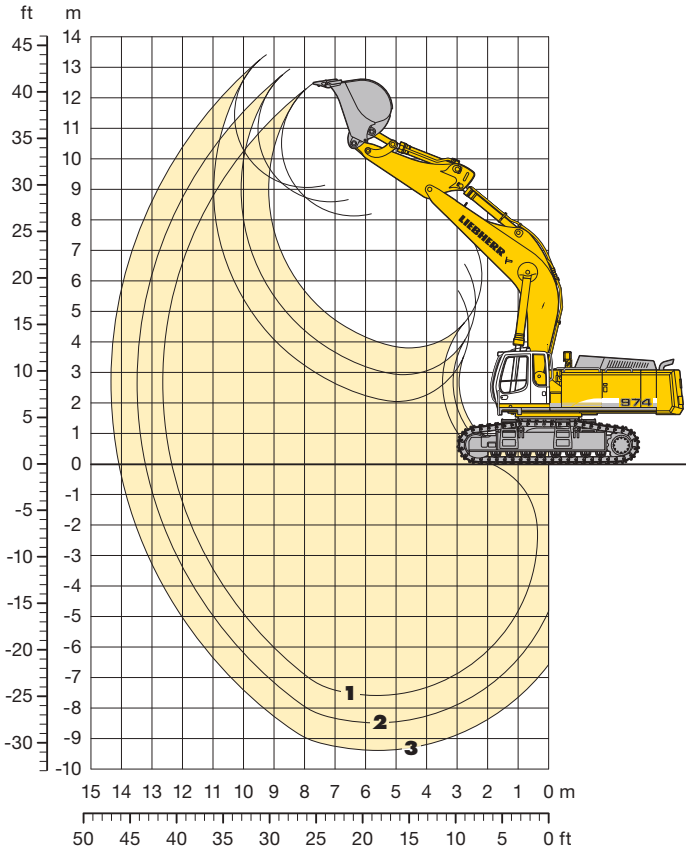
* Transport position

HD-Undercarriage	Stick Length	Mono Boom 7.20 m	Mono Boom 8.60 m	Mono Boom 10.50 m
	m	mm	mm	mm
V	2.90	8,450	10,150	–
	3.80	8,050	9,800	12,000
	4.70	7,950	9,700	11,800
	5.80	–	–	11,700
W	2.90	5,000	5,250	–
	3.80	5,450	5,550	5,650
	4.70	6,000	6,000	6,000
	5.80	–	–	6,800
X	2.90	13,650	15,100	–
	3.80	13,250	14,600	16,450
	4.70	13,000	14,400	16,300
	5.80	–	–	16,000

LC-V-Undercarriage	Stick Length	Mono Boom 7.20 m	Mono Boom 8.60 m	Mono Boom 10.50 m
	m	mm	mm	mm
V	2.90	8,600	10,300	–
	3.80	8,200a	9,950	12,150
	4.70	8,050	9,800	11,950
	5.80	–	–	11,850
W	2.90	5,050	5,300	–
	3.80	5,500	5,650	5,750
	4.70	6,050	6,000	6,100
	5.80	–	–	6,800
X	2.90	13,650	15,100	–
	3.80	13,300	14,650	16,500
	4.70	13,100	14,450	16,350
	5.80	–	–	16,100

Backhoe Bucket

with Mono Boom 7.20 m



Digging Envelope

		1	2	3
Stick length	m	2.90	3.80	4.70
Max. digging depth	m	7.60	8.50	9.40
Max. reach at ground level	m	12.35	13.20	14.10
Max. dump height	m	8.10	8.60	9.05
Max. teeth height	m	12.45	12.95	13.40
Digging force ISO	kN	357.3	301.2	260.2
	t	36.4	30.7	26.5
Breakout force ISO	kN	444.8	444.8	444.8
	t	45.4	45.4	45.4

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	500	600	750
Weight	kg	84,500	85,200	86,300	89,600	90,400	91,500
Ground pressure	kg/cm²	1.63	1.37	1.11	1.61	1.35	1.09

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	Capacity ISO 7451	Weight	HD-Undercarriage Stick length (m)			LC-V-Undercarriage Stick length (m)		
	mm	m³	kg	2.90	3.80	4.70	2.90	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	△	△	▲	□	△	■
HD-V[3]	1,950	4.20	5,250	○	□	△	○	○	△
	2,150	4.70	5,550	□	□	–	□	□	–
	2,300	5.20	5,850	△	△	–	□	△	–

* 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] HD-V 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

Height (m)	Under-carriage	Radius of load from centerline of machine (m) 3.0	4.5	6.0	7.5	9.0	10.5	12.0
10.5	HD							
	LC-V							
9.0	HD				19.1# (19.1#)			
	LC-V				19.1# (19.1#)			
7.5	HD				19.3# (19.3#)	18.1# (18.1#)		
	LC-V				19.4# (19.4#)	18.4# (18.4#)		
6.0	HD			24.2# (24.2#)	20.5# (20.5#)	18.1 (18.6#)		
	LC-V			24.5# (24.5#)	20.7# (20.7#)	18.6# (18.6#)		
4.5	HD			27.8# (27.8#)	22.3# (22.3#)	17.5 (19.3#)		
	LC-V			28.1# (28.1#)	22.5# (22.5#)	18.4 (19.4#)		
3.0	HD			30.3 (30.9#)	22.0 (24.0#)	16.9 (20.2#)		
	LC-V			31.2# (31.2#)	23.1 (24.2#)	17.8 (20.3#)		
1.5	HD			29.0 (32.5#)	21.1 (25.2#)	16.3 (20.8#)		
	LC-V			30.6 (32.6#)	22.3 (25.2#)	17.3 (20.8#)		
0	HD			28.4 (32.3#)	20.6 (25.4#)	16.0 (20.7#)		
	LC-V			30.0 (32.2#)	21.8 (25.4#)	17.0 (20.7#)		
-1.5	HD		34.4# (34.4#)	28.3 (30.7#)	20.4 (24.4#)	15.9 (19.5#)		
	LC-V		36.1# (36.1#)	30.0 (30.5#)	21.6 (24.3#)	16.9 (19.3#)		
-3.0	HD	36.2# (36.2#)	34.1# (34.1#)	27.5# (27.5#)	20.6 (21.8#)			
	LC-V	38.0# (38.0#)	33.5# (33.5#)	27.0# (27.0#)	21.4# (21.4#)			
-4.5	HD		26.6# (26.6#)	21.5# (21.5#)				
	LC-V		25.7# (25.7#)	20.7# (20.7#)				
-6.0	HD							
	LC-V							
-7.5	HD							
	LC-V							

Stick 3.80 m

Height (m)	Under-carriage	Radius of load from centerline of machine (m) 3.0	4.5	6.0	7.5	9.0	10.5	12.0
10.5	HD				16.3# (16.3#)			
	LC-V				16.9# (16.9#)			
9.0	HD					14.0# (14.0#)		
	LC-V					14.8# (14.8#)		
7.5	HD				17.1# (17.1#)	16.3# (16.3#)		
	LC-V				17.2# (17.2#)	16.3# (16.3#)		
6.0	HD				18.6# (18.6#)	16.9# (16.9#)	13.9# (13.9#)	
	LC-V				18.8# (18.8#)	17.0# (17.0#)	14.4# (14.4#)	
4.5	HD			25.2# (25.2#)	20.6# (20.6#)	17.8 (18.0#)	13.8 (16.4#)	
	LC-V			25.5# (25.5#)	20.8# (20.8#)	18.1# (18.1#)	14.6 (16.4#)	
3.0	HD			28.9# (28.9#)	22.4 (22.7#)	17.0 (19.1#)	13.4 (16.9#)	
	LC-V			29.2# (29.2#)	22.8# (22.8#)	18.0 (19.2#)	14.2 (16.9#)	
1.5	HD			29.5 (31.4#)	21.3 (24.3#)	16.4 (20.1#)	13.0 (17.0)	
	LC-V			31.1 (31.6#)	22.5 (24.4#)	17.3 (20.1#)	13.8 (17.3#)	
0	HD			28.5 (32.4#)	20.6 (25.1#)	15.9 (20.5#)	12.8 (16.7)	
	LC-V			30.1 (32.4#)	21.8 (25.1#)	16.9 (20.5#)	13.6 (17.1#)	
-1.5	HD		31.2# (31.2#)	28.1 (31.7#)	20.2 (24.9#)	15.6 (20.2#)		
	LC-V		32.3# (32.3#)	29.8 (31.6#)	21.4 (24.8#)	16.6 (20.1#)		
-3.0	HD	29.2# (29.2#)	38.3# (38.3#)	28.1 (29.5#)	20.2 (23.3#)	15.7 (18.4#)		
	LC-V	30.3# (30.3#)	37.9# (37.9#)	29.2# (29.2#)	21.4 (23.1#)	16.7 (18.2#)		
-4.5	HD	42.1# (42.1#)	32.3# (32.3#)	25.3# (25.3#)	19.7# (19.7#)			
	LC-V	41.0# (41.0#)	31.6# (31.6#)	24.8# (24.8#)	19.1# (19.1#)			
-6.0	HD			17.2# (17.2#)				
	LC-V							
-7.5	HD							
	LC-V							

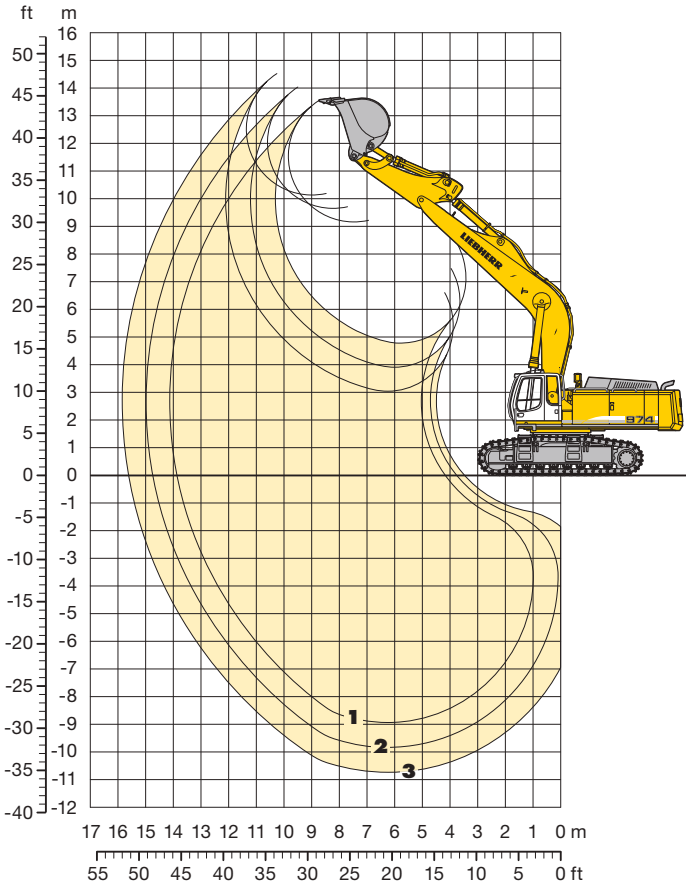
Stick 4.70 m

Height (m)	Under-carriage	Radius of load from centerline of machine (m) 3.0	4.5	6.0	7.5	9.0	10.5	12.0
10.5	HD							
	LC-V							
9.0	HD					14.0# (14.0#)		
	LC-V					11.1# (11.1#)		
7.5	HD					14.4# (14.4#)	12.3# (12.3#)	
	LC-V					14.1# (14.1#)		
6.0	HD					15.2# (15.2#)	14.3 (14.4#)	
	LC-V					14.4# (14.4#)	12.6# (12.6#)	
4.5	HD			22.1# (22.1#)	18.6# (18.6#)	16.4# (16.4#)	13.9 (15.0#)	
	LC-V				16.6# (16.6#)	15.3# (15.3#)	14.5# (14.5#)	
3.0	HD			26.3# (26.3#)	20.9# (20.9#)	17.2 (17.8#)	13.5 (15.8#)	
	LC-V			22.5# (22.5#)	18.8# (18.8#)	16.6# (16.6#)	14.7 (15.1#)	
1.5	HD			29.6# (29.6#)	21.6 (22.9#)	16.5 (19.0#)	13.0 (16.5#)	
	LC-V			26.6# (26.6#)	21.1# (21.1#)	17.9# (17.9#)	14.2 (15.9#)	
0	HD			28.7 (31.5#)	20.6 (24.3#)	15.8 (19.9#)	12.6 (16.6)	
	LC-V			29.9# (29.9#)	22.7 (23.1#)	17.4 (19.1#)	13.8 (16.5#)	
-1.5	HD	16.1# (16.1#)	28.9# (28.9#)	27.9 (31.8#)	20.0 (24.7#)	15.4 (20.1#)	12.4 (16.3)	
	LC-V		23.2# (23.2#)	30.3 (31.6#)	21.8 (24.4#)	16.8 (19.9#)	13.4 (16.8#)	
-3.0	HD	24.4# (24.4#)	38.8# (38.8#)	27.6 (30.7#)	19.8 (24.0#)	15.3 (19.3#)		
	LC-V	16.8# (16.8#)	29.7# (29.7#)	29.5 (31.8#)	21.2 (24.7#)	16.4 (20.0#)	13.2 (16.6#)	
-4.5	HD	35.1# (35.1#)	36.4# (36.4#)	27.8# (27.8#)	19.9 (21.8#)	15.4 (16.9#)		
	LC-V	25.2# (25.2#)	40.0# (40.0#)	29.3 (30.5#)	21.0 (23.9#)	16.2 (19.2#)		
-6.0	HD	39.0# (39.0#)	29.0# (29.0#)	22.4# (22.4#)	16.7# (16.7#)			
	LC-V	36.2# (36.2#)	35.9# (35.9#)	27.4# (27.4#)	21.2 (21.5#)	16.5 (16.5#)		
-7.5	HD							
	LC-V	37.6# (37.6#)	28.1# (28.1#)	21.7# (21.7#)	16.0# (16.0#)			

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Values quoted in brackets apply to the undercarriage when in 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 1,250 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 check valves on the hoist and stick cylinders, 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
Stick length	m	2.90	3.80	4.70
Max. digging depth	m	8.95	9.85	10.75
Max. reach at ground level	m	13.85	14.75	15.60
Max. dump height	m	9.15	9.65	10.15
Max. teeth height	m	13.55	14.05	14.50
Digging force ISO	kN	357.3	301.2	260.2
	t	36.4	30.7	26.5
Breakout force ISO	kN	444.8	444.8	444.8
	t	45.4	45.4	45.4

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	500	600	750
Weight	kg	85,100	85,800	86,900	90,200	91,000	92,100
Ground pressure	kg/cm²	1.64	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	Capacity ISO 7451	Weight	HD-Undercarriage Stick length (m)			LC-V-Undercarriage Stick length (m)		
	mm	m³	kg	2.90	3.80	4.70	2.90	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	■	■	▲	△	△	▲
HD[2]	1,800	3.60	4,400	□	□	■	□	□	△
	1,950	4.10	4,750	△	△	▲	□	△	■
	2,150	4.60	5,050	■	■	▲	△	■	▲

* 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
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 2.90 m

Height (m)	Under-carriage	Radius of load from centerline of machine (m) 3.0	4.5	6.0	7.5	9.0	10.5	12.0
10.5	HD							
	LC-V							
9.0	HD					14.8# (14.8#)		
	LC-V					14.8# (14.8#)		
7.5	HD				16.9# (16.9#)	15.2# (15.2#)	13.8 (14.4#)	
	LC-V				17.1# (17.1#)	15.3# (15.3#)	14.4# (14.4#)	
6.0	HD				18.7# (18.7#)	16.1# (16.1#)	13.6 (14.7#)	
	LC-V				18.9# (18.9#)	16.2# (16.2#)	14.3 (14.7#)	
4.5	HD				20.8# (20.8#)	16.5 (17.2#)	13.1 (15.2#)	
	LC-V				20.9# (20.9#)	17.3# (17.3#)	13.9 (15.3#)	
3.0	HD				20.1 (22.5#)	15.7 (18.3#)	12.6 (15.8#)	
	LC-V				21.2 (22.6#)	16.6 (18.4#)	13.4 (15.8#)	
1.5	HD				19.3 (23.5#)	15.1 (19.0#)	12.2 (16.2)	
	LC-V				20.4 (23.5#)	16.0 (19.1#)	13.0 (16.2#)	
0	HD				18.8 (23.7#)	14.7 (19.3#)	12.0 (15.9)	
	LC-V				20.1 (23.6#)	15.7 (19.3#)	12.8 (16.3#)	
-1.5	HD				18.7 (23.1#)	14.6 (19.0#)	11.9 (15.8)	
	LC-V			28.0 (28.1#)	20.0 (23.0#)	15.6 (19.0#)	12.7 (15.8#)	
-3.0	HD		25.7# (25.7#)	26.3# (26.3#)	18.9 (21.8#)	14.7 (18.0#)		
	LC-V		27.4# (27.4#)	26.1# (26.1#)	20.2 (21.6#)	15.7 (17.8#)		
-4.5	HD		27.3# (27.3#)	23.3# (23.3#)	19.3# (19.3#)	15.2 (15.2#)		
	LC-V		26.9# (26.9#)	22.9# (22.9#)	19.0# (19.0#)	14.8# (14.8#)		
-6.0	HD			18.3# (18.3#)	14.1# (14.1#)			
	LC-V			17.6# (17.6#)	13.2# (13.2#)			
-7.5	HD							
	LC-V							

Stick 3.80 m

Height (m)	Under-carriage	Radius of load from centerline of machine (m) 3.0	4.5	6.0	7.5	9.0	10.5	12.0
10.5	HD					13.2# (13.2#)		
	LC-V					13.2# (13.2#)		
9.0	HD					13.2# (13.2#)	12.9# (12.9#)	
	LC-V					13.2# (13.2#)	12.9# (12.9#)	
7.5	HD					13.8# (13.8#)	13.0# (13.0#)	
	LC-V					13.9# (13.9#)	13.0# (13.0#)	
6.0	HD				17.1# (17.1#)	14.8# (14.8#)	13.5# (13.5#)	10.8 (12.8#)
	LC-V				17.2# (17.2#)	14.9# (14.9#)	13.5# (13.5#)	11.5 (12.8#)
4.5	HD				19.2# (19.2#)	16.1# (16.1#)	13.2 (14.2#)	10.6 (13.0#)
	LC-V				19.4# (19.4#)	16.2# (16.2#)	14.0 (14.3#)	11.2 (13.1#)
3.0	HD				20.6 (21.2#)	15.9 (17.3#)	12.7 (15.0#)	10.3 (13.4#)
	LC-V				21.4# (21.4#)	16.8 (17.4#)	13.4 (15.0#)	10.9 (13.4#)
1.5	HD				19.5 (22.7#)	15.2 (18.3#)	12.2 (15.6#)	10.0 (13.2)
	LC-V				20.7 (22.8#)	16.1 (18.4#)	13.0 (15.6#)	10.7 (13.7#)
0	HD				18.9 (23.3#)	14.7 (18.9#)	11.8 (15.8)	9.8 (13.0)
	LC-V				20.1 (23.4#)	15.6 (19.0#)	12.6 (16.0#)	10.5 (13.8#)
-1.5	HD			25.9 (27.9#)	18.6 (23.3#)	14.4 (19.0#)	11.6 (15.5)	
	LC-V			27.6 (28.9#)	19.8 (23.2#)	15.3 (19.0#)	12.4 (15.9#)	
-3.0	HD		22.9# (22.9#)	26.1 (27.9#)	18.5 (22.5#)	14.3 (18.4#)	11.7 (15.2#)	
	LC-V		24.0# (24.0#)	27.7# (27.7#)	19.8 (22.4#)	15.3 (18.3#)	12.5 (15.1#)	
-4.5	HD	26.3# (26.3#)	31.6# (31.6#)	25.5# (25.5#)	18.8 (20.7#)	14.6 (16.9#)		
	LC-V	27.4# (27.4#)	31.2# (31.2#)	25.2# (25.2#)	20.1 (20.5#)	15.6 (16.7#)		
-6.0	HD		26.4# (26.4#)	21.6# (21.6#)	17.5# (17.5#)			
	LC-V		25.8# (25.8#)	21.2# (21.2#)	17.1# (17.1#)			
-7.5	HD							
	LC-V							

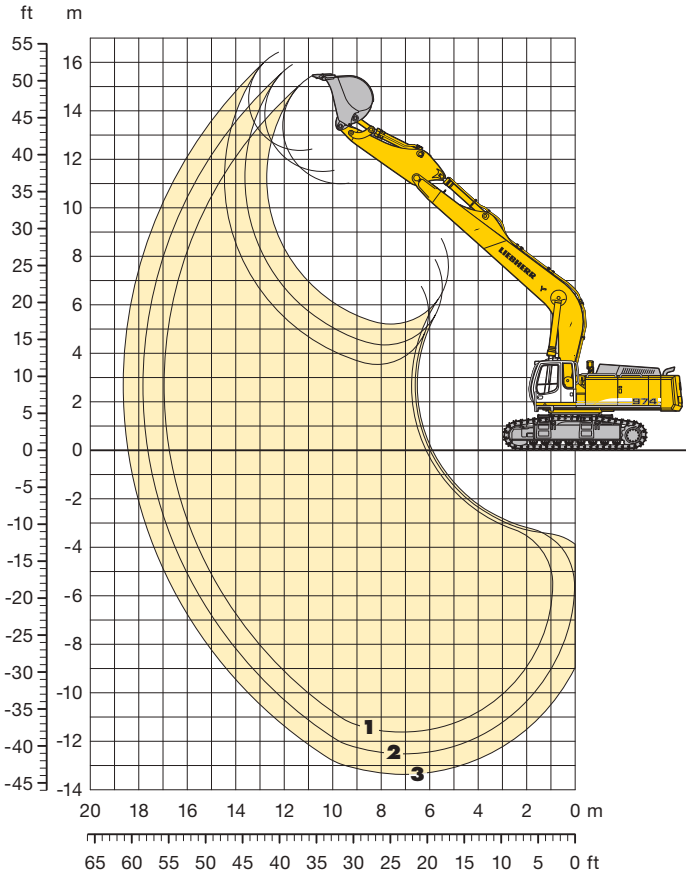
Stick 4.70 m

Height (m)	Under-carriage	Radius of load from centerline of machine (m) 3.0	4.5	6.0	7.5	9.0	10.5	12.0
10.5	HD						11.5# (11.5#)	
	LC-V						11.5# (11.5#)	
9.0	HD						11.3# (11.3#)	
	LC-V						11.3# (11.3#)	
7.5	HD						11.6# (11.6#)	11.2 (11.3#)
	LC-V					12.4# (12.4#)	11.7# (11.7#)	11.3# (11.3#)
6.0	HD					13.4# (13.4#)	12.3# (12.3#)	11.0 (11.5#)
	LC-V				15.4# (15.4#)	13.5# (13.5#)	12.3# (12.3#)	11.6# (11.6#)
4.5	HD				17.4# (17.4#)	14.7# (14.7#)	13.1# (13.1#)	10.6 (12.0#)
	LC-V				17.6# (17.6#)	14.9# (14.9#)	13.2# (13.2#)	11.3 (12.0#)
3.0	HD				19.6# (19.6#)	16.1 (16.1#)	12.7 (14.0#)	10.2 (12.5#)
	LC-V				19.8# (19.8#)	16.3# (16.3#)	13.5 (14.0#)	10.9 (12.6#)
1.5	HD				19.7 (21.4#)	15.2 (17.3#)	12.1 (14.7#)	9.9 (13.0#)
	LC-V				20.9 (21.6#)	16.1 (17.4#)	12.9 (14.8#)	10.5 (13.0#)
0	HD				18.8 (22.5#)	14.6 (18.2#)	11.7 (15.3#)	9.6 (12.8)
	LC-V				20.0 (22.6#)	15.5 (18.3#)	12.5 (15.4#)	10.2 (13.3#)
-1.5	HD			25.5 (27.1#)	18.3 (23.0#)	14.1 (18.6#)	11.4 (15.3)	9.4 (12.6)
	LC-V			27.2 (27.7#)	19.5 (23.0#)	15.1 (18.6#)	12.2 (15.6#)	10.1 (13.3#)
-3.0	HD		20.4# (20.4#)	25.5 (28.7#)	18.1 (22.6#)	14.0 (18.4#)	11.2 (15.2)	9.4 (12.6)
	LC-V		21.1# (21.1#)	27.2 (28.6#)	19.4 (22.6#)	14.9 (18.4#)	12.1 (15.3#)	10.1 (12.6#)
-4.5	HD	21.6# (21.6#)	29.9# (29.9#)	25.7 (26.9#)	18.2 (21.5#)	14.0 (17.5#)	11.4 (14.3#)	
	LC-V	22.4# (22.4#)	30.9# (30.9#)	26.7# (26.7#)	19.5 (21.3#)	15.0 (17.4#)	12.2 (14.2#)	
-6.0	HD	31.4# (31.4#)	30.4# (30.4#)	23.9# (23.9#)	18.6 (19.3#)	14.4 (15.4#)		
	LC-V	32.5# (32.5#)	29.9# (29.9#)	23.6# (23.6#)	19.0# (19.0#)	15.2# (15.2#)		
-7.5	HD		23.9# (23.9#)	19.1# (19.1#)	15.0# (15.0#)			
	LC-V		23.1# (23.1#)	18.5# (18.5#)	14.4# (14.4#)			

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Values quoted in brackets apply to the undercarriage when in 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 1,250 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 check valves on the hoist and stick cylinders, when they are used for lifting operations which require the use of lifting accessories.

Backhoe Bucket

with Mono Boom 10.50 m and Heavy Counterweight



Digging Envelope

		1	2	3
Stick length	m	3.80	4.70	5.80
Max. digging depth	m	11.60	12.50	13.35
Max. reach at ground level	m	16.75	17.60	18.45
Max. dump height	m	11.00	11.50	12.35
Max. teeth height	m	15.45	15.90	16.40
Digging force ISO	kN	301.2	260.2	228.1
	t	30.7	26.5	23.2
Breakout force ISO	kN	444.8	444.8	356.0
	t	45.3	45.3	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	500	600	750
Weight	kg	87,700	88,500	89,600	92,800	93,600	94,700
Ground pressure	kg/cm²	1.69	1.42	1.15	1.67	1.40	1.13

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

	Cutting width	Capacity ISO 7451	Weight	HD-Undercarriage Stick length (m)			LC-V-Undercarriage Stick length (m)		
	mm	m³	kg	2.90	3.80	4.70	2.90	3.80	4.70
STD[1]	1,250	2.20	3,200	□	□	▲	○	□	▲
	1,400	2.70	3,450	△	△	▲	□	△	▲
	1,600	3.20	3,750	■	■	▲	△	■	▲
STD[2]	1,350	2.00	2,750	▲	▲	□	▲	▲	□
	1,550	2.50	2,950	▲	▲	△	▲	▲	△
HD[3]	1,600	2.00	3,500	▲	▲	△	▲	▲	△

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

[1] Standard bucket with Liebherr teeth Z 90

[2] Standard bucket from R 964 C Litronic® with Liebherr teeth Z 70

[3] HD 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 10.50 m and Heavy Counterweight

Stick 3.80 m

Height (m)	Under-carriage	Radius of load from centerline of machine (m) 3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5
13.5	HD										
	LC-V										
12.0	HD						9.8# (9.8#)				
	LC-V						9.8# (9.8#)				
10.5	HD						9.7# (9.7#)	9.6# (9.6#)			
	LC-V						9.7# (9.7#)	9.6# (9.6#)			
9.0	HD						10.0# (10.0#)	9.5# (9.5#)			
	LC-V						10.0# (10.0#)	9.5# (9.5#)			
7.5	HD					11.9# (11.9#)	10.6# (10.6#)	9.8# (9.8#)	9.2 (9.4#)		
	LC-V					12.0# (12.0#)	10.6# (10.6#)	9.8# (9.8#)	9.4# (9.4#)		
6.0	HD					13.1# (13.1#)	11.3# (11.3#)	10.2# (10.2#)	9.0 (9.6#)		
	LC-V					13.2# (13.2#)	11.4# (11.4#)	10.3# (10.3#)	9.5 (9.6#)		
4.5	HD					14.4# (14.4#)	12.2# (12.2#)	10.5 (10.8#)	8.7 (9.8#)		
	LC-V					14.5# (14.5#)	12.2# (12.2#)	10.8# (10.8#)	9.3 (9.9#)		
3.0	HD						12.2 (13.0#)	10.1 (11.3#)	8.4 (10.2#)		
	LC-V						12.9 (13.0#)	10.7 (11.3#)	9.0 (10.2#)		
1.5	HD						11.6 (13.6#)	9.7 (11.7#)	8.1 (10.5#)		
	LC-V						12.4 (13.7#)	10.3 (11.8#)	8.7 (10.5#)		
0	HD					13.8 (16.9#)	11.2 (14.0#)	9.4 (12.1#)	7.9 (10.6#)		
	LC-V					14.8 (16.9#)	12.0 (14.1#)	10.0 (12.1#)	8.5 (10.6#)		
- 1.5	HD					13.6 (17.0#)	11.0 (14.2#)	9.2 (12.2#)	7.9 (10.6#)		
	LC-V					14.6 (17.0#)	11.8 (14.2#)	9.9 (12.2#)	8.5 (10.6#)		
- 3.0	HD				17.8 (20.1#)	13.6 (16.7#)	11.0 (14.1#)	9.2 (12.1#)			
	LC-V				19.1 (20.1#)	14.6 (16.7#)	11.8 (14.1#)	9.9 (12.0#)			
- 4.5	HD			22.8# (22.8#)	18.1 (19.2#)	13.8 (16.1#)	11.1 (13.6#)	9.3 (11.4#)			
	LC-V			22.7# (22.7#)	19.1# (19.1#)	14.8 (16.0#)	11.9 (13.5#)	10.1 (11.3#)			
- 6.0	HD		24.6# (24.6#)	21.0# (21.0#)	17.7# (17.7#)	14.1 (14.9#)	11.5 (12.4#)				
	LC-V		24.4# (24.4#)	20.8# (20.8#)	17.5# (17.5#)	14.7# (14.7#)	12.3# (12.3#)				
- 7.5	HD		21.2# (21.2#)	18.2# (18.2#)	15.4# (15.4#)	12.8# (12.8#)					
	LC-V		20.8# (20.8#)	17.8# (17.8#)	15.1# (15.1#)	12.5# (12.5#)					
- 9.0	HD			13.7# (13.7#)	11.2# (11.2#)						
	LC-V				10.6# (10.6#)						
-10.5	HD										
	LC-V										

Stick 4.70 m

Height (m)	Under-carriage	Radius of load from centerline of machine (m) 3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5
13.5	HD										
	LC-V										
12.0	HD							8.6# (8.6#)			
	LC-V							8.5# (8.5#)			
10.5	HD							8.3# (8.3#)			
	LC-V							8.3# (8.3#)			
9.0	HD							8.5# (8.5#)	8.3# (8.3#)		
	LC-V							8.5# (8.5#)	8.3# (8.3#)		
7.5	HD						9.5# (9.5#)	8.8# (8.8#)	8.4# (8.4#)		
	LC-V						9.6# (9.6#)	8.9# (8.9#)	8.4# (8.4#)		
6.0	HD					11.9# (11.9#)	10.3# (10.3#)	9.3# (9.3#)	8.7# (8.7#)	7.2 (8.4#)	
	LC-V					12.0# (12.0#)	10.4# (10.4#)	9.4# (9.4#)	8.7# (8.7#)	7.7 (8.4#)	
4.5	HD					13.2# (13.2#)	11.2# (11.2#)	9.9# (9.9#)	8.6 (9.0#)	7.0 (8.5#)	
	LC-V					13.3# (13.3#)	11.3# (11.3#)	10.0# (10.0#)	9.1# (9.1#)	7.6 (8.5#)	
3.0	HD					14.5# (14.5#)	12.1# (12.1#)	10.0 (10.5#)	8.3 (9.4#)	6.9 (8.7#)	
	LC-V					14.6# (14.6#)	12.1# (12.1#)	10.5# (10.5#)	8.8 (9.5#)	7.4 (8.7#)	
1.5	HD					14.3 (15.5#)	11.6 (12.8#)	9.5 (11.0#)	8.0 (9.8#)	6.7 (8.9#)	
	LC-V					15.2 (15.6#)	12.3 (12.9#)	10.2 (11.1#)	8.5 (9.8#)	7.2 (8.9#)	
0	HD					13.7 (16.2#)	11.1 (13.4#)	9.2 (11.5#)	7.7 (10.1#)	6.5 (9.0)	
	LC-V					14.6 (16.2#)	11.9 (13.4#)	9.8 (11.5#)	8.3 (10.1#)	7.1 (9.0#)	
- 1.5	HD					13.3 (16.5#)	10.8 (13.7#)	8.9 (11.7#)	7.5 (10.2#)		
	LC-V					14.3 (16.5#)	11.6 (13.7#)	9.6 (11.7#)	8.1 (10.2#)		
- 3.0	HD				17.2 (20.2#)	13.2 (16.5#)	10.6 (13.8#)	8.8 (11.8#)	7.5 (10.1#)		
	LC-V				18.5 (20.1#)	14.2 (16.5#)	11.4 (13.8#)	9.5 (11.7#)	8.1 (10.1#)		
- 4.5	HD			21.1# (21.1#)	17.4 (19.5#)	13.3 (16.1#)	10.6 (13.5#)	8.8 (11.5#)	7.6 (9.6#)		
	LC-V			21.9# (21.9#)	18.7 (19.4#)	14.3 (16.0#)	11.5 (13.5#)	9.5 (11.4#)	8.3 (9.5#)		
- 6.0	HD	17.4# (17.4#)	21.9# (21.9#)	22.3# (22.3#)	17.8 (18.3#)	13.5 (15.3#)	10.8 (12.8#)	9.1 (10.6#)			
	LC-V	18.1# (18.1#)	22.7# (22.7#)	22.2# (22.2#)	18.2# (18.2#)	14.5 (15.2#)	11.7 (12.7#)	9.8 (10.5#)			
- 7.5	HD	25.7# (25.7#)	24.5# (24.5#)	20.0# (20.0#)	16.6# (16.6#)	13.8# (13.8#)	11.3# (11.3#)				
	LC-V	26.6# (26.6#)	24.1# (24.1#)	19.7# (19.7#)	16.3# (16.3#)	13.6# (13.6#)	11.1# (11.1#)				
- 9.0	HD		19.9# (19.9#)	16.5# (16.5#)	13.6# (13.6#)	10.9# (10.9#)					
	LC-V		19.3# (19.3#)	16.1# (16.1#)	13.3# (13.3#)	10.5# (10.5#)					
-10.5	HD										
	LC-V										

Stick 5.80 m

Height (m)	Under-carriage	Radius of load from centerline of machine (m) 3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5
13.5	HD							7.9# (7.9#)			
	LC-V							7.8# (7.8#)			
12.0	HD								7.8# (7.8#)		
	LC-V								7.8# (7.8#)		
10.5	HD								7.5# (7.5#)		
	LC-V								7.5# (7.5#)		
9.0	HD							7.7# (7.7#)	7.5# (7.5#)	7.6# (7.6#)	
	LC-V							7.8# (7.8#)	7.6# (7.6#)	7.6# (7.6#)	
7.5	HD							8.2# (8.2#)	7.8# (7.8#)	7.6# (7.6#)	
	LC-V							8.2# (8.2#)	7.8# (7.8#)	7.6# (7.6#)	
6.0	HD						9.6# (9.6#)	8.8# (8.8#)	8.2# (8.2#)	7.7 (7.8#)	
	LC-V					11.0# (11.0#)	9.7# (9.7#)	8.8# (8.8#)	8.2# (8.2#)	7.8# (7.8#)	
4.5	HD					12.3# (12.3#)	10.6# (10.6#)	9.4# (9.4#)	8.6# (8.6#)	7.5 (8.1#)	
	LC-V					12.5# (12.5#)	10.7# (10.7#)	9.5# (9.5#)	8.6# (8.6#)	8.0 (8.1#)	
3.0	HD					13.7# (13.7#)	11.5# (11.5#)	10.1# (10.1#)	8.7 (9.1#)	7.2 (8.4#)	5.9 (7.8#)
	LC-V					13.9# (13.9#)	11.6# (11.6#)	10.1# (10.1#)	9.1# (9.1#)	7.7 (8.4#)	6.4 (7.8#)
1.5	HD					15.0# (15.0#)	12.2 (12.4#)	10.0 (10.7#)	8.3 (9.5#)	7.0 (8.7#)	
	LC-V					15.1# (15.1#)	12.5# (12.5#)	10.7 (10.8#)	8.9 (9.6#)	7.5 (8.7#)	
0	HD					14.3 (15.9#)	11.6 (13.1#)	9.6 (11.3#)	8.0 (9.9#)	6.7 (8.9#)	
	LC-V					15.2 (16.0#)	12.3 (13.2#)	10.2 (11.3#)	8.6 (10.0#)	7.3 (8.9#)	
- 1.5	HD					13.8 (16.5#)	11.1 (13.7#)	9.2 (11.7#)	7.7 (10.2#)	6.6 (9.0)	
	LC-V					14.7 (16.5#)	11.9 (13.7#)	9.9 (11.7#)	8.3 (10.2#)	7.1 (9.1#)	
- 3.0	HD				17.5 (20.7#)	13.5 (16.7#)	10.9 (13.9#)	9.0 (11.9#)	7.6 (10.3#)	6.5 (9.0)	
	LC-V				18.7 (20.7#)	14.4 (16.7#)	11.7 (13.9#)	9.7 (11.9#)	8.2 (10.3#)	7.1 (9.0#)	
- 4.5	HD			18.5# (18.5#)	17.5 (20.4#)	13.4 (16.6#)	10.8 (13.9#)	8.9 (11.9#)	7.6 (10.2#)		
	LC-V		12.8# (12.8#)	19.0# (19.0#)	18.7 (20.3#)	14.4 (16.6#)	11.6 (13.9#)	9.6 (11.8#)	8.2 (10.2#)		
- 6.0	HD	14.3# (14.3#)	18.0# (18.0#)	24.4# (24.4#)	17.7 (19.6#)	13.5 (16.2#)	10.8 (13.5#)	9.0 (11.5#)	7.7 (9.6#)		
	LC-V	14.8# (14.8#)	18.6# (18.6#)	24.3# (24.3#)	19.0 (19.5#)	14.5 (16.1#)	11.6 (13.5#)	9.7 (11.4#)	8.4 (9.5#)		
- 7.5	HD	20.2# (20.2#)	25.2# (25.2#)	22.6# (22.6#)	18.1 (18.3#)	13.8 (15.2#)	11.1 (12.7#)	9.3 (10.5#)			
	LC-V	20.8# (20.8#)	26.0# (26.0#)	22.4# (22.4#)	18.2# (18.2#)	14.8 (15.0#)	11.9 (12.5#)	10.0 (10.3#)			
- 9.0	HD	27.8# (27.8#)	25.0# (25.0#)	19.8# (19.8#)	16.2# (16.2#)	13.4# (13.4#)	10.8# (10.8#)				
	LC-V	28.7# (28.7#)	24.5# (24.5#)	19.5# (19.5#)	16.0# (16.0#)	13.2# (13.2#)	10.6# (10.6#)				
-10.5	HD		19.4# (19.4#)	15.7# (15.7#)	12.8# (12.8#)	9.9# (9.9#)					
	LC-V			15.2# (15.2#)	12.3# (12.3#)	9.3# (9.3#)					

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Values quoted in brackets apply to the undercarriage in 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 1,250 kg/1,100 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 check valves on the hoist and stick cylinders, when they are used for lifting operations which require the use of lifting accessories.

* just for stick 5.80 m

Lift Capacities

with Mono Boom 7.20 m and Heavy Counterweight

Stick 2.90 m

Height (m)	Under-carriage	Radius of load from centerline of machine (m) 3.0	4.5	6.0	7.5	9.0	10.5	12.0
10.5	HD							
	LC-V							
9.0	HD				19.1# (19.1#)			
	LC-V				19.1# (19.1#)			
7.5	HD				19.3# (19.3#)	18.1# (18.1#)		
	LC-V				19.4# (19.4#)	18.4# (18.4#)		
6.0	HD			24.2# (24.2#)	20.5# (20.5#)	18.6# (18.6#)		
	LC-V			24.5# (24.5#)	20.7# (20.7#)	18.6# (18.6#)		
4.5	HD			27.8# (27.8#)	22.3# (22.3#)	18.7 (19.3#)		
	LC-V			28.1# (28.1#)	22.5# (22.5#)	19.4# (19.4#)		
3.0	HD			30.9# (30.9#)	23.5 (24.0#)	18.0 (20.2#)		
	LC-V			31.2# (31.2#)	24.2# (24.2#)	19.0 (20.3#)		
1.5	HD			31.0 (32.5#)	22.6 (25.2#)	17.5 (20.8#)		
	LC-V			32.6# (32.6#)	23.8 (25.2#)	18.5 (20.8#)		
0	HD			30.4 (32.3#)	22.1 (25.4#)	17.2 (20.7#)		
	LC-V			32.1 (32.2#)	23.3 (25.4#)	18.1 (20.7#)		
-1.5	HD		34.4# (34.4#)	30.3 (30.7#)	21.9 (24.4#)	17.1 (19.5#)		
	LC-V		36.1# (36.1#)	30.5# (30.5#)	23.1 (24.3#)	18.1 (19.3#)		
-3.0	HD	36.2# (36.2#)	34.1# (34.1#)	27.5# (27.5#)	21.8# (21.8#)			
	LC-V	38.0# (38.0#)	33.5# (33.5#)	27.0# (27.0#)	21.4# (21.4#)			
-4.5	HD		26.6# (26.6#)	21.5# (21.5#)				
	LC-V		25.7# (25.7#)	20.7# (20.7#)				
-6.0	HD							
	LC-V							
-7.5	HD							
	LC-V							

Stick 3.80 m

Height (m)	Under-carriage	Radius of load from centerline of machine (m) 3.0	4.5	6.0	7.5	9.0	10.5	12.0
10.5	HD				16.3# (16.3#)			
	LC-V				16.9# (16.9#)			
9.0	HD					14.0# (14.0#)		
	LC-V					14.8# (14.8#)		
7.5	HD				17.1# (17.1#)	16.3# (16.3#)		
	LC-V				17.2# (17.2#)	16.3# (16.3#)		
6.0	HD				18.6# (18.6#)	16.9# (16.9#)	13.9# (13.9#)	
	LC-V				18.8# (18.8#)	17.0# (17.0#)	14.4# (14.4#)	
4.5	HD			25.2# (25.2#)	20.6# (20.6#)	18.0# (18.0#)	14.8 (16.4#)	
	LC-V			25.5# (25.5#)	20.8# (20.8#)	18.1# (18.1#)	15.5 (16.4#)	
3.0	HD			28.9# (28.9#)	22.7# (22.7#)	18.2 (19.1#)	14.4 (16.9#)	
	LC-V			29.2# (29.2#)	22.8# (22.8#)	19.1 (19.2#)	15.2 (16.9#)	
1.5	HD			31.4# (31.4#)	22.8 (24.3#)	17.6 (20.1#)	14.0 (17.2#)	
	LC-V			31.6# (31.6#)	24.0 (24.4#)	18.5 (20.1#)	14.8 (17.3#)	
0	HD			30.5 (32.4#)	22.1 (25.1#)	17.1 (20.5#)	13.8 (17.2#)	
	LC-V			32.2 (32.4#)	23.3 (25.1#)	18.0 (20.5#)	14.6 (17.1#)	
-1.5	HD		31.2# (31.2#)	30.1 (31.7#)	21.7 (24.9#)	16.8 (20.2#)		
	LC-V		32.3# (32.3#)	31.6# (31.6#)	22.9 (24.8#)	17.8 (20.1#)		
-3.0	HD	29.2# (29.2#)	38.3# (38.3#)	29.5# (29.5#)	21.7 (23.3#)	16.9 (18.4#)		
	LC-V	30.3# (30.3#)	37.9# (37.9#)	29.2# (29.2#)	22.9 (23.1#)	17.9 (18.2#)		
-4.5	HD	42.1# (42.1#)	32.3# (32.3#)	25.3# (25.3#)	19.7# (19.7#)			
	LC-V	41.0# (41.0#)	31.6# (31.6#)	24.8# (24.8#)	19.1# (19.1#)			
-6.0	HD			17.2# (17.2#)				
	LC-V							
-7.5	HD							
	LC-V							

Stick 4.70 m

Height (m)	Under-carriage	Radius of load from centerline of machine (m) 3.0	4.5	6.0	7.5	9.0	10.5	12.0
10.5	HD							
	LC-V							
9.0	HD					14.0# (14.0#)		
	LC-V					11.1# (11.1#)		
7.5	HD					14.4# (14.4#)	12.3# (12.3#)	
	LC-V					14.1# (14.1#)		
6.0	HD					15.2# (15.2#)	14.4# (14.4#)	
	LC-V					14.4# (14.4#)	12.6# (12.6#)	
4.5	HD			22.1# (22.1#)	18.6# (18.6#)	16.4# (16.4#)	14.9 (15.0#)	
	LC-V				16.6# (16.6#)	15.3# (15.3#)	14.5# (14.5#)	
3.0	HD			26.3# (26.3#)	20.9# (20.9#)	17.8# (17.8#)	14.4 (15.8#)	
	LC-V			22.5# (22.5#)	18.8# (18.8#)	16.6# (16.6#)	15.1# (15.1#)	
1.5	HD			29.6# (29.6#)	22.9# (22.9#)	17.6 (19.0#)	14.0 (16.5#)	
	LC-V			26.6# (26.6#)	21.1# (21.1#)	17.9# (17.9#)	15.2 (15.9#)	
0	HD			30.7 (31.5#)	22.1 (24.3#)	17.0 (19.9#)	13.6 (16.8#)	
	LC-V			29.9# (29.9#)	23.1# (23.1#)	18.5 (19.1#)	14.7 (16.5#)	
-1.5	HD	16.1# (16.1#)	28.9# (28.9#)	29.9 (31.8#)	21.5 (24.7#)	16.6 (20.1#)	13.3 (16.6#)	
	LC-V		23.2# (23.2#)	31.6# (31.6#)	23.3 (24.4#)	17.9 (19.9#)	14.4 (16.8#)	
-3.0	HD	24.4# (24.4#)	38.8# (38.8#)	29.7 (30.7#)	21.3 (24.0#)	16.4 (19.3#)		
	LC-V	16.8# (16.8#)	29.7# (29.7#)	31.6 (31.8#)	22.7 (24.7#)	17.5 (20.0#)	14.2 (16.6#)	
-4.5	HD	35.1# (35.1#)	36.4# (36.4#)	27.8# (27.8#)	21.4 (21.8#)	16.6 (16.9#)		
	LC-V	25.2# (25.2#)	40.0# (40.0#)	30.5# (30.5#)	22.5 (23.9#)	17.4 (19.2#)		
-6.0	HD	39.0# (39.0#)	29.0# (29.0#)	22.4# (22.4#)	16.7# (16.7#)			
	LC-V	36.2# (36.2#)	35.9# (35.9#)	27.4# (27.4#)	21.5# (21.5#)	16.5# (16.5#)		
-7.5	HD							
	LC-V	37.6# (37.6#)	28.1# (28.1#)	21.7# (21.7#)	16.0# (16.0#)			

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Values quoted in brackets apply to the undercarriage when in 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 1,250 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 check valves on the hoist and stick cylinders, 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 2.90 m

Height (m)	Under-carriage	Radius of load from centerline of machine (m) 3.0	4.5	6.0	7.5	9.0	10.5	12.0
10.5	HD							
	LC-V							
9.0	HD					14.8# (14.8#)		
	LC-V					14.8# (14.8#)		
7.5	HD				16.9# (16.9#)	15.2# (15.2#)	14.4# (14.4#)	
	LC-V				17.1# (17.1#)	15.3# (15.3#)	14.4# (14.4#)	
6.0	HD				18.7# (18.7#)	16.1# (16.1#)	14.5 (14.7#)	
	LC-V				18.9# (18.9#)	16.2# (16.2#)	14.7# (14.7#)	
4.5	HD				20.8# (20.8#)	17.2# (17.2#)	14.1 (15.2#)	
	LC-V				20.9# (20.9#)	17.3# (17.3#)	14.8 (15.3#)	
3.0	HD				21.6 (22.5#)	16.9 (18.3#)	13.6 (15.8#)	
	LC-V				22.6# (22.6#)	17.8 (18.4#)	14.4 (15.8#)	
1.5	HD				20.7 (23.5#)	16.3 (19.0#)	13.2 (16.2#)	
	LC-V				21.9 (23.5#)	17.2 (19.1#)	14.0 (16.2#)	
0	HD				20.3 (23.7#)	15.9 (19.3#)	12.9 (16.3#)	
	LC-V				21.6 (23.6#)	16.8 (19.3#)	13.7 (16.3#)	
-1.5	HD				20.2 (23.1#)	15.7 (19.0#)	12.9 (15.9#)	
	LC-V			28.1# (28.1#)	21.5 (23.0#)	16.7 (19.0#)	13.7 (15.8#)	
-3.0	HD		25.7# (25.7#)	26.3# (26.3#)	20.4 (21.8#)	15.9 (18.0#)		
	LC-V		27.4# (27.4#)	26.1# (26.1#)	21.6# (21.6#)	16.9 (17.8#)		
-4.5	HD		27.3# (27.3#)	23.3# (23.3#)	19.3# (19.3#)	15.2# (15.2#)		
	LC-V		26.9# (26.9#)	22.9# (22.9#)	19.0# (19.0#)	14.8# (14.8#)		
-6.0	HD			18.3# (18.3#)	14.1# (14.1#)			
	LC-V			17.6# (17.6#)	13.2# (13.2#)			
-7.5	HD							
	LC-V							

Stick 3.80 m

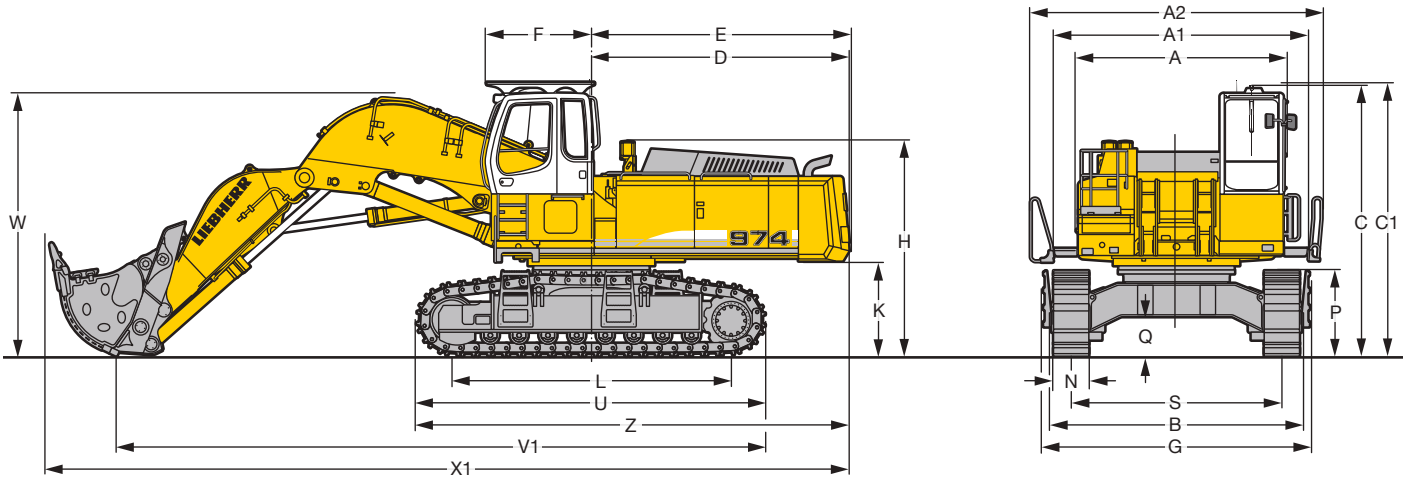
Height (m)	Under-carriage	Radius of load from centerline of machine (m) 3.0	4.5	6.0	7.5	9.0	10.5	12.0
10.5	HD					13.2# (13.2#)		
	LC-V					13.2# (13.2#)		
9.0	HD					13.2# (13.2#)	12.9# (12.9#)	
	LC-V					13.2# (13.2#)	12.9# (12.9#)	
7.5	HD					13.8# (13.8#)	13.0# (13.0#)	
	LC-V					13.9# (13.9#)	13.0# (13.0#)	
6.0	HD				17.1# (17.1#)	14.8# (14.8#)	13.5# (13.5#)	11.6 (12.8#)
	LC-V				17.2# (17.2#)	14.9# (14.9#)	13.5# (13.5#)	12.3 (12.8#)
4.5	HD				19.2# (19.2#)	16.1# (16.1#)	14.2 (14.2#)	11.4 (13.0#)
	LC-V				19.4# (19.4#)	16.2# (16.2#)	14.3# (14.3#)	12.1 (13.1#)
3.0	HD				21.2# (21.2#)	17.1 (17.3#)	13.6 (15.0#)	11.1 (13.4#)
	LC-V				21.4# (21.4#)	17.4# (17.4#)	14.4 (15.0#)	11.8 (13.4#)
1.5	HD				21.0 (22.7#)	16.3 (18.3#)	13.2 (15.6#)	10.8 (13.7#)
	LC-V				22.2 (22.8#)	17.3 (18.4#)	13.9 (15.6#)	11.5 (13.7#)
0	HD				20.3 (23.3#)	15.8 (18.9#)	12.8 (16.0#)	10.6 (13.8#)
	LC-V				21.5 (23.4#)	16.8 (19.0#)	13.6 (16.0#)	11.3 (13.8#)
-1.5	HD			27.9# (27.9#)	20.0 (23.3#)	15.5 (19.0#)	12.6 (15.9#)	
	LC-V			28.9# (28.9#)	21.3 (23.2#)	16.5 (19.0#)	13.4 (15.9#)	
-3.0	HD		22.9# (22.9#)	27.9# (27.9#)	20.0 (22.5#)	15.5 (18.4#)	12.6 (15.2#)	
	LC-V		24.0# (24.0#)	27.7# (27.7#)	21.3 (22.4#)	16.5 (18.3#)	13.5 (15.1#)	
-4.5	HD	26.3# (26.3#)	31.6# (31.6#)	25.5# (25.5#)	20.3 (20.7#)	15.7 (16.9#)		
	LC-V	27.4# (27.4#)	31.2# (31.2#)	25.2# (25.2#)	20.5# (20.5#)	16.7# (16.7#)		
-6.0	HD		26.4# (26.4#)	21.6# (21.6#)	17.5# (17.5#)			
	LC-V		25.8# (25.8#)	21.2# (21.2#)	17.1# (17.1#)			
-7.5	HD							
	LC-V							

Stick 4.70 m

Height (m)	Under-carriage	Radius of load from centerline of machine (m) 3.0	4.5	6.0	7.5	9.0	10.5	12.0
10.5	HD						11.5# (11.5#)	
	LC-V						11.5# (11.5#)	
9.0	HD						11.3# (11.3#)	
	LC-V						11.3# (11.3#)	
7.5	HD						11.6# (11.6#)	11.3# (11.3#)
	LC-V					12.4# (12.4#)	11.7# (11.7#)	11.3# (11.3#)
6.0	HD					13.4# (13.4#)	12.3# (12.3#)	11.5# (11.5#)
	LC-V				15.4# (15.4#)	13.5# (13.5#)	12.3# (12.3#)	11.6# (11.6#)
4.5	HD				17.4# (17.4#)	14.7# (14.7#)	13.1# (13.1#)	11.4 (12.0#)
	LC-V				17.6# (17.6#)	14.9# (14.9#)	13.2# (13.2#)	12.0# (12.0#)
3.0	HD				19.6# (19.6#)	16.1# (16.1#)	13.7 (14.0#)	11.1 (12.5#)
	LC-V				19.8# (19.8#)	16.3# (16.3#)	14.0# (14.0#)	11.7 (12.6#)
1.5	HD				21.2 (21.4#)	16.4 (17.3#)	13.1 (14.7#)	10.7 (13.0#)
	LC-V				21.6# (21.6#)	17.3 (17.4#)	13.9 (14.8#)	11.4 (13.0#)
0	HD				20.3 (22.5#)	15.7 (18.2#)	12.6 (15.3#)	10.4 (13.3#)
	LC-V				21.5 (22.6#)	16.7 (18.3#)	13.4 (15.4#)	11.1 (13.3#)
-1.5	HD			27.1# (27.1#)	19.8 (23.0#)	15.3 (18.6#)	12.3 (15.6#)	10.2 (13.3#)
	LC-V			27.7# (27.7#)	21.0 (23.0#)	16.3 (18.6#)	13.1 (15.6#)	10.9 (13.3#)
-3.0	HD		20.4# (20.4#)	27.5 (28.7#)	19.6 (22.6#)	15.1 (18.4#)	12.2 (15.3#)	10.2 (12.7#)
	LC-V		21.1# (21.1#)	28.6# (28.6#)	20.9 (22.6#)	16.1 (18.4#)	13.0 (15.3#)	10.9 (12.6#)
-4.5	HD	21.6# (21.6#)	29.9# (29.9#)	26.9# (26.9#)	19.7 (21.5#)	15.2 (17.5#)	12.3 (14.3#)	
	LC-V	22.4# (22.4#)	30.9# (30.9#)	26.7# (26.7#)	21.0 (21.3#)	16.2 (17.4#)	13.2 (14.2#)	
-6.0	HD	31.4# (31.4#)	30.4# (30.4#)	23.9# (23.9#)	19.3# (19.3#)	15.4# (15.4#)		
	LC-V	32.5# (32.5#)	29.9# (29.9#)	23.6# (23.6#)	19.0# (19.0#)	15.2# (15.2#)		
-7.5	HD		23.9# (23.9#)	19.1# (19.1#)	15.0# (15.0#)			
	LC-V		23.1# (23.1#)	18.5# (18.5#)	14.4# (14.4#)			

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Values quoted in brackets apply to the undercarriage when in 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 1,250 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 check valves on the hoist and stick cylinders, when they are used for lifting operations which require the use of lifting accessories.

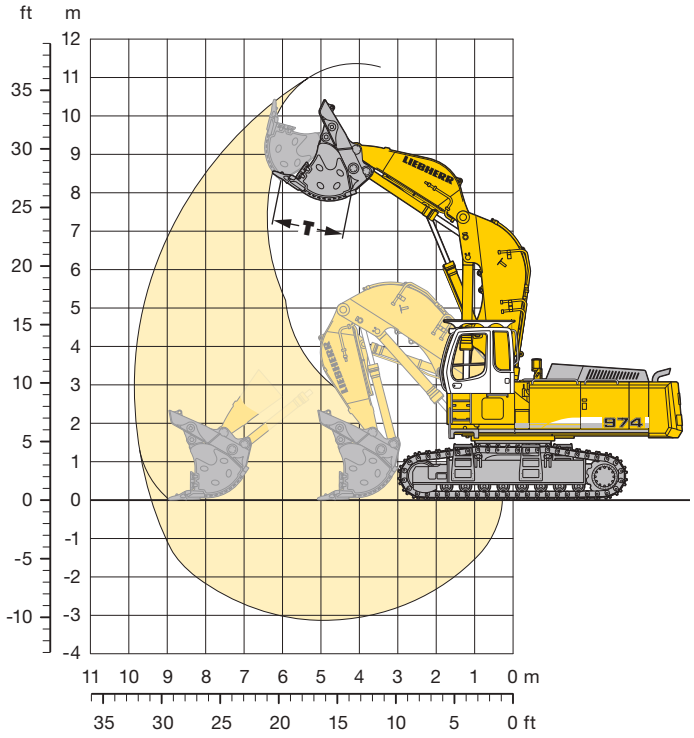
Dimensions Front Shovel



	HD	mm
A		3,605
A1		4,365
A2		5,000
C		4,625
C1		4,670
D		4,400
E		4,440
F		1,800
H		3,665
K		1,625
L		4,770

	HD		mm
P			1,460
Q			682
S			3,600
U			5,953
N	500	600	750
B	4,290	4,290	4,350
G	4,540	4,540	4,540
Z			7,377
V1			11,100
W1			4,500
X1			13,750

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	630 kN/64.2 t
Max. crowd force at ground level	450 kN/45.9 t
Max. breakout force	460 kN/46.9 t

Operating Weight and Ground Pressure

Operating weight includes basic machine with cab elevation 0.8 m, rock protection, shovel attachment and front shovel 5.10 m³ (9,090 kg), level II.

Undercarriage		HD		
Pad width	mm	500	600	750
Weight	kg	90,200	90,900	92,000
Ground pressure	kg/cm²	1.74	1.46	1.18

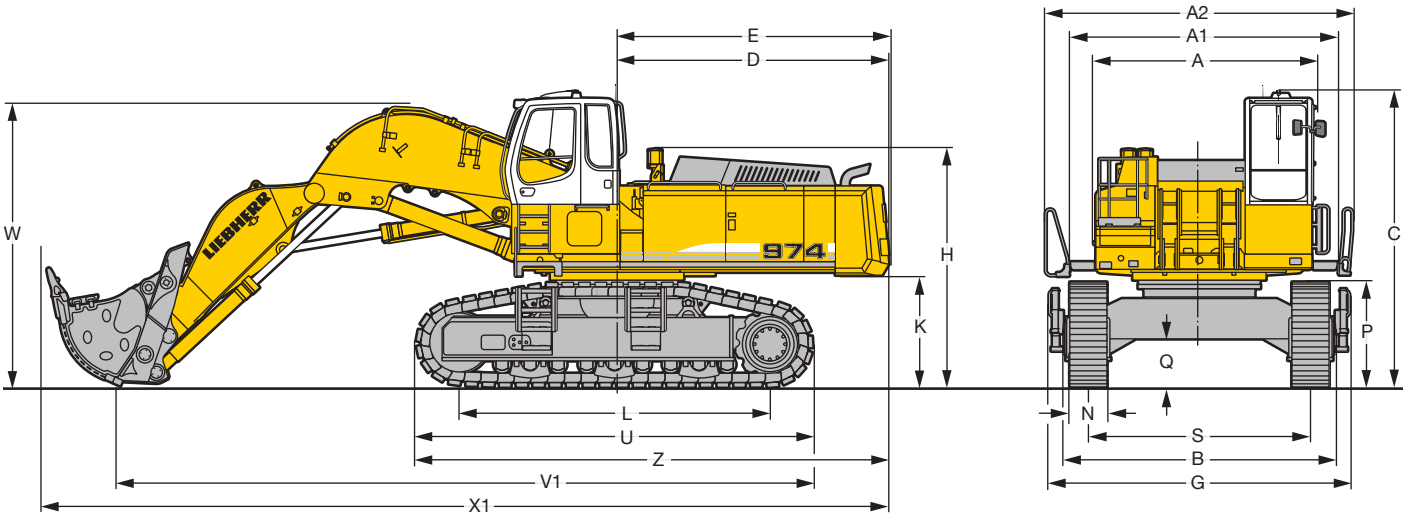
Front Shovels

Cutting width mm	Capacity ISO 7451 m³	Weight kg	Wear kit level	HD-Undercarriage Shovel Attachment
2,300	4.40	8,310	II	○
2,300	4.40	9,160	III	○
2,700	5.10	8,430	I	□
2,700	5.10	9,090	II	□
2,700	5.10	10,030	III	□
2,700	5.40	9,920	III	△
2,700	5.60	8,750	I	△
2,700	5.60	9,190	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.

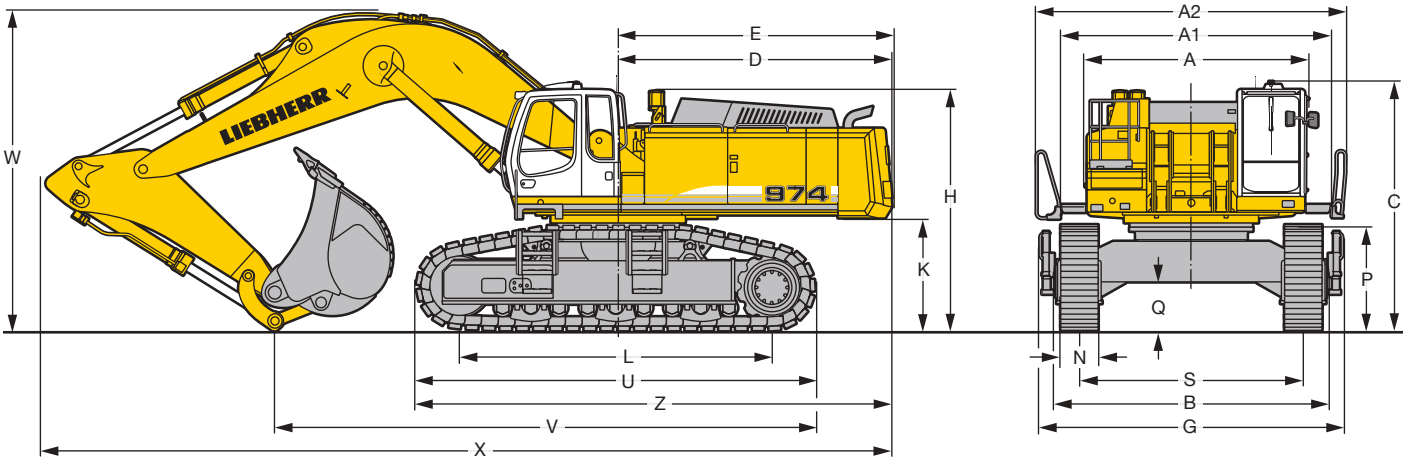
Max. material weight ○ = ≤ 2.2 t/m³, □ = ≤ 1.8 t/m³, △ = ≤ 1.65 t/m³

Dimensions SME



	S-HD	mm
A		3,605
A1		4,365
A2		5,000
C		4,820
D		4,400
E		4,440
H		3,860
K		1,815
L		5,035
P		1,700

	S-HD		mm
Q			780
S			3,600
U			6,430
N	500	600	750
B	4,430	4,430	4,430
G	4,845	4,845	4,845
Z			7,660
V1			11,250
W1			4,600
X1			13,700

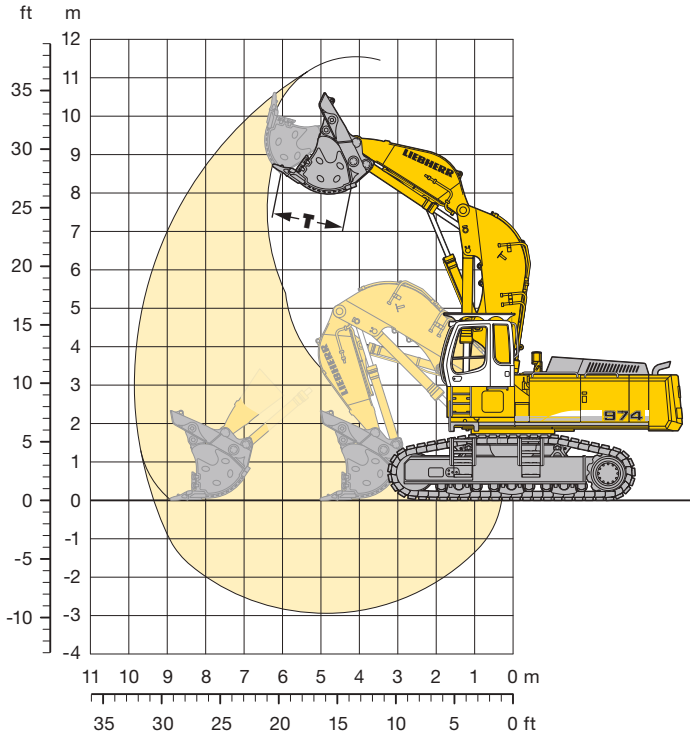


	S-HD		mm
A			3,605
A1			4,365
A2			5,000
C			4,020
D			4,400
E			4,440
H			3,860
K			1,815
L			5,035
P			1,700
Q			780
S			3,600
U			6,430
N	500	600	750
B	4,430	4,430	4,430
G	4,845	4,845	4,845
Z			7,660

	Stick Length	Mono Boom 7.20 m
	m	mm
V	2.90 SME	8,700
	3.30 SME	8,500
W	2.90 SME	5,150
	3.30 SME	5,300
X	2.90 SME	13,700
	3.30 SME	13,300

Front Shovel

Super Mass Excavation



Digging Envelope

Max. reach at ground level	9.35 m
Max. dump height	8.00 m
Max. crowd length	3.90 m
Bucket opening width T	1,825 mm
Max. crowd force	630 kN/64.2 t
Max. crowd force at ground level	450 kN/45.9 t
Max. breakout force	460 kN/46.9 t

Operating Weight and Ground Pressure

Operating weight includes basic machine with heavy counterweight, cab elevation 0.8 m, rock protection, shovel attachment SME and front shovel 6.00 m³ (10,700 kg), level II.

Undercarriage		S-HD		
Pad width	mm	500	600	750
Weight	kg	104,000	104,800	106,000
Ground pressure	kg/cm²	1.88	1.58	1.28

Front Shovels

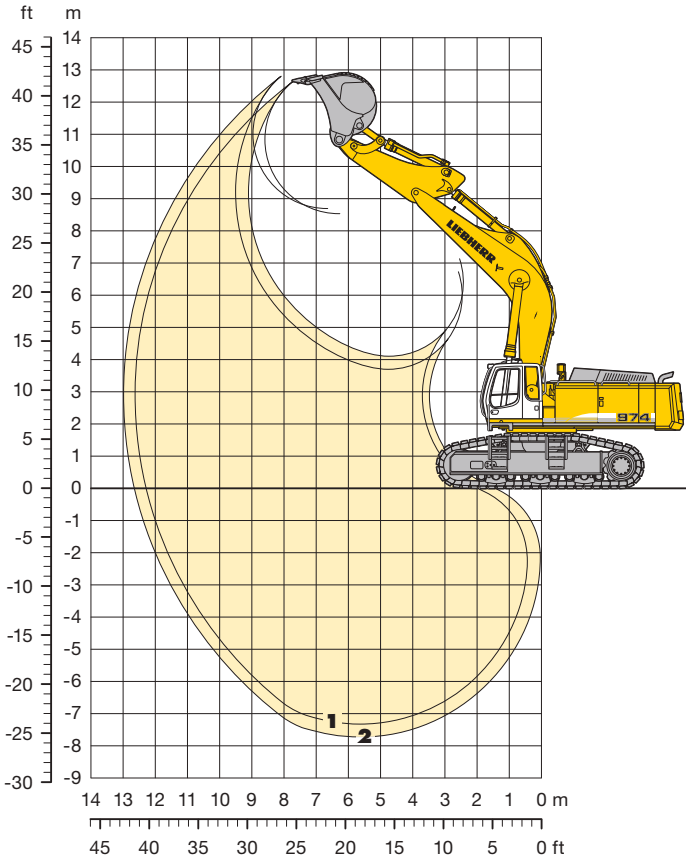
Cutting width mm	Capacity ISO 7451 m³	Weight kg	Wear kit level	S-HD-Undercarriage Shovel Attachment SME
2,700	5.10	10,130	III	○
2,700	5.60	8,750	I	○
2,700	5.60	9,190	II	○
2,700	5.60	9,910	III	□
2,700	6.00	10,630	II	□
2,700	6.00	11,350	III	□
3,150	6.00	8,200	I	□
3,150	6.50	8,340	I	△
3,150	6.50	9,830	II	△

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

Backhoe Bucket

with Mono Boom 7.20 m SME and Heavy Counterweight



Digging Envelope

		1	2
Stick length	m	2.90	3.30
Max. digging depth	m	7.30	7.70
Max. reach at ground level	m	12.30	12.65
Max. dump height	m	8.50	8.70
Max. teeth height	m	12.60	12.80
Digging force ISO	kN	389.5	360.5
	t	39.7	36.8
Breakout force ISO	kN	464.2	464.2
	t	47.3	47.3

Operating Weight and Ground Pressure

Operating weight includes basic machine with heavy counterweight 16.0 t, mono boom 7.20 m SME, stick 2.90 m SME and HD bucket 6.20 m³ (6,350 kg).

Undercarriage		S-HD		
Pad width	mm	500	600	750
Weight	kg	99,300	100,100	101,300
Ground pressure	kg/cm²	1.80	1.51	1.22

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

	Cutting width mm	Capacity ISO 7451 m³	Weight kg	S-HD-Undercarriage Stick length (m) 2.90	3.30
HD[1]	2,500	6.20	6,350	□	△
	2,600	6.80	6,700	△	■
HD-V[2]	2,300	5.70	6,700	○	□
	2,500	6.30	7,500	△	■

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

[1] HD bucket with Liebherr teeth Z 90

[2] HD-V bucket with Liebherr teeth Z 90

Autres godets rétro disponibles sur demande

Max. material weight ○ = ≤ 2.0 t/m³, □ = ≤ 1.8 t/m³, △ = ≤ 1.65 t/m³, ■ = ≤ 1.5 t/m³

Lift Capacities

with Mono Boom 7.20 m SME and Heavy Counterweight

Stick 2.90 m SME

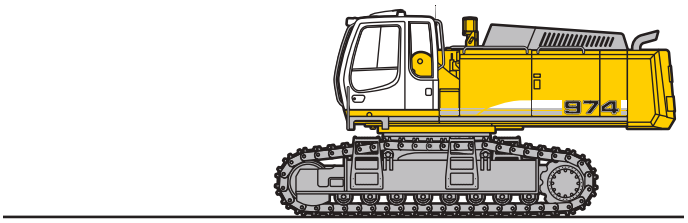
Height (m)	Under-carriage	Radius of load from centerline of machine (m)					
		3.0	4.5	6.0	7.5	9.0	10.5
9.0	S-HD				18.4# (18.4#)		
7.5	S-HD				18.7# (18.7#)	17.6# (17.6#)	
6.0	S-HD			23.8# (23.8#)	20.0# (20.0#)	17.9# (17.9#)	
4.5	S-HD			27.3# (27.3#)	21.7# (21.7#)	18.7# (18.7#)	
3.0	S-HD				23.4# (23.4#)	19.4 (19.5#)	
1.5	S-HD			31.5# (31.5#)	24.4# (24.4#)	18.9 (20.0#)	
0	S-HD			31.2# (31.2#)	23.9 (24.4#)	18.6 (19.8#)	
-1.5	S-HD		37.1# (37.1#)	29.4# (29.4#)	23.3# (23.3#)	18.4# (18.4#)	
-3.0	S-HD	38.1# (38.1#)	32.1# (32.1#)	25.9# (25.9#)	20.4# (20.4#)		
-4.5	S-HD		24.2# (24.2#)	19.4# (19.4#)			

Stick 3.30 m SME

Height (m)	Under-carriage	Radius of load from centerline of machine (m)					
		3.0	4.5	6.0	7.5	9.0	10.5
9.0	S-HD				17.2# (17.2#)		
7.5	S-HD				17.8# (17.8#)	16.7# (16.7#)	
6.0	S-HD			22.6# (22.6#)	19.2# (19.2#)	17.2# (17.2#)	
4.5	S-HD			26.2# (26.2#)	21.0# (21.0#)	18.1# (18.1#)	15.7 (16.3#)
3.0	S-HD			29.5# (29.5#)	22.8# (22.8#)	19.0# (19.0#)	15.4 (16.6#)
1.5	S-HD			31.2# (31.2#)	24.0# (24.0#)	18.9 (19.7#)	15.1 (16.7#)
0	S-HD			31.3# (31.3#)	23.9 (24.4#)	18.5 (19.8#)	
-1.5	S-HD		37.2# (37.2#)	29.9# (29.9#)	23.6# (23.6#)	18.3 (18.9#)	
-3.0	S-HD	37.3# (37.3#)	34.2# (34.2#)	26.9# (26.9#)	21.2# (21.2#)		
-4.5	S-HD		27.0# (27.0#)	21.5# (21.5#)	15.5# (15.5#)		

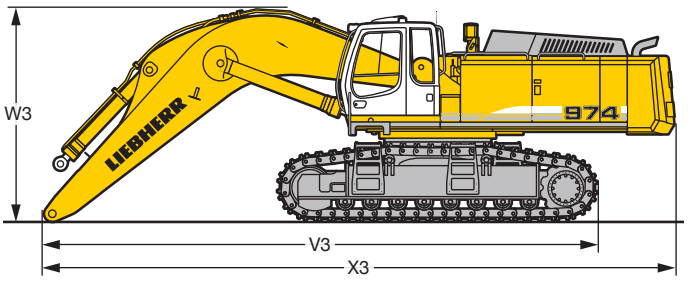
The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Values quoted in brackets apply to the undercarriage when in longitudinal position. Capacities are valid for 600 mm wide, double-grouser pads. Indicated loads are based on ISO 10567 standard 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 check valves on the hoist and stick cylinders, when they are used for lifting operations which require the use of lifting accessories.

Component Dimensions and Weights



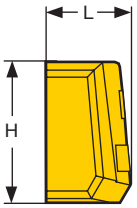
Basic Machine

Track pads	mm	500	600	750
Weight with HD-Undercarriage and counterweight	kg	64,100	64,850	65,950
Weight with HD-Undercarriage and heavy counterweight	kg	66,000	66,750	67,850
Weight with LC-V-Undercarriage and counterweight	kg	69,200	70,000	71,150
Weight with LC-V-Undercarriage and heavy counterweight	kg	71,100	71,900	73,050
Weight with S-HD-Undercarriage and heavy counterweight	kg	76,350	77,150	78,350



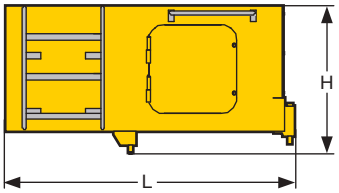
Undercarriage

			HD	LC-V	S-HD
V3	Mono boom 7.20 m	mm	10,350	10,500	–
	Mono boom 8.60 m	mm	11,700	11,850	–
	Mono boom 10.50 m	mm	13,650	13 850	–
	Mono boom 7.20 m SME	mm	–	–	10,500
W3	Mono boom 7.20 m	mm	4,000	4,050	–
	Mono boom 8.60 m	mm	4,350	4,450	–
	Mono boom 10.50 m	mm	4,700	4,800	–
	Mono boom 7.20 m SME	mm	–	–	4,100
X3	Mono boom 7.20 m	mm	11,800	11,750	–
	Mono boom 8.60 m	mm	13,250	13,200	–
	Mono boom 10.50 m	mm	15,300	15,250	–
	Mono boom 7.20 m SME	mm	–	–	11,700



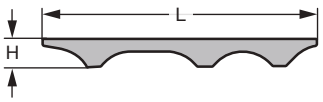
Counterweight

L	Length	mm	865	865
H	Height	mm	1,445	1,445
	Width	mm	3,360	3,360
	Weight	kg	14,100	16,000



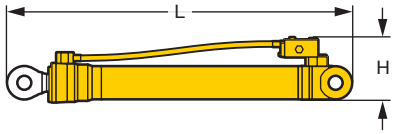
Cab Elevation

			800 mm	1,200 mm
L	Length	mm	1,820	2,300
H	Height	mm	930	1,350
	Width	mm	1,370	1,800
	Weight	kg	600	850



Upper Protection Screen

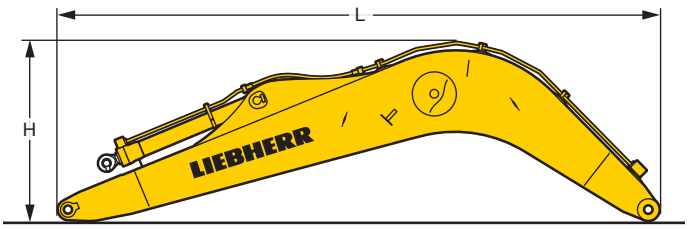
L	Length	mm	1,960
H	Height	mm	185
	Width	mm	1,110
	Weight	kg	75



Hoist Cylinders (two)

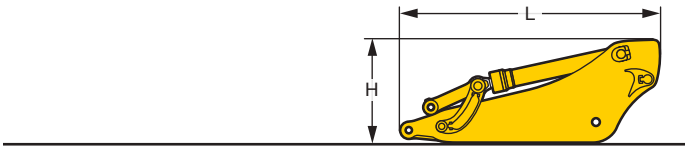
L	Length	mm	2,920
H	Height	mm	550
Ø	Diameter	mm	400
	Weight	kg	2 x 1,050

Component Dimensions and Weights



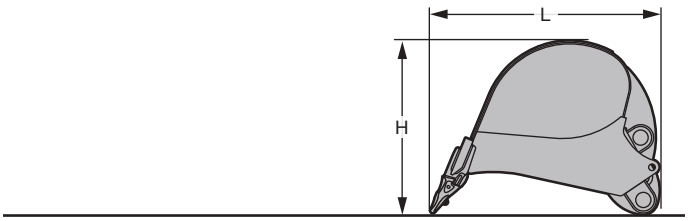
Mono Boom with Stick Cylinder

Stick length		m		7.20	8.60	10.50	7.20 SME
L	Length	mm		7,550	8,950	10,850	7,550
H	Height	mm		2,600	2,700	2,900	2,600
	Width	mm		1,460	1,460	1,460	1,460
	Weight	kg		9,200	10,100	11,250	9,600



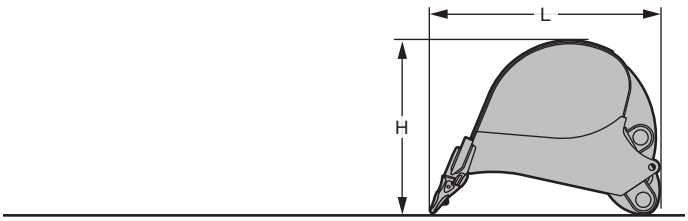
Stick with Bucket Cylinder

Stick length		m	2.90	3.80	4.70	5.80	2.90 SME	3.30 SME
L	Length	mm	4,050	4,900	5,800	6,900	4,100	4,450
H	Height	mm	1,700	1,500	1,450	1,400	1,750	1,650
	Width	mm	900	900	900	900	1,030	1,030
	Weight	kg	4,450	4,750	5,150	5,000	4,900	5,100



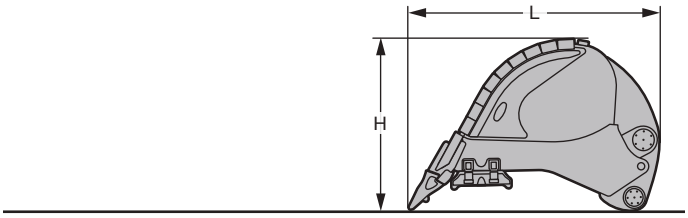
Backhoe Buckets — Std

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



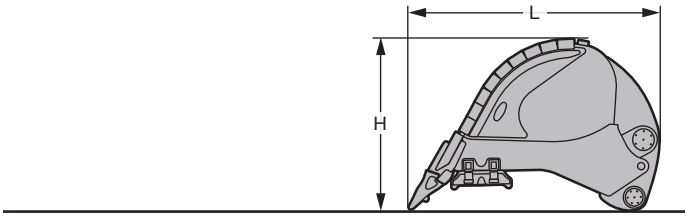
Backhoe Buckets — Std

Cutting width		mm	2,150	2,300	2,300	2,600
	Capacity	m³	4.80	5.30	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

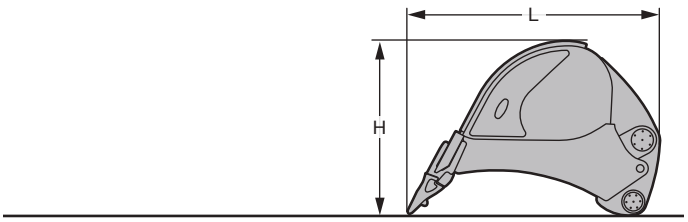
Cutting width		mm	1,800	1,950	2,150	2,300	2,300
	Capacity	m³	3.60	4.10	4.60	5.10	5.60
L	Length	mm	2,450	2,450	2,450	2,450	2,550
H	Height	mm	1,950	1,950	1,950	1,950	1,950
	Width	mm	1,850	2,000	2,200	2,350	2,350
	Weight	kg	4,400	4,750	5,050	5,350	5,550



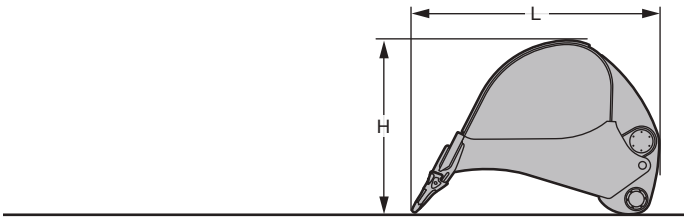
Backhoe Buckets — HD-V

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

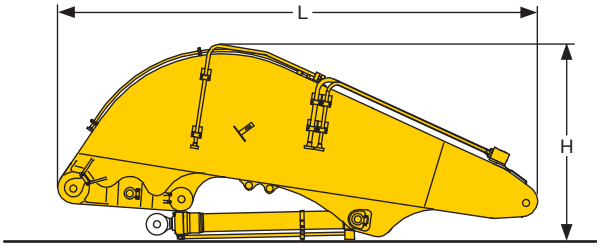
Component Dimensions and Weights



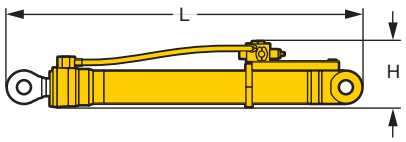
Backhoe Buckets SME			HD		HD-V	
Cutting width		mm	2,500	2,600	2,300	2,500
	Capacity	m^3	6.20	6.80	5.70	6.30
L	Length	mm	2,550	2,550	2,600	2,550
H	Height	mm	2,050	2,050	2,050	2,050
	Width	mm	2,550	2,650	2,350	2,550
	Weight	kg	6,350	6,700	6,700	7,500



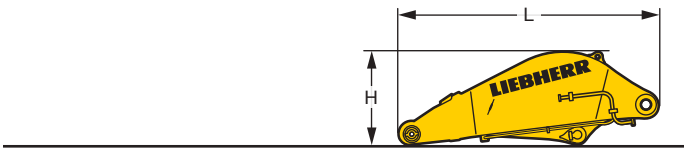
Backhoe Buckets from R 964 C					
Cutting width		mm	1,350	1,550	1,750
	Capacity	m^3	2.00	2.50	3.00
L	Length	mm	2,400	2,400	2,400
H	Height	mm	1,700	1,700	1,700
	Width	mm	1,400	1,600	1,800
	Weight	kg	2,750	2,950	3,150



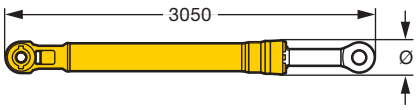
Shovel Boom			
L	Length	mm	4,950
H	Height	mm	2,050
	Width	mm	1,650
	Weight without crowd cylinder	kg	7,300
	Weight crowd cylinder	kg	2 x 450



Shovel Hoist Cylinder (two)			
L	Length	mm	2,920
H	Height	mm	550
Ø	Diameter	mm	450
	Weight	kg	2 x 1,100

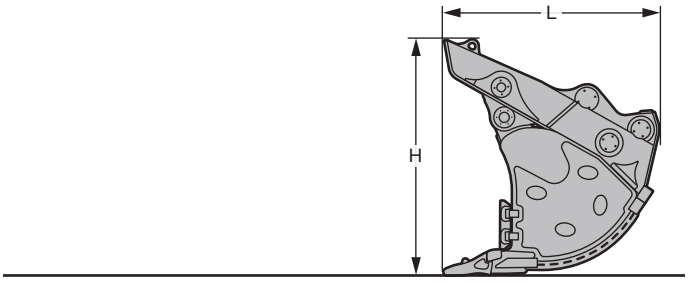


Shovel Stick			
L	Length	mm	3,660
H	Height	mm	1,300
	Width	mm	1,800
	Weight	kg	4,650



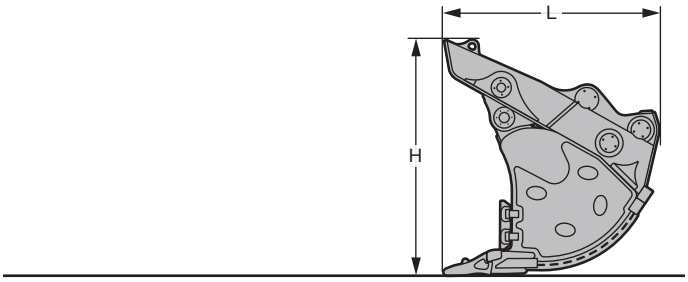
Shovel Bucket Cylinders (two)			
L	Length	mm	3,050
Ø	Diameter	mm	300
	Weight	kg	2 x 625

Component Dimensions and Weights



Front Shovels

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



Front Shovels SME

Cutting width		mm	2,700	2,700	3,150	3,150
	Capacity	m^3	5.10	5.60	6.00	6.50
L	Length	mm	2,600	2,700	2,600	2,800
H	Height	mm	2,600	2,600	2,600	2,800
	Width	mm	2,750	2,750	3,200	3,200
	Weight					
	Level I	kg	–	8,750	9,950	10,750
	Level II	kg	–	9,450	10,700	11,600
	Level III	kg	10,150	10,600	11,950	12,900

Standard Equipment

Undercarriage

- Digging locks
- Integrated travel drive
- Lubrified tracks
- Protection on idler end
- Three track guide per track

Uppercarriage

- Engine hood with lift help
- Handrails, non slip surfaces
- Lockable tool box
- Maintenance-free HD-batteries
- Maintenance-free swing brake lock
- Sound insulation
- Tool kit

Hydraulics

- Electronic pump regulation
- Filter with integrated fine filter area (5 µm)
- Flow compensation
- Hydraulic tank shut-off valve
- Pressure compensation
- Pressure storage for controlled lowering of attachments with engine turned off
- Pressure test ports
- Stepless work mode selector

Engine

- Air filter with automatic dust ejector
- Automatic engine idling
- Common rail injection
- Conform with standard stage IIIA/Tier 3
- Dry-type air cleaner w/pre-cleaner, main and safety elements
- Engine cold starting aid
- Main switch for electric circuit
- Turbo charger

Operator's Cab

- Automatic air conditioning with defroster
- Bullet-proof windscreen (fixed installation – can not be opened) and bullet-proof roof windows
- Cigarette lighter and ashtray
- Closed storage space – literature tray
- Coat hook
- Dome light
- Door with sliding window
- Emergency exit rear window
- Inside rear mirror
- Load bearing sectional profile structure, covered with deep-drawn panels
- Mechanical hour meters, readable from outside the cab
- Multifunction display
- Preparation for radio installation
- Removable customized foot mat
- Removable handles for travel pedals
- Right window made of one piece (without post)
- Seat and console independently adjustable (6-way adjustable seat)
- Seat belt
- Storage bin
- Sun roller blind
- Tinted side windows
- Washer-wiper for front and roof window

Attachment

- Automatic central lubrication system (except link and tilt geometry)
- Cylinders with shock absorbers
- Re-Generation plus
- SAE split flanges on all high pressure lines
- Sealed pivots/O-ring sealed between bucket and stick
- Work light on boom

Individual Options

Undercarriage

- Different track pad width
- Different undercarriage versions

Uppercarriage

- Customized paint – compl. machine
- Electric fuel tank filler pump
- Heavy counterweight
- Pedal controlled positioning swing brake
- Protection for front working light

Hydraulics

- Additional hydraulic circuits
- Bio-degradable hydr. oil
- Filter for secondary circuit
- High lift circuit

Engine

- Fuel pre-heater

Operator's Cab

- Additional flood lights (front)
- Additional flood lights (rear)
- Air pressure operator seat with heating and head-rest
- Auxiliary heating with clock timer
- Beacon
- Electric cool box
- Electric drive away lock
- Extinguisher
- Front guard tiltable or fixed
- Lower windscreen with wiper
- Stereo radio
- Sun visor
- Upper protection screen (FOPS)

Attachment

- Central lubrication for lever with protection cover
- Customized colors
- Hydraulic lines for additional tools
- Hydraulic quick coupler
- Liebherr working tools
- Overload warning device
- Piston rod protection
- Special application buckets

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 120 companies with over 35,000 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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