

R 930 Litronic

LIEBHERR

Crawler excavator

Generation
7

Operating weight
30,050–32,200 kg

Engine
180 kW / 245 HP
Stage IIIA / Tier 3

Bucket capacity
1.00–2.15 m³



Experience the progress

R 930

① Safety

- Fully unobstructed all-round visibility – optional rear and side surveillance cameras
- Tilttable console for easy and safe access to cab
- Emergency exit via the rear cab window
- Right window and windshield in laminated and tinted glass

② Equipment

- Large choice of sticks
- Longer lifespan of components thanks to a grouping of the lubrication points
- Safety check valves for hoist and stick cylinders (option)

③ Maintenance

- Innovative servicing concept, with service points accessible from ground level
- Engine oil, hydraulic oil and fuel levels visible on display

④ Comfort

- Spacious, air-conditioned work space
- Mechanical seat with vertical suspension as standard
- Easy-to-use high resolution 9" colour touchscreen
- Completely retractable front cab window
- LED lighting as standard



⑤ Engine

- Liebherr engine equivalent to EU Stage IIIA and EPA Tier 3
- Automatic engine idling / speed increase, controlled via joystick sensors

⑥ Undercarriage

- Robust, reliable X-frame undercarriage, easy to secure thanks to its integrated eyelets
- Easy maintenance
- Maintenance-free track chains and track rollers with lifetime lubrication



Technical data



Diesel engine

Rating per ISO 9249	180 kW (245 HP) at 1,800 RPM
Torque	1,255 Nm at 1,350 RPM
Model	Liebherr D934 A7-23
Type	4 cylinder in-line
Bore	122 mm
Stroke	150 mm
Displacement	7.0 l
Engine operation	4-stroke diesel Common-Rail Turbo-charged and after-cooler
Exhaust gas treatment	Engine equivalent to EU Stage IIIA / EPA Tier 3: with EGR
Cooling system	Water-cooled and oil cooler, after-cooled and fuel cooled
Air cleaner	Dry-type air cleaner with pre-cleaner
Fuel tank	620 l
Electrical system	
Voltage	24 V
Batteries	2 x 135 Ah / 12 V
Alternator	Three-phase current 24 V / 140 A
Engine idling	Sensor controlled



Hydraulic controls

Power distribution	Via control valves, simultaneous and independent actuation of undercarriage, swing drive and equipment
Electric servo circuit	Electro-hydraulic control
Equipment and swing Travel	Proportional via joystick levers – Proportional control via foot pedals or removable levers – Automatic or manual speed adjustment
Additional functions	Proportional regulation via foot pedals or mini-joystick



Hydraulic system

Hydraulic system	Positive Control hydraulic system. Demand-based, double independent pump flows Features high system dynamics and sensitivity provided by integrated system controlling Independent circuit for rotation
Hydraulic pumps	
For equipment and travel drive	Liebherr, variable displacement, swashplate double pump
Max. flow	2 x 265 l/min.
Max. pressure	380 bar
For swing drive	Swashplate pump, closed-loop circuit
Max. flow	200 l/min.
Max. pressure	400 bar
Pump management	Electronic management synchronous to the control block
Hydraulic tank	239 l
Hydraulic system Filtration	max. 475 l 1 main return filter with integrated partial micro filtration (10 µm)
Cooling system	Compact cooler, consisting of a water cooler, with hydraulic oil cooler, gearbox oil cooler, fuel cooler and after-cooler cores and hydrostatically driven fan
MODE selection	Adjustment of engine and hydraulic performance via a mode pre-selector to match application, e.g. for especially economical and environmentally friendly operation or for maximum digging performance and heavy-duty jobs
Engine speed and performance setting	Stepless adjustment of engine output and hydraulic power via engine speed



Swing drive

Drive	Liebherr swashplate motor with integrated brake valve and torque control
Transmission	Liebherr compact planetary reduction gears
Swing ring	Liebherr, sealed race ball bearing swing ring, internal teeth
Swing speed	0-10.1 RPM stepless
Swing torque	99 kNm
Holding brake	Wet multi-disc (spring applied, pressure released)



Cab

Cab	ROPS safety cab structure optional (roll-over protection system according to ISO 12117-2:2008) with windscreen, totally or partially retractable (only upper part), under cab roof, LED headlights integrated in the ceiling, a door with a sliding window (can be opened on both sides), large storing box and several stowing possibilities, shock-absorbing suspension, laminated right hand side and roof windows, all windows tinted, separate extensible window shades for the sunroof window and windscreen, cigarette lighter and 24 V plug, cup holder, mobile phone storage net
Operator's seat	Liebherr-Standard seat, mechanically suspended with weight adjustment, vertical seat damping including consoles and joysticks. Seat and armrests adjustable separately and in combination (adjustable in length, height, and inclination)
Option	Liebherr-Comfort seat, airsprung with automatic weight adjustment, vertical and longitudinal seat damping including consoles and joysticks, with seat heating
Arm consoles	Oscillating consoles with seat, tiltable console left
Operation and displays	Large high-resolution operating unit, intuitive, colour display with touchscreen, video-compatible, numerous setting, control and monitoring options, e.g. air conditioning control, fuel consumption, machine and attachment parameters
Air-conditioning	Automatic air-conditioning, recirculated air function, fast de-icing and demisting at the press of a button, air vents can be operated via a menu. Recirculated air and fresh air filters can be easily replaced and are accessible from the outside. Heating-cooling unit, designed for extreme outside temperatures, sensors for solar radiation, inside and outside temperatures
Noise emission	
ISO 6396	80 dB(A) = L_{pA} (inside cab)
2000/14/EC	106 dB(A) = L_{WA} (surround noise)



Undercarriage

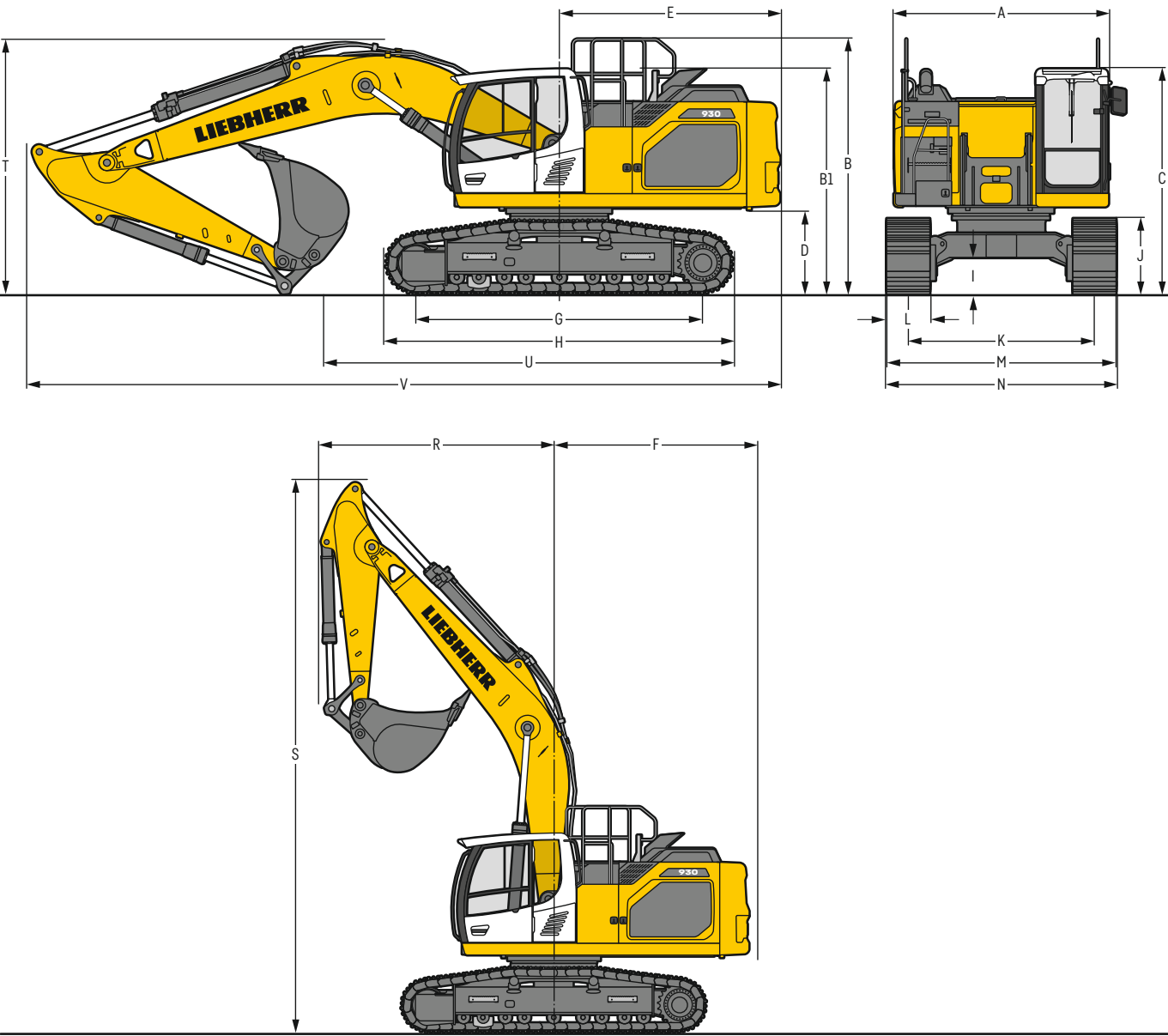
LC	Gauge 2 590 mm
Drive	Liebherr swashplate motor with brake valves on both sides
Transmission	Liebherr planetary reduction gear
Maximum travel speed	3.5 km/h low range 5.8 km/h high range
Drawbar pull on crawler	261 kN
Track components	D7, D7G, maintenance-free
Track rollers / Carrier rollers	9 / 2
Tracks	Sealed and greased
Track pads	Triple grouser
Holding brake	Wet multi-disc (spring applied, pressure released)
Brake valves	Integrated into travel motor
Lashing eyes	Integrated



Equipment

Type	Combination of resistant steel plates and cast steel components
Hydraulic cylinders	Liebherr cylinders with seal and guidance systems
Bearings	Sealed, low maintenance
Lubrication	Liebherr central lubrication system
Hydraulic connections	Pipes and hoses equipped with SAE split-flange connections
Backhoe buckets	Standard equipped with Liebherr tooth system

Dimensions



		LC		mm
A	Uppercarriage width			2,990 ²⁾
B	Uppercarriage height			3,570
B1	Uppercarriage height (handrails folded)			3,130
C	Cab height			3,150
D	Counterweight ground clearance			1,175
E	Rear-end length			3,075
F	Tail swing radius			3,200
G	Wheelbase			3,990
H	Undercarriage length			4,840
I	Undercarriage ground clearance			505
J	Track height			1,055
K	Track gauge			2,590
L	Track pad width		600 700 800 900	
M	Width over tracks		3,190 3,290 3,390 3,490	
N	Width over steps		3,190 3,190 3,390 ¹⁾ 3,390 ¹⁾	

¹⁾ width with removable steps

²⁾ without door stop device and spacer

		Stick length m	Mono boom 6.20 m direct mounting mm
R	Front swing radius		3,700
S	Height with boom up		8,700
T	Boom height	2.50	3,250
		2.80	3,550
		3.20	3,400
		3.70	3,200*
U	Length on ground	2.50	6,400
		2.80	6,250
		3.20	5,600
		3.70	4,850*
V	Overall length	2.50	10,400
		2.80	10,400
		3.20	10,400
		3.70	10,400*
	Bucket		1.75 m ³

* without bucket

Transport dimensions

removable elements disassembled

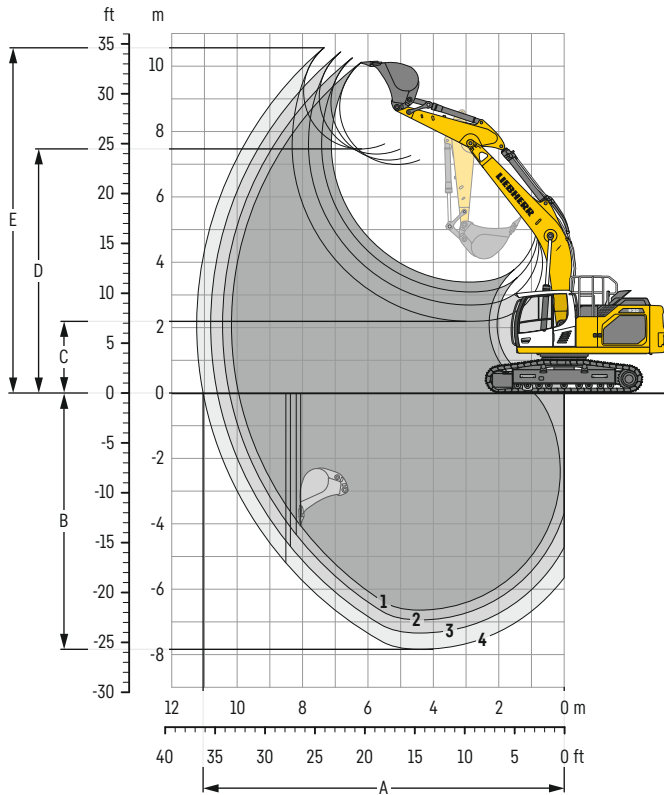
	Mono boom 6.20 m
	mm
Pad width	600 700 800 900
Transport width	3,190 3,290 3,390 3,490

	Stick m	mm
Transport length	2.50	10,400
	2.80	10,400
	3.20	10,400
	3.70	10,400*
Transport height	2.50	3,250
	2.80	3,550
	3.20	3,400
	3.70	3,200*
Bucket		1.75 m ³

* without bucket

Backhoe bucket

with mono boom 6.20 m



Digging envelope

without quick coupler		1	2	3	4
Stick length	m	2.50	2.80	3.20	3.70
A Max. reach at ground level	m	9.95	10.23	10.60	11.04
B Max. digging depth	m	6.64	6.94	7.34	7.84
C Min. dumping height	m	3.39	3.09	2.69	2.19
D Max. dumping height	m	6.99	7.13	7.31	7.47
E Max. cutting height	m	10.10	10.23	10.42	10.56

Forces

without quick coupler		1	2	3	4
Stick digging force (ISO 6015)	kN	168	156	142	128
Bucket digging force (ISO 6015)	kN	204	204	204	204
Stick digging force (SAE J1179)	kN	160	149	136	123
Bucket digging force (SAE J1179)	kN	178	178	178	178

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 5.1t, mono boom 6.20 m, stick 3.20 m and backhoe bucket 1.75 m³ (1,160 kg).

Undercarriage		LC			
Pad width	mm	600	700	800	900
Weight	kg	30,050	30,400	30,750	31,100
Ground pressure	kg/cm ²	0.58	0.51	0.45	0.40

The operating weight includes the basic machine with counterweight 6.2t, mono boom 6.20 m, stick 3.20 m and backhoe bucket 1.75 m³ (1,160 kg).

Undercarriage		LC			
Pad width	mm	600	700	800	900
Weight	kg	31,150	31,500	31,850	32,200
Ground pressure	kg/cm ²	0.61	0.52	0.46	0.42

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

					LC undercarriage (with track pads 600 mm)							
Cutting width mm	Capacity ISO 7451 m³	Weight ³⁾ kg	Weight ⁴⁾ kg	Stick length (m)								
				2.50	without quick coupler		3.70	2.50	with quick coupler		3.70	
				2.80	3.20			2.80	3.20			
with counterweight 5.1 t												
STD ¹⁾	1,050	1.00	870	930	▲	▲	▲	▲	▲	▲	▲	
	1,250	1.25	1,000	1,050	▲	▲	▲	▲	▲	▲	▲	
	1,400	1.45	1,070	1,130	▲	▲	▲	▲	▲	▲	■	
	1,550	1.60	1,110	1,170	▲	▲	▲	■	▲	■	▲	
	1,650	1.75	1,160	1,220	▲	▲	■	▲	■	▲	■	
	1,550	1.85	1,170	1,230	▲	▲	■	■	■	▲	△	
	1,650	2.00	1,210	1,270	■	▲	■	△	▲	■	△	
	1,750	2.15	1,260	1,320	▲	■	△	△	▲	■	△	
HD ²⁾	1,050	1.00	1,000	1,050	▲	▲	▲	▲	▲	▲	▲	
	1,250	1.25	1,140	1,200	▲	▲	▲	▲	▲	▲	▲	
	1,400	1.45	1,230	1,290	▲	▲	▲	▲	▲	▲	■	
	1,550	1.60	1,290	1,350	▲	▲	■	▲	■	■	■	
	1,650	1.75	1,350	1,410	▲	▲	▲	■	■	▲	△	
	1,550	1.85	1,340	1,400	▲	▲	▲	■	▲	■	△	
	1,650	2.00	1,400	1,460	■	▲	■	△	▲	■	△	
	1,750	2.15	1,450	1,510	▲	■	△	△	■	△	—	
with counterweight 6.2 t												
STD ¹⁾	1,050	1.00	870	930	▲	▲	▲	▲	▲	▲	▲	
	1,250	1.25	1,000	1,050	▲	▲	▲	▲	▲	▲	▲	
	1,400	1.45	1,070	1,130	▲	▲	▲	▲	▲	▲	▲	
	1,550	1.60	1,110	1,170	▲	▲	▲	▲	▲	▲	▲	
	1,650	1.75	1,160	1,220	▲	▲	▲	■	▲	▲	■	
	1,550	1.85	1,170	1,230	▲	▲	▲	▲	▲	■	▲	
	1,650	2.00	1,210	1,270	▲	▲	■	▲	■	▲	■	
	1,750	2.15	1,260	1,320	▲	▲	■	▲	■	▲	△	
HD ²⁾	1,050	1.00	1,000	1,050	▲	▲	▲	▲	▲	▲	▲	
	1,250	1.25	1,140	1,200	▲	▲	▲	▲	▲	▲	▲	
	1,400	1.45	1,230	1,290	▲	▲	▲	▲	▲	▲	▲	
	1,550	1.60	1,290	1,350	▲	▲	▲	▲	▲	▲	■	
	1,650	1.75	1,350	1,410	▲	▲	▲	■	▲	■	▲	
	1,550	1.85	1,340	1,400	▲	▲	▲	▲	▲	■	▲	
	1,650	2.00	1,400	1,460	▲	▲	■	▲	■	▲	■	
	1,750	2.15	1,450	1,510	■	■	▲	△	■	▲	△	

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

¹⁾ Standard backhoe bucket with teeth Z 50

²⁾ HD backhoe bucket with teeth Z 50

³⁾ backhoe bucket for direct mounting

⁴⁾ backhoe bucket for mounting to quick coupler SWA 66 (350 kg)

Other backhoe buckets available upon request

Max. material weight ▲ = ≤ 2.0t/m³, ■ = ≤ 1.8t/m³, ▲ = ≤ 1.65t/m³, ■ = ≤ 1.5t/m³, △ = ≤ 1.2t/m³, — = not authorised

Lift capacities

with mono boom 6.20 m, counterweight 5.1 t and track pads 600 mm

Stick 2.50 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach	m
9.0						7.1	8.3*
7.5						5.6	8.1*
6.0						4.8	7.2
4.5		11.6	12.8*	7.5	10.2*	5.4	8.1
3.0		10.7	15.3*	7.1	11.2	5.2	7.9
1.5		10.1	16.5*	6.8	10.8	5.0	7.7
0		10.0	16.2*	6.6	10.6	4.9	7.6
-1.5	13.0*	13.0*	10.0	15.0*	6.6	10.6	4.9
-3.0	15.9*	15.9*	10.2	12.8*	6.7	9.9*	4.9
-4.5		8.7*	8.7*				4.9
-6.0						7.4*	7.4*

Stick 2.80 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach	m
9.0						6.6	7.3*
7.5						5.2	7.1*
6.0						4.5	6.8
4.5	18.5*	18.5*	11.7	12.2*	7.6	9.8*	5.4
3.0			10.8	14.7*	7.2	11.0*	5.2
1.5			10.1	16.2*	6.8	10.8	5.0
0			9.9	16.3*	6.6	10.6	4.9
-1.5	12.5*	12.5*	9.9	15.3*	6.5	10.5	4.9
-3.0	17.1*	17.1*	10.0	13.4*	6.6	10.3*	4.9
-4.5	12.1*	12.1*	9.7*	9.7*			4.9
-6.0						7.6*	7.6*

Stick 3.20 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach	m
9.0						6.9*	6.9*
7.5						5.9	6.3*
6.0						4.8	6.1*
4.5		11.4*	11.4*	7.6	9.3*	5.4	8.2
3.0		11.0	14.0*	7.2	10.5*	5.2	7.9
1.5		10.2	15.8*	6.8	10.8	5.0	7.7
0	6.5*	6.5*	9.8	16.3*	6.6	10.5	4.8
-1.5	12.0*	12.0*	9.8	15.7*	6.5	10.4	4.8
-3.0	18.6*	18.6*	9.9	14.0*	6.5	10.5	4.8
-4.5	14.0*	14.0*	10.2	10.9*	6.7	8.0*	4.8
-6.0						6.5	7.6*

Stick 3.70 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach	m
9.0						5.7*	5.7*
7.5						5.3*	5.3*
6.0						4.4	5.1*
4.5						3.9	5.2*
3.0	11.4*	11.4*	11.2	13.1*	7.3	10.0*	5.2
1.5			10.3	15.3*	6.8	10.9	5.0
0	7.6*	7.6*	9.9	16.2*	6.5	10.5	4.8
-1.5	11.6*	11.6*	9.7	15.9*	6.4	10.3	4.7
-3.0	17.0*	17.0*	9.7	14.6*	6.4	10.3	4.7
-4.5	16.1*	16.1*	10.0	12.1*	6.5	9.1*	4.7
-6.0			7.1*	7.1*			4.7

 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 track pads. Indicated loads are based on ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 410 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.

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

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

Lift capacities

with mono boom 6.20 m, counterweight 6.2 t and track pads 600 mm

Stick 2.50 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m		
m							m
9.0							
7.5							
6.0							
4.5							
3.0		12.7 12.8*	8.3 10.2*	6.0 8.8*		7.8 8.3*	6.4
1.5		11.8 15.3*	7.9 11.2*	5.8 8.6		6.1 8.1*	7.5
0		11.2 16.5*	7.6 11.8	5.6 8.5		5.3 7.9	8.1
-1.5	13.0* 13.0*	11.1 15.0*	7.4 11.5	5.5 8.3		4.9 7.3	8.4
-3.0	15.9* 15.9*	11.3 12.8*	7.5 9.9*			4.8 7.2	8.4
-4.5		8.7* 8.7*				4.9 7.4	8.2
-6.0						5.4 8.2	7.6
						6.5 8.5*	6.7
						7.4* 7.4*	5.2

Stick 2.80 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m		
m							m
9.0							
7.5							
6.0							
4.5							
3.0		18.5* 18.5*	12.2* 12.2*	8.5* 8.5*		7.2 7.3*	6.8
1.5		11.9 14.7*	7.9 11.0*	5.8 8.6		5.8 7.1*	7.8
0		11.3 16.2*	7.6 11.8	5.6 8.4		5.0 7.2*	8.4
-1.5	12.5* 12.5*	11.0 15.3*	7.3 11.5	5.4 8.3		4.7 7.0	8.6
-3.0	17.1* 17.1*	11.1 13.4*	7.4 10.3*			4.6 6.8	8.7
-4.5	12.1* 12.1*	9.7* 9.7*				4.7 7.0	8.4
-6.0						5.1 7.7	7.9
						6.0 8.3*	7.0
						7.6* 7.6*	5.6

Stick 3.20 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m		
m							m
9.0						6.9* 6.9*	5.8
7.5						6.3* 6.3*	7.2
6.0						5.3 6.1*	8.2
4.5						4.7 6.2*	8.7
3.0		11.4* 11.4*	8.4 9.3*	6.1 7.8*		4.4 6.4*	9.0
1.5		12.1 14.0*	7.9 10.5*	5.8 8.6	4.4 6.5*	4.3 6.4	9.0
0	6.5* 6.5*	11.3 15.8*	7.6 11.6*	5.6 8.4	4.3 6.4	4.4 6.6	8.8
-1.5	12.0* 12.0*	10.9 15.7*	7.2 11.4	5.3 8.2		4.7 7.1	8.3
-3.0	18.6* 18.6*	11.0 14.0*	7.3 10.7*			5.5 8.0*	7.5
-4.5	14.0* 14.0*	10.9* 10.9*	7.5 8.0*			7.2 7.6*	6.2
-6.0							

Stick 3.70 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m		
m							m
9.0						5.7* 5.7*	6.5
7.5						5.3* 5.3*	7.8
6.0						4.9 5.1*	8.6
4.5						4.3 5.2*	9.2
3.0		11.4* 11.4*	12.3 13.1*	8.0 10.0*	5.8 8.4*	4.4 6.5	9.4
1.5		11.4 15.3*	7.6 11.2*	5.5 8.4	4.3 6.4	4.0 5.8*	9.5
0	7.6* 7.6*	11.0 16.2*	7.3 11.5	5.4 8.2	4.2 6.3	4.0 6.1	9.2
-1.5	11.6* 11.6*	10.8 15.9*	7.1 11.3	5.3 8.1		4.3 6.5	8.8
-3.0	17.0* 17.0*	10.8 14.6*	7.1 11.1*	5.3 8.1		4.9 7.5	8.0
-4.5	16.1* 16.1*	11.1 12.1*	7.3 9.1*			6.2 7.6*	6.8
-6.0		7.1* 7.1*				6.5* 6.5*	4.9

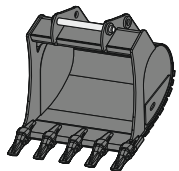
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach * Limited by hydr. capacity

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads. Indicated loads are based on ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 410 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.

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

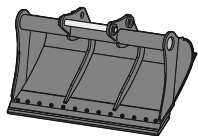
Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.

Attachments



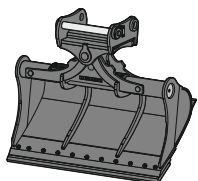
Backhoe bucket TL 05

Mounting		direct mounting, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, SWA 66 mechanical, SWA 66 hydraulic, SWA 66 Solidlink						
Cutting width	mm	800 ²⁾	1,050	1,250	1,400	1,550	1,650	1,750
Capacity	m ³	0.70	1.00	1.25	1.45	1.60	1.75	2.15
Weight ¹⁾	kg	810	870	990	1,050	1,130	1,180	1,270



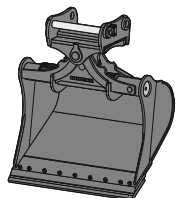
Ditch cleaning bucket GRL rigid 05

Mounting		direct mounting, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, SWA 66 mechanical, SWA 66 hydraulic, SWA 66 Solidlink						
Cutting width	mm	2,000		2,400		2,400		
Capacity	m ³	0.70		0.85		1.15		
Weight ¹⁾	kg	550		639		718		



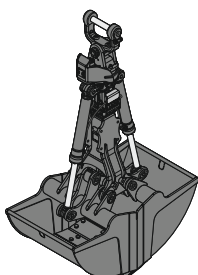
Ditch cleaning bucket with hydraulic cylinder GRL 100

Mounting		direct mounting, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, SWA 66 mechanical, SWA 66 hydraulic, SWA 66 Solidlink						
Cutting width	mm	2,000	2,000	2,000	2,200	2,400	2,400	
Capacity	m ³	0.70	1.20	1.45	1.65	0.85	1.45	
Weight ¹⁾	kg	1,375	1,520	1,600	1,675	1,480	1,625	
Tilt angle		2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°	



Tilt bucket with hydraulic cylinder SL 100

Mounting		direct mounting, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, SWA 66 mechanical, SWA 66 hydraulic, SWA 66 Solidlink						
Cutting width	mm	1,600	1,600	1,700 ³⁾	1,800	1,800	1,800 ³⁾	
Capacity	m ³	1.45	1.75	1.85	1.60	2.00	2.00	
Weight ¹⁾	kg	1,520	1,630	1,800	1,610	1,860	1,860	
Tilt angle		2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°	



Clamshell grab

Mounting		direct mounting, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, SWA 66 mechanical, SWA 66 hydraulic, SWA 66 Solidlink							
GMZ 30 Clamshell buckets									
Shell width	mm	600	800	1,000	1,200				
Capacity ⁴⁾	m ³	0.38	0.52	0.65	0.80				
Opening width	mm	1,644	1,644	1,644	1,644				
Weight ⁵⁾	kg	950	1,030	1,110	1,190				
GMZ 40 Clamshell buckets									
Shell width	mm	800	1,000	1,200	1,400	1,600			
Capacity ⁴⁾	m ³	0.65	0.85	1.05	1.20	1.40			
Opening width	mm	1,962	1,962	1,962	1,962	1,962			
Weight ⁵⁾	kg	1,245	1,330	1,420	1,505	1,595			
GMZ 80 Clamshell buckets									
Shell width	mm	1,200	1,200	1,400	1,400	1,650	1,650	2,000	2,000
Capacity ⁴⁾	m ³	1.40	1.40	1.70	1.70	2.00	2.00	2.50	2.50
Opening width	mm	2,128	2,128	2,128	2,128	2,128	2,128	2,128	2,128
Weight ⁵⁾	kg	2,085 ⁶⁾	2,045	2,190 ⁶⁾	2,140	2,330 ⁶⁾	2,260	2,510 ⁶⁾	2,435

¹⁾ based on an attachment in a standard design with SWA 66 Solidlink quick coupler mounting

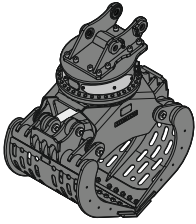
²⁾ for SWA 66 quick coupler mounting only

³⁾ HD version

⁴⁾ capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

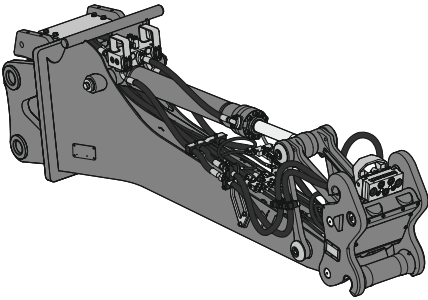
⁵⁾ without suspension

⁶⁾ incl. teeth



Sorting grab SG 30B

Mounting		direct mounting, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, SWA 66 mechanical, SWA 66 hydraulic, SWA 66 Solidlink							
Shell type		perforated ²⁾			ribbed ²⁾			closed ²⁾	Stone shell ³⁾
Shell width	mm	1,000	1,200	1,400	1,000	1,200	1,400	1,000	1,020
Capacity	m ³	0.85	1.00	1.15	0.75	0.90	1.05	0.85	0.85
Max. closing force	kN	80	80	80	80	80	80	80	80
Weight ¹⁾	kg	1,485	1,560	1,635	1,565	1,675	1,780	1,515	1,815



Stick extension LS 18

Mounting machine side	SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, SWA 48 Solidlink-10, SWA 66 mechanical, SWA 66 hydraulic, SWA 66 Solidlink		
Mounting attachment side	direct mounting, SWA 33 mechanical, SWA 33 mechanical Solidlink ⁵⁾ , SWA 33 hydraulic ⁷⁾ , SWA 33 Solidlink ^{6) 7) 8)} , SWA 48 mechanical, SWA 48 mechanical Solidlink ⁵⁾ , SWA 48 hydraulic ⁷⁾ , SWA 48 Solidlink ^{6) 7) 8)}		
Length	m	2.65	3.05
Weight ⁴⁾	kg	1,130	1,190

¹⁾ without quick coupler mounting

²⁾ with standard bolt-on cutting edge

³⁾ with Liebherr teeth Z 40 C

⁴⁾ based on standard stick extension LS 18 with SWA 48 Solidlink quick coupler mountings on both sides (underside of stick extension and machine side mounting) and electric switchover

⁵⁾ attachment with high pressure circuit only possible with the manual switchover tipping cylinder or an extended hydraulic circuit on the carrier machine

⁶⁾ attachment with high pressure circuit only possible with the electric / manual switchover tipping cylinder or an extended hydraulic circuit on the carrier machine

⁷⁾ 14-pin signal contact strip is required, for example to control and monitor the hydraulic quick coupling system on the stick extension on the attachment side or to transfer electrical signals for the switchover

⁸⁾ to use different hydraulic circuits, either Solidlink 33-9 / Solidlink 48-10 is required on the machine side, or a switchover system using the equipment power socket, controlled via the carrier machine's signal contact strip

Serial equipment



Undercarriage

- Lashing eyes
- Sprocket with dirt ejector
- Track and carrier rollers, sealed and lifetime-lubricated
- Tracks, sealed and greased



Uppercarriage

- Access platforms without protruding parts
- Anti-skid surfaces
- Automatic swing brake lock
- Engine hood with gas spring opening
- Filters accessible from ground level
- Handrails
- Hydraulic oil level, visible from ground level
- Lockable service doors
- Lockable storage and accessories compartment
- Main switch, accessible from ground level
- Main switch, electric, with timer
- Main switch, manual, lockable
- Positioning swing brake manual
- Protection grid on radiator fan
- Sound insulation
- Swing-out radiators
- Tool set including storage case
- Windshield washer fluid tank, accessible from ground level



Hydraulic system

- Dedicated swing circuit
- Filter with integrated fine filters
- Hydraulic pressure measuring ports
- Liebherr Positive Control system with 2 independent circuits
- Magnetic rod
- Pressure accumulator for controlled lowering of equipment with engine turned off



Diesel engine

- Air filter with automatic dust ejector
- Automatic engine idling / speed increase, controlled via joystick sensors
- Common-Rail injection system
- Engine oil level gauge
- Exhaust gas after-treatment system – EGR
- Fixed geometry turbocharger
- Fuel fine filter
- Fuel pre-filter and water separator
- Fuel priming pump
- Intercooler
- Power Pack equivalent to EU Stage IIIA / EPA Tier 3



Cab

- 2" seat belt with retractor
- 9" multifunction colour touchscreen
- Air conditioning, automatic, tri-zone, controlled via display
- Armrests adjustable in length, height and inclination
- Bottle holder
- Cab air filters housing, accessible from ground level
- Cab door sliding windows
- Cigarette lighter
- Coat hook
- Electric socket in cab (24 V)
- Emergency hammer
- Engine coolant level, visible from the cab
- Engine oil level on touchscreen
- Footrest
- Fuel consumption on touchscreen
- Fuel level on touchscreen
- Hydraulic oil level on touchscreen
- Interior lighting
- Laminated right hand side window
- Laminated roof window
- LiDAT Plus (Liebherr data transfer system)
- Mechanical hour meter, visible from ground level
- Mobile phone storage net
- Movement priority between swing and boom, adjustable via touchscreen
- Movement priority for stick-in, adjustable via touchscreen
- Operating modes
- Power modes
- Rain hood over front window opening
- Rearview mirror
- Rear window emergency exit
- Retractable laminated two-piece windscreen
- Roll-down sun blinds for windscreen and roof window
- Rubber floor mat, fixed on floor and removable
- Shortcut buttons on joystick configurable
- Stepless adjustable engine speed
- Storage nets
- Storage spaces
- Swing braking torque adjustable via touchscreen
- Swing drive gearbox oil level, visible from the cab
- Tilttable console left
- Tinted windows
- Visco-elastic damping
- Windscreen wiper and washer



Equipment

- Anti-drift system boom cylinders
- Anti-drift system stick cylinder
- Boom cylinders regeneration
- Pivot points made of cast steel
- SAE split flanges on high pressure lines
- Stick cylinder regeneration

Equipment standard / option

Undercarriage

Chain guide 1 piece	●
Chain guide 2 pieces	+
Chain guide 3 pieces	+
Chain guide 4 pieces	+
Cover and base plate for undercarriage centre section	●
Reinforced cover and base plate for undercarriage centre section	+
Steps	●
Steps wide	+
Track pads triple grouser 600 mm	●
Track pads triple grouser 700 / 800 / 900 mm	+
Undercarriage LC	+

Uppercarriage

Batteries high capacity	+
Batteries standard capacity	●
Centralised lubrication system (automatic)	+
Centralised lubrication system (manual)	●
Counterweight heavy 6.2 t	+
Counterweight standard 5.1 t	●
External starting aid (24 V)	+
Front right rearview mirror	● ¹⁾
Fuel anti-theft protection	+
Headlight on uppercarriage, front right, LED, 1 piece, protection included	● ¹⁾
Headlight on uppercarriage, front right, LED+, 1 piece, protection included	+ ¹⁾
Headlight on uppercarriage, lateral right, LED+, 1 piece	+ ¹⁾
Headlight on uppercarriage, lateral left, LED+, 1 piece	+ ¹⁾
Headlights on uppercarriage, rear, LED+, 2 pieces	+ ¹⁾
Lockable fuel tank cap	●
Lockable fuel tank cap with padlock	+
Lockable storage box	+
Rearview mirror on counterweight	●
Safe uppercarriage side access platform	+
Tank refilling pump fuel	+
Uppercarriage bottom closure sheets	●

Hydraulic system

Filter for hydraulic hammer return flow	+
High pressure circuit flow summation	+
High pressure circuit with Tool Control (20 attachment adjustments on display)	+
Liebherr hydraulic oil	●
Liebherr hydraulic oil, adapted for extreme climate conditions	+
Liebherr hydraulic oil, biodegradable	+
Medium pressure circuit	+

Diesel engine

Air pre-filter with cyclonical dust trap	+
Air pre-filter with oil bath dust trap	+
Preheating fuel	+

Cab

Acoustic travel alarm deactivatable	+
Auxiliary heater programmable	+
Dark tinted windows	+
Electric socket in cab (12 V)	+
Emergency stop in cab	+
FGPS front guard	+
FGPS front guard tiltable	+
FOPS top guard	+
Handrests elevated for joysticks	+
Headlights on cab, front, LED, 2 pieces	● ¹⁾
Headlights on cab, front, LED+, 2 pieces	+ ¹⁾
Luminosity control (LED+ headlights)	+ ¹⁾
Mini-joystick proportional	+
Operator's seat Comfort	+
Operator's seat Standard	●
Overload warning system	+
Radio Comfort	+
Radio pre-installation	●
Rear view monitoring camera	+
Right hand side view monitoring camera	+
Roof window protection grid	+
ROPS safety cab structure (ISO 12117-2)	+
Rotating beacon on cab, LED, 1 piece	+
Sun visor	+
Windscreen bottom protection grid	+

Equipment

Floating boom	+
Headlight on boom, right, LED, 1 piece	● ¹⁾
Headlight on boom, right, LED+, 1 piece	+ ¹⁾
Liebherr bucket range	+
Liebherr tooth system	+
Mono boom 6.20 m	+
Pipe fracture safety valve for stick cylinder	+
Pipe fracture safety valves for boom cylinders	+
Quick coupler SWA 48 hydraulic	+
Quick coupler SWA 48 mechanical	+
Quick coupler SWA 66 hydraulic	+
Quick coupler SWA 66 mechanical	+
Stick 2.50 m	+
Stick 2.80 m	+
Stick 3.20 m	+
Stick 3.70 m	+
Stick bottom protection	+

● = Standard, + = Option

¹⁾ equipment not individually available, but only as predefined packages

Non-exhaustive list, please contact us for further information.

Options and / or special equipment, supplied by vendors other than Liebherr, are only to be installed with the knowledge and approval of Liebherr in order to retain warranty.

The Liebherr Group



Global and independent: more than 75 years of success

Liebherr was founded in 1949 when, with the development of the world's first mobile tower crane, Hans Liebherr laid the foundations for a family-run company which now has more than 55,000 employees and comprises over 150 companies across every continent. The holding company of the Group is Liebherr-International AG in Bulle, Switzerland, whose shareholders are exclusively members of the Liebherr family.

Technology leadership and pioneering spirit

Liebherr is a pioneer and its forward-looking approach has seen it make important contributions to technology history over a wide variety of industries. Employees throughout the world continue to share the courage of the company founder, sharing a passion to produce innovative products and a determination to provide world-leading equipment and machinery.

Diversified product programme

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

Customised solutions and maximum customer value

Liebherr solutions are characterised by precision, implementation and longevity. The company is committed to technological excellence and to providing customers with solutions that match their needs exactly. For Liebherr, customer focus does not end with delivery of a product but continues through a comprehensive range of back-up and support services.

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