R 920 Compact Litronic

LIEBHERR

Crawler excavator

Generation
8

Operating weight
18,380–21,030 kg

Engine
110 kW / 150 HP
Stage V

Bucket capacity
0.30–0.95 m³

Compact, versatile, connected
R 920 Compact

1 Maintenance

- Servicing concept, with service points accessible from ground level
- Engine oil level and filling nozzle accessible from ground level

2 Equipment

- Large choice of types and sizes of equipment
- Longer lifespan of components and higher productivity thanks to automatic centralised lubrication system
- Safety check valves for hoist and stick cylinders
- Large choice of tools and teeth to suit all applications

3 Safety

- Panoramic visibility with no obstructions and camera on the rear and the right side equipment for enhanced safety
- Liftable console for easy and safe access to cab
- ROPS-certified cab structure: rollover protection
- Emergency exit via the rear cab window
- Right window and windshield in laminated and tinted glass

4 Undercarriage

- Robust, reliable X-frame undercarriage, easy to secure thanks to its integrated eyelets
- Easy maintenance
- Several levelling blades available
- Optional rubber track pads for urban application
- Possibility to anchor the machine with the blade
- Maintenance-free travel gear and track rollers with lifetime lubrication
- Extra storage as an option

5 Compactness

- Short tail swing radius of 1.85 m for increased safety and flexibility on work sites
- The perfect machine for narrow sites – ideal for urban applications and on motorways

6 Comfort

- Spacious, air-conditioned work space
- Airsprung seat with vertical and horizontal suspension
- Easy-to-use high resolution 10" colour touchscreen
- Completely retractable front cab window
- Groundbreaking, intuitive INTUSI human-machine interface

7 Engine

- New engine that conforms with the Stage V European exhaust emissions standard
- Automatic idle-stop

8 New technologies

- **Bucket Fill Assist (BFA)**
  Automatic bucket-filling cycle for increased productivity, as standard with 500 machine hours included
- **Modetronic**
  Customisable driving modes for optimised work cycles tailored to each type of application, as standard
- **Liebherr Connect**
  Latest-generation telemetry system, as standard
- **MyLiebherr**
  Series customer portal with numerous downloadable applications (subscription required)

Versatility and performance on site

A machine designed to do the job

Thanks to a perfectly balanced design and an extensive range of working attachments, Generation 8 Liebherr compact excavators can be used for a wide range of applications: earthmoving, road and utility services, municipal work, landscaping and light demolition. Their high degree of flexibility in terms of configuration ensures that each site can be optimised using a single machine.

Equipped with a wide range of booms, sticks and hydraulically operated attachments, they can be transformed into extremely versatile multi-purpose tool carriers. Result: optimised productivity and the ability for a single machine to replace several others on the site.

Performance that meets modern-day requirements

Designed to meet the growing productivity demands of modern job sites, Liebherr compact excavators combine powerful engines with optimised hydraulic performance to deliver fast, smooth and efficient working cycles.

Thanks to smooth combined movements and outstanding digging, travel and swing performance, they deliver consistently high productivity throughout the working day.

A response to the challenges of the compact market

When faced with increasingly complex job sites – greater urbanisation, restricted access and budgetary constraints – the compact excavators from Liebherr can handle any challenge with ease. Despite their compact size, they deliver high-level performance, perfectly suited to urban environments and confined spaces.

Designed to operate anywhere, even in the harshest conditions, they combine agility and power to maintain optimum efficiency. Result: rapid cycle times and optimised productivity on every site.

Operational efficiency and maximum productivity

Optimum dynamics for the job site

An excavator's effectiveness is measured by more than its specifications – it is defined by its ability to perform efficiently across a wide range of applications and job sites. Liebherr compact excavators are designed with an optimised working range that reduces the need for repositioning, helping operators work more efficiently.

Their reach and depth have been perfectly adapted to the challenges of the ground, facilitating loading operations while ensuring great precision. Result: fewer unnecessary movements, masterful execution and maximum productivity every day.

A machine that performs well in all conditions

Designed to deliver a high level of performance in all conditions, Liebherr compact excavators adapt to all types of ground. Their traction ensure safe movement, even on inclined surfaces or difficult terrain.

The optimised rotational torque makes all loading operations easier, while the load-bearing capacities meet the demands of even the most challenging applications. Result: constant and reliable productivity on all job sites.

Optimisation of the work cycles

The technologies incorporated in the Liebherr compact excavators make it possible to individually adapt the machine to user requirements and to optimise overall efficiency. The operating modes can be customised to tailor the performance for each application.

Energy optimisation plays a part in reducing fuel consumption for greater cost-effectiveness in day-to-day operations.

Reliability, availability and cost control

A design committed to sustainability

Designed for durability, Liebherr compact excavators tackle the challenges of even the most demanding sites. Their robust construction, together with components built to withstand heavy-duty use, guarantees outstanding reliability.

The blade has been engineered with an optimised profile and geometry to improve material clearance and grading performance. Manufactured from highly wear-resistant steel, it delivers exceptional durability while requiring virtually no maintenance. Proportional control via the mini-joystick or hand lever provides the precision needed for fine grading and accuracy-focused applications.

Simple maintenance for maximum availability

Productivity also goes hand in hand with maximum availability of the machine. Liebherr compact excavators are designed for ease of maintenance, with simple access to all maintenance points from the ground.

Fast and efficient maintenance operations help reduce downtime and optimise the period of operation. Result: more productive hours, less downtime and greater profitability every day.

Connectivity and intelligent machine management

Digital solutions from Liebherr can be used to manage and optimise the use of the machines in day-to-day operations. Thanks to the integrated telemetry, performance monitoring is simplified and all the data is accessible via a dedicated customer portal.

This transparency improves management of the fleet and helps optimise operating costs. Ready to integrate the support systems of the future, these machines perfectly embody a forward-looking approach.

The new emCAB operator's cab

The new operating system for a smarter job site

In today's construction industry, intuitive machine control is essential for maximising productivity and ease of use. INTUSI (Intuitive User Interface) integrates intelligent control logic with advanced machine learning capabilities, offering a highly customizable interface. This innovation significantly enhances operational efficiency and user comfort on the job site.

Ultra-ergonomic control with Liebherr joysticks

Central to the INTUSI experience are two joysticks designed and developed by Liebherr to the highest quality standards, ergonomically positioned on either side of the operator's seat. Designed for comfort at work, they offer a completely natural and very comfortable grip and reduce operator fatigue – even during extended shifts.

Intuitive operation thanks to uncluttered control units

A compact display to the right of the operator enables quick access to important functions. The optimised arrangement of the control elements on the right-hand console ensures intuitive operation and minimises fatigue. An operating system that adapts to your needs, not the other way around.

Technical data

Diesel engine

Rating per ISO 9249	110 kW (150 HP) at 1,800 RPM
Torque	682 Nm at 1,400 RPM
Model	Liebherr D924 A7-05
Type	4 cylinder in-line
Bore / Stroke	104 / 132 mm
Displacement	4.5 l
Engine operation	4-stroke diesel Common-Rail injection system Turbo-charged and after-cooler
Air cleaner	Dry-type air cleaner with pre-cleaner, primary and safety elements
Engine idling	Sensor controlled
Electrical system	
Voltage	24 V
Batteries	2 x 145 Ah / 12 V
Alternator	Three-phase current 28 V / 140 A
Stage V	
Harmful emissions values	According to regulation (EU) 2016/1628
Emission control	Liebherr DOC + DPF + SCR technology
Fuel tank	243 l
Urea tank	46 l

Cooling system

Diesel engine	Water-cooled Compact cooling system comprising cooling unit for water, hydraulic oil and charge air with stepless, thermostatically controlled fan, retractable thermostatic fan for radiator cleaning

Hydraulic controls

Power distribution	Via control valves with integrated safety valves, simultaneous and independent actuation of undercarriage, swing drive and equipment
Servo circuit	
Equipment and swing	With electro-hydraulic pilot control and proportional joystick levers
Travel	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	Liebherr, variable displacement, swashplate pump
Max. flow	300 l/min.
Max. pressure	350 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	135 l
Hydraulic system	max. 300 l
Filtration	1 main return filter with integrated partial micro filtration (5 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 fuel consumption
P+ (Power-Plus)	Mode for highest performance and for very heavy duty applications, suitable for continuous operation
Engine speed and performance setting	Stepless adjustment of engine output and hydraulic power via engine speed
Additional function	Tool Control: 20 pre-adjustable pump flows and pressures for add-on attachments

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	0–10.0 RPM stepless
Swing torque	54 kNm
Holding brake	Wet multi-disc (spring applied, pressure released)
Additional function	Positioning swing brake automatic

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) The air conditioning system contains fluorinated greenhouse gases
Refrigerant	R134a
Global warming potential	1,430
Quantity at 25 °C*	1,300 g
CO_2 equivalent	1.859 t
Vibration emission**	
Hand / arm vibrations	< 2.5 m/s²
Whole-body vibrations	< 0.5 m/s²
Measuring inaccuracy	According with standard EN 12096:1997

Undercarriage

Versions	
NLC	Narrow gauge 2,000 mm
LC	Standard gauge 2,250 mm
Drive	Liebherr swashplate motor with brake valves on both sides
Transmission	Liebherr compact planetary reduction gear
Maximum travel speed	2.7 km/h low range 5.9 km/h high range
Drawbar pull on crawler	188 kN
Track components	B60, maintenance-free
Track rollers / Carrier rollers	7 / 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

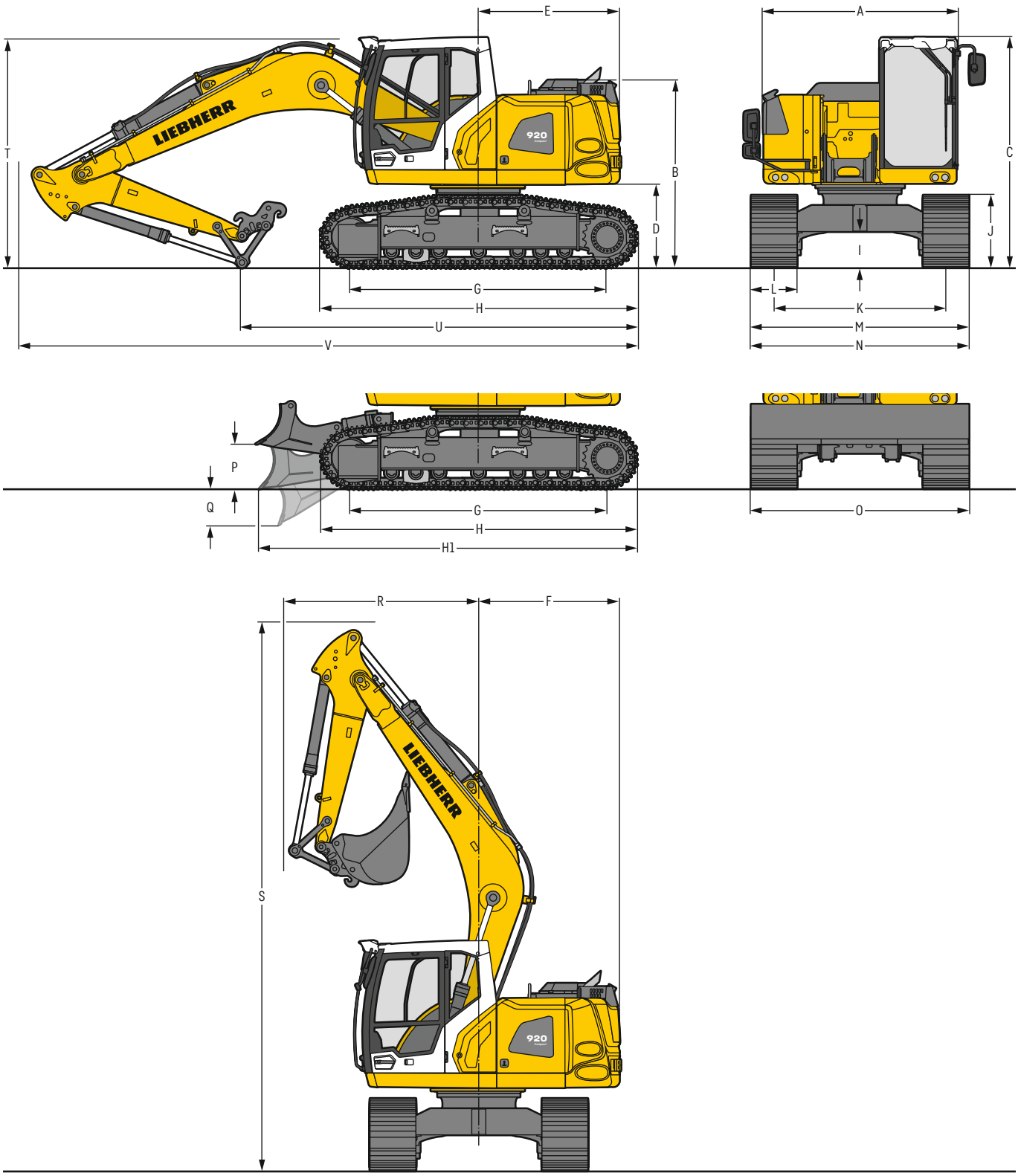
Type	High-strength steel plates at highly-stressed points for the toughest requirements. Complex and stable mountings of equipment and cylinders
Hydraulic cylinders	Liebherr cylinders with seal and guidance systems
Bearings	Sealed, low maintenance

Complete machine

Lubrication	Liebherr central lubrication system for uppercarriage and equipment
Noise emission	
ISO 6396	70 dB(A) = L_{pA} (inside cab)
2000/14/EC	101 dB(A) = L_{WA} (surround noise)

* valid for standard machine without operator's cab elevation and without height adjustable cab
** for the risk assessment according to 2002/44/EC see ISO/TR 25398:2006

Dimensions



		NLC			NLC with blade			LC				LC with blade		
		mm			mm			mm				mm		
A	Uppercarriage width	2,525			2,525			2,525				2,525		
B	Uppercarriage height	2,470			2,470			2,470				2,470		
C	Cab height	3,025			3,025			3,025				3,025		
D	Counterweight ground clearance	1,105			1,105			1,105				1,105		
E	Rear-end length	1,850			1,850			1,850				1,850		
F	Tail swing radius	1,850			1,850			1,850				1,850		
G	Wheelbase	3,370			3,370			3,370				3,370		
H	Undercarriage length	4,150			4,150			4,150				4,150		
H1	Undercarriage length with blade	–			5,015			–				4,945		
I	Undercarriage ground clearance	485			370			485				370		
J	Track height	965			965			965				965		
K	Track gauge	2,000			2,000			2,250				2,250		
L	Track pad width	500	600	750	500	600	750	500	600	750	900	500	600	750
M	Width over tracks	2,500	2,600	2,750	2,500	2,600	2,750	2,750	2,850	3,000	3,150	2,750	2,850	3,000
N	Width over steps	2,450	2,650[1)]	2,650[1)]	2,450	2,650[1)]	2,650[1)]	2,780	2,780	2,980[1)]	3,080[1)]	2,780	2,780	2,980[1)]
O	Blade width	–			2,500	2,600	2,850				–	2,850	2,850	3,000
P	Max. blade height	–					590				–			590
Q	Max. blade depth	–					470				–			470

[1)] width with removable steps

		Stick length	Mono boom 5.00 m with quick coupler	Two-piece boom 5.30 m with quick coupler
		m	mm	mm
R	Front swing radius	2.25	2,550	2,650
		2.45	2,400	2,700
		2.65	2,450	2,750
S	Height with boom up		7,200	7,550
T	Boom height	2.25	3,000	3,000
		2.45	3,050	3,050
		2.65	3,150	3,100
U	Length on ground	2.25	5,200	5,800
		2.45	5,100	5,700
		2.65	4,900	5,600
V	Overall length		8,100	8,300
	Bucket		0.80 m^3	0.80 m^3

Transport dimensions

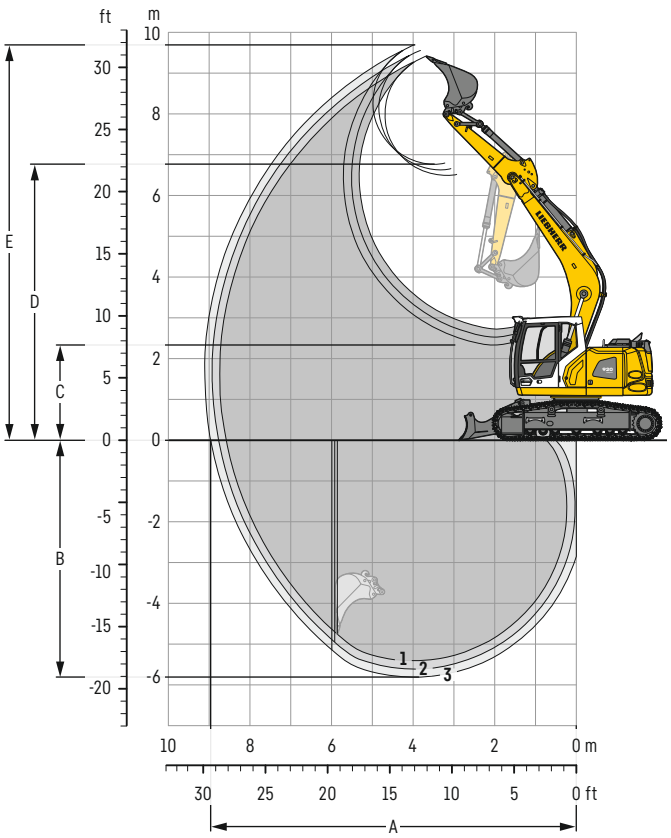
removable elements disassembled

	Undercarriage	Mono boom 5.00 m				Two-piece boom 5.30 m			
		mm				mm			
Pad width		500	600	750	900	500	600	750	900
Transport width	NLC	2,525	2,600	2,750	–	2,525	2,600	2,750	–
	LC	2,750	2,850	3,000	3,150	2,750	2,850	3,000	3,150

	Undercarriage / Stick	NLC / LC	NLC with blade	LC with blade	NLC / LC	NLC with blade	LC with blade
	m	mm	mm	mm	mm	mm	mm
Transport length		8,100	8,950	8,900	8,300	9,150	9,100
Transport height	2.25	3,025			3,025		
	2.45	3,050			3,050		
	2.65	3,150			3,100		

Backhoe bucket

with mono boom 5.00 m



Digging envelope

with quick coupler		1	2	3
Stick length	m	2.25	2.45	2.65
A Max. reach at ground level	m	8.58	8.77	8.96
B Max. digging depth	m	5.41	5.61	5.81
C Min. dumping height	m	2.73	2.53	2.33
D Max. dumping height	m	6.50	6.63	6.77
E Max. cutting height	m	9.42	9.56	9.70

Forces

without quick coupler		1	2	3
Stick digging force (ISO 6015)	kN	83	78	74
Bucket digging force (ISO 6015)	kN	98	98	98
Stick digging force (SAE J1179)	kN	79	75	71
Bucket digging force (SAE J1179)	kN	89	89	89

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 3.9 t, mono boom 5.00 m, stick 2.65 m, quick coupler SWA 33 and backhoe bucket 0.80 m³ (480 kg).

Undercarriage		NLC		
Pad width	mm	500	600	750
Weight	kg	18,380	18,630	19,230
Ground pressure	kg/cm²	0.51	0.43	0.36

Undercarriage		NLC with blade		
Pad width	mm	500	600	750
Weight	kg	19,680	19,930	20,480
Ground pressure	kg/cm²	0.55	0.46	0.38

Undercarriage		LC			
Pad width	mm	500	600	750	900
Weight	kg	18,480	18,730	19,330	19,730
Ground pressure	kg/cm²	0.51	0.43	0.36	0.31

Undercarriage		LC with blade		
Pad width	mm	500	600	750
Weight	kg	19,780	20,030	20,630
Ground pressure	kg/cm²	0.55	0.46	0.38

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

	Cutting width	Capacity ISO 7451	Weight[3]	NLC undercarriage (with track pads 500 mm)						NLC undercarriage with blade (with track pads 500 mm)						LC undercarriage (with track pads 600 mm)						LC undercarriage with blade (with track pads 600 mm)					
				Stick length (m)						Stick length (m)						Stick length (m)						Stick length (m)					
				without quick coupler			with quick coupler			without quick coupler			with quick coupler			without quick coupler			with quick coupler			without quick coupler			with quick coupler		
	mm	m³	kg	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	2.25	2.45	2.65	2.25	2.45	2.65
STD[1]	500	0.30	290	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	550	0.29	250	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	650	0.42	350	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850	0.60	400	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050	0.80	480	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	0.95	525	▲	■	■	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
HD[2]	500	0.30	320	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	550	0.29	280	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	650	0.42	390	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850	0.60	450	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050	0.80	540	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	0.95	595	▲	■	▲	■	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

* 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 Liebherr teeth Z 50

[2] HD backhoe bucket with Liebherr teeth Z 50

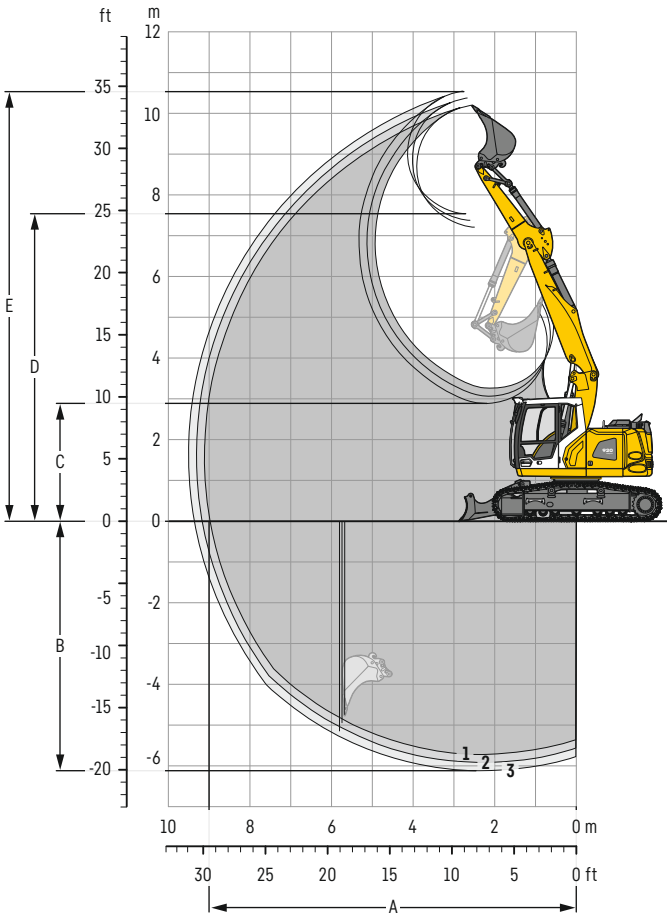
[3] backhoe bucket for direct mounting or mounting to quick coupler

Other backhoe buckets available upon request

Max. material weight ▲ = 2.0 t/m³, ■ = 1.8 t/m³, ▲ = 1.65 t/m³

Backhoe bucket

with two-piece boom 5.30 m



Digging envelope

with quick coupler		1	2	3
Stick length	m	2.25	2.45	2.65
A Max. reach at ground level	m	8.97	9.17	9.36
B Max. digging depth	m	5.72	5.92	6.12
C Min. dumping height	m	3.25	3.07	2.89
D Max. dumping height	m	7.21	7.38	7.54
E Max. cutting height	m	10.20	10.37	10.54

Forces

without quick coupler		1	2	3
Stick digging force (ISO 6015)	kN	83	78	74
Bucket digging force (ISO 6015)	kN	98	98	98
Stick digging force (SAE J1179)	kN	79	75	71
Bucket digging force (SAE J1179)	kN	89	89	89

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 3.9 t, two-piece boom 5.30 m, stick 2.65 m, quick coupler SWA 33 and backhoe bucket 0.80 m³ (480 kg).

Undercarriage		NLC		
Pad width	mm	500	600	750
Weight	kg	18,830	19,080	19,630
Ground pressure	kg/cm²	0.52	0.44	0.36

Undercarriage		NLC with blade		
Pad width	mm	500	600	750
Weight	kg	20,080	20,330	20,930
Ground pressure	kg/cm²	0.56	0.47	0.39

Undercarriage		LC			
Pad width	mm	500	600	750	900
Weight	kg	18,930	19,130	19,730	20,130
Ground pressure	kg/cm²	0.52	0.44	0.37	0.31

Undercarriage		LC with blade		
Pad width	mm	500	600	750
Weight	kg	20,230	20,430	21,030
Ground pressure	kg/cm²	0.56	0.47	0.39

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

	Cutting width	Capacity ISO 7451	Weight[3]	NLC undercarriage (with track pads 500 mm)						NLC undercarriage with blade (with track pads 500 mm)						LC undercarriage (with track pads 600 mm)						LC undercarriage with blade (with track pads 600 mm)					
				Stick length (m)						Stick length (m)						Stick length (m)						Stick length (m)					
				without quick coupler			with quick coupler			without quick coupler			with quick coupler			without quick coupler			with quick coupler			without quick coupler			with quick coupler		
	mm	m³	kg	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	2.25	2.45	2.65	2.25	2.45	2.65
STD[1]	500	0.30	290	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	550	0.29	250	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	650	0.42	350	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850	0.60	400	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050	0.80	480	▲	▲	■	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	0.95	525	▲	▲	■	▲	■	■	▲	▲	■	▲	▲	■	▲	▲	■	▲	▲	■	▲	▲	▲	▲	▲	▲
HD[2]	500	0.30	320	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	550	0.29	280	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	650	0.42	390	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850	0.60	450	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050	0.80	540	▲	▲	■	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	0.95	595	▲	■	■	▲	■	■	▲	■	■	▲	■	▲	▲	▲	■	▲	■	▲	▲	▲	▲	▲	▲	▲

* 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 Liebherr teeth Z 50

[2] HD backhoe bucket with Liebherr teeth Z 50

[3] backhoe bucket for direct mounting or mounting to quick coupler

Other backhoe buckets available upon request

Max. material weight ▲ = 2.0 t/m³, ■ = 1.8 t/m³, ▲ = 1.65 t/m³, ■ = 1.5 t/m³

Lift capacities

with mono boom 5.00 m, counterweight 3.9 t and track pads 500 mm / 600 mm

Stick 2.25 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m				m
NLC[1]	7.5									3.7*	3.7*	4.1
	6.0			4.8*	4.8*					3.1*	3.1*	5.7
	4.5	6.6*	6.6*	4.7	5.4*	3.0	4.9*			2.5	2.9*	6.6
	3.0			4.3	6.6*	2.8	4.9			2.2	3.0*	7.1
	1.5			4.0	7.4	2.7	4.7			2.0	3.2*	7.2
	0	5.7*	5.7*	3.8	7.2	2.6	4.6			2.1	3.6*	7.0
	-1.5	6.9	10.4*	3.7	7.1	2.5	4.6			2.3	4.1	6.5
	-3.0	7.0	9.4*	3.8	6.7*					2.9	5.1*	5.5
NLC[1] Blade up	7.5									3.7*	3.7*	4.1
	6.0			4.8*	4.8*					3.1*	3.1*	5.7
	4.5	6.6*	6.6*	5.0	5.4*	3.2	4.9*			2.7	2.9*	6.6
	3.0			4.6	6.6*	3.0	5.0			2.3	3.0*	7.1
	1.5			4.3	7.5	2.9	4.8			2.2	3.2*	7.2
	0	5.7*	5.7*	4.1	7.3	2.8	4.7			2.2	3.6*	7.0
	-1.5	7.4	10.4*	4.0	7.2	2.8	4.6			2.5	4.1	6.5
	-3.0	7.6	9.4*	4.1	6.7*					3.2	5.1*	5.5
NLC[1] Blade down	7.5									3.7*	3.7*	4.1
	6.0			4.8*	4.8*					3.1*	3.1*	5.7
	4.5	6.6*	6.6*	5.3	5.4*	3.4	4.9*			2.8	2.9*	6.6
	3.0			4.9	6.6*	3.2	5.3*			2.5	3.0*	7.1
	1.5			4.6	7.8*	3.1	5.8*			2.4	3.2*	7.2
	0	5.7*	5.7*	4.4	8.3*	3.0	6.1*			2.4	3.6*	7.0
	-1.5	8.1	10.4*	4.3	8.0*	2.9	5.8*			2.7	4.4*	6.5
	-3.0	8.2	9.4*	4.4	6.7*					3.4	5.1*	5.5
LC	7.5									3.7*	3.7*	4.1
	6.0			4.8*	4.8*					3.1*	3.1*	5.7
	4.5	6.6*	6.6*	5.4	5.4*	3.4	4.9*			2.9	2.9*	6.6
	3.0			5.0	6.6*	3.3	5.0			2.5	3.0*	7.1
	1.5			4.7	7.5	3.1	4.8			2.4	3.2*	7.2
	0	5.7*	5.7*	4.5	7.3	3.0	4.7			2.4	3.6*	7.0
	-1.5	8.3	10.4*	4.4	7.2	3.0	4.6			2.7	4.1	6.5
	-3.0	8.5	9.4*	4.5	6.7*					3.4	5.1*	5.5
LC Blade up	7.5									3.7*	3.7*	4.1
	6.0			4.8*	4.8*					3.1*	3.1*	5.7
	4.5	6.6*	6.6*	5.4*	5.4*	3.6	4.9*			2.9*	2.9*	6.6
	3.0			5.4	6.6*	3.5	5.0			2.7	3.0*	7.1
	1.5			5.0	7.6	3.4	4.9			2.6	3.2*	7.2
	0	5.7*	5.7*	4.8	7.4	3.3	4.7			2.6	3.6*	7.0
	-1.5	9.0	10.4*	4.8	7.3	3.2	4.7			2.9	4.2	6.5
	-3.0	9.2	9.4*	4.9	6.7*					3.7	5.1*	5.5
LC Blade down	7.5									3.7*	3.7*	4.1
	6.0			4.8*	4.8*					3.1*	3.1*	5.7
	4.5	6.6*	6.6*	5.4*	5.4*	3.8	4.9*			2.9*	2.9*	6.6
	3.0			5.7	6.6*	3.7	5.3*			2.9	3.0*	7.1
	1.5			5.3	7.8*	3.6	5.8*			2.7	3.2*	7.2
	0	5.7*	5.7*	5.1	8.3*	3.5	6.1*			2.8	3.6*	7.0
	-1.5	9.7	10.4*	5.1	8.0*	3.4	5.8*			3.1	4.4*	6.5
	-3.0	9.4*	9.4*	5.2	6.7*					3.9	5.1*	5.5

Stick 2.45 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m				m
NLC[1]	7.5									3.3*	3.3*	4.4
	6.0			4.6*	4.6*					2.8*	2.8*	6.0
	4.5			4.7	5.2*	3.0	4.7*			2.4	2.7*	6.8
	3.0	8.0	9.7*	4.4	6.4*	2.8	4.9			2.1	2.7*	7.3
	1.5			4.0	7.4	2.7	4.7			2.0	2.9*	7.4
	0	6.0*	6.0*	3.8	7.2	2.6	4.6			2.0	3.2*	7.2
	-1.5	6.8	10.0*	3.7	7.1	2.5	4.5			2.2	3.9	6.7
	-3.0	7.0	9.8*	3.8	6.9*					2.7	4.9	5.7
NLC[1] Blade up	7.5									3.3*	3.3*	4.4
	6.0			4.6*	4.6*					2.8*	2.8*	6.0
	4.5			5.0	5.2*	3.2	4.7*			2.6	2.7*	6.8
	3.0	8.5	9.7*	4.7	6.4*	3.0	5.0			2.2	2.7*	7.3
	1.5			4.3	7.5	2.9	4.8			2.1	2.9*	7.4
	0	6.0*	6.0*	4.1	7.2	2.8	4.7			2.1	3.2*	7.2
	-1.5	7.3	10.0*	4.0	7.2	2.7	4.6			2.4	3.9*	6.7
	-3.0	7.5	9.8*	4.1	6.9*					3.0	5.0	5.7
NLC[1] Blade down	7.5									3.3*	3.3*	4.4
	6.0			4.6*	4.6*					2.8*	2.8*	6.0
	4.5			5.2*	5.2*	3.4	4.7*			2.7*	2.7*	6.8
	3.0	9.2	9.7*	5.0	6.4*	3.2	5.2*			2.4	2.7*	7.3
	1.5			4.6	7.6*	3.1	5.7*			2.3	2.9*	7.4
	0	6.0*	6.0*	4.4	8.2*	3.0	6.0*			2.3	3.2*	7.2
	-1.5	8.0	10.0*	4.3	8.0*	2.9	5.9*			2.5	3.9*	6.7
	-3.0	8.1	9.8*	4.4	6.9*					3.2	5.0*	5.7
LC	7.5									3.3*	3.3*	4.4
	6.0			4.6*	4.6*					2.8*	2.8*	6.0
	4.5			5.2*	5.2*	3.4	4.7*			2.7*	2.7*	6.8
	3.0	9.5	9.7*	5.1	6.4*	3.3	5.0			2.4	2.7*	7.3
	1.5			4.7	7.5	3.1	4.8			2.3	2.9*	7.4
	0	6.0*	6.0*	4.5	7.3	3.0	4.7			2.3	3.2*	7.2
	-1.5	8.3	10.0*	4.4	7.2	2.9	4.6			2.6	3.9*	6.7
	-3.0	8.4	9.8*	4.4	6.9*					3.2	5.0	5.7
LC Blade up	7.5									3.3*	3.3*	4.4
	6.0			4.6*	4.6*					2.8*	2.8*	6.0
	4.5			5.2*	5.2*	3.7	4.7*			2.7*	2.7*	6.8
	3.0	9.7*	9.7*	5.4	6.4*	3.5	5.0			2.6	2.7*	7.3
	1.5			5.0	7.6*	3.4	4.9			2.5	2.9*	7.4
	0	6.0*	6.0*	4.8	7.4	3.2	4.7			2.5	3.2*	7.2
	-1.5	8.9	10.0*	4.7	7.3	3.2	4.7			2.8	3.9*	6.7
	-3.0	9.1	9.8*	4.8	6.9*					3.5	5.0*	5.7
LC Blade down	7.5									3.3*	3.3*	4.4
	6.0			4.6*	4.6*					2.8*	2.8*	6.0
	4.5			5.2*	5.2*	3.9	4.7*			2.7*	2.7*	6.8
	3.0	9.7*	9.7*	5.7	6.4*	3.7	5.2*			2.7*	2.7*	7.3
	1.5			5.4	7.6*	3.6	5.7*			2.6	2.9*	7.4
	0	6.0*	6.0*	5.1	8.2*	3.4	6.0*			2.7	3.2*	7.2
	-1.5	9.6	10.0*	5.0	8.0*	3.4	5.9*			2.9	3.9*	6.7
	-3.0	9.8	9.8*	5.1	6.9*					3.7	5.0*	5.7

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 228 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.

[1] Values are calculated with 500 mm wide track pads for the NLC-Undercarriage

Stick 2.65 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m				m
NLC[1]	7.5			3.7*	3.7*					2.9*	2.9*	4.7
	6.0			4.3*	4.3*	3.0	3.4*			2.5*	2.5*	6.2
	4.5			4.7	4.9*	3.0	4.6*			2.3	2.4*	7.0
	3.0	8.1	9.1*	4.4	6.2*	2.8	4.9			2.0	2.4*	7.5
	1.5			4.0	7.4*	2.7	4.7	1.9	3.4	1.9	2.6*	7.6
	0	6.3*	6.3*	3.8	7.1	2.5	4.6			1.9	2.9*	7.4
	−1.5	6.7	9.6*	3.7	7.0	2.5	4.5			2.1	3.5*	6.9
	−3.0	6.9	10.2*	3.7	7.1					2.5	4.6	6.0
NLC[1] Blade up	7.5			3.7*	3.7*					2.9*	2.9*	4.7
	6.0			4.3*	4.3*	3.2	3.4*			2.5*	2.5*	6.2
	4.5			4.9*	4.9*	3.2	4.6*			2.4*	2.4*	7.0
	3.0	8.7	9.1*	4.7	6.2*	3.0	5.0			2.1	2.4*	7.5
	1.5			4.3	7.4*	2.9	4.8	2.1	3.4	2.0	2.6*	7.6
	0	6.3*	6.3*	4.1	7.2	2.8	4.6			2.1	2.9*	7.4
	−1.5	7.3	9.6*	4.0	7.1	2.7	4.6			2.2	3.5*	6.9
	−3.0	7.4	10.2*	4.0	7.1*					2.8	4.7	6.0
NLC[1] Blade down	7.5			3.7*	3.7*					2.9*	2.9*	4.7
	6.0			4.3*	4.3*	3.4*	3.4*			2.5*	2.5*	6.2
	4.5			4.9*	4.9*	3.4	4.6*			2.4*	2.4*	7.0
	3.0	9.1*	9.1*	5.0	6.2*	3.2	5.0*			2.3	2.4*	7.5
	1.5			4.6	7.4*	3.1	5.6*	2.2	3.4*	2.2	2.6*	7.6
	0	6.3*	6.3*	4.4	8.1*	2.9	6.0*			2.2	2.9*	7.4
	−1.5	7.9	9.6*	4.3	8.0*	2.9	5.9*			2.4	3.5*	6.9
	−3.0	8.1	10.2*	4.3	7.1*					3.0	4.8*	6.0
LC	7.5			3.7*	3.7*					2.9*	2.9*	4.7
	6.0			4.3*	4.3*	3.4*	3.4*			2.5*	2.5*	6.2
	4.5			4.9*	4.9*	3.4	4.6*			2.4*	2.4*	7.0
	3.0	9.1*	9.1*	5.1	6.2*	3.3	5.0			2.3	2.4*	7.5
	1.5			4.7	7.4*	3.1	4.8	2.2	3.4	2.2	2.6*	7.6
	0	6.3*	6.3*	4.4	7.2	3.0	4.6			2.2	2.9*	7.4
	−1.5	8.2	9.6*	4.3	7.1	2.9	4.6			2.4	3.5*	6.9
	−3.0	8.4	10.2*	4.4	7.1*					3.0	4.7	6.0
LC Blade up	7.5			3.7*	3.7*					2.9*	2.9*	4.7
	6.0			4.3*	4.3*	3.4*	3.4*			2.5*	2.5*	6.2
	4.5			4.9*	4.9*	3.7	4.6*			2.4*	2.4*	7.0
	3.0	9.1*	9.1*	5.4	6.2*	3.5	5.0*			2.4*	2.4*	7.5
	1.5			5.1	7.4*	3.4	4.9	2.4	3.4*	2.4	2.6*	7.6
	0	6.3*	6.3*	4.8	7.4	3.2	4.7			2.4	2.9*	7.4
	−1.5	8.9	9.6*	4.7	7.2	3.2	4.7			2.6	3.5*	6.9
	−3.0	9.0	10.2*	4.7	7.1*					3.2	4.7	6.0
LC Blade down	7.5			3.7*	3.7*					2.9*	2.9*	4.7
	6.0			4.3*	4.3*	3.4*	3.4*			2.5*	2.5*	6.2
	4.5			4.9*	4.9*	3.9	4.6*			2.4*	2.4*	7.0
	3.0	9.1*	9.1*	5.8	6.2*	3.7	5.0*			2.4*	2.4*	7.5
	1.5			5.4	7.4*	3.6	5.6*	2.6	3.4*	2.5	2.6*	7.6
	0	6.3*	6.3*	5.1	8.1*	3.4	6.0*			2.5	2.9*	7.4
	−1.5	9.6	9.6*	5.0	8.0*	3.4	5.9*			2.8	3.5*	6.9
	−3.0	9.7	10.2*	5.1	7.1*					3.4	4.8*	6.0

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 228 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.

[1] Values are calculated with 500 mm wide track pads for the NLC-Undercarriage

Lift capacities

with two-piece boom 5.30 m, counterweight 3.9 t and track pads 500 mm / 600 mm

Stick 2.25 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m				m
NLC[1]	9.0											
	7.5			4.8	5.0*					3.7*	3.7*	4.7
	6.0			5.0	6.0*	3.0	4.5*			2.8	3.2*	6.2
	4.5	8.9	9.1*	4.9	6.6*	3.1	5.1			2.2	3.0*	7.0
	3.0	8.5	10.2*	4.8	7.5*	3.1	5.1			1.9	2.9*	7.5
	1.5	8.4	11.1*	4.7	7.6	3.0	5.1	1.9	3.4	1.8	3.1*	7.6
	0	8.2	12.5*	4.5	7.7	2.8	4.9			1.9	3.3*	7.4
	-1.5	7.8	13.0*	4.3	7.8	2.6	4.7			2.1	3.7	6.9
	-3.0	7.7	13.2*	4.0	7.5					2.7	3.8*	5.7
	-4.5											
NLC[1] Blade up	9.0											
	7.5			5.0*	5.0*					3.7*	3.7*	4.7
	6.0			5.2	6.0*	3.2	4.5*			3.0	3.2*	6.2
	4.5	9.1*	9.1*	5.1	6.6*	3.3	5.2			2.4	3.0*	7.0
	3.0	8.9	10.2*	5.0	7.5*	3.3	5.1			2.1	2.9*	7.5
	1.5	8.8	11.1*	5.0	7.7	3.2	5.1	2.1	3.4	2.0	3.1*	7.6
	0	8.7	12.5*	4.8	7.7	3.0	4.9			2.0	3.3*	7.4
	-1.5	8.3	13.0*	4.6	7.9	2.8	4.8			2.2	3.8	6.9
	-3.0	8.3	13.2*	4.3	7.6					3.0	3.8*	5.7
	-4.5											
NLC[1] Blade down	9.0											
	7.5			5.0*	5.0*					3.7*	3.7*	4.7
	6.0			5.5	6.0*	3.4	4.5*			3.2*	3.2*	6.2
	4.5	9.1*	9.1*	5.4	6.6*	3.5	5.4*			2.5	3.0*	7.0
	3.0	9.5	10.2*	5.3	7.5*	3.5	5.8*			2.3	2.9*	7.5
	1.5	9.4	11.1*	5.3	8.1*	3.4	6.0*	2.2	4.4*	2.1	3.1*	7.6
	0	9.4	12.5*	5.1	8.2*	3.2	6.0*			2.2	3.3*	7.4
	-1.5	9.0	13.0*	4.9	8.4*	3.0	5.9*			2.4	3.9*	6.9
	-3.0	8.9	13.2*	4.6	7.6*					3.2	3.8*	5.7
	-4.5											
LC	9.0											
	7.5			5.0*	5.0*					3.7*	3.7*	4.7
	6.0			5.6	6.0*	3.4	4.5*			3.2*	3.2*	6.2
	4.5	9.1*	9.1*	5.5	6.6*	3.5	5.2			2.6	3.0*	7.0
	3.0	9.8	10.2*	5.4	7.5*	3.5	5.1			2.3	2.9*	7.5
	1.5	9.6	11.1*	5.3	7.7	3.4	5.1	2.2	3.4	2.2	3.1*	7.6
	0	9.7	12.5*	5.2	7.7	3.2	5.0			2.2	3.3*	7.4
	-1.5	9.4	13.0*	5.0	7.9	3.1	4.8			2.4	3.8	6.9
	-3.0	9.3	13.2*	4.7	7.6					3.2	3.8*	5.7
	-4.5											
LC Blade up	9.0											
	7.5			5.0*	5.0*					3.7*	3.7*	4.7
	6.0			5.9	6.0*	3.7	4.5*			3.2*	3.2*	6.2
	4.5	9.1*	9.1*	5.8	6.6*	3.8	5.2			2.8	3.0*	7.0
	3.0	10.2*	10.2*	5.7	7.5*	3.8	5.2			2.5	2.9*	7.5
	1.5	10.2	11.1*	5.6	7.8	3.7	5.2	2.4	3.5	2.3	3.1*	7.6
	0	10.3	12.5*	5.6	7.8	3.5	5.0			2.4	3.3*	7.4
	-1.5	10.0	13.0*	5.3	8.0	3.3	4.9			2.6	3.8	6.9
	-3.0	9.9	13.2*	5.1	7.6*					3.5	3.8*	5.7
	-4.5											
LC Blade down	9.0											
	7.5			5.0*	5.0*					3.7*	3.7*	4.7
	6.0			6.0*	6.0*	3.9	4.5*			3.2*	3.2*	6.2
	4.5	9.1*	9.1*	6.1	6.6*	4.0	5.4*			2.9	3.0*	7.0
	3.0	10.2*	10.2*	6.0	7.5*	4.0	5.8*			2.6	2.9*	7.5
	1.5	10.8	11.1*	5.9	8.1*	3.9	6.0*	2.6	4.4*	2.5	3.1*	7.6
	0	10.9	12.5*	5.9	8.2*	3.7	6.0*			2.5	3.3*	7.4
	-1.5	10.8	13.0*	5.7	8.4*	3.5	5.9*			2.8	3.9*	6.9
	-3.0	10.7	13.2*	5.4	7.6*					3.7	3.8*	5.7
	-4.5											

Stick 2.45 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m				m
NLC[1]	9.0											
	7.5			4.9	5.2*					3.3*	3.3*	5.0
	6.0			5.0	5.8*	3.0	4.8*			2.6	2.9*	6.4
	4.5	7.5*	7.5*	4.9	6.4*	3.1	5.1			2.1	2.7*	7.3
	3.0	8.5	10.2*	4.8	7.4*	3.1	5.1	2.0	3.4	1.9	2.7*	7.7
	1.5	8.3	11.0*	4.7	7.6	3.0	5.0	1.9	3.4	1.8	2.8*	7.8
	0	8.2	12.4*	4.5	7.6	2.8	4.9	1.9	3.3	1.8	3.0*	7.6
	-1.5	7.8	13.0*	4.3	7.8	2.6	4.7			2.0	3.5*	7.1
	-3.0	7.7	13.3*	4.0	7.5	2.5	4.0*			2.5	3.5*	6.1
	-4.5											
NLC[1] Blade up	9.0											
	7.5			5.2*	5.2*					3.3*	3.3*	5.0
	6.0			5.3	5.8*	3.2	4.8*			2.8	2.9*	6.4
	4.5	7.5*	7.5*	5.1	6.4*	3.3	5.2			2.3	2.7*	7.3
	3.0	8.9	10.2*	5.0	7.4*	3.3	5.1	2.1	3.5	2.0	2.7*	7.7
	1.5	8.8	11.0*	5.0	7.6	3.2	5.1	2.1	3.4	1.9	2.8*	7.8
	0	8.8	12.4*	4.8	7.7	3.0	5.0	2.0	3.4	1.9	3.0*	7.6
	-1.5	8.3	13.0*	4.6	7.9	2.9	4.8			2.1	3.5*	7.1
	-3.0	8.3	13.3*	4.3	7.6	2.8	4.0*			2.7	3.5*	6.1
	-4.5											
NLC[1] Blade down	9.0											
	7.5			5.2*	5.2*					3.3*	3.3*	5.0
	6.0			5.5	5.8*	3.4	4.8*			2.9*	2.9*	6.4
	4.5	7.5*	7.5*	5.4	6.4*	3.5	5.3*			2.4	2.7*	7.3
	3.0	9.5	10.2*	5.3	7.4*	3.5	5.7*	2.3	4.1*	2.2	2.7*	7.7
	1.5	9.3	11.0*	5.2	8.1*	3.4	5.9*	2.2	4.7*	2.1	2.8*	7.8
	0	9.4	12.4*	5.1	8.2*	3.2	6.0*	2.2	4.4*	2.1	3.0*	7.6
	-1.5	9.0	13.0*	4.9	8.3*	3.0	6.0*			2.3	3.5*	7.1
	-3.0	9.0	13.3*	4.6	8.0*	3.0	4.0*			2.9	3.5*	6.1
	-4.5											
LC	9.0											
	7.5			5.2*	5.2*					3.3*	3.3*	5.0
	6.0			5.6	5.8*	3.5	4.8*			2.9*	2.9*	6.4
	4.5	7.5*	7.5*	5.5	6.4*	3.6	5.2			2.4	2.7*	7.3
	3.0	9.8	10.2*	5.4	7.4*	3.5	5.1	2.3	3.5	2.2	2.7*	7.7
	1.5	9.6	11.0*	5.3	7.7	3.5	5.1	2.2	3.4	2.1	2.8*	7.8
	0	9.7	12.4*	5.2	7.7	3.3	5.0	2.2	3.4	2.1	3.0*	7.6
	-1.5	9.4	13.0*	5.0	7.9	3.1	4.8			2.3	3.5*	7.1
	-3.0	9.3	13.3*	4.7	7.6	3.0	4.0*			2.9	3.5*	6.1
	-4.5											
LC Blade up	9.0											
	7.5			5.2*	5.2*					3.3*	3.3*	5.0
	6.0			5.8*	5.8*	3.7	4.8*			2.9*	2.9*	6.4
	4.5	7.5*	7.5*	5.8	6.4*	3.8	5.2			2.6	2.7*	7.3
	3.0	10.2*	10.2*	5.7	7.4*	3.8	5.2	2.5	3.5	2.4	2.7*	7.7
	1.5	10.1	11.0*	5.6	7.7	3.7	5.1	2.4	3.5	2.2	2.8*	7.8
	0	10.2	12.4*	5.6	7.8	3.5	5.0	2.4	3.4	2.3	3.0*	7.6
	-1.5	10.0	13.0*	5.3	8.0	3.3	4.9			2.5	3.5*	7.1
	-3.0	9.9	13.3*	5.1	7.7	3.2	4.0*			3.1	3.5*	6.1
	-4.5											
LC Blade down	9.0											
	7.5			5.2*	5.2*					3.3*	3.3*	5.0
	6.0			5.8*	5.8*	3.9	4.8*			2.9*	2.9*	6.4
	4.5	7.5*	7.5*	6.1	6.4*	4.0	5.3*			2.7*	2.7*	7.3
	3.0	10.2*	10.2*	6.0	7.4*	4.0	5.7*	2.6	4.1*	2.5	2.7*	7.7
	1.5	10.7	11.0*	5.9	8.1*	3.9	5.9*	2.6	4.7*	2.4	2.8*	7.8
	0	10.8	12.4*	5.9	8.2*	3.7	6.0*	2.5	4.4*	2.4	3.0*	7.6
	-1.5	10.8	13.0*	5.7	8.3*	3.5	6.0*			2.7	3.5*	7.1
	-3.0	10.7	13.3*	5.4	8.0*	3.4	4.0*			3.3	3.5*	6.1
	-4.5											

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

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads with adjusting cylinder in optimal position. 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 228 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.
[1] Values are calculated with 500 mm wide track pads for the NLC-Undercarriage

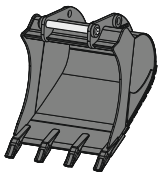
Stick 2.65 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m				m
	9.0									4.6*	4.6*	**2.8**
	7.5			4.9	5.0*					3.0*	3.0*	**5.3**
	6.0			5.0	5.4*	3.1	4.7*			2.5	2.6*	**6.7**
	4.5	6.2*	6.2*	4.9	6.2*	3.1	5.1			2.0	2.4*	**7.5**
NLC[1]	3.0	8.5	10.1*	4.7	7.2*	3.1	5.0	2.0	3.5	1.8	2.4*	**7.9**
	1.5	8.3	11.0*	4.7	7.5	3.0	5.0	1.9	3.4	1.7	2.5*	**8.0**
	0	8.3	12.2*	4.5	7.6	2.9	4.9	1.9	3.3	1.7	2.7*	**7.8**
	-1.5	7.8	12.9*	4.3	7.8	2.7	4.7			1.9	3.1*	**7.4**
	-3.0	7.7	13.3*	4.0	7.5	2.5	4.6			2.3	3.2*	**6.5**
	-4.5	7.5	8.7*							5.8	6.8*	**3.5**
	9.0									4.6*	4.6*	**2.8**
	7.5			5.0*	5.0*					3.0*	3.0*	**5.3**
	6.0			5.3	5.4*	3.3	4.7*			2.6*	2.6*	**6.7**
	4.5	6.2*	6.2*	5.1	6.2*	3.4	5.2			2.2	2.4*	**7.5**
NLC[1] Blade up	3.0	8.9	10.1*	5.0	7.2*	3.3	5.1	2.1	3.5	1.9	2.4*	**7.9**
	1.5	8.7	11.0*	4.9	7.6	3.2	5.1	2.1	3.5	1.8	2.5*	**8.0**
	0	8.8	12.2*	4.8	7.6	3.1	5.0	2.0	3.4	1.9	2.7*	**7.8**
	-1.5	8.3	12.9*	4.6	7.9	2.9	4.8			2.0	3.1*	**7.4**
	-3.0	8.2	13.3*	4.3	7.6	2.7	4.6*			2.4	3.2*	**6.5**
	-4.5	8.0	8.7*							6.3	6.8*	**3.5**
	9.0									4.6*	4.6*	**2.8**
	7.5			5.0*	5.0*					3.0*	3.0*	**5.3**
	6.0			5.4*	5.4*	3.5	4.7*			2.6*	2.6*	**6.7**
	4.5	6.2*	6.2*	5.4	6.2*	3.6	5.2*			2.3	2.4*	**7.5**
NLC[1] Blade down	3.0	9.5	10.1*	5.3	7.2*	3.5	5.6*	2.3	4.6*	2.1	2.4*	**7.9**
	1.5	9.3	11.0*	5.2	8.0*	3.4	5.9*	2.2	4.7*	2.0	2.5*	**8.0**
	0	9.4	12.2*	5.1	8.1*	3.3	5.9*	2.2	4.5*	2.0	2.7*	**7.8**
	-1.5	9.0	12.9*	4.9	8.2*	3.1	6.1*			2.2	3.1*	**7.4**
	-3.0	8.9	13.3*	4.6	8.2*	2.9	4.6*			2.6	3.2*	**6.5**
	-4.5	8.7*	8.7*							6.8	6.8*	**3.5**
	9.0									4.6*	4.6*	**2.8**
	7.5			5.0*	5.0*					3.0*	3.0*	**5.3**
	6.0			5.4*	5.4*	3.5	4.7*			2.6*	2.6*	**6.7**
	4.5	6.2*	6.2*	5.5	6.2*	3.6	5.2			2.3	2.4*	**7.5**
LC	3.0	9.8	10.1*	5.4	7.2*	3.6	5.1	2.3	3.5	2.1	2.4*	**7.9**
	1.5	9.6	11.0*	5.3	7.6	3.5	5.1	2.3	3.5	2.0	2.5*	**8.0**
	0	9.6	12.2*	5.2	7.6	3.3	5.0	2.2	3.4	2.0	2.7*	**7.8**
	-1.5	9.4	12.9*	5.0	7.9	3.1	4.8			2.2	3.1*	**7.4**
	-3.0	9.2	13.3*	4.7	7.6	3.0	4.6*			2.7	3.2*	**6.5**
	-4.5	8.7*	8.7*							6.8*	6.8*	**3.5**
	9.0									4.6*	4.6*	**2.8**
	7.5			5.0*	5.0*					3.0*	3.0*	**5.3**
	6.0			5.4*	5.4*	3.8	4.7*			2.6*	2.6*	**6.7**
	4.5	6.2*	6.2*	5.8	6.2*	3.8	5.2*			2.4*	2.4*	**7.5**
LC Blade up	3.0	10.1*	10.1*	5.7	7.2*	3.8	5.1	2.5	3.6	2.3	2.4*	**7.9**
	1.5	10.1	11.0*	5.6	7.7	3.7	5.1	2.5	3.5	2.2	2.5*	**8.0**
	0	10.2	12.2*	5.6	7.7	3.5	5.1	2.4	3.4	2.2	2.7*	**7.8**
	-1.5	10.0	12.9*	5.3	7.9	3.3	4.9			2.4	3.1*	**7.4**
	-3.0	9.9	13.3*	5.1	7.7	3.2	4.6*			2.9	3.2*	**6.5**
	-4.5	8.7*	8.7*							6.8*	6.8*	**3.5**
	9.0									4.6*	4.6*	**2.8**
	7.5			5.0*	5.0*					3.0*	3.0*	**5.3**
	6.0			5.4*	5.4*	4.0	4.7*			2.6*	2.6*	**6.7**
	4.5	6.2*	6.2*	6.1	6.2*	4.0	5.2*			2.4*	2.4*	**7.5**
LC Blade down	3.0	10.1*	10.1*	5.9	7.2*	4.0	5.6*	2.6	4.6*	2.4	2.4*	**7.9**
	1.5	10.7	11.0*	5.9	8.0*	3.9	5.9*	2.6	4.7*	2.3	2.5*	**8.0**
	0	10.7	12.2*	5.9	8.1*	3.7	5.9*	2.5	4.5*	2.3	2.7*	**7.8**
	-1.5	10.8	12.9*	5.7	8.2*	3.5	6.1*			2.5	3.1*	**7.4**
	-3.0	10.6	13.3*	5.4	8.2*	3.4	4.6*			3.1	3.2*	**6.5**
	-4.5	8.7*	8.7*							6.8*	6.8*	**3.5**

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

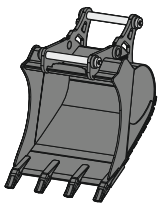
The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads with adjusting cylinder in optimal position. Indicated 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 228 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.
[1] Values are calculated with 500 mm wide track pads for the NLC-Undercarriage

Attachments



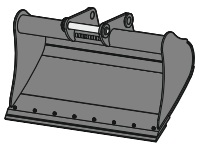
Backhoe bucket TL 03

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	m³	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



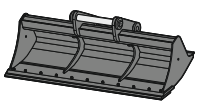
2in1 bucket HTL 03

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



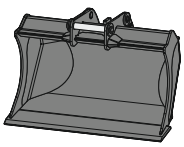
Universal bucket

Mounting		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink	
UL 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



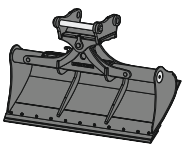
Ditch cleaning bucket GRL rigid 02

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



Grading bucket PL 03

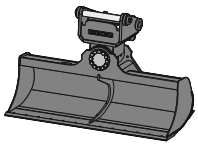
Mounting		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink	
Cutting width	mm	1,400	1,600
Capacity	m³	0.65	0.75
Weight[1)]	kg	350	390



Ditch cleaning bucket with hydraulic cylinder GRL 90

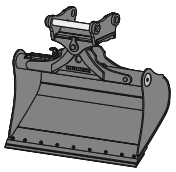
Mounting		direct mounting, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink									
Cutting width	mm	1,600	1,600	2,000	2,000	2,000	2,200	2,200	2,200	2,400	2,400	2,800
Capacity	m³	0.55	0.80	0.50	0.70	1.00	0.80	1.15	1.40	0.85	1.25	1.85
Weight[2)]	kg	690	850	695	875	935	910	985	995	890	1,000	1,090
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°	2 x 50°

[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



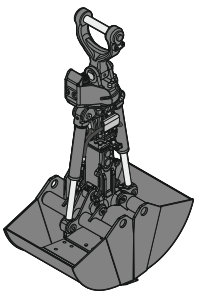
Ditch cleaning bucket with rotary motor GRLM 20

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°



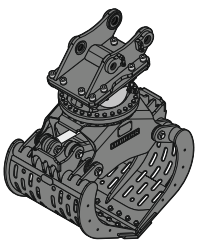
Tilt bucket with hydraulic cylinder SL 90

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
Capacity	m³	0.55	0.60	1.20	0.80	1.00	1.35	1.55
Weight[2]	kg	715	738	970	820	890	970	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°



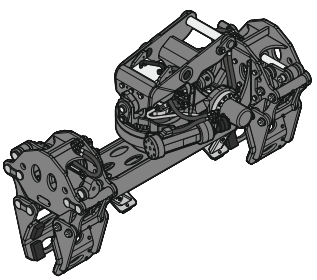
Clamshell grab

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]	m³	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]	m³	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



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				closed			
Shell width	mm	800	1,000	1,200	1,400	800	1,000	1,200	1,400
Capacity	m³	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[5]	kg	750	795	840	885	765	810	850	895
SG 20B with universal shell									
Shell width	mm	650							
Capacity	m³	0.15							
Max. closing force	kN	57							
Weight[6]	kg	831							

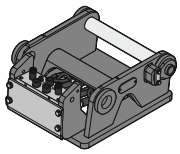


Parallel grab GMP 25 with pole clamp[8]

Mounting		SWA Solidlink 33-9
Clamp diameter min.	mm	250
Clamp diameter max.	mm	600
Weight[7]	kg	1,470

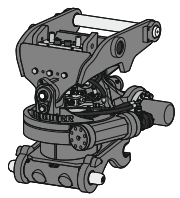
[1] based on an attachment in a standard design with SWA 33 Solidlink quick coupler mounting
[2] based on an attachment in a standard design with SWA 48 Solidlink quick coupler mounting
[3] capacity specifications are theoretically determined values; fill level varies depending on the material being loaded
[4] without suspension
[5] with standard bolt-on cutting edge, without quick coupler mounting
[6] with Liebherr teeth Z 35 C, without quick coupler mounting
[7] based on an attachment in a standard design with SWA Solidlink 33-9 quick coupler mounting
[8] on the machine side, a 14-pin signal contact strip and a power socket on the stick, switchable via signal contacts are always required

Attachments



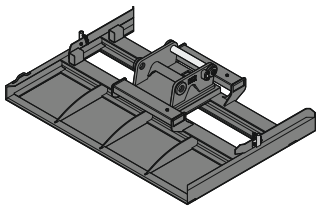
Adapter plate

SWA 33 / SWA 48						
Version		SWA 33	SWA 33 XL	SWA 48	SWA 48 XL	SWA 48 XXL
Weight[1]	kg	102	140	153	225	282
SWA 33 Solidlink / SWA 48 Solidlink						
Version		SWA 33 Solidlink	SWA 33 Solidlink XL	SWA 48 Solidlink	SWA 48 Solidlink XL	SWA 48 Solidlink XXL
Weight[2]	kg	145	182	210	281	338



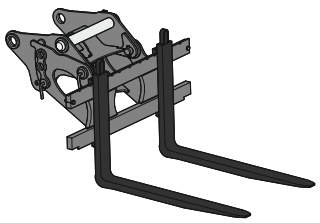
Tiltrotator TR 25

Mounting machine side		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink
Mounting attachment side		SWA 33 mechanical, SWA 33 hydraulic, SWA 48 mechanical, SWA 48 hydraulic
Weight[3]	kg	787
Rotation		360°
Tilt		2 x 50°



Grading beam PB 20

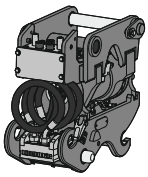
Mounting		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink
Cutting width	mm	2,500
Weight[4]	kg	627



Pallet fork

PG SWA 33 FEM III			
Mounting		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink	
Fork length	mm	1,200	1,500
Max. width pallet fork	mm	1,500	1,500
Lift capacity (ISO 2328)	t	5.0	5.0
Weight	kg	579	620
PG SWA 48 FEM II			
Mounting		SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink	
Fork length	mm	1,200	1,400
Max. width pallet fork	mm	1,245	1,245
Lift capacity (ISO 2328)	t	2.5	2.5
Weight	kg	345	378
PG SWA 48 FEM III			
Mounting		SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink	
Fork length	mm	1,200	1,500
Max. width pallet fork	mm	1,500	1,500
Lift capacity (ISO 2328)	t	5.0	5.0
Weight	kg	585	626

[1] based on a standard adapter plate with opening and with SWA 33 / SWA 48 quick coupler mounting
[2] based on a standard adapter plate with opening, with full hydraulic assignment and with SWA 33 Solidlink / SWA 48 Solidlink quick coupler mounting
[3] 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
[4] based on an attachment in a standard design with SWA 33 Solidlink quick coupler mounting

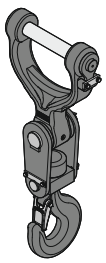


Tilt unit LiTiU 33[2)]

Mounting machine side		SWA 33 Solidlink
Mounting attachment side		SWA 33 hydraulic, SWA 33 Solidlink
Weight[1)]	kg	410
Tilt		2 x 50°

Load chain / Spreader bar

Load chain for SWA 33 quick coupler, with load hook		
Lift capacity (WLL)	t	6.7
Overall height	mm	536
Weight	kg	6
Load chain for SWA 33 quick coupler, without load hook		
Lift capacity (WLL)	t	6.7
Overall height	mm	246
Weight	kg	2
Spreader bar for SWA 33 quick coupler, with load hook		
Lift capacity (WLL)	t	10.0
Overall height	mm	745
Weight	kg	21.7



Load hook / Lifting shackle

Mounting		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink	
Version		Single load hook	Double load hook
Load hook			
Lift capacity (WLL)	t	12.5	12.5
Height	mm	545	535
Weight[3)]	kg	67	68
Load hook on rotary drive			
Lift capacity (WLL)	t	12.5	12.5
Height	mm	1,032	1,022
Weight[3)]	kg	344	345
Lifting shackle			
Lift capacity (WLL)	t	35	
Height	mm	226	
Weight[3)]	kg	26	

[1)] 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)
[2)] 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
[3)] without suspension

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Serial equipment

Undercarriage

Track components & tracks & steps
Lashing eyes
Track and carrier rollers, sealed and lifetime-lubricated

Uppercarriage

Hydraulic & engine
Filters accessible from ground level
Fuel fine filter
Fuel pre-filter and water separator
Power Pack EU Stage V
Pressure accumulator for controlled lowering of equipment with engine turned off
Counterweight & inspection
Counterweight standard 3.9 t
Options
Main switch accessible from ground level
Main switch, electric, with timer

Equipment

Boom
Pipe fracture safety valve for stick cylinder
Pipe fracture safety valves for boom cylinders

Control

Safety & operation
Automatic engine idling / speed increase
Horn
Modetronic
Positioning swing brake automatic
Hydraulic & control
10" colour touchscreen
Control pattern digital
DEF level on touchscreen
Display controller button
Display with haptic feedback
Fuel level on touchscreen
High pressure circuit with Tool Control
Hydraulic oil level on touchscreen
Joystick proximity sensor
Power modes
Start / Stop button
Touchpad 3.5"
Assistance systems
Smartphone interface

Cab

Interior
Air-conditioned bottle holder
Air-conditioned storage compartment
Armrests adjustable in length, height and inclination
Automatic air conditioning
Coat hook
Consoles linked to the seat and adjustable
Emergency hammer with seat belt cutter
Emergency stop hydraulic and engine in cab
Front windscreen washer mobile spray
Hand free kit
Inner temperature sensor
Interior lighting LED
Key storage
Liebherr Connect
Mood lighting LED
Outer temperature sensor
Radio Comfort
Roll-down sun blinds for windscreen and roof window
Seat belt reminder
Sockets in cab (USB)
Solar radiation sensor
Storage nets
Storage space backpack
Storage tablet
Tiltable console left with safety lever
Exterior
Bottom windscreen wiper
Cab air filters, accessible from ground level
Impact resistant roof window
Laminated right hand side window
Preparation for top and front guard FOPS-FGPS
Rain hood over front window opening
Rear window emergency exit
Windscreen wiper
Windshield washer fluid tank accessible from ground level
Use & operation
DEF consumption on touchscreen
Fuel consumption on touchscreen
ROPS
Swing braking torque adjustable
Switch between high pressure circuit and bucket cylinder

Equipment standard / option

Undercarriage

Track components & tracks & steps	
Chain guide 1 piece	●
Chain guide 3 pieces	+
Dozer and stabilizer blade 2,500 mm	+
Dozer and stabilizer blade 2,600 mm	+
Dozer and stabilizer blade 2,850 mm	+
Dozer and stabilizer blade 3,000 mm	+
Reinforced cover and base plate for undercarriage center section	+
Rubber track pads 600 mm	+
Steps	●
Steps wide	+
Track pads triple grouser 500 / 750 / 900 mm	+
Track pads triple grouser 600 mm	●
Undercarriage LC, track gauge 2,250 mm	●
Undercarriage NLC, track gauge 2,000 mm	+
Undercarriage storage compartment	+

Uppercarriage

Hydraulic & engine	
Air pre-filter with cyclonical dust trap	+
Automatic engine shutdown after idling (with timer)	+
Automatic engine shutdown after idling (without timer)	+
Bypass filter for hydraulic oil	+
Hydraulic oil, Liebherr Hydraulic Basic 100 (0 to +55 °C)	+
Hydraulic oil, Liebherr Hydraulic HVI (-20 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)	+
Preheating fuel	+
Radiator fine mesh protection grid	+
Reversible fan drive	+
Tank refilling pump fuel	+
Options	
Centralised lubrication automatic swing ring and equipment	●
Extended tool set including tool box	+
Headlight on uppercarriage, lateral right, LED+, 1 piece	+[1]
Headlights on uppercarriage, front, LED, 2 pieces, protections included	●[1]
Headlights on uppercarriage, front, LED+, 2 pieces, protections included	+[1]
Headlights on uppercarriage, rear, LED+, 2 pieces	+[1]
Lighting for cab access	+[1]
Reflective warning stickers	+
Socket on uppercarriage (24 V)	+
Tool set	●
Warning beacon on uppercarriage, rear, LED, 1 piece	+

Equipment

Boom	
Floating boom	+
Headlight guards on boom	+
Headlights on boom, LED, 2 pieces	●[1]
Headlights on boom, LED+, 2 pieces	+[1]
Mono boom 5.00 m	+
Two-piece boom 5.30 m	+
Stick & attachment mounting	
Bucket cylinder rod protection	+
Centralised lubrication automatic connecting link	+
Centralised lubrication automatic quick coupler	+
Coupling system Solidlink for quick coupler SWA 33	+
Coupling system Solidlink for quick coupler SWA 48	+
GPS for attachment (via 5-pin signal contacts)	+
GPS for attachment (via 14-pin signal contacts)	+
Headlights on stick, right and left, LED+, 2 pieces, protections included	+[1]
Lifting eye on stick 8.0 t (500 mm from stick end pin)	+
Load holding valve for bucket cylinder (both sides)	+
Quick coupler SWA 33 hydraulic	+
Quick coupler SWA 48 hydraulic	+
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)	+
Stick 2.25 m	+
Stick 2.45 m	+
Stick 2.65 m	+
Stick bottom protection	+

Cab

Interior	
2-points seat belt, 2"	●
2-points seat belt, 3"	+
3-points seat belt, 2"	+
Auxiliary heater programmable	+
Fire extinguisher	+
Footrest	+
Mobile phone holder with inductive charging	+
Multifunction mounting bracket	+
Operator's seat Comfort	●
Operator's seat Premium	+
Remote cab lock	+[1]
Roll-down sun blinds for rear and side window, right	+
Travel alarm system standard switchable	+
Travel pedals with travel levers removable	+
Exterior	
Electrically adjustable and heated outside rear-view mirrors	+
FGPS front guard with side opening	+
FOPS top guard	+
FOPS top guard flat	+
Headlight on cab, rear, LED+, 1 piece	+[1]
Headlights on cab, front, LED, 2 pieces	●[1]
Headlights on cab, front, LED+, 2 pieces	+[1]
Impact resistant one-piece windscreen	+
Lightbar on cab, LED	+
Rearview mirror on cab	●
Retractable laminated two-piece windscreen	●
Roof window wiper	+
Warning beacon foldable on cab, LED, 1 piece	+
Use & operation	
Filter for hydraulic hammer return flow	+
Leak oil line for attachment	+

Control

Safety & operation	
Overload warning system	+
Hydraulic & control	
Attachment continuous operation system	+
Double pedal, left	+
Double pedal, right	+
Joysticks Premium	●
Medium pressure circuit	+
Preparation for tiltrotator	+
Assistance systems	
MiC 4.0 BUS communication standard	+
Preparation for machine control system	+
Rear view and right hand side view monitoring cameras	●
Skyview 360°	+
Smart Key Comfort	+
Smart Key Standard	●

General

Coating & transport	
Special paint	+

Packages

Coming / Leaving Home	+[1]
Luminosity control (LED+ headlights)	+[1]

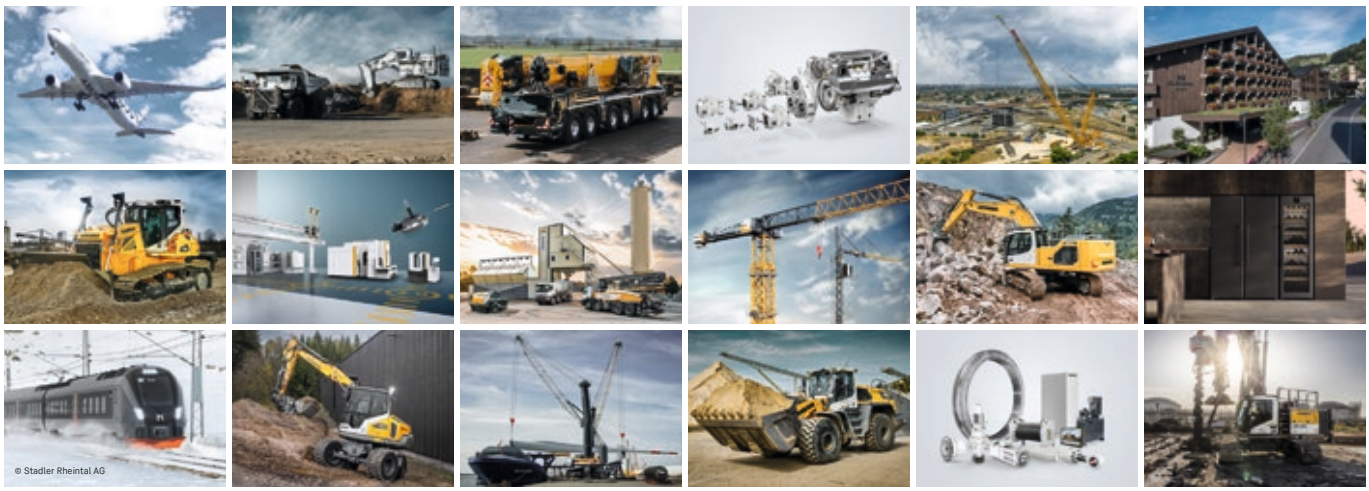
● = Standard, + = Option

[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



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