
R 930 Litronic

LIEBHERR

Crawler excavator

Generation

7

Operating weight

30,050–32,200 kg

Engine

180 kW / 245 HP

Tier 4 Final

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 that conforms with the US EPA Tier 4 Final exhaust emissions standard
- 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



Engine

Rating per ISO 9249	180 kW (245 HP) at 1,800 RPM
Torque	1,255 Nm at 1,350 RPM
Model	Liebherr D934 A7-25
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	Tier 4 Final DOC + SCR Passive regeneration by thermo management
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
Urea tank	90 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	Proportional via joystick levers
Travel	- 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	max. 475 l
Filtration	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 work 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

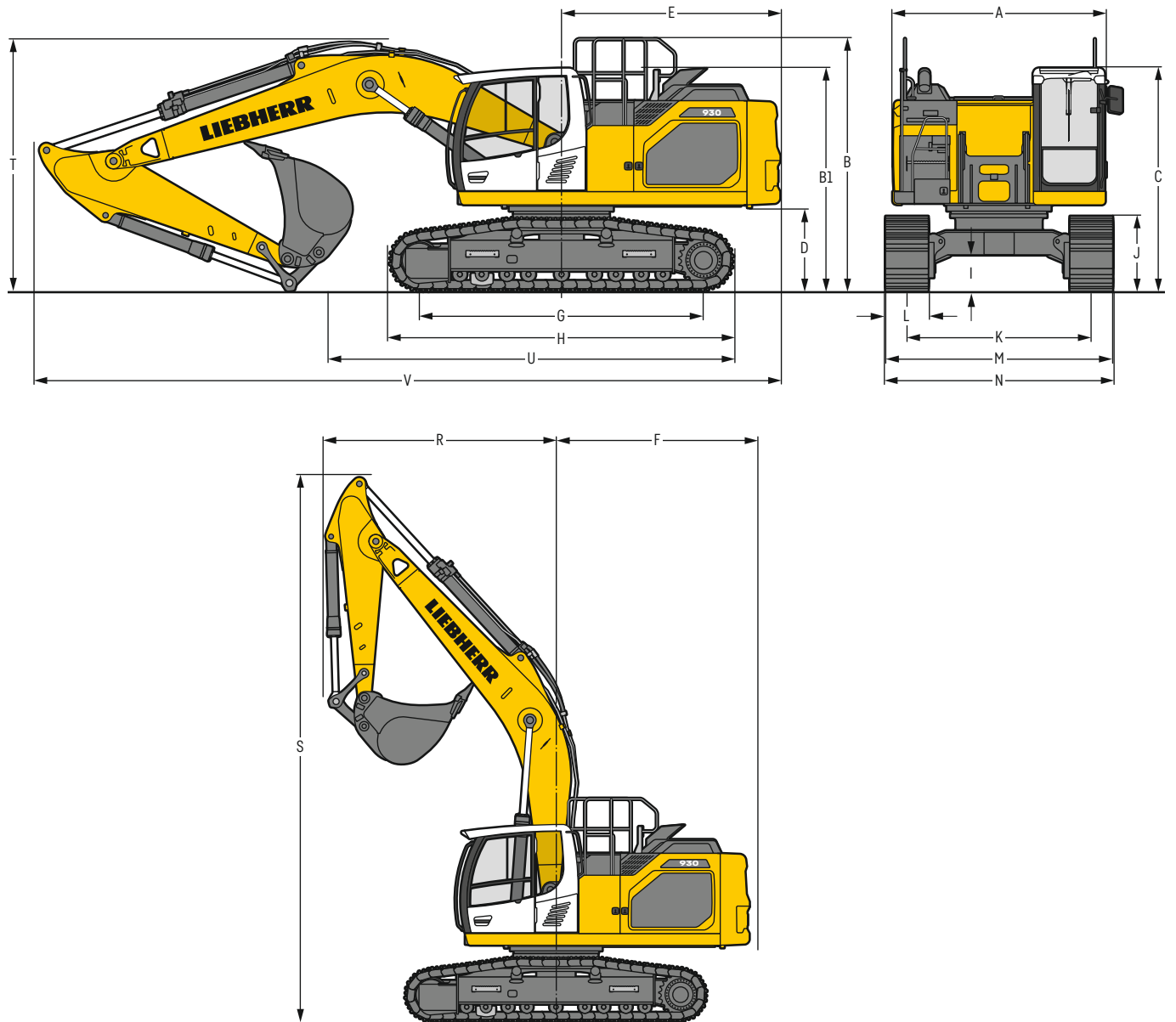
LC	Gauge 2 590 mm
Drive	Liebherr swashplate motor with brake valves on both sides
Transmission	Liebherr planetary reduction gear
Maximum travel speed	3.5 km/h low range 5.8 km/h high range
Drawbar pull on crawler	261 kN
Track components	D7, D7G, maintenance-free
Track rollers / Carrier rollers	9 / 2
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
Buckets	Standard equipped with Liebherr tooth system

Dimensions



		LC	mm			
A	Upper-carriage width		2,990 ²⁾			
B	Upper-carriage height		3,570			
B1	Upper-carriage 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

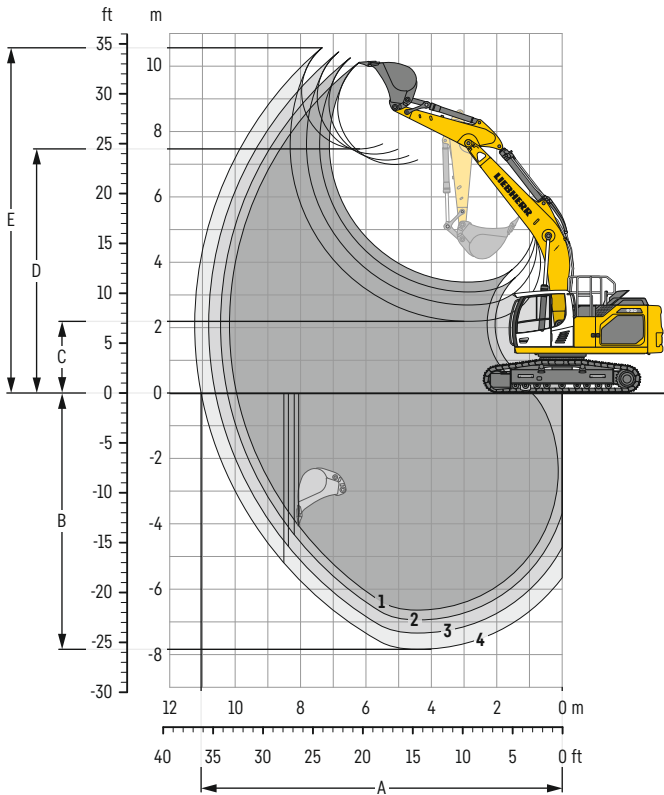
		Mono boom 6.20 m			
		mm			
Pad width		600	700	800	900
Transport width		3,190	3,290	3,390	3,490

		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 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 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

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

	Cutting width mm	Capacity ISO 7451 m ³	Weight ³⁾ kg	Weight ⁴⁾ kg	LC undercarriage (with track pads 600 mm)								
					Stick length (m)								
					without quick coupler				with quick coupler				
	2.50	2.80	3.20	3.70	2.50	2.80	3.20	3.70					
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	▲	■	△	△	▲	■	△	△	△
	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	▲	■	▲	■	■	▲	■	▲	△
	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 bucket with teeth Z 50

²⁾ HD bucket with teeth Z 50

³⁾ Bucket for direct mounting

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

Other 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 m	3.0m		4.5m		6.0m		7.5m		9.0m		m	
9.0												
7.5												
6.0					8.0	9.0*				7.1	8.3*	6.4
4.5					7.9	9.3*				5.6	8.1*	7.5
3.0			11.6	12.8*	7.5	10.2*	5.4	8.1		4.8	7.2	8.1
1.5			10.7	15.3*	7.1	11.2	5.2	7.9		4.4	6.7	8.4
0			10.1	16.5*	6.8	10.8	5.0	7.7		4.3	6.6	8.4
-1.5	13.0*	13.0*	10.0	15.0*	6.6	10.6	4.9	7.6		4.4	6.8	8.2
-3.0	15.9*	15.9*	10.2	12.8*	6.7	9.9*				4.9	7.5	7.6
-4.5			8.7*	8.7*						5.9	8.5*	6.7
-6.0										7.4*	7.4*	5.2

Stick 2.80 m

Under-carriage m	3.0m		4.5m		6.0m		7.5m		9.0m		m		
9.0													
7.5													
6.0					8.1	8.5*					6.6	7.3*	6.8
4.5	18.5*	18.5*	11.7	12.2*	7.9	8.9*	5.5	8.2*		5.2	7.1*	7.8	
3.0			10.8	14.7*	7.6	9.8*	5.4	8.1		4.5	6.8	8.4	
1.5			10.1	16.2*	6.8	10.8	5.0	7.7		4.2	6.4	8.6	
0			9.9	16.3*	6.6	10.6	4.9	7.6		4.1	6.2	8.7	
-1.5	12.5*	12.5*	9.9	15.3*	6.5	10.5	4.9	7.6		4.2	6.4	8.4	
-3.0	17.1*	17.1*	10.0	13.4*	6.6	10.3*				4.6	7.0	7.9	
-4.5	12.1*	12.1*	9.7*	9.7*						5.4	8.3*	7.0	
-6.0										7.6*	7.6*	5.6	

Stick 3.20 m

Under-carriage m	3.0m		4.5m		6.0m		7.5m		9.0m		m	
9.0										6.9*	6.9*	5.8
7.5										5.9	6.3*	7.2
6.0					8.0	8.4*	5.6	7.8*		4.8	6.1*	8.2
4.5			11.4*	11.4*	7.6	9.3*	5.4	8.2		4.2	6.2*	8.7
3.0			11.0	14.0*	7.2	10.5*	5.2	7.9	3.9	6.0	9.0	9.0
1.5			10.2	15.8*	6.8	10.8	5.0	7.7	3.8	5.9	3.8	5.8
0	6.5*	6.5*	9.8	16.3*	6.6	10.5	4.8	7.5		3.9	6.0	8.8
-1.5	12.0*	12.0*	9.8	15.7*	6.5	10.4	4.8	7.5		4.2	6.5	8.3
-3.0	18.6*	18.6*	9.9	14.0*	6.5	10.5				4.9	7.6	7.5
-4.5	14.0*	14.0*	10.2	10.9*	6.7	8.0*				6.5	7.6*	6.2
-6.0												

Stick 3.70 m

Under-carriage m	3.0m		4.5m		6.0m		7.5m		9.0m		m		
9.0											5.7*	5.7*	6.5
7.5							5.7	6.0*			5.3*	5.3*	7.8
6.0							5.6	7.3*			4.4	5.1*	8.6
4.5					7.7	8.7*	5.5	7.8*	4.0	5.9*	3.9	5.2*	9.2
3.0	11.4*	11.4*	11.2	13.1*	7.3	10.0*	5.2	8.0	3.9	6.0	3.6	5.4*	9.4
1.5			10.3	15.3*	6.8	10.9	5.0	7.7	3.8	5.8	3.5	5.4	9.5
0	7.6*	7.6*	9.9	16.2*	6.5	10.5	4.8	7.5	3.7	5.8	3.6	5.5	9.2
-1.5	11.6*	11.6*	9.7	15.9*	6.4	10.3	4.7	7.4			3.8	5.9	8.8
-3.0	17.0*	17.0*	9.7	14.6*	6.4	10.3	4.7	7.4			4.4	6.8	8.0
-4.5	16.1*	16.1*	10.0	12.1*	6.5	9.1*					5.6	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.

Lift capacities

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

Stick 2.50 m

Under-carriage m	3.0m		4.5m		6.0m		7.5m		9.0m		m	
9.0												
7.5												
6.0					8.8	9.0*				7.8	8.3*	6.4
4.5					8.6	9.3*				6.1	8.1*	7.5
3.0			12.7	12.8*	8.3	10.2*	6.0	8.8*		5.3	7.9	8.1
1.5			11.8	15.3*	7.9	11.2*	5.8	8.6		4.9	7.3	8.4
0			11.2	16.5*	7.6	11.8	5.6	8.5		4.8	7.2	8.4
-1.5	13.0*	13.0*	11.1	15.0*	7.4	11.5	5.5	8.3		4.9	7.4	8.2
-3.0	15.9*	15.9*	11.3	12.8*	7.5	9.9*				5.4	8.2	7.6
-4.5			8.7*	8.7*						6.5	8.5*	6.7
-6.0										7.4*	7.4*	5.2

Stick 2.80 m

Under-carriage m	3.0m		4.5m		6.0m		7.5m		9.0m		m			
9.0														
7.5														
6.0					8.5*	8.5*					7.2	7.3*	6.8	
4.5					8.7	8.9*	6.1	8.2*			5.8	7.1*	7.8	
3.0			18.5*	18.5*	12.2*	12.2*	8.3	9.8*	6.0	8.6*		5.0	7.2*	8.4
1.5					11.9	14.7*	7.9	11.0*	5.8	8.6		4.7	7.0	8.6
0					11.3	16.2*	7.6	11.8	5.6	8.4		4.6	6.8	8.7
-1.5	12.5*	12.5*	11.0	15.3*	7.3	11.5	5.4	8.3				4.7	7.0	8.4
-3.0	17.1*	17.1*	11.1	13.4*	7.4	10.3*						5.1	7.7	7.9
-4.5			12.1*	12.1*	9.7*	9.7*						6.0	8.3*	7.0
-6.0												7.6*	7.6*	5.6

Stick 3.20 m

Under-carriage m	3.0m		4.5m		6.0m		7.5m		9.0m		m		
9.0													
7.5													
6.0					8.4*	8.4*	6.1	7.8*			6.9*	6.9*	5.8
4.5					6.3*	6.3*					6.3*	6.3*	7.2
3.0			11.4*	11.4*	8.4	9.3*	6.0	8.2*			5.3	6.1*	8.2
1.5			12.1	14.0*	7.9	10.5*	5.8	8.6	4.4	6.5*	4.7	6.2*	8.7
0			11.3	15.8*	7.6	11.6*	5.6	8.4	4.3	6.4	4.4	6.4*	9.0
-1.5	6.5*	6.5*	11.0	16.3*	7.3	11.5	5.4	8.2			4.3	6.4	9.0
-3.0	12.0*	12.0*	10.9	15.7*	7.2	11.4	5.3	8.2			4.4	6.6	8.8
-4.5	18.6*	18.6*	11.0	14.0*	7.3	10.7*					4.7	7.1	8.3
-6.0	14.0*	14.0*	10.9*	10.9*	7.5	8.0*					5.5	8.0*	7.5
											7.2	7.6*	6.2

Stick 3.70 m

Under-carriage m	3.0m		4.5m		6.0m		7.5m		9.0m		m		
9.0													
7.5													
6.0							6.0*	6.0*			5.7*	5.7*	6.5
4.5							6.2	7.3*			5.3*	5.3*	7.8
3.0			11.4*	11.4*	8.5	8.7*	6.0	7.8*	4.5	5.9*	4.3	5.2*	9.2
1.5			12.3	13.1*	8.0	10.0*	5.8	8.4*	4.4	6.5	4.1	5.4*	9.4
0			11.4	15.3*	7.6	11.2*	5.5	8.4	4.3	6.4	4.0	5.8*	9.5
-1.5	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
-3.0	11.6*	11.6*	10.8	15.9*	7.1	11.3	5.3	8.1			4.3	6.5	8.8
-4.5	17.0*	17.0*	10.8	14.6*	7.1	11.1*	5.3	8.1			4.9	7.5	8.0
-6.0	16.1*	16.1*	11.1	12.1*	7.3	9.1*					6.2	7.6*	6.8
			7.1*	7.1*							6.5*	6.5*	4.9

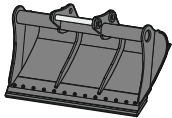
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach * Limited by hydr. capacity

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.

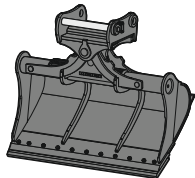
Attachments



Rigid ditch cleaning bucket

GRL 05, for mounting to quick coupler SWA 66

Cutting width	mm	2,000	2,400	2,400
Capacity	m ³	0.70	0.85	1.25
Weight	kg	546	635	685



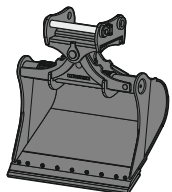
Tiltable ditch cleaning bucket

GRL 100, 2 x 50° tiltable, for direct mounting

Cutting width	mm	2,000	2,000	2,200	2,400	2,400
Capacity	m ³	1.20	1.45	1.65	0.85	1.45
Weight	kg	1,520	1,600	1,680	1,475	1,620

GRL 100, 2 x 50° tiltable, for mounting to quick coupler SWA 66

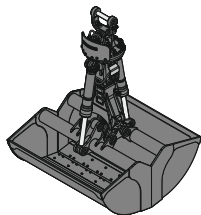
Cutting width	mm	2,000	2,000	2,200	2,400	2,400
Capacity	m ³	1.20	1.45	1.65	0.85	1.45
Weight	kg	1,520	1,600	1,680	1,475	1,620



Tilt bucket

SL 100, 2 x 50° tiltable, for mounting to quick coupler SWA 66

Cutting width	mm	1,600	1,600	1,700	1,800
Capacity	m ³	1.45	1.75	1.85	1.60
Weight	kg	1,520	1,635	1,695	1,620
HD version				X	



Clamshell grab

GMZ 30, clamshell buckets, for mounting to quick coupler SWA 48 (exists for direct mounting)

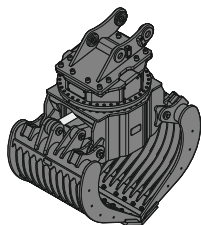
Cutting width	mm	600	800	1,000	1,200
Capacity	m ³	0.38	0.52	0.65	0.80
Weight	kg	1,020	1,100	1,180	1,260

GMZ 40, clamshell buckets, for mounting to quick coupler SWA 48 (exists for direct mounting)

Cutting width	mm	800	1,000	1,200	1,400	1,600
Capacity	m ³	0.65	0.85	1.05	1.20	1.40
Weight	kg	1,320	1,405	1,495	1,580	1,670

GMZ 80, clamshell buckets, for mounting to quick coupler SWA 66

Cutting width	mm	1,200	1,200	1,400	1,400	1,650	1,650	2,000	2,000
Capacity	m ³	1.40	1.40	1.70	1.70	2.00	2.00	2.50	2.50
Weight	kg	2,170	2,130	2,275	2,225	2,415	2,345	2,595	2,520



Sorting grab

		perforated			ribbed			closed			stone tong
SG 30, for direct mounting											
Cutting width	mm	1,000	1,200	1,400	1,000	1,200	1,400	1,000	1,200	1,400	1,020
Capacity	m ³	0.85	1.00	1.15	0.75	0.90	1.05	0.85	1.00	1.15	0.85
Weight	kg	1,485	1,560	1,635	1,565	1,675	1,780	1,730	1,810	1,890	1,765
SG 30, for mounting to quick coupler SWA 48											
Cutting width	mm	1,000	1,200	1,400	1,000	1,200	1,400	1,000	1,200	1,400	1,020
Capacity	m ³	0.85	1.00	1.15	0.75	0.90	1.05	0.85	1.00	1.15	0.85
Weight	kg	1,485	1,560	1,635	1,565	1,675	1,780	1,730	1,810	1,890	1,765
SG 40, for mounting to quick coupler SWA 48 and SWA 66											
Cutting width	mm	1,100	1,300		1,100	1,300					
Capacity	m ³	1.30	1.60		1.10	1.40					
Weight	kg	2,230	2,800		2,320	2,900					

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
DEF tank filling indicator
DEF tank lockable access hatch
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

Engine

Air filter with automatic dust ejector
Automatic engine idling / speed increase, controlled via joystick sensors
Common-Rail injection system
Engine oil dipstick
Exhaust gas after-treatment system – SCR
Fixed geometry turbocharger
Fuel fine filter
Fuel pre-filter and water separator
Fuel priming pump
Intercooler
Power Pack US EPA Tier 4 Final

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
DEF consumption on touchscreen
DEF level on touchscreen
Electric socket in cabin (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
Shortkey 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 (24V)	+
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	+

Engine

Air pre-filter with cyclonical dust trap	+
Air pre-filter with oil bath dust trap	+
Pre-heating system for fuel	+

Cab

Acoustic travel alarm deactivatable	+
Auxiliary heater programmable	+
Dark tinted windows	+
Electric socket in cabin (12V)	+
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 seat Comfort	+
Operator 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 cabin, 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 70 years of success

Liebherr was founded in 1949 when, with the development of the world's first mobile tower crane, Hans Liebherr laid the foundations for a family business now employing nearly 51,000 people and comprising over 140 companies across every continent.

The parent company is Liebherr-International AG in Bulle, Switzerland, whose associates are exclusively members of the Liebherr family.

Leaders and pioneers

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

Diversified portfolio

The company is one of the world's biggest construction equipment manufacturers and provides high-quality, user-oriented products and services to sectors including: earthmoving, material handling, deep foundations, mining, mobile and crawler cranes, tower cranes, concrete production and distribution, maritime cranes, aerospace and transportation, gear technology and automation, refrigeration and freezing, components and hotels.

Customised care

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. That 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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