



A 918 E Litronic

LIEBHERR

Battery-electric wheeled excavator



Generation
8

Operating weight
17,900–19,700 kg

Engine
120 kW
Electric

Battery capacity
194 / 290 kWh

Bucket capacity
0.17–1.05 m³

Battery-electric wheeled excavators at a glance

Innovative cab design meets intuitive controls

- Newly developed cab with advanced intuitive operating and dual display concept INTUSI
 - 10" main display and haptic user feedback
 - 3.5" display with additional user interface for prio functions
- Smart functions such as personalisable operation and advanced hot-key navigation
- Integration of assistance systems in a user interface
- Intuitive control and feedback logic
- Customisable joystick configurations
- Proportional control with 4-way mini-joystick
- Large glass surfaces for a more direct view of the work area
- More legroom thanks to longer cab
- Convenient radio operation with hands-free system
- Automatic air conditioning (as standard)
- Powerful LED headlights (as standard)
- Joystick steering (optional)
- Comfort/Premium operator's seat (optional)
- Top and front protective guards, foldable (optional)

Optimally designed and laid out equipment for maximum reliability

- Various boom versions and stick lengths
- Liebherr hydraulic cylinders
- Pipe fracture safety valves for hoist and stick cylinders
- Overload warning system (as standard)
- Ride control (optional)
- Liebherr quick coupling systems (optional)
- Wide selection of Liebherr attachments (optional)





Sustainable technology for highest economy

- Zero-emission electric motor
- Smart energy management system
- Load sensing control
- Selection of different operating modes (Sensitive, ECO, Power, Power-Plus)
- Quiet operation
- Reduced maintenance requirements

Sophisticated maintenance concept for maximum productivity

- Fully automatic central lubrication system for upper-carriage and equipment
- Large, wide-opening service doors
- Central maintenance points, including air filter and wiper water on the cab, easily accessible from the ground

Perfect combination for maximum performance

- Different stabilization variants available, welded on
- Liebherr tyres without intermediate ring
- Travel drive integrated in undercarriage
- Automatic digging brake

Next-generation assistance systems

- Seamless bird's eye view of the machine environment with Skyview 360°
- Higher productivity through precise control of the working plane with 2D machine control
- More comfortable working in confined spaces with the Advanced working envelope limitation
- MiC 4.0 BUS enables cross-manufacturer communication between construction machines and attachments



Technical data



Electric motor

Rating	120 kW at 2,050 RPM
Model	Parker GVM310-200
Type	Permanent magnet motor (PMAC)
Engine idling	Sensor controlled
Electrical system	
Alternator	DC-DC converter 29 V / 270 A



Battery

High-voltage system	
Battery type	Lithium Ionen (NMC)
Battery voltage	795 V
Battery capacity	194 kWh / 290 kWh
Reference value for running time ¹⁾	~ 5.5 h / ~ 8 h
Emission stage	Zero-emission
Charging infrastructure / charging times for internal charger, 10–90%	
DC charging socket	CCS2
DC rapid charging (up to 150 kW) ²⁾	0.9 h / 1.3 h
AC charging socket	CEE 63 A / MARECHAL 63 A
400 V / 16 A (11 kW)	Intended for a trickle charge
400 V / 32 A (22 kW)	7.5 h / 11.2 h
400 V / 63 A (44 kW)	3.5 h / 5.2 h
Low-voltage system	
Operating voltage	24 V
Capacity	2 x 145 Ah



Cooling system

Electric motor	Cooling system for drive components with an infinitely variable electrically controlled fan
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Hydraulic controls

Power distribution	Via control valves with integrated safety valves, simultaneous and independent actuation of chassis, swing drive and equipment
Servo circuit	
Equipment and swing	With electro-hydraulic pilot control and proportional joystick levers
Chassis	Electro-proportional via foot pedal
Additional functions	Via switch or electro-proportional foot pedals
Proportional control	Proportionally acting transmitters on the joysticks for additional hydraulic functions



Hydraulic system

Hydraulic pump	
For equipment and travel drive	Liebherr axial piston variable displacement pump
Max. flow	285 l/min.
Max. pressure	350 bar / PowerLift 375 bar
Hydraulic pump regulation and control	Liebherr-Synchron-Comfort-system (LSC) with electronic engine speed sensing regulation, pressure and flow compensation, torque controlled swing drive priority
Hydraulic tank	93 l
Hydraulic system	max. 300 l
Filtration	1 main return filter with integrated partial micro filtration (10 µm)
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
S (Sensitive)	Mode for precision work and lifting through very sensitive movements
E (Eco)	Mode for especially economical and environmentally friendly operation
P (Power)	Mode for high performance with low energy consumption
P+ (Power-Plus)	Mode for highest performance and for very heavy duty applications, suitable for continuous operation
Engine speed and performance setting	Stepless alignment of engine output and hydraulic power via engine speed
Option	Tool Control: 20 pre-adjustable pump flows and pressures for add-on attachments



Swing drive

Drive	Parker permanent magnet motor (PMAC) with speed control, Liebherr planetary reduction gear
Swing ring	Liebherr, sealed race ball bearing swing ring, internal teeth
Swing speed	0–10.0 RPM stepless
Swing torque	54 kNm
Holding brake	Wet multi-disc (spring applied, pressure released)
Option	Positioning swing brake automatic and manual Positioning swing brake automatic

¹⁾ depending on use, machine configuration and ambient conditions

²⁾ optional



Cab

Cab	ROPS safety cab structure (roll-over protection system) with individual windscreens or featuring a slide-in subpart under the ceiling, headlights integrated in the ceiling, a door with a sliding window, large stowing and depositing possibilities, shock-absorbing suspension, sound damping insulating, laminated safety glass, separate window shades for the sunroof window and windscreen
Operator's seat Comfort	Air cushioned operator's seat with 3D-adjustable armrests, headrest, lap belt, seat heater (2-stage), adjustable seat cushion inclination and length, lockable horizontal suspension, automatic weight adjustment, pneumatic low frequency suspension, adjustable suspension stiffness, pneumatic lumbar vertebrae support and passive seat climatisation with active coal
Operator's seat Premium (Option)	In addition to operator's seat Comfort: active electronic weight adjustment (automatic readjustment) and active seat climatisation with active coal and ventilator
Arm consoles	Joysticks with control consoles attached to the seat, folding left control console
Operation and displays	Large high-resolution operating unit, intuitive, colour display with touchscreen, haptic feedback, 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 (country-dependent)
Refrigerant	R134a
Global warming potential	1.430
Quantity at 25 °C	1.600 g
CO ₂ equivalent	2,299 t
Vibration emission*	
Hand / arm vibrations	< 2,5 m/s ²
Whole-body vibrations	< 0,5 m/s ²
Measuring inaccuracy	According with standard EN 12096:1997



Undercarriage

Drive	Oversized two speed power shift transmission with additional creeper speed, Liebherr axial piston motor with functional brake valve on both sides
Pulling force	127 kN
Travel speed	0- 3.5 km/h stepless (creeper speed off-road) 0- 7.0 km/h stepless (off-road) 0-13.0 km/h stepless (creeper speed on-road) 0-20.0 km/h stepless (road travel)
Driving operation	Automotive driving using accelerator pedal, cruise control function: storage of variable accelerator pedal positions, both off-road and on-road
Axles	Manual or automatic hydraulically controlled front axle oscillation lock
Service brake	Two circuit travel brake system with accumulator; wet and backlash-free disc brake
Automatic digging brake	Works automatically when driving off (accelerator pedal actuation) and when the machine is stationary (engagement); the digging brake engages automatically - can be coupled with automatic swing axle lock
Holding brake	Wet multi-disc (spring applied, pressure released)
Stabilization	Rear stabilizer blade (adjustable during travel for dozing) Rear outriggers + front stabilizer blade
Option	EW undercarriage 2.75 m / 9'



Equipment

Type	High-strength steel plates at highly-stressed points for the toughest requirements. Complex and stable mountings of equipment and cylinders
Hydraulic cylinders	Liebherr cylinders with special sealing and guide system and, depending on cylinder type, shock absorption
Bearings	Sealed, low maintenance

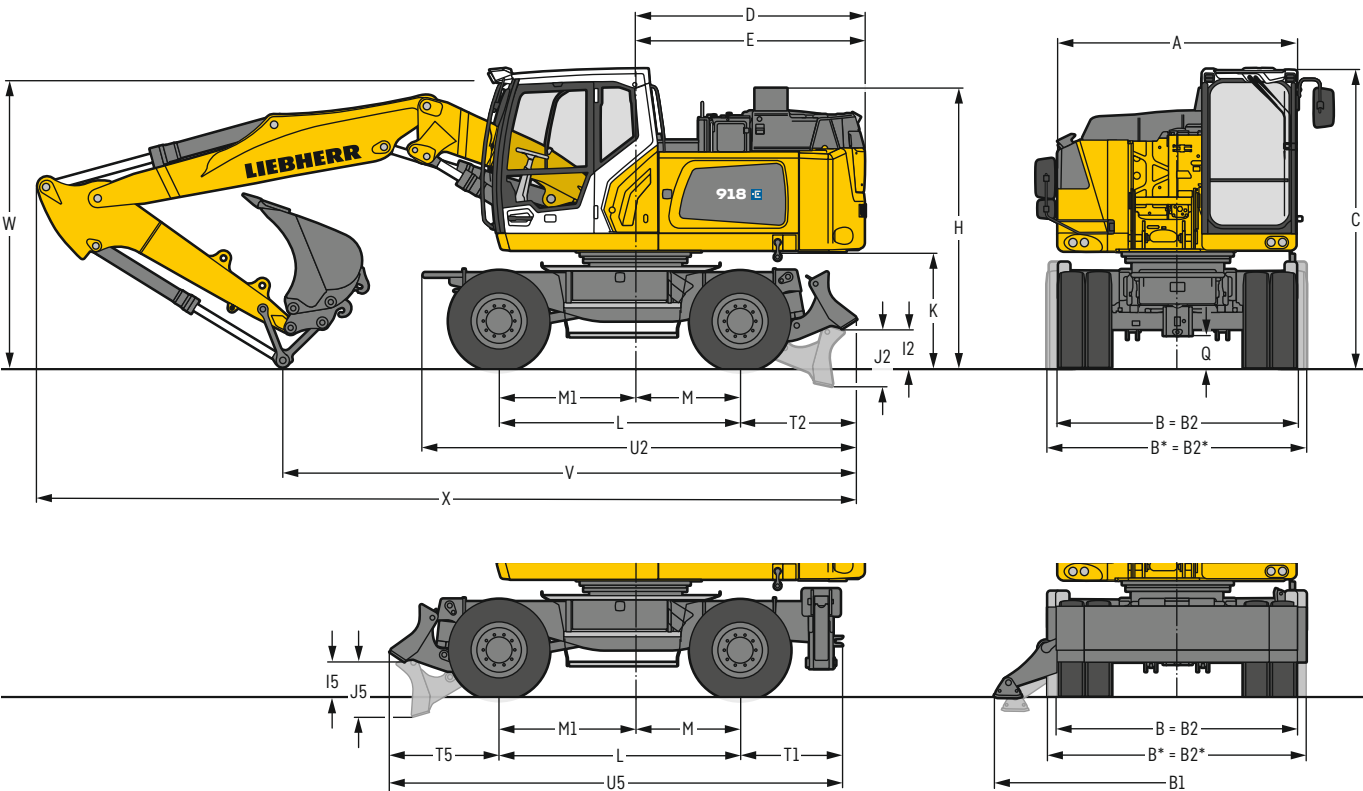


Complete machine

Lubrication	Liebherr central lubrication system for uppercarriage and equipment, automatically
Noise emission	
ISO 6396	63 dB(A) = L _{PA} (inside cab)
2000/14/EC	95 dB(A) = L _{WA} (surround noise)

* for risk assessment according to 2002/44/EC see ISO/TR 25398:2006

Dimensions



	mm
A	2,525
B	2,540
B*	2,710
B1	3,695
B2	2,540
B2*	2,750
C	3,160
D	2,410
E	2,410
H	2,945
I2	410
I5	370
J2	605
J5	580
K	1,205
L	2,540
M	1,100
M1	1,440
Q	340
T1	1,047
T2	1,230
T5	1,155
U2	4,575
U5	4,765

* EW undercarriage

E = Tail radius

Tyres 290/90-20

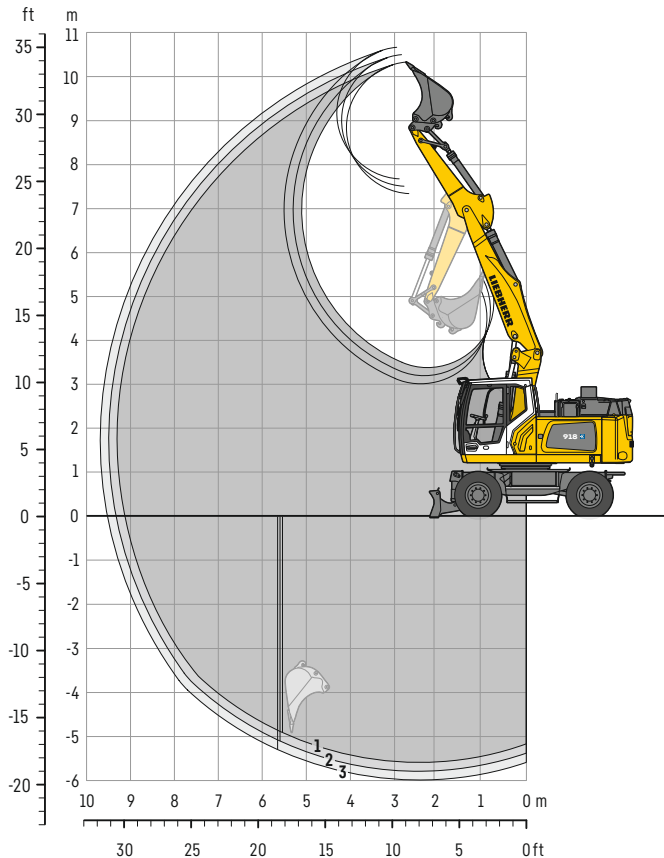
	Stick	Two-piece boom 5.25 m	
		Rear blade	Rear outriggers + front blade
	m	mm	mm
V	2.25	6,400	6,400
	2.45	6,150	6,150
	2.65	6,050	6,050
W	2.25	3,050	3,050
	2.45	3,050	3,050
	2.65	3,100	3,100
X	2.25	8,750	8,750
	2.45	8,750	8,750
	2.65	8,750	8,750

Dimensions are with equipment over steering axle

W = Max. ground clearance including approx. 150mm piping

Backhoe bucket

with two-piece boom 5.25 m



Digging envelope

with quick coupler		1	2	3
Stick length	m	2.25	2.45	2.65
Max. digging depth	m	5.55	5.75	5.95
Max. reach at ground level	m	9.10	9.30	9.50
Max. dumping height	m	7.35	7.50	7.65
Max. teeth height	m	10.30	10.50	10.65
Min. equipment radius	m	2.68	2.76	2.83

Digging forces

without quick coupler with PowerLift function		1	2	3
Max. digging force (ISO 6015)	kN	89.4	83.7	78.7
	t	9.1	8.5	8.0
Max. breakout force (ISO 6015)	kN	103.2	103.2	103.2
	t	10.5	10.5	10.5

Max. breakout force with ripper bucket

136.4 kN (13.9t)

Operating weight

The operating weight includes the basic machine with 8 tyres, two-piece boom 5.25 m, stick 2.45 m, quick coupler SWA 33 and backhoe bucket 1,050 mm / 0.80 m³.

Undercarriage versions	Weight (kg)
A 918 E Litronic with rear blade	17,900
A 918 E Litronic with rear outriggers + front blade	19,000
A 918 E EW Litronic with rear blade	18,000
A 918 E EW Litronic with rear outriggers + front blade	19,100

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

Cutting width mm	Capacity ISO 7451 ¹⁾ m ³	Weight kg	Stabilizers raised			Rear blade down			Rear outriggers + front blade down			EW Stabilizers raised			EW Rear blade down			EW Rear outriggers + front blade down		
			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)		
			2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65
500 ²⁾	0.30	300	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
650 ²⁾	0.42	350	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
850 ²⁾	0.60	410	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050 ²⁾	0.80	490	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,250 ²⁾	0.95	530	△	△	△	■	■	■	■	■	■	■	■	△	■	■	■	■	■	■
500 ³⁾	0.30	330	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
650 ³⁾	0.42	390	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
850 ³⁾	0.60	460	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050 ³⁾	0.80	550	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,250 ³⁾	0.95	600	△	△	△	■	■	△	■	■	■	■	■	△	■	■	■	■	■	■
500 ⁴⁾	0.32	310	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
650 ⁴⁾	0.45	330	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
850 ⁴⁾	0.65	430	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050 ⁴⁾	0.85	520	■	■	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,250 ⁴⁾	1.05	570	△	△	—	△	△	△	■	■	■	△	△	△	■	■	■	■	■	■

* indicated loads are based on ISO 10567 and do not exceed 75% of tipping or 87% of hydraulic capacity, max. stick length without quick coupler, lifted 360° on firm with blocked oscillating axle

¹⁾ comparable with SAE (heaped)

²⁾ backhoe bucket with teeth ³⁾ backhoe bucket with teeth in HD version ⁴⁾ backhoe bucket with cutting edge (also available in HD version)

Backhoe buckets with 500 mm cutting width with limited digging depth

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

Lift capacities

with two-piece boom 5.25 m

Stick 2.25 m

m	Undercarriage stabilized		3.0 m		4.5 m		6.0 m		7.5 m		m
	rear	front									
9.0	Blade	-									5.4
	Outriggers	Blade									
7.5	Blade	-			4.5*	4.5*			2.6*	2.6*	6.7
	Outriggers	Blade			4.5*	4.5*			2.6*	2.6*	
6.0	Blade	-			4.8	5.3*	3.0	4.4*	2.3*	2.3*	7.5
	Outriggers	Blade			5.3*	5.3*	4.4*	4.4*	2.3*	2.3*	
4.5	Blade	-	7.7*	7.7*	4.7	7.0*	3.1	4.8	1.9	2.3*	7.9
	Outriggers	Blade	7.7*	7.7*	5.2	7.0*	3.4	5.8*	2.2	2.3*	
3.0	Blade	-	8.2	12.6*	4.6	7.1	3.0	4.7	1.9	3.2	8.0
	Outriggers	Blade	9.0	12.6*	5.0	8.3*	3.3	6.3*	2.1	4.4*	
1.5	Blade	-	8.0	12.6*	7.3	8.3*	4.9	6.3*	3.3	4.4*	7.8
	Outriggers	Blade	8.0	12.5*	4.5	7.0	2.9	4.7	1.9	3.1	
0	Blade	-	8.9	12.5*	5.0	9.2*	3.2	6.6	2.1	4.6	7.3
	Outriggers	Blade	12.5*	12.5*	7.2	9.2*	4.8	6.7*	3.2	5.3*	
-1.5	Blade	-	7.6	13.6	4.3	7.1	2.7	4.5	1.8	3.0	6.3
	Outriggers	Blade	8.6	14.1*	4.7	9.3*	3.0	6.6	2.0	4.6	
-3.0	Blade	-	13.9	14.1*	7.3	9.3*	4.6	6.7*	3.1	5.1*	3.9
	Outriggers	Blade	7.3	13.8	4.1	6.9	2.5	4.3	1.8	3.1	
-4.5	Blade	-	8.2	15.1*	4.5	9.4*	2.8	6.6	2.0	3.4*	6.0
	Outriggers	Blade	14.2	15.1*	7.1	9.4*	4.4	6.8*	3.2	3.4*	
	Blade	-	7.2	13.7	3.8	6.6	2.4	4.2	2.2	3.8	7.2
	Outriggers	Blade	8.1	15.6*	4.2	9.2*	2.7	5.0*	2.5	3.9*	
	Blade	-	14.2	15.5*	6.8	9.2*	4.3	5.0*	3.8*	3.8*	4.5
	Outriggers	Blade									

Stick 2.45 m

m	Undercarriage stabilized		3.0 m		4.5 m		6.0 m		7.5 m		m
	rear	front									
9.0	Blade	-									3.4
	Outriggers	Blade									
7.5	Blade	-			4.4*	4.4*					5.7
	Outriggers	Blade			4.4*	4.4*					
6.0	Blade	-			4.8	4.8*	3.0	4.3*			7.0
	Outriggers	Blade			4.8*	4.8*	4.3*	4.3*			
4.5	Blade	-	6.2*	6.2*	4.7	6.2*	3.1	4.8	2.0	3.0*	7.7
	Outriggers	Blade	6.2*	6.2*	5.2	6.2*	3.4	5.5*	2.2	3.0*	
3.0	Blade	-	8.2	12.8*	4.5	7.1	3.1	4.7	2.0	3.2	8.1
	Outriggers	Blade	9.1	12.8*	5.0	8.1*	3.4	6.2*	2.2	4.5*	
1.5	Blade	-	8.0	12.4*	4.5	7.0	3.0	4.7	1.9	3.1	8.2
	Outriggers	Blade	8.8	12.4*	4.9	9.1*	3.2	6.6	2.1	4.7	
0	Blade	-	12.4*	12.4*	7.2	9.1*	4.8	6.6*	3.2	5.2*	8.0
	Outriggers	Blade	7.7	13.5	4.3	7.1	2.8	4.5	1.8	3.0	
-1.5	Blade	-	8.7	13.8*	4.7	9.3*	3.1	6.6	2.0	4.6	7.5
	Outriggers	Blade	13.8*	13.8*	7.2	9.3*	4.6	6.7*	3.1	5.1*	
-3.0	Blade	-	7.3	13.8	4.1	6.9	2.5	4.3	1.7	3.0	6.6
	Outriggers	Blade	8.2	15.1*	4.5	9.4*	2.8	6.6	1.9	3.0*	
-4.5	Blade	-	14.1	15.1*	7.1	9.4*	4.4	6.8*	3.0*	3.0*	3.6
	Outriggers	Blade	7.1	13.7	3.8	6.6	2.4	4.1	2.1	3.6	
	Blade	-	8.1	15.5*	4.2	9.4*	2.7	5.5*	2.3	3.8*	4.5
	Outriggers	Blade	14.1	15.5*	6.8	9.4*	4.3	5.5*	3.7	3.8*	
	Blade	-	6.9	10.2*					5.1	7.5*	3.6
	Outriggers	Blade	7.9	10.2*					5.7	7.5*	
	Blade	-	10.2*	10.2*					7.5*	7.5*	
	Outriggers	Blade									

Stick 2.65 m

m	Undercarriage stabilized		3.0 m		4.5 m		6.0 m		7.5 m		m
	rear	front									
9.0	Blade	-									3.9
	Outriggers	Blade									
7.5	Blade	-			4.2*	4.2*	2.2*	2.2*			6.0
	Outriggers	Blade			4.2*	4.2*	2.2*	2.2*			
6.0	Blade	-			4.5*	4.5*	3.1	4.1*			7.2
	Outriggers	Blade			4.5*	4.5*	3.4	4.1*			
4.5	Blade	-			4.7	5.5*	3.1	4.8	2.0	3.2	7.9
	Outriggers	Blade			5.2	5.5*	3.4	5.1*	2.2	3.3*	
3.0	Blade	-	8.2	12.5*	4.5	7.1	3.0	4.7	2.0	3.2	8.3
	Outriggers	Blade	9.1	12.5*	5.0	7.9*	3.4	6.1*	2.2	4.6*	
1.5	Blade	-	12.5*	12.5*	7.3	7.9*	4.8	6.1*	3.3	4.6*	8.4
	Outriggers	Blade	7.9	12.3*	4.4	7.0	3.0	4.7	1.9	3.2	
0	Blade	-	8.8	12.3*	4.9	9.0*	3.3	6.5*	2.1	4.7	8.2
	Outriggers	Blade	12.3*	12.3*	7.2	9.0*	4.8	6.5*	3.3	5.2*	
-1.5	Blade	-	7.7	13.4	4.3	7.0	2.8	4.5	1.8	3.1	7.7
	Outriggers	Blade	8.7	13.5*	4.8	9.2*	3.1	6.5	2.0	4.6	
-3.0	Blade	-	13.5*	13.5*	7.2	9.2*	4.7	6.7*	3.2	5.2*	6.8
	Outriggers	Blade	7.3	13.7	4.0	6.9	2.6	4.3	1.7	3.0	
-4.5	Blade	-	8.2	14.9*	4.5	9.3*	2.9	6.6	1.9	4.4*	4.5
	Outriggers	Blade	14.0	14.9*	7.1	9.3*	4.4	6.8*	3.1	4.4*	
	Blade	-	7.1	13.6	3.8	6.6	2.4	4.1	1.9	3.4	4.5
	Outriggers	Blade	8.1	15.4*	4.3	9.5*	2.7	5.9*	2.2	3.6*	
	Blade	-	14.1	15.4*	6.8	9.5*	4.3	5.9*	3.5	3.6*	
	Outriggers	Blade	6.9	11.6*					3.7	5.8*	
	Blade	-	7.8	11.6*					4.2	5.8*	
	Outriggers	Blade	11.6*	11.6*					5.8*	5.8*	

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

The lift capacities with PowerLift function on the load hook of the Liebherr quick coupler SWA 33 without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (±15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. The values apply when the adjusting cylinder is in the optimal position. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity, or are limited by the permissible load of the load hook on the quick coupler (max. 5t). Without the quick coupler, lift capacities will increase by up to 110 kg.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

Lift capacities

with two-piece boom 5.25 m, EW undercarriage

Stick 2.25 m

m	Undercarriage stabilized		3.0 m		4.5 m		6.0 m		7.5 m		m
	rear	front									
9.0	Blade	-									5.4
	Outriggers	Blade									
7.5	Blade	-			4.5*	4.5*				2.6*	6.7
	Outriggers	Blade			4.5*	4.5*				2.6*	
6.0	Blade	-			5.2*	5.3*	3.3	4.4*		2.3*	7.5
	Outriggers	Blade			5.3*	5.3*	3.6	4.4*		2.3*	
4.5	Blade	-	7.7*	7.7*	5.1	7.0*	3.3	4.8	2.1	2.3*	7.9
	Outriggers	Blade	7.7*	7.7*	5.6	7.0*	3.7	5.8*	2.3*	2.3*	
3.0	Blade	-	9.0	12.6*	5.0	7.2	3.3	4.7	2.1	3.2	8.0
	Outriggers	Blade	10.0	12.6*	5.5	8.3*	3.6	6.3*	2.4	4.4*	
1.5	Blade	-	8.8	12.5*	4.9	7.1	3.2	4.7	2.1	3.1	7.8
	Outriggers	Blade	9.8	12.5*	5.4	9.2*	3.5	6.6	2.3	4.7	
0	Blade	-	12.5*	12.5*	7.5	9.2*	5.0	6.7*	3.4	5.3*	7.3
	Outriggers	Blade	8.6	13.6	4.7	7.1	3.0	4.5	2.0	3.0	
-1.5	Blade	-	9.7	14.1*	5.2	9.3*	3.3	6.6	2.2	4.6	6.3
	Outriggers	Blade	14.1*	14.1*	7.6	9.3*	4.8	6.7*	3.3	5.1*	
-3.0	Blade	-	8.2	13.8	4.5	6.9	2.8	4.3			3.9
	Outriggers	Blade	9.3	15.1*	5.0	9.4*	3.1	6.6	2.3	3.4*	
-4.5	Blade	-	14.9	15.1*	7.5	9.4*	4.6	6.8*	3.4	3.4*	6.0
	Outriggers	Blade	8.1	13.8	4.2	6.6	2.7	4.2			
-4.5	Blade	-	9.2	15.6*	4.7	9.2*	3.0	5.0*	2.8	3.9*	7.2
	Outriggers	Blade	15.1	15.5*	7.2	9.2*	4.5	5.0*	3.8*	3.8*	

Stick 2.45 m

m	Undercarriage stabilized		3.0 m		4.5 m		6.0 m		7.5 m		m
	rear	front									
9.0	Blade	-									3.4
	Outriggers	Blade									
7.5	Blade	-			4.4*	4.4*					5.7
	Outriggers	Blade			4.4*	4.4*					
6.0	Blade	-			4.8*	4.8*	3.3	4.3*			7.0
	Outriggers	Blade			4.8*	4.8*	3.6	4.3*			
4.5	Blade	-	6.2*	6.2*	5.1	6.2*	3.4	4.8	2.2	3.0*	7.7
	Outriggers	Blade	6.2*	6.2*	5.6	6.2*	3.7	5.5*	2.4	3.0*	
3.0	Blade	-	9.0	12.8*	5.0	7.1	3.3	4.7	2.2	3.2	8.1
	Outriggers	Blade	10.0	12.8*	5.5	8.1*	3.7	6.2*	2.4	4.5*	
1.5	Blade	-	8.8	12.4*	4.9	7.0	3.2	4.7	2.1	3.1	8.2
	Outriggers	Blade	9.8	12.4*	5.4	9.1*	3.6	6.6	2.3	4.7	
0	Blade	-	12.4*	12.4*	7.5	9.1*	5.0	6.6*	3.4	5.2*	8.0
	Outriggers	Blade	8.6	13.5	4.7	7.1	3.0	4.5	2.0	3.1	
-1.5	Blade	-	9.7	13.8*	5.2	9.3*	3.4	6.6	2.2	4.6	7.5
	Outriggers	Blade	13.8*	13.8*	7.5	9.3*	4.9	6.7*	3.3	5.1*	
-3.0	Blade	-	8.2	13.8	4.5	6.9	2.8	4.3	1.9	3.0	6.6
	Outriggers	Blade	9.3	15.1*	5.0	9.4*	3.1	6.6	2.1	3.0*	
-4.5	Blade	-	14.8	15.1*	7.5	9.4*	4.6	6.8*	3.0*	3.0*	3.6
	Outriggers	Blade	8.0	13.7	4.2	6.6	2.7	4.2			
-4.5	Blade	-	9.2	15.5*	4.7	9.4*	3.0	5.5*			4.5
	Outriggers	Blade	15.1	15.5*	7.2	9.4*	4.5	5.5*			

Stick 2.65 m

m	Undercarriage stabilized		3.0 m		4.5 m		6.0 m		7.5 m		m
	rear	front									
9.0	Blade	-								2.9*	3.9
	Outriggers	Blade								2.9*	
7.5	Blade	-			4.2*	4.2*	2.2*	2.2*		2.2*	6.0
	Outriggers	Blade			4.2*	4.2*	2.2*	2.2*		2.2*	
6.0	Blade	-			4.5*	4.5*	3.3	4.1*		2.0*	7.2
	Outriggers	Blade			4.5*	4.5*	3.7	4.1*		2.0*	
4.5	Blade	-			5.2	5.5*	3.4	4.8	2.2	3.3	7.9
	Outriggers	Blade			5.5*	5.5*	3.7	5.1*	2.4	3.3*	
3.0	Blade	-	9.0	12.5*	5.0	7.1	3.3	4.7	2.2	3.2	8.3
	Outriggers	Blade	10.0	12.5*	5.5	7.9*	3.7	6.1*	2.4	4.6*	
1.5	Blade	-	12.5*	12.5*	7.6	7.9*	5.0	6.1*	3.5	4.6*	8.4
	Outriggers	Blade	8.8	12.3*	4.9	7.0	3.3	4.7	2.1	3.2	
0	Blade	-	9.7	12.3*	5.4	9.0*	3.6	6.5*	2.3	4.7	8.2
	Outriggers	Blade	12.3*	12.3*	7.5	9.0*	5.0	6.5*	3.4	5.2*	
-1.5	Blade	-	8.7	13.4	4.7	7.0	3.1	4.5	2.0	3.1	7.7
	Outriggers	Blade	9.7	13.5*	5.3	9.2*	3.4	6.6	2.2	4.6	
-3.0	Blade	-	13.5*	13.5*	7.5	9.2*	4.9	6.7*	3.3	5.2*	6.8
	Outriggers	Blade	8.2	13.7	4.5	6.9	2.8	4.3	1.9	3.0	
-4.5	Blade	-	9.3	14.9*	5.0	9.3*	3.2	6.6	2.1	4.4*	4.5
	Outriggers	Blade	14.7	14.9*	7.5	9.3*	4.7	6.8*	3.2	4.4*	
-4.5	Blade	-	8.0	13.7	4.2	6.6	2.7	4.2			4.5
	Outriggers	Blade	9.1	15.4*	4.7	9.5*	3.0	5.9*			
-4.5	Blade	-	15.1	15.4*	7.2	9.5*	4.5	5.9*			4.5
	Outriggers	Blade	7.8	11.6*							
-4.5	Blade	-	8.9	11.6*							4.5
	Outriggers	Blade	11.6*	11.6*							

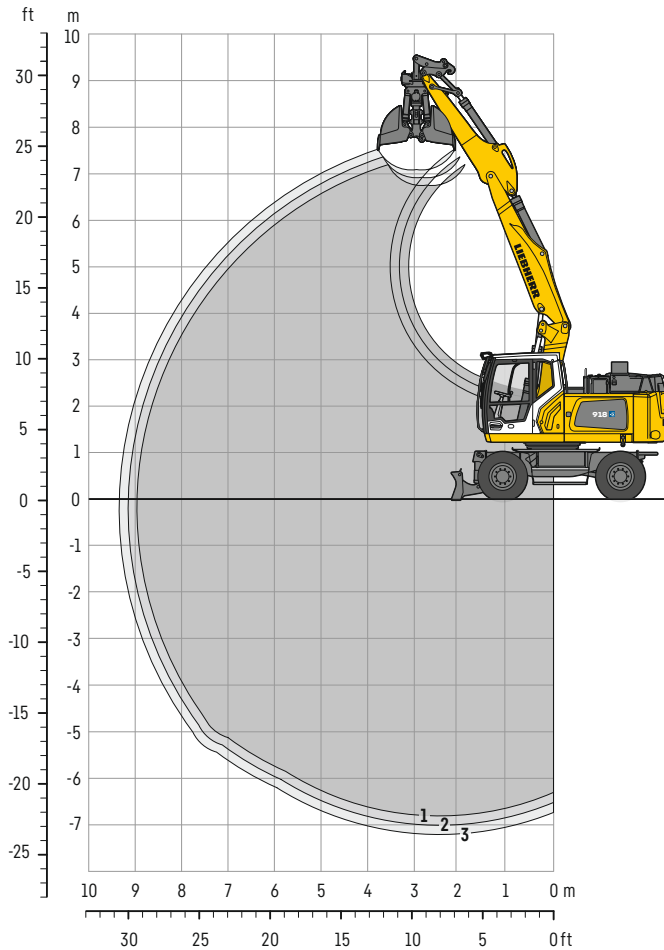
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach * Limited by hydr. capacity

The lift capacities with PowerLift function on the load hook of the Liebherr quick coupler SWA 33 without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (±15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. The values apply when the adjusting cylinder is in the optimal position. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity, or are limited by the permissible load of the load hook on the quick coupler (max. 5t). Without the quick coupler, lift capacities will increase by up to 110 kg.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

Clamshell grab

with two-piece boom 5.25 m



Digging envelope

with quick coupler		1	2	3
Stick length	m	2.25	2.45	2.65
Max. digging depth	m	6.80	7.00	7.20
Max. reach at ground level	m	8.95	9.15	9.35
Max. dumping height	m	6.75	6.90	7.05

Operating weight

The operating weight includes the basic machine with 8 tyres, two-piece boom 5.25 m, stick 2.45 m, quick coupler SWA 33 and clamshell grab GMZ 24 / 0.46 m³ (800 mm without ejector).

Undercarriage versions	Weight (kg)
A 918 E Litronic with rear blade	18,500
A 918 E Litronic with rear outriggers + front blade	19,600
A 918 E EW Litronic with rear blade	18,600
A 918 E EW Litronic with rear outriggers + front blade	19,700

Clamshell grab GMZ 24 Machine stability per ISO 10567* (75% of tipping capacity)

Width of clamshells	Capacity	Weight	Stabilizers raised			Rear blade down			Rear outriggers + front blade down			EW Stabilizers raised			EW Rear blade down			EW Rear outriggers + front blade down		
			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)		
			2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65
320 ¹⁾	0.16	790	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400 ¹⁾	0.22	820	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
500 ¹⁾	0.28	850	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
600 ¹⁾	0.34	910	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
800 ¹⁾	0.46	980	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,000 ¹⁾	0.60	1,060	■	■	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
320 ²⁾	0.16	840	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400 ²⁾	0.22	880	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
500 ²⁾	0.28	910	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
600 ²⁾	0.34	970	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
800 ²⁾	0.46	1,060	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,000 ²⁾	0.60	1,130	■	△	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

* indicated loads are based on ISO 10567 and do not exceed 75% of tipping or 87% of hydraulic capacity, max. stick length without quick coupler, lifted 360° on firm with blocked oscillating axle

¹⁾ without ejector

²⁾ with ejector

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

Equipments

Clamshell grab

Clamshell grab GMZ 22 Machine stability per ISO 10567* (75 % of tipping capacity)

Width of clamshells mm	Capacity m ³	Weight kg	Stabilizers raised			Rear blade down			Rear outriggers + front blade down			EW Stabilizers raised			EW Rear blade down			EW Rear outriggers + front blade down		
			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)		
			2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65
300 ¹⁾	0.14	810	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400 ¹⁾	0.20	840	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
600 ¹⁾	0.30	940	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
800 ¹⁾	0.42	1,020	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,000 ¹⁾	0.54	1,090	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
300 ²⁾	0.14	860	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400 ²⁾	0.20	890	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
600 ²⁾	0.30	1,000	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
800 ²⁾	0.42	1,080	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,000 ²⁾	0.54	1,160	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

* indicated loads are based on ISO 10567 and do not exceed 75% of tipping or 87% of hydraulic capacity, max. stick length without quick coupler, lifted 360° on firm with blocked oscillating axle

¹⁾ without ejector

²⁾ with ejector

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

Equipments

Ditch cleaning bucket / tilt bucket

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

Cutting width mm	Capacity ISO 7451 ¹⁾ m ³	Weight kg	Stabilizers raised			Rear blade down			Rear outriggers + front blade down			EW Stabilizers raised			EW Rear blade down			EW Rear outriggers + front blade down		
			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)		
			2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65
1,600 ²⁾	0.55	650	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,600 ²⁾	0.80	770	■	△	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000 ²⁾	0.50	690	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000 ²⁾	0.70	780	■	■	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,200 ²⁾	0.80	795	△	△	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,500 ³⁾	0.50	275	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000 ³⁾	0.48	350	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000 ³⁾	0.65	390	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,600 ⁴⁾	0.55	680	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,800 ⁴⁾	0.65	720	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000 ⁴⁾	0.70	795	■	■	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

* indicated loads are based on ISO 10567 and do not exceed 75 % of tipping or 87 % of hydraulic capacity, max. stick length without quick coupler, lifted 360° on firm with blocked oscillating axle

¹⁾ comparable with SAE (heaped)

²⁾ ditch cleaning bucket with hydraulic cylinder (with 2 x 50° rotator)

³⁾ rigid ditch cleaning bucket

⁴⁾ ditch cleaning bucket with rotary motor (with 2 x 50° rotator)

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

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

Cutting width mm	Capacity ISO 7451 ¹⁾ m ³	Weight kg	Stabilizers raised			Rear blade down			Rear outriggers + front blade down			EW Stabilizers raised			EW Rear blade down			EW Rear outriggers + front blade down		
			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)		
			2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65
1,500 ²⁾	0.60	650	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,600 ²⁾	0.80	740	■	△	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,600 ²⁾	1.00	790	—	—	—	△	△	△	■	■	■	△	△	△	■	■	△	■	■	■

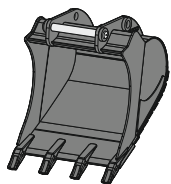
* indicated loads are based on ISO 10567 and do not exceed 75 % of tipping or 87 % of hydraulic capacity, max. stick length without quick coupler, lifted 360° on firm with blocked oscillating axle

¹⁾ comparable with SAE (heaped)

²⁾ tilt bucket with hydraulic cylinder (with 2 x 50° rotator)

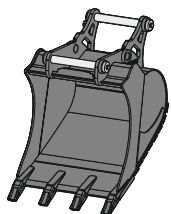
Max. material weight ■ = ≤ 1.8 t/m³, ■ = ≤ 1.5 t/m³, △ = ≤ 1.2 t/m³, — = not authorised

Attachments



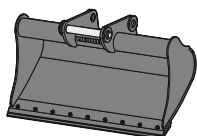
Backhoe bucket TL 03

Mounting		direct mounting, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink							
Cutting width	mm	300 ^{3) 4)}	400 ^{3) 4)}	500 ⁴⁾	650	750	850	1,050	1,250
Capacity	m ³	0.17 ⁵⁾	0.24 ⁵⁾	0.32	0.42	0.50	0.60	0.80	0.95
Weight ²⁾	kg	270	290	295	375	395	435	510	555



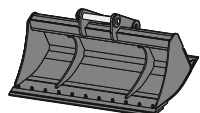
2in1 bucket HTL 03

Mounting		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink						
Cutting width	mm	300 ^{1) 3)}	400 ^{1) 3)}	500 ^{2) 4)}	650 ²⁾	850 ²⁾	1,050 ²⁾	1,250 ²⁾
Capacity	m³	0.17	0.24	0.32	0.42	0.60	0.80	0.95
Weight	kg	280	290	413	450	510	584	628



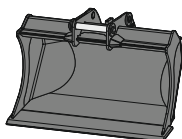
Universal bucket

Mounting		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink	
UL 02			
Cutting width	mm	1,400	1,400
Capacity	m³	0.40	0.50
Weight ^[1]	kg	227	240
UL 03			
Cutting width	mm	1,500	
Capacity	m³	0.60	
Weight ^[1]	kg	368	
UL 04			
Cutting width	mm	1,600	1,600
Capacity	m³	0.80	1.00
Weight ^[2]	kg	473	496



Ditch cleaning bucket rigid

GRL rigid 02								
Mounting		direct mounting, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink						
Cutting width	mm	1,500	2,000	2,000				
Capacity	m³	0.50	0.48	0.65				
Weight ¹⁾	kg	362	351	385				
GRL rigid 02B								
Mounting		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink						
Cutting width	mm	600	800	1,000	1,200	1,400	1,600	2,000
Capacity	m³	0.17	0.25	0.30	0.38	0.45	0.50	0.65
Weight ¹⁾	kg	167	196	225	255	293	330	390



Grading bucket 03

Mounting		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink						
Cutting width	mm	1,400						
Capacity	m³	0.65						
Weight ¹⁾	kg	350						

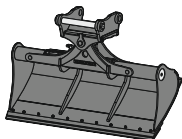
¹⁾ based on an attachment in a standard design with SWA 33 Solidlink quick coupler mounting

²⁾ based on an attachment in a standard design with SWA 48 Solidlink quick coupler mounting

³⁾ limited digging depth due to mounting for SWA 33 quick coupler

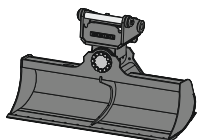
⁴⁾ limited digging depth due to mounting for SWA 48 quick coupler

⁵⁾ reduced capacity with direct mounting



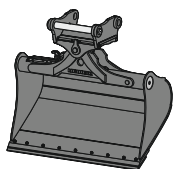
Ditch cleaning bucket with hydraulic cylinder GRL 90

Mounting		direct mounting, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink									
Cutting width	mm	1,600	1,600	2,000	2,000	2,000	2,200	2,200	2,200	2,400	2,800
Capacity	m³	0.55	0.80	0.50	0.70	1.00	0.80	1.15	1.40	0.85	1.25
Weight ²⁾	kg	690	850	695	875	935	910	985	995	890	1,000
Tilt angle		2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°



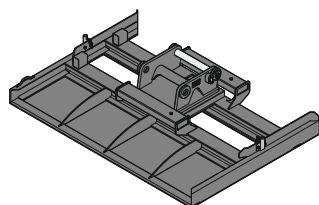
Ditch cleaning bucket with rotary motor GRLM 20

Mounting		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink									
Cutting width	mm	1,600		1,800			2,000		2,200		
Capacity	m³	0.55		0.65			0.70		0.80		
Weight ¹⁾	kg	688		720			753		785		
Tilt angle		2 x 50°		2 x 50°			2 x 50°		2 x 50°		



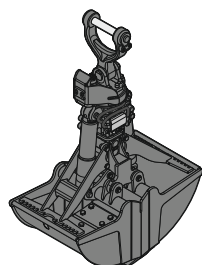
Tilt bucket with hydraulic cylinder SL 90

Mounting		direct mounting, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink									
Cutting width	mm	1,400	1,500	1,500	1,600	1,600	1,600	1,600	1,600	1,600	1,600
Capacity	m³	0.55	0.60	1.20	0.80	1.00	1.35	1.55	1.55	1.55	1.55
Weight ²⁾	kg	715	738	970	820	890	970	1,030	1,030	1,030	1,030
Tilt angle		2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°



Grading beam PB 20

Mounting		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink									
Cutting width	mm	2,500									
Weight ¹⁾	kg	627									



Clamshell grab

Mounting	direct mounting, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink						
GMZ 18 Clamshell buckets							
Shell width	mm	320	400	600	800		
Capacity ³⁾	m ³	0.17	0.22	0.30	0.40		
Opening width	mm	1,462	1,462	1,392	1,392		
Weight ⁴⁾	kg	670	705	715	765		
GMZ 22 Clamshell buckets							
Shell width	mm	300	400	600	800	1,000	
Capacity ³⁾	m ³	0.14	0.20	0.30	0.42	0.54	
Opening width	mm	1,502	1,502	1,502	1,502	1,502	
Weight ⁴⁾	kg	680	710	780	855	935	
GMZ 24 Clamshell buckets							
Shell width	mm	320	400	500	600	800	1,000
Capacity ³⁾	m ³	0.16	0.22	0.28	0.34	0.46	0.60
Opening width	mm	1,515	1,515	1,515	1,515	1,515	1,515
Weight ⁴⁾	kg	720	755	780	815	890	965

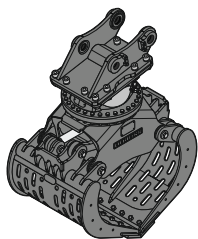
¹⁾ based on an attachment in a standard design with SWA 33 Solidlink quick coupler mounting

²⁾ based on an attachment in a standard design with SWA 48 Solidlink quick coupler mounting

³⁾ capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

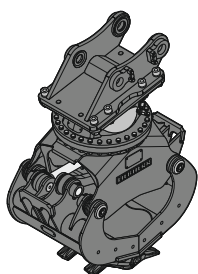
⁴⁾ without suspension

Attachments



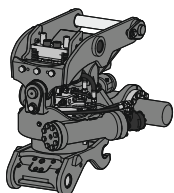
Sorting grab

Mounting	direct mounting, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink														
SG 20B															
Shell type	perforated ²⁾							closed ²⁾							
Shell width	mm	800	1,000	1,200	1,400			800	1,000	1,200	1,400				
Capacity	m ³	0.40	0.50	0.60	0.70			0.40	0.50	0.60	0.70				
Max. closing force	kN	40	40	40	40			40	40	40	40				
Weight ¹⁾	kg	750	795	840	885			765	810	850	895				
SG 25B															
Shell type	perforated ²⁾							ribbed ²⁾			closed ²⁾			Stone shell ³⁾	
Shell width	mm	800	1,000	1,200	1,400			800	1,000	1,200	1,400		800		
Capacity	m ³	0.55	0.75	0.90	1.10			0.50	0.65	0.80	0.55	0.75	0.90	1.10	0.55
Max. closing force	kN	60	60	60	60			60	60	60	60	60	60	60	60
Weight ¹⁾	kg	1,040	1,105	1,170	1,235			1,085	1,170	1,255	1,060	1,130	1,200	1,270	1,225



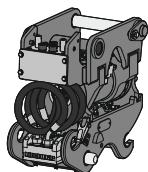
Sorting grab SG 20B with universal shell³⁾

Mounting	direct mounting, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink											
Shell width	mm	650										
Capacity	m ³	0.15										
Max. closing force	kN	57										
Weight ¹⁾	kg	831										



Tiltrotator

Mounting machine side	SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink	
TR 20B		
Mounting attachment side	SWA 33 mechanical, SWA 33 hydraulic, SWA 48 mechanical, SWA 48 hydraulic	
Weight ⁴⁾	kg	641
Rotation	360°	
Tilt	2 x 50°	
TR 25		
Mounting attachment side	SWA 33 mechanical, SWA 33 hydraulic, SWA 48 mechanical, SWA 48 hydraulic	
Weight ⁵⁾	kg	787
Rotation	360°	
Tilt	2 x 50°	



Tilt unit LiTiU 33⁷⁾

Mounting machine side	SWA 33 Solidlink											
Mounting attachment side	SWA 33 hydraulic, SWA 33 Solidlink											
Weight ⁶⁾	kg	410										
Tilt		2 x 50°										

¹⁾ without quick coupler mounting

²⁾ with standard bolt-on cutting edge

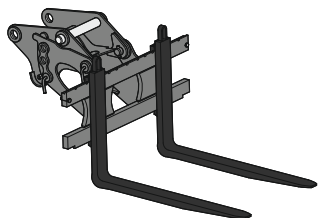
³⁾ with Liebherr teeth Z 35 C

⁴⁾ based on standard tiltrotator TR 20B with SWA 33 Solidlink quick coupler mounting machine side and SWA 33 hydraulic quick coupler mounting on the underside tiltrotator

⁵⁾ based on standard tiltrotator TR 25 with SWA 48 Solidlink quick coupler mounting machine side and SWA 48 hydraulic quick coupler mounting on the underside tiltrotator

⁶⁾ based on standard tilt unit LiTiU 33 with SWA 33 Solidlink quick coupler mountings on both sides (underside of tilt unit and machine side quick coupler mounting)

⁷⁾ on the machine side, a 14-pin signal contact strip is always required; switching takes place between tilting the LiTiU and the grab rotation circle for the attachment



Pallet fork

PG SWA 33 FEM II

Mounting		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink
Fork length	mm	1,200
Max. width pallet fork	mm	1,245
Lift capacity (ISO 2328)	t	2.5
Weight	kg	330

PG SWA 33 FEM III

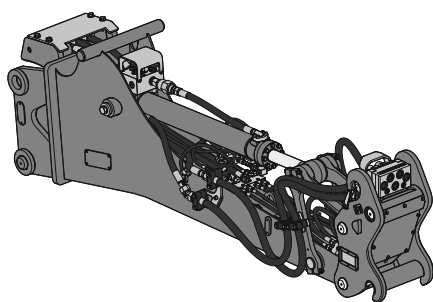
Mounting		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink
Fork length	mm	1,200
Max. width pallet fork	mm	1,500
Lift capacity (ISO 2328)	t	5.0
Weight	kg	579

PG SWA 48 FEM II

Mounting		SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink
Fork length	mm	1,200
Max. width pallet fork	mm	1,245
Lift capacity (ISO 2328)	t	2.5
Weight	kg	345

PG SWA 48 FEM III

Mounting		SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink
Fork length	mm	1,200
Max. width pallet fork	mm	1,500
Lift capacity (ISO 2328)	t	5.0
Weight	kg	585



Stick extension LS 12

Mounting machine side		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 33 Solidlink-9, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, SWA 48 Solidlink-10	
Mounting attachment side		direct mounting, SWA 33 mechanical, SWA 33 mechanical Solidlink ²⁾ , SWA 33 hydraulic ⁴⁾ , SWA 33 Solidlink ^{3) 4) 5)}	
Length	m	2.25	2.70
Weight ¹⁾	kg	650	700

¹⁾ based on standard stick extension LS 12 with SWA 33 Solidlink quick coupler mountings on both sides (underside of stick extension and machine side mounting) and electric switchover

²⁾ attachment with high pressure circuit only possible with the manual switchover tipping cylinder or an extended hydraulic circuit on the carrier machine

³⁾ attachment with high pressure circuit only possible with the electric / manual switchover tipping cylinder or an extended hydraulic circuit on the carrier machine

⁴⁾ 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

⁵⁾ 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

Equipment

Undercarriage

General	
Trailer coupling with bolt (diameter of towing eye 40 mm), automatic (outrigger support)	+
Trailer coupling with bolt (diameter of towing eye 40 mm), automatic (blade support)	+
Hydraulic connection for tipping the trailer (single-acting tipping cylinder)	+
Mudguards (rear and front)	+
Lubrication undercarriage (decentral), manual (grease points)	+
Storage box left, incl. base plate	+
Storage box with drawer left	+
Storage box with drawer right	+
Storage box right, incl. base plate	+
Socket for lighting extension coupling, 24 V, ISO 1724 (rear)	+
Centralised lubrication manual undercarriage (one grease point)	+
Stabilization & driving	
Rear stabilizer blade 2,550 mm	+
Rear stabilizer blade 2,750 mm	+
Individual control, two outriggers	+
Piston rod guard for rear outriggers and front blade	+
Piston rod guard for rear blade	+
Piston rod guard for rear blade and front outriggers	+
Automatic swing axle lock	●
Rear outriggers, front stabilizer blade 2,550 mm	+
Rear outriggers, front stabilizer blade 2,750 mm	+
Single tyres, Alliance HD I-331 600/40-22.5	+
Single tyres, Michelin XF-445/70R19.5	+
Undercarriage EW 2,750 mm wide	+
Twin tyres, Liebherr EM 22 290/90-20 PR 18	+
Twin tyres, Mitas EM-22 10.00-20 PR 16	+

Upperbody

General	
AC charging cable (MARECHAL / CEE) 63 A max.	+
AC charging cable (MARECHAL / MARECHAL) 63 A max.	+
Extended tool kit including toolbox	+
HV AC battery charger on-board 2 x 22 kW	●
HV battery high capacity 291 kWh	+
HV battery standard capacity 194 kWh	+
Amber beacon on upperbody, rear, LED, 1 piece*	+
Storage box in the upperbody	●
Centralised lubrication automatic swing ring and equipment	●
Hydraulic & engine	
HV AC charging system 63 A max.	+
HV DC fast charging system 150 kW max.	+
Hydraulic oil, Liebherr Hydraulic Basic 100 (0 to +55 °C)	+
Hydraulic oil, Liebherr Hydraulic HVI (-20 to +40 °C)	+
Hydraulic oil, Liebherr Hydraulic Plus 37 (-30 to +40 °C)*	+
Hydraulic oil, Liebherr Hydraulic Plus Arctic, high performance oil (-40 to +30 °C)	+
Hydraulic oil, Liebherr Hydraulic Plus, high performance oil (-30 to +45 °C)	+
Automatic motor shutdown after idling (with timer)	+
Bypass filter for hydraulic oil	+
Power plug 400 V AC with cable swivel arm for grid connected operation	+
Power Pack Electric	●
Lubricants and operating fluids Standard (-20 to +40 °C)	●



Equipment

Boom	
PowerLift	●
Pipe fracture safety valve stick cylinder	●
Floating boom	+
Two-piece boom 5.25 m	+
Stick & attachment mounting	
GPS for attachment (via 5-pin signal contacts)	+
GPS for attachment (via 14-pin signal contacts)	+
Coupling system Solidlink 33-9 for quick coupler SWA 33	+
Coupling system Solidlink 48-10 for quick coupler SWA 48	+
Coupling system Solidlink for quick coupler SWA 33	+
Coupling system Solidlink for quick coupler SWA 48	+
Load holding valve for tipping cylinder	+
Load holding valve for tipping cylinder (both sides)	+
Lifting eye on stick 8.0 t (500 mm from stick end pin)	+
Lifting eye on stick 8.0 t (1,000 mm from stick end pin)	+
Stick 2.25 m	+
Stick 2.45 m	+
Stick 2.65 m	+
Quick coupler SWA 33 hydraulic	+
Quick coupler SWA 48 hydraulic	+
Hydraulic hose guard Solidlink	+
Tilt unit LiTiU 18 direct mounting	+
Tilt unit LiTiU 18 direct mounting with Solidlink	+
Signal contacts for Solidlink 5-pin	+
Signal contacts for Solidlink 5-pin and 14-pin	+
Signal contacts for Solidlink 14-pin	+
Socket on stick (24 V)	+
Connection via signal contacts for Solidlink (24 V)	+
Centralised lubrication automatic quick coupler	+
Centralised lubrication automatic connecting link	+



Cab

Interior	
2-points seat belt, 2"	+
3-points seat belt, 2"	+
Storage tablet	•
Mood lighting LED	•
Armrests adjustable in length, height and inclination	•
Operator's seat Comfort	+
Operator's seat Premium	+
Operator's seat cover	+
Travel alarm system switchable	+
Fire extinguisher*	+
Air-conditioned bottle holder	•
Footrest	+
Seat belt reminder	•
Mobile phone holder with inductive charging	+
Automatic air conditioning	•
Automatic air-conditioning programmable for cab	•
Wheel and joystick steering	+
Wheel steering	+
Multifunction mounting bracket	+
Radio Comfort	•
Acoustic back-up warning system not switchable	+
Additional roll-down sun blind for windscreen	+
Roll-down sun blinds for windscreen and roof window	•
Roll-down sun blinds for rear and side window, right	+
Air-conditioned storage compartment	•
Socket in cab (24 V)	•
Sockets in cab (USB)	•
First-aid box	+
Warning triangle	+
Exterior	
Rearview mirror	+
Electrically adjustable and heated outside rear-view mirrors	+
Cab air filters, accessible from ground level	•
Licence plate holder with light	+
Lightbar on cab, LED	+
Warning beacon foldable on cab, LED, 1 piece	+
Roof window wiper	+
FOPS top guard flat	+
FOPS top guard	+
FGPS front guard with side opening	+
Retractable laminated two-piece windscreen	+



General

Liebherr Connect	
MyLiebherr Maintenance	+
MyLiebherr Performance	+
MyLiebherr Portal ¹⁾	•



Control

Safety & operation	
Digging brake, automatic	•
Energy management system on touchscreen	•
Ride control	+
Boom cylinder cushioning	+
HV battery intelligent charging management	•
HV battery temperature management	•
HV battery charge holding for machine storage	•
Modetronic	•
Positioning swing brake automatic	+
Positioning swing brake automatic and manual	+
Overload warning system	•
Hydraulic & control	
10" colour touchscreen	•
Control pattern digital	•
Attachment continuous operation system	+
Display with haptic feedback	•
Double pedal, left	+
Grapple lines for stick with tipping kinematic	+
High pressure circuit with Tool Control	+
Joysticks Premium	•
Leak oil lines for attachment	+
Medium pressure circuit	•
Mode selector	•
Power Plus for Tools	+
Filter for hydraulic hammer return flow	+
Touchpad 3.5"	•
Preparation for tiltrotator	+
Assistance systems	
Cruise control	•
Integral tyre pressure monitoring system	+
Machine control 2D	•
MiC 4.0 BUS communication standard	•
Smartphone interface	•
Skyview 360°	+
Smart Key Comfort	+
Smart Key Standard	+
Preparation for machine control system	+



Packages

Light package Comfort	+
Light package Standard	+
Light package Stick	+
Light package Surround	+

• = Standard, + = Option

* country-dependent, ¹⁾ free activation required

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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