Crawler excavator

R 936

Litronic®

Motor:
170 kW / 231 HP

Stage IV / Tier 4f

Operating Weight:
30,950 – 38,650 kg

Bucket Capacity:
1.00 – 2.15 m³

LIEBHERR

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Performance
Precision and responsiveness

Efficiency
High level of productivity for a lower overall operating cost

Reliability
Result of ongoing improvements

Comfort
Spacious cab, ergonomic and with high-visibility

Maintainability
Simplified daily checks, longer maintenance intervals

Performance

Precision and responsiveness

Advanced techniques heighten performance
In its design offices, Liebherr combines the technological know-how of each area to create consistent and optimised integrated systems. Liebherr's electronics, Positive Control hydraulics, and even the engines are designed from the start to be interconnected and generate optimum operating power with fast and fluid movements.

Positive Control hydraulic system
Two working pumps for maximum excavation power and travel power, and a pump serving the rotation circuit provides power to the components involved. Thanks to the Positive Control system, the combined movements are optimised for each different work operation, whether this be levelling, extraction/loading or lifting, with or without travel.

Particularly fast work cycles
The work cycles of the R 936 are very fast thanks to the large sized transmission components. For example, the uppercarriage's swing drive can quickly reach its maximum speed with a high swing torque.

Operating pressure
Maximum digging and break-out forces can be reached thanks to the level of hydraulic pressure, without applying temporary overpressure. Maximum forces are therefore guaranteed continuously during the whole working phase to achieve a high level of production.

Liebherr Engine
- New Final Tier 4/Stage IV engine with SCR exhaust gas after-treatment system
- Designed specifically for construction applications
- Liebherr common rail injection system for optimised output
- Automatic fuel-saving idling system
- Fixed geometry turbo charger

Undercarriage
- Robust design for greater resistance and a better distribution of forces
- Easy and safe transport thanks to integrated securing hooks
- Three different types of undercarriages, one with variable gauge, adapted to different operating configurations and transport conditions

Wide range of operational possibilities
- Large number of equipment variants
- Versatile selection of undercarriage variants
- Attachments for all applications: short attachments for mass extractions, and long-reach, standard, luffing jib attachments

Efficiency

High level of productivity for a lower overall operating cost

Less fuel
The new 4-cylinder Liebherr engine, pursuant to the Final 4 Tier/Stage IV emission standards, comprises a diesel exhaust fluid injection device (SCR) for the after-treatment of exhaust gases, with no need for a particle filter, diesel oxidation catalyst or EGR. Associated with the latest technological advances in hydraulics, this engine consumes less fuel, both in terms of hours of operation and in terms of tons of material moved.

Increased productivity
Clearly enhanced performance thanks to new equipment and lower consumption, all in a comfortable and ergonomic work environment, lead to remarkable gains in productivity in all operating configurations.

Simplified and lower-cost maintenance
Non-slip platforms and ergonomic handles allow fast and easy access to all maintenance points not accessible from the ground. The absence of a particle filter reduces maintenance time, the cost of spare parts and filter regeneration operations.

Electronic power control
This control system allows the engine power to be effectively and optimally converted, from an energetic point of view, into hydraulic power. This is as a result of greater forces, a faster working speed and a lower fuel consumption.

Liebherr Lubricants
- Liebherr lubricants are specially developed for application in Liebherr earth moving and material handling machines and guarantee a long working life whilst simultaneously delivering the highest possible performance
- Being designed especially for your Liebherr machines, Liebherr lubricants contribute significantly to lowering your operating and maintenance costs.

Liebherr tools
- Wide range of tools suitable for every type of application
- Tools designed for maximum productivity and durability
- Shape of buckets designed to assist the filling and stability of bulky materials during the transport stages
- Hydraulic quick coupler system

Modular quick-change system made by Liebherr
- Likufix – connects all hydraulically mounted tools without having to leave the operator's cab, maximum productivity due to tool change being performed in a matter of seconds
- The suitable digging tool for every application. Your machine is a multifunctional tool carrier and will pay for itself very quickly indeed
- Mechanic and hydraulic Liebherr quick-change adapter

Reliability

Result of ongoing improvements

Quality in the minutest details
Robust and large-sized components, optimal fitting of electrical and hydraulic lines, or an exemplary level of finishing are just some of the many criteria that ensure a maximum quality of manufacture and operability.

A top-of-the-range anti-corrosion protection
A pre-assembly painting process guarantees that all painted parts are fully coated. The same quality can thus be guaranteed for all special colours specifically requested by the most exacting customers. This process is also compatible with additional protection treatments for machines operating in an aggressive saline environment.

Perfect match
The individual components of the power train, such as the diesel engine, gears, swing drive, working pumps and hydraulic cylinders are designed and manufactured by Liebherr. This means that they are all compatible with each other in a global system, guaranteeing greater reliability and a longer service life.

Automatic control of functionality
The operator can entirely focus on his job, because the integrated on-board electronic continuously performs a comparison with pre-determined target data. Eventual deviations from the target parameters are shown on the display.

SCR system with diesel exhaust fluid (AdBlue®)
- Liebherr design
- Complies with Final Tier 4/Stage IV standard
- No need for particle filters (DPF), diesel oxidation catalyst and EGR
- Simple system for enhanced reliability and less maintenance
- Diesel exhaust fluid level indicator on the display

Key technologies – Made by Liebherr
- Perfect matching of the components to construction machine operations
- Engine, hydraulic pumps, transfer gears, travel drives, slewing drives, slewing rings, and electronic components – all from the same source
- Main steel components, such as undercarriage, equipment modules, and slewing superstructure, all designed by Liebherr

Spare parts service
- Any spare parts required are available within 24 hours – worldwide. And that means high operational readiness of the machines, wherever, whenever
- Over 80,000 spare part references in stock at all times

Comfort

Spacious cab, ergonomic and with high-visibility

A first class work space

In this cab, the operator has a pneumatic seat with longitudinal and vertical damping, lots of space and a very comfortable and silent work environment. Depending on the operator's needs, the Liebherr Premium seat can also be chosen as an option. This seat offers maximum seating comfort thanks to its pneumatic lumbar support, its electronic weight-actuated height adjustor and its air-conditioning with activated charcoal and built-in fan. It is especially designed to meet the most exacting requirements of operators in terms of comfort, in all working situations.

Low noise level and vibrations

To diminish fatigue at work and increase productivity, the acoustic power inside the operator's cab is minimized. The cab is mounted on viscoelastic rivets to fully absorb the excavator's vibrations. The rubber flanges also support the pipes and actively participate in reducing external noise.

Uncompromised visibility

The very large glazed surface area and minimal area of uprights guarantee optimal visibility from the operator's platform, as well as a wide safety exit from the rear window for the operator's safety and peace of mind.

Ergonomic proportional manipulators

The proportional manipulators are very finely tuned controls for the sensitive, accurate and fluid operation of hydraulic tools. This type of control is ideal for an R 936 used in a variety of applications.

Touch-screen display

- 7-inch touch-screen with colour display
- Wide range of adjustment, check, and monitoring possibilities (including the engine oil level)
- Tough, reliable design (sealing tightness class IP 65)
- Video capacity with high resolution, reproduces the image from the rear area monitor camera in best possible quality

Increased visibility

- Rear camera integrated in the counterweight as standard (camera for side area monitoring optional), for rear visibility and heightened operating safety
- Optimized design of the whole uppercarriage providing the operator with an improved field of vision
- Retractable laminated glass roof panel
- Secure emergency exit through the rear window

New options

- Engine compartment lighting
- LED headlights with adjustable intensity
- 360° camera
- Follow me home (headlight cutoff delay)
- Windscreen wiper on bottom part from front window
- Preparation for automatic pedestrian detection system
- Preparation for machine guidance system
- Preparation for weighing system

Maintainability

Simplified daily checks, longer maintenance intervals

Simplified daily checks

The daily checks were taken into account from the start of the design, to make them simpler, more accessible and shorter. The engine oil or diesel exhaust fluid levels, for example, can be checked via the display in the operator's cab. The automatic centralised lubrication system can save precious intervention time, while guaranteeing that the excavator is in optimum operating condition and has a long life.

Longer service intervals

The frequency of the service intervals is optimised to guarantee that each part is operating optimally and that the maintenance operations are only performed as necessary. Whether it is the interval for changing the hydraulic oil, which can be up to 8,000 hours, or the interval for changing the engine oil, which can reach 2,000 hours, everything has been taken into account to reduce the frequency of interventions and thus limit the machine's downtime and reduce costs.

A maintenance-free exhaust gas treatment

Thanks to its unique Liebherr design, the exhaust gas treatment is carried out in compliance with the Final Tier 4 / Stage IV standards, without fitting a particle filter, diesel oxidation catalyst or EGR. This results a maximum reliability in an output with no loss of productivity linked to the regeneration of these filters and, of course, there is no maintenance time or cost for spare parts associated with this technology.

Expert advice and service provisions

Liebherr offers an expert advice service. Qualified personnel will help you make the appropriate decisions to meet your needs: sales arguments based on the terrain, service agreements, advantageous repair alternatives, original parts management, and remote data transfer for fleet management.

LiDAT data transfer system

- Complete fleet management, all from one source
- Optimized economical performance of the machine park thanks to detailed view of the distribution of operating states and times
- Reports on capacity commitment and the use of the machine park can be called up daily via the Web portal
- Precise location of the machine
- Regional delimitation and fixed downtimes increase safety and reliability

Hydraulic reservoir stop valve

- Easy and quick isolation of the oil circuit between hydraulic reservoir and hydraulic system
- No drainage of fluid necessary for service or repair work on the hydraulic system

Central lubrication system

- The fully-automatic central lubrication system, fitted as standard, allows for rapid maintenance: It saves time-consuming individual lubricating and downtime
- All the lubrication points on the superstructure of the undercarriage and the attachment hydraulics are supplied, with the exception of the connecting plate
- Engine oil level visible on display

Long live progress with the R 936

Equipment
- Cast steel components
- Greater resistance to stresses
- Optimal lifetime
- New equipment strengthened with more force

Tools
- Z-type Liebherr teeth for fast replacement
- Wide range of work tools
- QC48 and QC66 Liebherr quick-couplers both available

Undercarriage
- Special heat treatment for low wear and tear of drive sprockets
- A wide range of undercarriages suited to each application
- Robust construction

Operator's cab

- Comfortable and ergonomic
- 7" high resolution color touchscreen for heightened readability
- Rear window with improved visibility and integrated emergency exit
- Very large glazed surface area

Uppercarriage

- New Liebherr engine Stage IV / Tier 4f, 170 kW with Liebherr-SCR technology, without particle filter
- Optimized hydraulic system Positive Control with separate rotation system for optimal fluidity and movements precision
- Rear camera integrated in the counterweight
- Optimized design of the whole uppercarriage providing the operator with a better field of vision
- Automatic centralized lubrication as standard to reduce maintenance time and extend service life thanks to better lubrication

Technical Data

Engine

Rating per ISO 9249	170 kW (231 HP) at 1,800 RPM
Torque per ISO 9249	1,245 Nm at 1,100 RPM
Model	Liebherr D934 A7
Type	4 cylinder in-line
Bore / Stroke	122 / 150 mm
Displacement	7.0 l
Engine operation	4-stroke diesel Common-Rail, monoturbo
Exhaust gas treatment	SCR with urea injection emission standard stage IV / Tier 4f
Cooling system	water-cooled and integrated motor oil cooler, after-cooled and fuel cooled
Air cleaner	dry-type air cleaner with pre-cleaner, primary and safety elements
Fuel tank	561 l
Urea tank	65 l
Electrical system	
Voltage	24 V
Batteries	2 x 180 Ah / 12 V
Starter	24 V / 7.8 kW
Alternator	three-phase current 28 V / 140 A
Engine idling	sensor controlled
Motor management	connection to the integrated excavator system controlling via CAN-BUS to the economical utilisation of the service that is available

Hydraulic Controls

The controlling is conducted via the integrated excavator system technology, input and output modules, communicated via the CAN-BUS with the electronic central unit

Power distribution	via control valve with integrated safety valves
Servo circuit	
Attachment and swing	proportional via joystick levers
Travel	– with proportionally functioning foot pedals or adjusted with plugable levers – speed pre-selection
Additional functions	proportional regulation via foot pedals or rocker

Hydraulic System

Hydraulic system	Positive Control dual circuit hydraulic system for independent and need-based quantity allotment via the hydraulic pumps; sensor-guided features high system dynamics and sensitivity provided by integrated system controlling independent circuit for rotation
Hydraulic pump	
for attachment and travel drive	Liebherr, variable displacement, swashplate double pump
Max. flow	2 x 245 l/min.
Max. pressure	380 bar
for swing drive	reversible, variable flow, swashplate pump, closed-loop circuit
Max. flow	177 l/min.
Max. pressure	400 bar
Pump management	electronic pump management via the integrated system controlling (CAN-BUS) synchronous to the control block
Hydraulic tank	270 l
Hydraulic system	max. 480 l
Hydraulic oil filter	1 full flow filter (10 µm) in return line
Cooling system	compact cooler, consisting of a water cooler, sandwiched with hydraulic oil cooler, gearbox oil cooler, fuel cooler and after-cooler cores and hydrostatically driven fan
MODE selection	adjustment of engine and hydraulic performance via a mode pre-selector to match application, e.g. for especially economical and environmentally friendly operation or for maximum digging performance and heavy-duty jobs
RPM adjustment	stepless adjustment of engine output via RPM at each selected mode
Tool Control	10 preadjustable pump flows and pressures for add-on tools

Swing Drive

Drive	Liebherr swashplate motor
Transmission	Liebherr compact planetary reduction gear
Swing ring	Liebherr, sealed race ball bearing swing ring, internal teeth
Swing speed	0 – 9.1 RPM stepless
Swing torque	94 kNm
Holding brake	wet multi-disc (spring applied, pressure released)

Operator's Cab

Cab	ROPS safety cab structure with individual windscreens or featuring a slide-in subpart under the ceiling, work headlights integrated in the ceiling, a door with a sliding window (can be opened on both sides), large stowing and depositing possibilities, shock-absorbing suspension, sounddamping insulating, tinted laminated safety glass, separate window shades for the sunroof window and windscreen, cigarette lighter and 12 V plug, storage bins, lunchbox, cup holder
Operator's seat	Liebherr-Comfort seat, airsprung with automatic weight adjustment, vertical and longitudinal seat damping including consoles and joysticks. Seat and armrests adjustable separately and in combination, seat heating as standard
Control system	arm consoles, swinging with the seat
Operation and displays	large high-resolution colour display with selfexplanatory operation via touchscreen, video, versatile adjusting, control and monitoring facilities, e.g. climate control, implement and tool parameters
Air-conditioning	standard automatic air-conditioning fully controlled on the display, ambient air function, fast de-icing and demisting at the press of a button, air vents can be operated via a menu. Ambient air and fresh air filters can be easily replaced and are accessible from outside and standing on the ground. Heating-cooling unit, designed for extreme outside temperatures, sensors for solar radiation, inside and outside temperatures
Noise emission	
ISO 6396	L_{pA} (inside cab) = 69 dB(A)
2000/14/EC	L_{WA} (surround noise) = 103 dB(A)

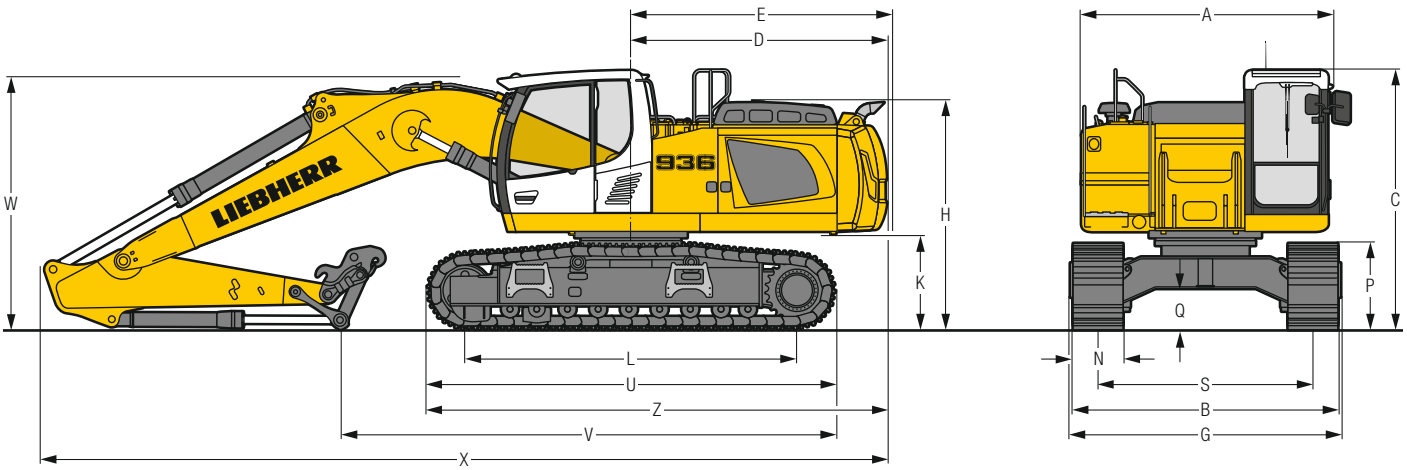
Undercarriage

Versions	
NLC	gauge 2,390 mm
LC	gauge 2,590 mm
LC-V	gauge 2,390 mm (transport position) gauge 2,890 mm (work position)
Drive	Liebherr swashplate motors with integrated brake valves on both sides
Transmission	Liebherr planetary reduction gears
Travel speed	NLC/LC: low range – 3.2 km/h high range – 5.2 km/h LC-V: low range – 2.8 km/h high range – 4.6 km/h
Net drawbar pull on crawler	NLC/LC: 257 kN LC-V: 294 kN
Track components	D7, maintenance-free
Track rollers / Carrier rollers	9/2
Tracks	sealed and greased
Track pads	triple grouser
Holding brake	wet multi-discs (spring applied, pressure released)
Brake valves	integrated into travel motor
Lashing eyes	integrated

Attachment

Type	combination of resistant steel plates and cast steels components
Hydraulic cylinders	Liebherr cylinders with special seal-system, shock protection
Bearings	sealed, low maintenance
Lubrication	automatic central lubrication system (except link and tilt geometry)
Hydraulic connections	pipes and hoses equipped with SAE splitflange connections
Bucket	standard equipped with Liebherr tooth system

Dimensions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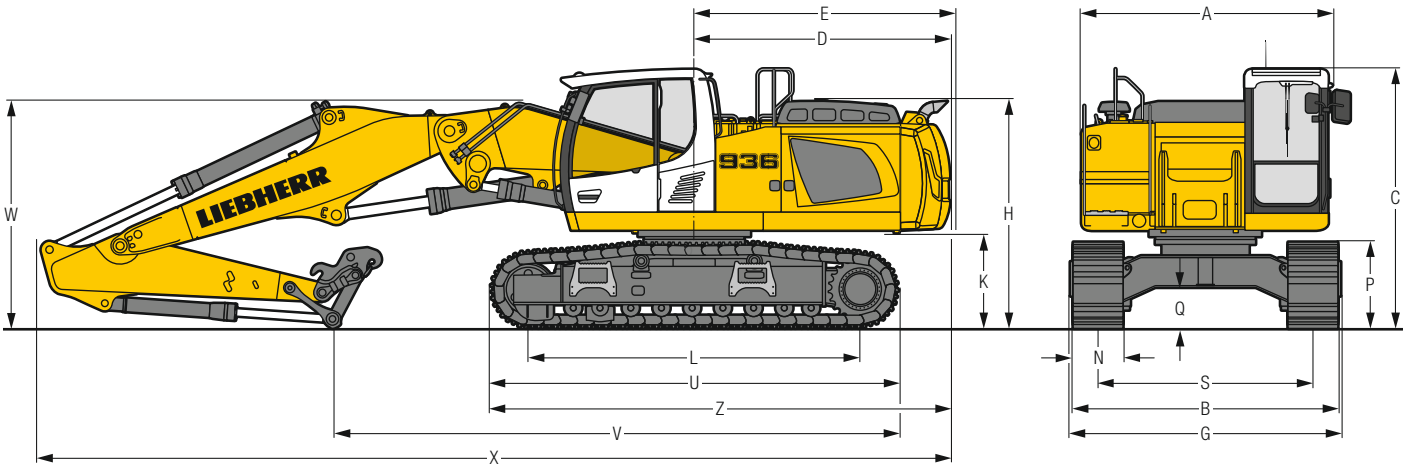
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	NLC				mm	LC				mm	LC-V				mm
A					2,995					2,995					2,995
C					3,130					3,130					3,260
D					3,085					3,085					3,085
E					3,155					3,155					3,155
H					2,760					2,760					2,880
K					1,150					1,150					1,270
L					4,000					4,000					4,108
P					1,050					1,050					1,115
Q					495					495					684
S					2,390					2,590					2,390 / 2,890*
U					4,920					4,920					5,010
N	500	600	750	900		500	600	750	900		500	600	750	900	
B	2,965	2,990	3,140	3,290		3,165	3,190	3,340	3,490		2,990	2,990	3,140	3,290	
G	2,990	2,990	3,330**	3,330**		3,190	3,190	3,530**	3,530**		3,285**	3,285**	3,285**	3,285**	
Z					5,545					5,545					5,590

* work position

** width with removable steps

NLC-Undercarriage

	Stick length mm	Mono boom 6.05 m mm	Straight mono boom 6.50 m mm	Two-piece boom 6.80 m mm
V	2.50	6,000	6,650	6,800
	2.80	5,700	6,450	6,450
	3.10	5,450	6,250	6,100
	3.90	4,750	5,750	5,150
W	2.50	3,050	2,950	2,850
	2.80	3,050	3,000	2,850
	3.10	3,100	3,100	2,900
	3.90	3,200	3,450	3,000
X	2.50	10,200	10,750	11,000
	2.80	10,250	10,750	11,000
	3.10	10,250	10,800	10,950
	3.90	10,300	10,800	10,850

LC-Undercarriage

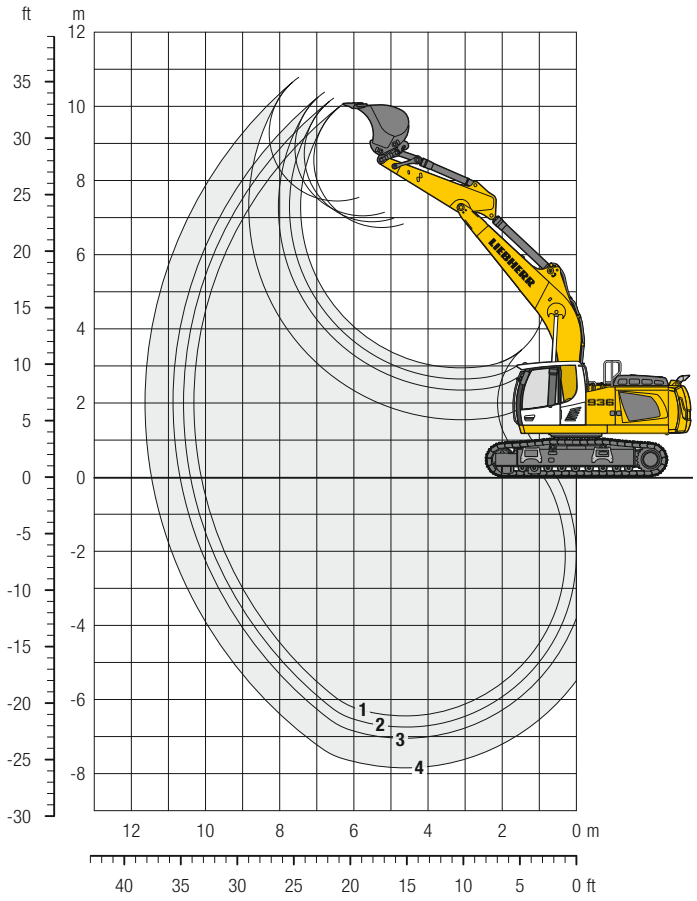
	Stick length mm	Mono boom 6.05 m mm	Straight mono boom 6.50 m mm	Two-piece boom 6.80 m mm
V	2.50	6,000	6,650	6,800
	2.80	5,700	6,450	6,450
	3.10	5,450	6,250	6,100
	3.90	4,750	5,750	5,150
W	2.50	3,050	2,950	2,850
	2.80	3,050	3,000	2,850
	3.10	3,100	3,100	2,900
	3.90	3,200	3,450	3,000
X	2.50	10,200	10,750	11,000
	2.80	10,250	10,750	11,000
	3.10	10,250	10,800	10,950
	3.90	10,300	10,800	10,850

LC-V-Undercarriage

	Stick length mm	Mono boom 6.05 m mm	Straight mono boom 6.50 m mm	Two-piece boom 6.80 m mm
V	2.50	6,000	6,600	6,800
	2.80	5,700	6,350	6,450
	3.10	5,400	6,150	6,100
	3.90	4,650	5,650	5,250
W	2.50	3,100	3,000	2,900
	2.80	3,100	3,000	2,900
	3.10	3,150	3,100	2,950
	3.90	3,200	3,450	3,050
X	2.50	10,200	10,750	11,000
	2.80	10,250	10,750	11,000
	3.10	10,250	10,800	10,950
	3.90	10,300	10,800	10,850

Backhoe Bucket

with Mono Boom 6.05 m and Counterweight 5.4 t



Digging Envelope

with quick coupler		1	2	3	4
Stick length	m	2.50	2.80	3.10	3.90
Max. digging depth	m	6.45	6.75	7.05	7.85
Max. reach at ground level	m	10.10	10.40	10.70	11.45
Max. dumping height	m	6.75	6.90	7.05	7.45
Max. teeth height	m	10.05	10.20	10.35	10.80

Digging Forces

with quick coupler		1	2	3	4
Digging force ISO	kN	163	152	142	121
	t	16.6	15.5	14.5	12.3
Breakout force ISO	kN	179	179	179	179
	t	18.2	18.2	18.2	18.2
without quick coupler					
Digging force ISO	kN	172	160	149	126
	t	17.5	16.3	15.2	12.8
Breakout force ISO	kN	207	207	207	207
	t	21.1	21.1	21.1	21.1

Operating Weight and Ground Pressure

The operating weight includes the basic machine with counterweight 5.4 t, mono boom 6.05 m, stick 2.50 m, quick coupler SW66 and bucket 1.00 m³ (960 kg).

Undercarriage		NLC			LC		
Pad width	mm	500	600	750	500	600	750
Weight	kg	30,950	31,300	32,250	31,050	31,400	32,350
Ground pressure	kg/cm²	0.72	0.61	0.50	0.72	0.61	0.50

Undercarriage		LC-V		
Pad width	mm	500	600	750
Weight	kg	34,850	35,300	35,950
Ground pressure	kg/cm²	0.79	0.67	0.54

Optional: counterweight 6.3 t
(counterweight 6.3 t increases the operating weight by 900 kg and ground pressure by 0.02 kg/cm²) see load tables on page 26

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

	Cutting width	Capacity ISO 7451	Weight[2]	Weight[3]	NLC-Undercarriage								LC-Undercarriage								LC-V-Undercarriage							
					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			
	mm	m³	kg	kg	2.50	2.80	3.10	3.90	2.50	2.80	3.10	3.90	2.50	2.80	3.10	3.90	2.50	2.80	3.10	3.90	2.50	2.80	3.10	3.90	2.50	2.80	3.10	3.90
STD[1]	1,050	1.00	940	960	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.25	1,070	1,090	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,400	1.45	1,140	1,160	▲	▲	▲	■	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	■
	1,550	1.60	1,210	1,230	▲	▲	▲	▲	▲	▲	■	■	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲
	1,650	1.75	1,300	1,320	▲	▲	■	■	▲	■	▲	△	▲	▲	▲	■	▲	▲	■	■	▲	▲	▲	■	▲	▲	▲	■
	1,550	1.85	1,300	1,310	▲	■	▲	△	■	■	▲	△	▲	▲	■	■	▲	▲	■	△	▲	▲	▲	■	▲	▲	▲	△
	1,650	2.00	1,390	1,410	■	▲	■	△	▲	■	■	△	▲	■	▲	△	■	■	▲	△	▲	▲	▲	△	▲	▲	▲	△
	1,750	2.15	1,550	–	▲	■	△	–	–	–	–	–	■	▲	■	△	–	–	–	–	▲	▲	■	△	–	–	–	–

* Indicated loads are based on ISO 10567, at maximum reach, and may be swung 360° on firm and even ground
[1] Standard bucket with teeth Z 50
[2] Bucket for direct mounting
[3] Bucket for mounting to quick coupler
Other buckets available upon request

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

Lift Capacities

with Mono Boom 6.05 m and Counterweight 5.4 t

Stick 2.50 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				m
10.5	NLC															
	LC															
	LC-V															
9.0	NLC															
	LC															
	LC-V															
7.5	NLC					8.1	8.9*							5.9*	5.9*	
	LC					8.8	8.9*							5.9*	5.9*	6.4
	LC-V					8.8*	8.8*							5.9*	5.9*	
6.0	NLC					8.0	9.0*							5.5*	5.5*	
	LC					8.7	9.0*							5.5*	5.5*	7.4
	LC-V					9.0*	9.0*	5.7*	5.7*					5.5*	5.5*	
4.5	NLC	18.8*	18.8*	11.8	12.3*	7.7	9.9*	5.5	8.7*					4.9	5.5*	
	LC	18.8*	18.8*	12.3*	12.3*	8.4	9.9*	6.0	8.7*					5.3	5.5*	8.1
	LC-V			12.5*	12.5*	10.0*	10.0*	7.4	8.7*					5.5*	5.5*	
3.0	NLC			10.8	14.9*	7.3	11.0*	5.3	8.8					4.5	5.6*	
	LC			12.0	14.9*	8.0	11.0*	5.8	8.8					4.9	5.6*	8.4
	LC-V			15.1*	15.1*	10.0	11.1*	7.2	9.2*					5.6*	5.6*	
1.5	NLC			10.2	16.5*	6.9	11.9*	5.1	8.6					4.3	6.0*	
	LC			11.3	16.5*	7.6	11.9*	5.6	8.6					4.7	6.0*	8.5
	LC-V			14.5	16.5*	9.6	12.0*	7.1	9.6*					6.0	6.0*	
0	NLC			10.0	16.5*	6.7	11.8	5.0	8.5					4.5	6.7*	
	LC			11.0	16.5*	7.4	11.8	5.5	8.5					4.9	6.7*	8.2
	LC-V			14.3	16.5*	9.4	12.3*	6.9	9.7*					6.2	6.7*	
−1.5	NLC	14.9*	14.9*	10.0	15.5*	6.7	11.7	5.0	8.5					4.8	7.9*	
	LC	14.9*	14.9*	11.0	15.5*	7.3	11.7	5.5	8.5					5.3	7.9*	7.7
	LC-V	15.7*	15.7*	14.3	15.4*	9.3	11.7*	7.0	9.0*					6.8	8.0*	
−3.0	NLC	17.2*	17.2*	10.1	13.5*	6.8	10.3*							5.8	8.5*	
	LC	17.2*	17.2*	11.2	13.5*	7.4	10.3*							6.3	8.5*	6.8
	LC-V	16.9*	16.9*	13.2*	13.2*	9.5	10.1*							8.2	8.4*	
−4.5	NLC			9.5*	9.5*									7.5*	7.5*	
	LC			9.5*	9.5*									7.5*	7.5*	5.4
	LC-V															
−6.0	NLC															
	LC															
	LC-V															

Stick 2.80 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				m
10.5	NLC															
	LC															
	LC-V															
9.0	NLC															
	LC															
	LC-V															
7.5	NLC					8.2	8.3*							5.2*	5.2*	
	LC					8.3*	8.3*							5.2*	5.2*	6.8
	LC-V					8.3*	8.3*							5.1*	5.1*	
6.0	NLC					8.1	8.6*	5.6	7.1*					4.9*	4.9*	
	LC					8.6*	8.6*	6.1	7.1*					4.9*	4.9*	7.8
	LC-V					8.6*	8.6*	7.6*	7.6*					4.8*	4.8*	
4.5	NLC			11.6*	11.6*	7.7	9.5*	5.5	8.4*					4.6	4.8*	
	LC			11.6*	11.6*	8.4	9.5*	6.0	8.4*					4.8*	4.8*	8.4
	LC-V	17.7*	17.7*	11.9*	11.9*	9.6*	9.6*	7.5	8.4*					4.8*	4.8*	
3.0	NLC			11.0	14.3*	7.3	10.7*	5.3	8.8					4.2	4.9*	
	LC			12.1	14.3*	8.0	10.7*	5.8	8.8					4.6	4.9*	8.7
	LC-V			14.5*	14.5*	10.0	10.8*	7.2	9.0*					4.9*	4.9*	
1.5	NLC			10.2	16.1*	6.9	11.7*	5.1	8.6					4.1	5.2*	
	LC			11.3	16.1*	7.6	11.7*	5.6	8.6					4.5	5.2*	8.8
	LC-V			14.5	16.2*	9.6	11.8*	7.0	9.5*					5.2*	5.2*	
0	NLC			9.9	16.5*	6.7	11.7	5.0	8.4					4.2	5.8*	
	LC			11.0	16.5*	7.3	11.8	5.5	8.5					4.6	5.8*	8.5
	LC-V			14.2	16.5*	9.4	12.2*	6.9	9.6*					5.8*	5.8*	
−1.5	NLC	14.4*	14.4*	9.9	15.8*	6.6	11.6	4.9	8.4					4.6	6.7*	
	LC	14.4*	14.4*	10.9	15.8*	7.3	11.7	5.4	8.4					5.0	6.7*	8.0
	LC-V	15.0*	15.0*	14.2	15.7*	9.3	11.8*	6.9	9.2*					6.4	6.8*	
−3.0	NLC	18.4*	18.4*	10.0	14.0*	6.7	10.6*							5.3	8.2*	
	LC	18.4*	18.4*	11.1	14.0*	7.3	10.6*							5.8	8.2*	7.2
	LC-V	18.1*	18.1*	13.8*	13.8*	9.4	10.5*							7.5	8.2*	
−4.5	NLC			10.4	10.5*									7.3	7.5*	
	LC			10.5*	10.5*									7.5*	7.5*	5.8
	LC-V			10.1*	10.1*									7.4*	7.4*	
−6.0	NLC															
	LC															
	LC-V															

Stick 3.10 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				m
10.5	NLC															
	LC															
	LC-V															
9.0	NLC															
	LC															
	LC-V															
7.5	NLC													4.5*	4.5*	
	LC													4.5*	4.5*	7.1
	LC-V													4.5*	4.5*	
6.0	NLC					8.1	8.2*	5.7	7.7*					4.3*	4.3*	
	LC					8.2*	8.2*	6.2	7.7*					4.3*	4.3*	8.1
	LC-V					8.2*	8.2*	7.6	7.8*					4.3*	4.3*	
4.5	NLC			11.0*	11.0*	7.8	9.1*	5.5	8.1*					4.2*	4.2*	
	LC			11.0*	11.0*	8.5	9.1*	6.0	8.1*					4.2*	4.2*	8.7
	LC-V			11.2*	11.2*	9.2*	9.2*	7.5	8.1*					4.2*	4.2*	
3.0	NLC			11.1	13.7*	7.3	10.3*	5.3	8.7*					4.0	4.3*	
	LC			12.2	13.7*	8.0	10.3*	5.8	8.7*					4.3*	4.3*	9.0
	LC-V			13.9*	13.9*	10.0	10.4*	7.2	8.7*	4.4*	4.4*			4.4*	4.4*	
1.5	NLC			10.3	15.8*	6.9	11.5*	5.1	8.6	3.9	5.1*			3.9	4.6*	
	LC			11.4	15.8*	7.6	11.5*	5.6	8.6	4.3	5.1*			4.3	4.6*	9.0
	LC-V			14.6	15.9*	9.6	11.5*	7.0	9.3*	5.0*	5.0*			4.6*	4.6*	
0	NLC	7.9*	7.9*	9.9	16.5*	6.7	11.7	4.9	8.4					4.0	5.0*	
	LC	7.9*	7.9*	11.0	16.5*	7.3	11.7	5.4	8.4					4.3	5.0*	8.8
	LC-V	8.4*	8.4*	14.2	16.5*	9.3	12.1*	6.9	9.5*					5.1*	5.1*	
−1.5	NLC	13.8*	13.8*	9.8	16.0*	6.5	11.6	4.9	8.3					4.3	5.8*	
	LC	13.8*	13.8*	10.9	16.0*	7.2	11.6	5.3	8.3					4.7	5.8*	8.3
	LC-V	14.4*	14.4*	14.1	15.9*	9.2	11.9*	6.8	9.3*					5.9*	5.9*	
−3.0	NLC	19.3	19.5*	9.9	14.4*	6.6	10.9*	5.0	7.8*					4.9	7.3*	
	LC	19.5*	19.5*	11.0	14.4*	7.2	10.9*	5.4	7.8*					5.4	7.3*	7.5
	LC-V	19.2*	19.2*	14.2	14.2*	9.3	10.8*							7.0	7.5*	
−4.5	NLC	14.9*	14.9*	10.2	11.3*	6.8	8.2*							6.5	7.5*	
	LC	14.9*	14.9*	11.3	11.3*	7.5	8.2*							7.1	7.5*	6.2
	LC-V	14.4*	14.4*	11.0*	11.0*	7.7*	7.7*							7.4*	7.4*	
−6.0	NLC															
	LC															
	LC-V															

Stick 3.90 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				m
10.5	NLC															
	LC															
	LC-V															
9.0	NLC													3.7*	3.7*	
	LC													3.7*	3.7*	6.8
	LC-V													3.7*	3.7*	
7.5	NLC							5.5*	5.5*					3.4*	3.4*	
	LC							5.5*	5.5*					3.4*	3.4*	8.1
	LC-V							5.7*	5.7*					3.3*	3.3*	
6.0	NLC							5.8	6.9*					3.2*	3.2*	
	LC							6.3	6.9*					3.2*	3.2*	8.9
	LC-V							6.9*	6.9*					3.2*	3.2*	
4.5	NLC					8.0	8.1*	5.6	7.4*	4.2	5.6*			3.2*	3.2*	
	LC					8.1*	8.1*	6.1	7.4*	4.5	5.6*			3.2*	3.2*	9.5
	LC-V					8.2*	8.2*	7.4*	7.4*	5.7	5.7*			3.2*	3.2*	
3.0	NLC	18.9*	18.9*	11.6	12.1*	7.5	9.5*	5.4	8.1*	4.1	6.7			3.2*	3.2*	
	LC	18.9*	18.9*	12.1*	12.1*	8.2	9.5*	5.9	8.1*	4.4	6.7			3.2*	3.2*	9.7
	LC-V	19.6*	19.6*	12.4*	12.4*	9.6*	9.6*	7.3	8.1*	5.6	7.1*			3.2*	3.2*	
1.5	NLC	8.3*	8.3*	10.6	14.7*	7.1	10.8*	5.1	8.6	3.9	6.6			3.4*	3.4*	
	LC	8.3*	8.3*	11.7	14.7*	7.7	10.8*	5.6	8.7	4.3	6.6			3.4*	3.4*	9.8
	LC-V	8.2*	8.2*	14.9*	14.9*	9.7	10.9*	7.1	8.8*	5.4	7.5			3.4*	3.4*	
0	NLC	9.3*	9.3*	10.0	16.1*	6.7	11.7*	4.9	8.4	3.8	6.4			3.5	3.7*	
	LC	9.3*	9.3*	11.1	16.1*	7.4	11.7*	5.4	8.4	4.2	6.5			3.7*	3.7*	9.6
	LC-V	9.5*	9.5*	14.3	16.2*	9.4	11.8*	6.9	9.3*	5.3	7.4			3.7*	3.7*	
−1.5	NLC	12.8*	12.8*	9.7	16.3*	6.5	11.5	4.8	8.3	3.8	5.8*			3.7	4.2*	
	LC	12.8*	12.8*	10.8	16.3*	7.2	11.6	5.3	8.3	4.1	5.8*			4.1	4.2*	9.2
	LC-V	13.1*	13.1*	14.0	16.3*	9.2	12.0*	6.7	9.4*	5.3	5.4*			4.2*	4.2*	
−3.0	NLC	17.7*	17.7*	9.7	15.4*	6.5	11.5	4.8	8.2					4.2	5.1*	
	LC	17.7*	17.7*	10.8	15.4*	7.1	11.5*	5.3	8.3					4.6	5.1*	8.4
	LC-V	18.2*	18.2*	14.0	15.3*	9.1	11.4*	6.7	8.8*					5.2*	5.2*	
−4.5	NLC	18.3*	18.3*	9.9	13.2*	6.6	9.9*							5.1	6.9*	
	LC	18.3*	18.3*	11.0	13.2*	7.2	9.9*							5.6	6.9*	7.3
	LC-V	17.9*	17.9*	13.0*	13.0*	9.3	9.7*							7.1*	7.1*	
−6.0	NLC			8.8*	8.8*									7.8*	7.8*	
	LC			8.8*	8.8*									7.8*	7.8*	5.0
	LC-V															

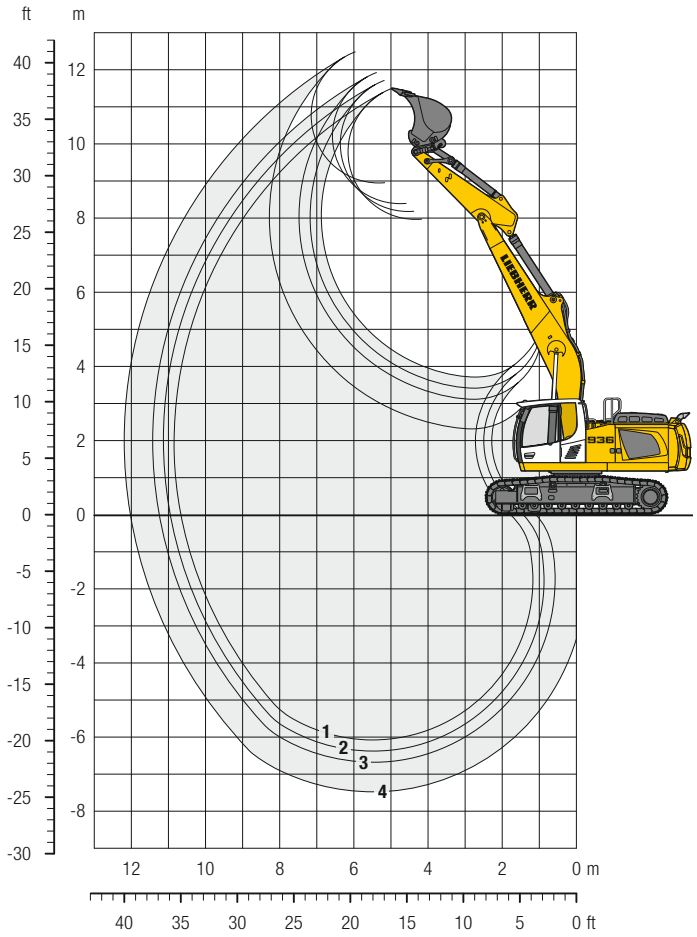
Height **Can be slewed though 360°** **In longitudinal position of undercarriage** **Max. reach** *** Limited by hydr. capacity**

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 400 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.

Backhoe Bucket

with Straight Mono Boom 6.50 m and Counterweight 5.4 t



Digging Envelope

with quick coupler		1	2	3	4
Stick length	m	2.50	2.80	3.10	3.90
Max. digging depth	m	6.05	6.35	6.65	7.45
Max. reach at ground level	m	10.65	10.95	11.25	12.00
Max. dumping height	m	7.95	8.15	8.40	8.95
Max. teeth height	m	11.50	11.70	11.90	12.50

Digging Forces

with quick coupler		1	2	3	4
Digging force ISO	kN	163	152	142	121
	t	16.6	15.5	14.5	12.3
Breakout force ISO	kN	179	179	179	179
	t	18.2	18.2	18.2	18.2
without quick coupler					
Digging force ISO	kN	172	160	149	126
	t	17.5	16.3	15.2	12.8
Breakout force ISO	kN	207	207	207	207
	t	21.1	21.1	21.1	21.1

Operating Weight and Ground Pressure

The operating weight includes the basic machine with counterweight 5.4 t, straight mono boom 6.50 m, stick 2.50 m, quick coupler SW66 and bucket 1.00 m³ (960 kg).

Undercarriage		NLC			LC		
Pad width	mm	500	600	750	500	600	750
Weight	kg	31,000	31,350	32,300	31,100	31,450	32,300
Ground pressure	kg/cm²	0.72	0.61	0.50	0.72	0.61	0.50

Undercarriage		LC-V		
Pad width	mm	500	600	750
Weight	kg	34,900	35,350	36,050
Ground pressure	kg/cm²	0.79	0.67	0.54

Optional: counterweight 6.3 t
(counterweight 6.3 t increases the operating weight by 900 kg and ground pressure by 0.02 kg/cm²) see load tables on page 27

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

	Cutting width	Capacity ISO 7451	Weight[2]	Weight[3]	NLC-Undercarriage								LC-Undercarriage								LC-V-Undercarriage							
					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			
	mm	m³	kg	kg	2.50	2.80	3.10	3.90	2.50	2.80	3.10	3.90	2.50	2.80	3.10	3.90	2.50	2.80	3.10	3.90	2.50	2.80	3.10	3.90	2.50	2.80	3.10	3.90
STD[1]	1,050	1.00	940	960	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.25	1,070	1,090	▲	▲	▲	■	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,400	1.45	1,140	1,160	▲	▲	■	▲	▲	▲	■	■	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	■
	1,550	1.60	1,210	1,230	▲	■	▲	△	■	▲	■	△	▲	▲	■	▲	▲	▲	■	■	▲	▲	▲	▲	▲	▲	▲	■
	1,650	1.75	1,300	1,320	■	▲	■	△	▲	■	△	△	▲	■	▲	■	■	■	▲	△	▲	▲	▲	■	▲	▲	▲	△
	1,550	1.85	1,300	1,310	▲	■	■	△	■	■	△	–	■	■	▲	△	■	▲	■	△	▲	▲	▲	■	▲	▲	▲	△
	1,650	2.00	1,390	1,410	■	△	△	–	△	△	△	–	▲	▲	■	△	▲	■	△	–	▲	▲	▲	△	▲	▲	▲	△
	1,750	2.15	1,550	–	△	△	△	–	–	–	–	–	■	△	△	–	–	–	–	–	▲	▲	■	–	–	–	–	–

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

1) Standard bucket with teeth Z 50

2) Bucket for direct mounting

3) Bucket for mounting to quick coupler

Other buckets available upon request

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

Lift Capacities

with Straight Mono Boom 6.50 m and Counterweight 5.4 t

Stick 2.50 m

m	Under-carriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		m
10.5	NLC													
	LC													
	LC-V													
9.0	NLC											6.9*	6.9*	
	LC											6.9*	6.9*	5.6
	LC-V											6.8*	6.8*	
7.5	NLC					8.1	9.5*					6.0*	6.0*	
	LC					8.8	9.5*					6.0*	6.0*	7.1
	LC-V					9.5*	9.5*					5.9*	5.9*	
6.0	NLC			11.8*	11.8*	7.9	9.8*	5.5	8.7*			4.9	5.6*	
	LC			11.8*	11.8*	8.5	9.8*	6.0	8.7*			5.3	5.6*	8.1
	LC-V			12.0*	12.0*	9.9*	9.9*	7.5	8.7*			5.6*	5.6*	
4.5	NLC			11.3	13.9*	7.5	10.7*	5.4	8.9			4.3	5.5*	
	LC			12.5	13.9*	8.2	10.7*	5.9	8.9			4.7	5.5*	8.7
	LC-V			14.1*	14.1*	10.2	10.8*	7.3	9.0*			5.5*	5.5*	
3.0	NLC			10.3	16.0*	7.0	11.6*	5.2	8.7			4.0	5.5*	
	LC			11.4	16.0*	7.7	11.6*	5.7	8.7			4.4	5.5*	9.0
	LC-V			14.6	15.4*	9.7	11.7*	7.1	9.4*			5.5	5.6*	
1.5	NLC					6.7	11.8	5.0	8.5	3.9	6.0*	3.9	5.8*	
	LC					7.4	11.8	5.5	8.5	4.3	6.0*	4.3	5.8*	9.0
	LC-V					9.4	12.1*	6.9	9.6*	5.4	5.9*	5.4	5.8*	
0	NLC			9.7	14.0*	6.5	11.5	4.9	8.3			4.0	6.3*	
	LC			10.8	14.0*	7.2	11.6	5.4	8.4			4.4	6.3*	8.8
	LC-V			14.0	14.6*	9.2	11.9*	6.8	9.4*			5.6	6.4*	
−1.5	NLC			9.8	13.7*	6.5	11.0*	4.9	8.3			4.3	7.2*	
	LC			10.9	13.7*	7.2	11.0*	5.3	8.3			4.7	7.2*	8.3
	LC-V			13.6*	13.6*	9.2	10.9*	6.8	8.5*			6.1	7.1*	
−3.0	NLC			10.0	11.2*	6.6	9.1*					5.0	6.4*	
	LC			11.1	11.2*	7.3	9.1*					5.5	6.4*	7.5
	LC-V			11.0*	11.0*	8.9*	8.9*					6.3*	6.3*	
−4.5	NLC													
	LC													
	LC-V													
−6.0	NLC													
	LC													
	LC-V													

Stick 2.80 m

m	Under-carriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		m
10.5	NLC													
	LC													
	LC-V													
9.0	NLC					6.1*	6.1*						5.9*	5.9*	
	LC					6.1*	6.1*						5.9*	5.9*	6.0
	LC-V					7.2*	7.2*						5.8*	5.8*	
7.5	NLC					8.1	9.1*						5.2*	5.2*	
	LC					8.8	9.1*						5.2*	5.2*	7.5
	LC-V					9.1*	9.1*	5.7*	5.7*				5.2*	5.2*	
6.0	NLC			11.3*	11.3*	7.9	9.5*	5.6	8.5*				4.6	4.9*	
	LC			11.3*	11.3*	8.6	9.5*	6.1	8.5*				4.9*	4.9*	8.4
	LC-V			11.5*	11.5*	9.6*	9.6*	7.5	8.5*				4.9*	4.9*	
4.5	NLC			11.5	13.4*	7.5	10.4*	5.4	8.8*				4.1	4.8*	
	LC			12.6	13.4*	8.2	10.4*	5.9	8.8*				4.4	4.8*	9.0
	LC-V			13.6*	13.6*	10.2	10.5*	7.3	8.8*				4.8*	4.8*	
3.0	NLC			10.4	15.6*	7.1	11.4*	5.2	8.7	4.0	6.6		3.8	4.9*	
	LC			11.5	15.6*	7.7	11.4*	5.7	8.7	4.3	6.6		4.1	4.9*	9.3
	LC-V			14.7	15.7*	9.7	11.4*	7.1	9.3*	5.5	7.6		4.9*	4.9*	
1.5	NLC			9.8	12.8*	6.7	11.8	5.0	8.4	3.9	6.5		3.7	5.1*	
	LC			10.9	12.8*	7.4	11.8	5.4	8.5	4.2	6.5		4.1	5.1*	9.3
	LC-V			12.7*	12.7*	9.4	12.0*	6.9	9.5*	5.4	7.5		5.1*	5.1*	
0	NLC			9.6	14.9*	6.5	11.5	4.8	8.3	3.8	6.4		3.8	5.5*	
	LC			10.7	14.9*	7.1	11.5	5.3	8.3	4.2	6.5		4.1	5.5*	9.1
	LC-V			13.9	15.4*	9.1	11.9*	6.8	9.4*	5.3	6.8*		5.3	5.5*	
−1.5	NLC	9.9*	9.9*	9.7	14.2*	6.4	11.2*	4.8	8.2				4.1	6.2*	
	LC	9.9*	9.9*	10.7	14.2*	7.1	11.2*	5.3	8.3				4.5	6.2*	8.6
	LC-V	10.5*	10.5*	14.0	14.1*	9.1	11.1*	6.7	8.7*				5.7	6.2*	
−3.0	NLC	13.4*	13.4*	9.8	11.9*	6.5	9.5*	4.9	7.1*				4.7	6.3*	
	LC	13.4*	13.4*	10.9	11.9*	7.2	9.5*	5.4	7.1*				5.1	6.3*	7.8
	LC-V			11.6*	11.6*	9.2	9.3*	6.9*	6.9*				6.2*	6.2*	
−4.5	NLC					6.3*	6.3*						6.2*	6.2*	
	LC					6.3*	6.3*						6.2*	6.2*	6.1
	LC-V														
−6.0	NLC														
	LC														
	LC-V														

Stick 3.10 m

m	Under-carriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		m
10.5	NLC												4.5*	4.5*	
	LC												4.5*	4.5*	5.8
	LC-V												4.4*	4.4*	
9.0	NLC					7.6*	7.6*						3.7*	3.7*	
	LC					7.6*	7.6*						3.7*	3.7*	7.6
	LC-V					8.0*	8.0*						3.7*	3.7*	
7.5	NLC					8.2	8.7*	5.6	6.8*				3.4*	3.4*	
	LC					8.7*	8.7*	6.1	6.8*				3.4*	3.4*	8.7
	LC-V					8.7*	8.7*	7.2*	7.2*				3.4*	3.4*	
6.0	NLC					8.0	9.1*	5.6	8.2*				3.2*	3.2*	
	LC					8.7	9.1*	6.1	8.2*				3.2*	3.2*	9.5
	LC-V					9.2*	9.2*	7.5	8.2*				3.2*	3.2*	
4.5	NLC			11.6	12.8*	7.6	10.1*	5.4	8.6*	4.0	6.6*		3.2*	3.2*	
	LC			12.8	12.8*	8.2	10.1*	5.9	8.6*	4.4	6.6*		3.2*	3.2*	10.0
	LC-V			13.0*	13.0*	10.2*	10.2*	7.3	8.6*	5.5	6.9*		3.2*	3.2*	
3.0	NLC			10.6	15.1*	7.1	11.1*	5.2	8.7	3.9	6.6		3.2*	3.2*	
	LC			11.7	15.1*	7.8	11.1*	5.6	8.7	4.3	6.6		3.2*	3.2*	10.3
	LC-V			14.9	15.3*	9.8	11.2*	7.1	9.1*	5.4	7.6		3.2*	3.2*	
1.5	NLC			9.8	15.4*	6.7	11.7	4.9	8.4	3.8	6.4		3.1	3.3*	
	LC			10.9	15.4*	7.3	11.8	5.4	8.4	4.2	6.5		3.3*	3.3*	10.4
	LC-V			14.1	15.1*	9.3	11.9*	6.9	9.4*	5.3	7.4		3.3*	3.3*	
0	NLC			9.6	15.7*	6.4	11.5	4.8	8.2	3.8	6.4		3.1	3.5*	
	LC			10.6	15.7*	7.1	11.5	5.3	8.3	4.1	6.4		3.4	3.5*	10.2
	LC-V			13.8	15.9*	9.1	11.9*	6.7	9.4*	5.3	7.4		3.6*	3.6*	
−1.5	NLC	9.8*	9.8*	9.6	14.6*	6.4	11.3*	4.7	8.2				3.3	3.9*	
	LC	9.8*	9.8*	10.6	14.6*	7.0	11.3*	5.2	8.2				3.6	3.9*	9.8
	LC-V	10.3*	10.3*	13.8	14.5*	9.0	11.3*	6.7	8.8*				4.0*	4.0*	
−3.0	NLC	14.9*	14.9*	9.7	12.4*	6.4	9.9*	4.8	7.5*				3.7	4.5*	
	LC	14.9*	14.9*	10.8	12.4*	7.1	9.9*	5.3	7.5*				4.1	4.5*	9.1
	LC-V	14.6*	14.6*	12.2*	12.2*	9.1	9.7*	6.7	7.4*				4.6*	4.6*	
−4.5	NLC			9.1*	9.1*	6.6	7.1*						4.4	5.2*	
	LC			9.1*	9.1*	7.1*	7.1*						4.9	5.2*	8.0
	LC-V			8.7*	8.7*	6.8*	6.8*						5.1*	5.1*	
−6.0	NLC														
	LC														
	LC-V														

Stick 3.90 m

m	Under-carriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		m
10.5	NLC													
	LC													
	LC-V													
9.0	NLC							4.1*	4.1*				3.7*	3.7*	
	LC							4.1*	4.1*				3.7*	3.7*	7.6
	LC-V							4.7*	4.7*				3.7*	3.7*	
7.5	NLC							5.8	6.8*				3.4*	3.4*	
	LC							6.3	6.8*				3.4*	3.4*	8.7
	LC-V							6.9*	6.9*				3.4*	3.4*	
6.0	NLC					7.9*	7.9*	5.7	7.5*	4.2	5.8*		3.2*	3.2*	
	LC					7.9*	7.9*	6.2	7.5*	4.6	5.8*		3.2*	3.2*	9.5
	LC-V					8.0*	8.0*	7.5*	7.5*	5.7	5.9*		3.2*	3.2*	
4.5	NLC			10.8*	10.8*	7.8	9.2*	5.5	8.0*	4.1	6.7		3.2*	3.2*	
	LC			10.8*	10.8*	8.5	9.2*	6.0	8.0*	4.5	6.8		3.2*	3.2*	10.0
	LC-V			11.5*	11.5*	9.3*	9.3*	7.5	8.0*	5.6	7.2*		3.2*	3.2*	
3.0	NLC			11.1	13.9*	7.3	10.4*	5.3	8.6*	4.0	6.6		3.2	3.2*	
	LC			12.2	13.9*	8.0	10.4*	5.7	8.6*	4.3	6.6		3.2*	3.2*	10.3
	LC-V			14.1*	14.1*	10.0	10.5*	7.2	8.6*	5.5	7.5*		3.2*	3.2*	
1.5	NLC			10.1	15.7*	6.8	11.4*	5.0	8.5	3.8	6.4		3.1	3.3*	
	LC			11.2	15.7*	7.5	11.4*	5.5	8.5	4.2	6.5		3.3*	3.3*	10.4
	LC-V			14.4	15.8*	9.5	11.5*	6.9	9.1*	5.3	7.4		3.3*	3.3*	
0	NLC	5.7*	5.7*	9.6	16.2*	6.5	11.5	4.8	8.2	3.7	6.3		3.1	3.5*	
	LC	5.7*	5.7*	10.7	16.2*	7.1	11.6	5.3	8.3	4.1	6.3		3.4	3.5*	10.2
	LC-V	6.0*	6.0*	13.9	16.2*	9.1	11.9*	6.7	9.4*	5.2	7.3		3.6*	3.6*	
−1.5	NLC	9.4*	9.4*	9.5	15.5*	6.3	11.3	4.7	8.1	3.7	6.3		3.3	3.9*	
	LC	9.4*	9.4*	10.5	15.5*	7.0	11.4	5.1	8.1	4.0	6.3		3.6	3.9*	9.8
	LC-V	9.7*	9.7*	13.8	15.4*	9.0	11.6*	6.6	9.1*	5.2	7.2*		4.0*	4.0*	
−3.0	NLC	14.0*	14.0*	9.5	13.9*	6.3	10.7*	4.7	8.1	3.7	5.5*		3.7	4.5*	
	LC	14.0*	14.0*	10.6	13.9*	7.0	10.7*	5.1	8.1	4.1	5.5*		4.1	4.5*	9.1
	LC-V	14.4*	14.4*	13.7*	13.7*	9.0	10.6*	6.6	8.2*				4.6*	4.6*	
−4.5	NLC	14.1*	14.1*	9.7	11.2*	6.4	8.7*	4.8	6.4*				4.4	5.2*	
	LC	14.1*	14.1*	10.8	11.2*	7.1	8.7*	5.3	6.4*				4.9	5.2*	8.0
	LC-V	13.6*	13.6*	10.9*	10.9*	8.5*	8.5*	6.1*	6.1*				5.1*	5.1*	
−6.0	NLC														
	LC														
	LC-V														

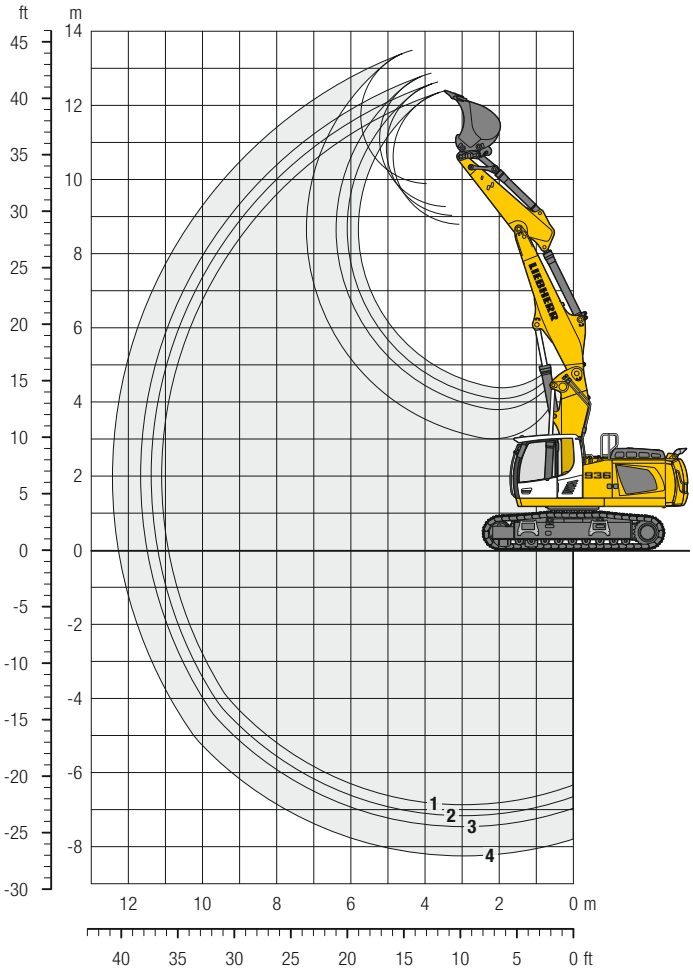
Height **Can be slewed though 360°** **In longitudinal position of undercarriage** **Max. reach** *** Limited by hydr. capacity**

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 400 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.

Backhoe Bucket

with Two-Piece Boom 6.80 m (Main Boom 4.20 m) and Counterweight 6.3 t



Digging Envelope

with quick coupler		1	2	3	4
Stick length	m	2.50	2.80	3.10	3.90
Max. digging depth	m	6.85	7.15	7.45	8.25
Max. reach at ground level	m	10.90	11.20	11.50	12.25
Max. dumping height	m	8.80	9.00	9.25	9.90
Max. teeth height	m	12.40	12.60	12.85	13.50

Digging Forces

with quick coupler		1	2	3	4
Digging force ISO	kN	163	152	142	121
	t	16.6	15.5	14.5	12.3
Breakout force ISO	kN	179	179	179	179
	t	18.2	18.2	18.2	18.2
without quick coupler					
Digging force ISO	kN	172	160	149	126
	t	17.5	16.3	15.2	12.8
Breakout force ISO	kN	207	207	207	207
	t	21.1	21.1	21.1	21.1

Operating Weight and Ground Pressure

The operating weight includes the basic machine with counterweight 6.3 t, two-piece boom 6.80 m, stick 2.50 m, quick coupler SW66 and bucket 1.00 m³ (960 kg).

Undercarriage		NLC			LC		
Pad width	mm	500	600	750	500	600	750
Weight	kg	33,650	34,000	34,950	33,750	34,100	35,050
Ground pressure	kg/cm²	0.78	0.66	0.54	0.78	0.66	0.54

Undercarriage		LC-V		
Pad width	mm	500	600	750
Weight	kg	37,550	38,000	38,650
Ground pressure	kg/cm²	0.85	0.72	0.58

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

	Cutting width	Capacity ISO 7451	Weight[2]	Weight[3]	NLC-Undercarriage								LC-Undercarriage								LC-V-Undercarriage							
					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			
	mm	m³	kg	kg	2.50	2.80	3.10	3.90	2.50	2.80	3.10	3.90	2.50	2.80	3.10	3.90	2.50	2.80	3.10	3.90	2.50	2.80	3.10	3.90	2.50	2.80	3.10	3.90
STD[1]	1,050	1.00	940	960	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.25	1,070	1,090	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,400	1.45	1,140	1,160	▲	▲	■	▲	▲	■	■	■	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	■
	1,550	1.60	1,210	1,230	▲	■	▲	△	■	▲	■	△	▲	▲	■	▲	▲	■	■	■	▲	▲	▲	■	▲	▲	▲	▲
	1,650	1.75	1,300	1,320	■	▲	■	△	▲	■	△	–	▲	■	▲	■	■	▲	▲	△	▲	▲	▲	■	▲	▲	▲	△
	1,550	1.85	1,300	1,310	▲	■	△	△	■	△	△	–	■	▲	▲	△	■	▲	■	△	▲	▲	▲	■	▲	▲	▲	△
	1,650	2.00	1,390	1,410	■	△	△	–	△	△	△	–	▲	■	■	△	▲	■	△	–	▲	▲	▲	△	▲	▲	■	△
	1,750	2.15	1,550	–	△	△	–	–	–	–	–	–	■	△	△	–	–	–	–	–	▲	▲	■	△	–	–	–	–

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

[1] Standard bucket with teeth Z 50

[2] Bucket for direct mounting

[3] Bucket for mounting to quick coupler

Other buckets available upon request

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

Lift Capacities

with Two-Piece Boom 6.80 m (Main Boom 4.20 m) and Counterweight 6.3 t

Stick 2.50 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				m
10.5	NLC													8.7*	8.7*	
	LC													8.7*	8.7*	3.4
	LC-V													8.3*	8.3*	
9.0	NLC			11.5*	11.5*									6.5*	6.5*	
	LC			11.5*	11.5*									6.5*	6.5*	6.0
	LC-V			11.6*	11.6*	7.4*	7.4*							6.4*	6.4*	
7.5	NLC			12.5*	12.5*	8.9	10.5*							5.8*	5.8*	
	LC			12.5*	12.5*	9.6	10.5*							5.8*	5.8*	7.4
	LC-V			12.6*	12.6*	10.5*	10.5*	5.8*	5.8*					5.8*	5.8*	
6.0	NLC	19.9*	19.9*	13.2	13.7*	8.8	10.8*	6.0	9.0*					4.8	5.5*	
	LC	19.9*	19.9*	13.7*	13.7*	9.4	10.8*	6.6	9.0*					5.3	5.5*	8.3
	LC-V	20.3*	20.3*	13.9*	13.9*	10.8*	10.8*	8.1	9.0*					5.5*	5.5*	
4.5	NLC	19.7*	19.7*	12.7	15.2*	8.7	11.3*	6.1	9.2*					4.2	5.5*	
	LC	19.7*	19.7*	13.6	15.2*	9.2	11.3*	6.6	9.2*					4.6	5.5*	8.9
	LC-V	19.5*	19.5*	15.3*	15.3*	10.8	11.4*	8.1	9.2*					5.5*	5.5*	
3.0	NLC	15.6*	15.6*	12.4	15.8*	8.4	11.7*	5.9	9.2	4.1	6.9			3.9	5.6*	
	LC	15.6*	15.6*	13.3	15.8*	9.1	11.7*	6.5	9.2	4.5	6.9			4.3	5.6*	9.2
	LC-V	13.1*	13.1*	15.5	15.8*	10.6	11.7*	7.9	9.3*	5.7	7.5*			5.4	5.6*	
1.5	NLC			11.7	15.8*	7.9	11.7*	5.7	9.1	4.0	6.8			3.8	5.9*	
	LC			12.9	15.8*	8.6	11.7*	6.2	9.2	4.4	6.8			4.2	5.9*	9.3
	LC-V			15.5	15.9*	10.6	11.6*	7.7	9.2*	5.6	7.3*			5.3	6.0*	
0	NLC	16.6*	16.6*	11.0	16.0*	7.5	11.7*	5.4	9.1	3.9	6.3*			3.9	6.1*	
	LC	16.6*	16.6*	12.2	16.0*	8.2	11.7*	5.9	9.2	4.3	6.3*			4.3	6.1*	9.1
	LC-V	17.2*	17.2*	15.5	16.0*	10.3	11.7*	7.4	9.3*	5.5	6.1*			5.5	6.0*	
−1.5	NLC	20.5	24.3*	10.7	16.2*	7.2	11.9*	5.2	8.8*					4.2	5.2*	
	LC	23.3	24.3*	11.9	16.2*	8.0	11.9*	5.7	8.8*					4.6	5.2*	8.6
	LC-V	24.2*	24.2*	15.3	16.2*	10.0	11.9*	7.2	8.7*					5.1*	5.1*	
−3.0	NLC	20.7	22.4*	10.8	15.4*	7.1	10.8*	5.1	5.4*					4.1*	4.1*	
	LC	22.4*	22.4*	11.9	15.4*	7.8	10.8*	5.4*	5.4*					4.1*	4.1*	7.7
	LC-V	22.2*	22.2*	15.2*	15.2*	9.9	10.5*	4.9*	4.9*					4.2*	4.2*	
−4.5	NLC	17.9*	17.9*	10.8*	10.8*									6.3*	6.3*	
	LC	17.9*	17.9*	10.8*	10.8*									6.3*	6.3*	5.6
	LC-V	17.2*	17.2*	10.0*	10.0*									6.8*	6.8*	
−6.0	NLC															
	LC															
	LC-V															

Stick 2.80 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				m
10.5	NLC													7.2*	7.2*	
	LC													7.2*	7.2*	4.1
	LC-V													6.9*	6.9*	
9.0	NLC			10.4*	10.4*	8.0*	8.0*							5.6*	5.6*	
	LC			10.4*	10.4*	8.0*	8.0*							5.6*	5.6*	6.4
	LC-V			10.5*	10.5*	8.5*	8.5*							5.5*	5.5*	
7.5	NLC			10.9*	10.9*	9.0	10.2*	6.0	7.1*					5.1*	5.1*	
	LC			10.9*	10.9*	9.6	10.2*	6.5	7.1*					5.1*	5.1*	7.8
	LC-V			11.0*	11.0*	10.2*	10.2*	7.6*	7.6*					5.0*	5.0*	
6.0	NLC	15.2*	15.2*	13.2	13.3*	8.8	10.6*	6.2	8.9*					4.6	4.8*	
	LC	15.2*	15.2*	13.3*	13.3*	9.4	10.6*	6.7	8.9*					4.8*	4.8*	8.7
	LC-V	17.4*	17.4*	13.5*	13.5*	10.6*	10.6*	8.1	8.9*					4.8*	4.8*	
4.5	NLC	20.4*	20.4*	12.7	14.9*	8.6	11.1*	6.2	9.1*	4.2	7.0			4.0	4.8*	
	LC	20.4*	20.4*	13.6	14.9*	9.2	11.1*	6.7	9.1*	4.6	7.0			4.4	4.8*	9.2
	LC-V	20.1*	20.1*	15.0*	15.0*	10.8	11.2*	8.0	9.1*	5.8	7.4*			4.8*	4.8*	
3.0	NLC	19.4*	19.4*	12.4	15.8*	8.5	11.6*	6.0	9.1	4.2	7.0			3.7	4.9*	
	LC	19.4*	19.4*	13.3	15.8*	9.1	11.6*	6.5	9.1	4.6	7.0			4.1	4.9*	9.5
	LC-V	19.5*	19.5*	15.5	15.8*	10.6	11.6*	8.0	9.2*	5.7	7.5*			4.9*	4.9*	
1.5	NLC	12.8*	12.8*	11.8	15.7*	7.9	11.6*	5.7	9.1	4.1	6.8			3.6	5.2*	
	LC	12.8*	12.8*	13.0	15.7*	8.6	11.6*	6.2	9.1	4.5	6.9			4.0	5.2*	9.5
	LC-V	12.9*	12.9*	15.4	15.7*	10.6	11.6*	7.8	9.1*	5.6	7.4*			5.1	5.2*	
0	NLC	16.8*	16.8*	11.1	15.9*	7.5	11.6*	5.5	9.2	3.9	6.7			3.7	5.6*	
	LC	16.8*	16.8*	12.2	15.9*	8.2	11.6*	6.0	9.2	4.3	6.7			4.0	5.6*	9.3
	LC-V	17.3*	17.3*	15.6	15.9*	10.3	11.6*	7.5	9.2*	5.5	6.8*			5.2	5.7*	
−1.5	NLC	20.4	23.3*	10.7	16.1*	7.2	11.8*	5.2	8.9					3.9	5.1*	
	LC	23.2	23.3*	11.9	16.1*	7.9	11.8*	5.7	8.9					4.3	5.1*	8.9
	LC-V	24.0*	24.0*	15.2	16.1*	10.0	11.9*	7.2	9.0*					5.1*	5.1*	
−3.0	NLC	20.5	23.0*	10.7	15.6*	7.1	11.3*	5.1	6.8*					3.9*	3.9*	
	LC	23.0*	23.0*	11.8	15.6*	7.8	11.3*	5.6	6.8*					3.9*	3.9*	8.1
	LC-V	22.8*	22.8*	15.2	15.5*	9.9	11.1*	6.4*	6.4*					3.9*	3.9*	
−4.5	NLC	19.2*	19.2*	10.9	12.5*	6.5*	6.5*							5.4*	5.4*	
	LC	19.2*	19.2*	12.0	12.5*	6.5*	6.5*							5.4*	5.4*	6.3
	LC-V	18.6*	18.6*	11.8*	11.8*	5.8*	5.8*							5.7*	5.7*	
−6.0	NLC															
	LC															
	LC-V															

Stick 3.10 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				m
10.5	NLC			7.2*	7.2*									6.1*	6.1*	
	LC			7.2*	7.2*									6.1*	6.1*	4.7
	LC-V			7.9*	7.9*									5.9*	5.9*	
9.0	NLC					8.2*	8.2*							4.9*	4.9*	
	LC					8.2*	8.2*							4.9*	4.9*	6.8
	LC-V					8.4*	8.4*							4.9*	4.9*	
7.5	NLC			9.6*	9.6*	9.0	9.6*	6.1	7.6*					4.5*	4.5*	
	LC			9.6*	9.6*	9.6	9.6*	6.6	7.6*					4.5*	4.5*	8.1
	LC-V			9.7*	9.7*	9.7*	9.7*	7.9*	7.9*					4.4*	4.4*	
6.0	NLC			11.8*	11.8*	8.8	10.3*	6.2	8.7*					4.3*	4.3*	
	LC			11.8*	11.8*	9.4	10.3*	6.7	8.7*					4.3*	4.3*	9.0
	LC-V	12.1*	12.1*	12.2*	12.2*	10.3*	10.3*	8.1	8.7*	4.5*	4.5*			4.3*	4.3*	
4.5	NLC	20.9*	20.9*	12.7	14.5*	8.6	10.9*	6.2	8.9*	4.3	7.1			3.8	4.2*	
	LC	20.9*	20.9*	13.7	14.5*	9.2	10.9*	6.7	8.9*	4.7	7.1			4.2	4.2*	9.5
	LC-V	20.9*	20.9*	14.6*	14.6*	10.8	11.0*	8.0	8.9*	5.9	7.5*			4.2*	4.2*	
3.0	NLC	19.5*	19.5*	12.4	15.7*	8.5	11.5*	6.0	9.1	4.2	7.0			3.5	4.3*	
	LC	19.5*	19.5*	13.2	15.7*	9.0	11.5*	6.6	9.1*	4.6	7.0			3.9	4.3*	9.8
	LC-V	19.5*	19.5*	15.4	15.7*	10.6	11.5*	7.9	9.1*	5.8	7.5*			4.3*	4.3*	
1.5	NLC	15.5*	15.5*	11.9	15.6*	8.0	11.5*	5.7	9.0	4.1	6.9			3.4	4.5*	
	LC	15.5*	15.5*	13.1	15.6*	8.7	11.5*	6.3	9.0	4.5	6.9			3.8	4.5*	9.8
	LC-V	15.3*	15.3*	15.3	15.6*	10.5	11.5*	7.8	9.1*	5.7	7.5*			4.6*	4.6*	
0	NLC	17.0*	17.0*	11.1	15.7*	7.5	11.5*	5.5	9.1	3.9	6.7			3.5	4.9*	
	LC	17.0*	17.0*	12.3	15.7*	8.2	11.5*	6.0	9.1	4.3	6.7			3.8	4.9*	9.6
	LC-V	17.4*	17.4*	15.4	15.7*	10.3	11.5*	7.5	9.1*	5.5	7.1*			4.9	5.0*	
−1.5	NLC	20.3	22.2*	10.7	16.0*	7.2	11.7*	5.2	8.9	3.8	5.8*			3.7	5.0*	
	LC	22.2*	22.2*	11.8	16.0*	7.9	11.7*	5.7	9.0	4.2	5.8*			4.1	5.0*	9.2
	LC-V	22.7*	22.7*	15.2	16.0*	10.0	11.7*	7.2	9.1*	5.4	5.6*			5.0*	5.0*	
−3.0	NLC	20.3	23.5*	10.6	15.7*	7.1	11.5*	5.0	7.7*					4.0*	4.0*	
	LC	23.2	23.5*	11.7	15.7*	7.8	11.5*	5.5	7.7*					4.0*	4.0*	8.5
	LC-V	23.3*	23.3*	15.1	15.6*	9.9	11.5*	7.0	7.4*					3.9*	3.9*	
−4.5	NLC	20.2*	20.2*	10.8	13.7*	7.0	8.0*							4.8*	4.8*	
	LC	20.2*	20.2*	12.0	13.7*	7.7	8.0*							4.8*	4.8*	6.8
	LC-V	19.8*	19.8*	13.3*	13.3*	7.5*	7.5*							4.9*	4.9*	
−6.0	NLC															
	LC															
	LC-V															

Stick 3.90 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				m
10.5	NLC					4.9*	4.9*							4.2*	4.2*	
	LC					4.9*	4.9*							4.2*	4.2*	6.2
	LC-V					5.4*	5.4*							4.1*	4.1*	
9.0	NLC					7.1*	7.1*	5.1*	5.1*					3.6*	3.6*	
	LC					7.1*	7.1*	5.1*	5.1*					3.6*	3.6*	7.9
	LC-V					7.1*	7.1*	5.4*	5.4*					3.6*	3.6*	
7.5	NLC					7.5*	7.5*	6.4	7.0*	3.4*	3.4*			3.3*	3.3*	
	LC					7.5*	7.5*	6.8	7.0*	3.4*	3.4*			3.3*	3.3*	9.0
	LC-V					7.5*	7.5*	7.1*	7.1*	3.8*	3.8*			3.3*	3.3*	
6.0	NLC			7.9*	7.9*	8.4*	8.4*	6.5	8.0*	4.5	6.3*			3.2*	3.2*	
	LC			7.9*	7.9*	8.4*	8.4*	6.9	8.0*	4.9	6.3*			3.2*	3.2*	9.8
	LC-V			8.1*	8.1*	8.5*	8.5*	8.1	8.1*	6.0	6.4*			3.2*	3.2*	
4.5	NLC	19.9*	19.9*	13.0	13.4*	8.7	10.4*	6.4	8.6*	4.5	7.2			3.2*	3.2*	
	LC	19.9*	19.9*	13.4*	13.4*	9.3	10.4*	6.8	8.6*	4.9	7.2			3.2*	3.2*	10.3
	LC-V	20.4*	20.4*	13.6*	13.6*	10.4*	10.4*	8.0	8.6*	6.1	7.3*			3.2*	3.2*	
3.0	NLC	20.3*	20.3*	12.5	15.1*	8.5	11.1*	6.2	8.9*	4.5	7.1	3.2	3.6*	3.1	3.2*	
	LC	20.3*	20.3*	13.4	15.1*	9.0	11.1*	6.7	8.9*	4.8	7.1	3.5	3.6*	3.2*	3.2*	10.5
	LC-V	20.1*	20.2*	15.2*	15.2*	10.6	11.2*	7.9	8.9*	6.0	7.4*	3.7*	3.7*	3.2*	3.2*	
1.5	NLC	20.2*	20.2*	12.2	15.6*	8.2	11.5*	5.9	8.9	4.3	7.0	3.1	4.1*	3.0	3.4*	
	LC	20.2*	20.2*	13.1	15.6*	8.9	11.5*	6.4	9.0	4.7	7.1	3.4	4.1*	3.4	3.4*	10.6
	LC-V	20.3*	20.3*	15.3	15.6*	10.4	11.5*	7.8	9.0*	5.8	7.4*	4.1*	4.1*	3.4*	3.4*	
0	NLC	18.2*	18.2*	11.4	15.6*	7.6	11.4*	5.6	8.9	4.1	6.8			3.1	3.6*	
	LC	18.2*	18.2*	12.6	15.6*	8.4	11.4*	6.1	8.9	4.5	6.9			3.4	3.6*	10.4
	LC-V	18.3*	18.3*	15.3	15.6*	10.4	11.4*	7.6	9.0*	5.6	7.4*			3.7*	3.7*	
−1.5	NLC	20.3*	20.3*	10.8	15.7*	7.2	11.5*	5.3	9.1	3.9	6.7			3.2	4.0*	
	LC	20.3*	20.3*	12.0	15.7*	8.0	11.5*	5.8	9.1	4.3	6.7			3.6	4.0*	10.0
	LC-V	20.6*	20.6*	15.3	15.7*	10.0	11.5*	7.3	9.1*	5.4	7.0*			4.1*	4.1*	
−3.0	NLC	20.2	24.4*	10.5	15.9*	7.0	11.7*	5.1	8.8	3.8	5.3*			3.6	4.1*	
	LC	23.0	24.4*	11.7	15.9*	7.7	11.7*	5.6	8.8	4.2	5.3*			4.0	4.1*	9.3
	LC-V	24.3*	24.3*	15.1	15.9*	9.8	11.7*	7.1	8.8*	5.1*	5.1*			4.0*	4.0*	
−4.5	NLC	20.4	22.5*	10.6	15.0*	7.0	10.7*	5.0	6.2*					3.7*	3.7*	
	LC	22.5*	22.5*	11.7	15.0*	7.7	10.7*	5.5	6.2*					3.7*	3.7*	8.2
	LC-V	22.2*	22.2*	14.9*	14.9*	9.8	10.4*	5.8*	5.8*					3.8*	3.8*	
−6.0	NLC	17.3*	17.3*	10.0*	10.0*									6.2*	6.2*	
	LC	17.3*	17.3*	10.0*	10.0*									6.2*	6.2*	5.5
	LC-V	16.3*	16.3*	9.2*	9.2*									6.8*	6.8*	

Height **Can be slewed though 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 400 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.

Lift Capacities

with Mono Boom 6.05 m and Counterweight 6.3 t

Stick 2.50 m

m	Under-carriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				m
10.5	NLC															
	LC															
	LC-V															
9.0	NLC															
	LC															
	LC-V															
7.5	NLC					8.7	8.9*							5.9*	5.9*	
	LC					8.9*	8.9*							5.9*	5.9*	6.4
	LC-V					8.8*	8.8*							5.9*	5.9*	
6.0	NLC					8.6	9.0*							5.5*	5.5*	
	LC					9.0*	9.0*							5.5*	5.5*	7.4
	LC-V					9.0*	9.0*	5.7*	5.7*					5.5*	5.5*	
4.5	NLC	18.8*	18.8*	12.3*	12.3*	8.3	9.9*	5.9	8.7*					5.3	5.5*	
	LC	18.8*	18.8*	12.3*	12.3*	9.0	9.9*	6.4	8.7*					5.5*	5.5*	8.1
	LC-V			12.5*	12.5*	10.0*	10.0*	7.9	8.7*					5.5*	5.5*	
3.0	NLC			11.7	14.9*	7.9	11.0*	5.8	9.2*					4.9	5.6*	
	LC			12.9	14.9*	8.6	11.0*	6.3	9.2*					5.3	5.6*	8.4
	LC-V			15.1*	15.1*	10.6	11.1*	7.7	9.2*					5.6*	5.6*	
1.5	NLC			11.0	16.5*	7.5	11.9*	5.6	9.2					4.7	6.0*	
	LC			12.2	16.5*	8.2	11.9*	6.1	9.2					5.1	6.0*	8.5
	LC-V			15.5	16.5*	10.2	12.0*	7.6	9.6*					6.0*	6.0*	
0	NLC			10.8	16.5*	7.3	12.3*	5.5	9.1					4.8	6.7*	
	LC			11.9	16.5*	8.0	12.3*	6.0	9.1					5.3	6.7*	8.2
	LC-V			15.2	16.5*	10.0	12.3*	7.4	9.7*					6.6	6.7*	
−1.5	NLC	14.9*	14.9*	10.8	15.5*	7.3	11.8*	5.5	9.0					5.3	7.9*	
	LC	14.9*	14.9*	11.9	15.5*	7.9	11.8*	5.9	9.1					5.7	7.9*	7.7
	LC-V	15.7*	15.7*	15.3	15.4*	10.0	11.7*	7.4	9.0*					7.2	8.0*	
−3.0	NLC	17.2*	17.2*	11.0	13.5*	7.4	10.3*							6.3	8.5*	
	LC	17.2*	17.2*	12.1	13.5*	8.0	10.3*							6.8	8.5*	6.8
	LC-V	16.9*	16.9*	13.2*	13.2*	10.1*	10.1*							8.4*	8.4*	
−4.5	NLC			9.5*	9.5*									7.5*	7.5*	
	LC			9.5*	9.5*									7.5*	7.5*	5.4
	LC-V															
−6.0	NLC															
	LC															
	LC-V															

Stick 2.80 m

m	Under-carriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				m
10.5	NLC															
	LC															
	LC-V															
9.0	NLC															
	LC															
	LC-V															
7.5	NLC					8.3*	8.3*							5.2*	5.2*	
	LC					8.3*	8.3*							5.2*	5.2*	6.8
	LC-V					8.3*	8.3*							5.1*	5.1*	
6.0	NLC					8.6*	8.6*	6.1	7.1*					4.9*	4.9*	
	LC					8.6*	8.6*	6.6	7.1*					4.9*	4.9*	7.8
	LC-V					8.6*	8.6*	7.6*	7.6*					4.8*	4.8*	
4.5	NLC			11.6*	11.6*	8.3	9.5*	6.0	8.4*					4.8*	4.8*	
	LC			11.6*	11.6*	9.0	9.5*	6.5	8.4*					4.8*	4.8*	8.4
	LC-V	17.7*	17.7*	11.9*	11.9*	9.6*	9.6*	7.9	8.4*					4.8*	4.8*	
3.0	NLC			11.8	14.3*	7.9	10.7*	5.8	8.9*					4.6	4.9*	
	LC			13.0	14.3*	8.6	10.7*	6.3	8.9*					4.9*	4.9*	8.7
	LC-V			14.5*	14.5*	10.6	10.8*	7.7	9.0*					4.9*	4.9*	
1.5	NLC			11.1	16.1*	7.5	11.7*	5.6	9.2					4.5	5.2*	
	LC			12.2	16.1*	8.2	11.7*	6.1	9.2					4.9	5.2*	8.8
	LC-V			15.5	16.2*	10.2	11.8*	7.5	9.5*					5.2*	5.2*	
0	NLC			10.8	16.5*	7.3	12.2*	5.4	9.0					4.6	5.8*	
	LC			11.9	16.5*	8.0	12.2*	5.9	9.0					5.0	5.8*	8.5
	LC-V			15.2	16.5*	10.0	12.2*	7.4	9.6*					5.8*	5.8*	
−1.5	NLC	14.4*	14.4*	10.7	15.8*	7.2	11.9*	5.4	9.0					5.0	6.7*	
	LC	14.4*	14.4*	11.8	15.8*	7.9	11.9*	5.9	9.0					5.4	6.7*	8.0
	LC-V	15.0*	15.0*	15.2	15.7*	9.9	11.8*	7.4	9.2*					6.8	6.8*	
−3.0	NLC	18.4*	18.4*	10.9	14.0*	7.3	10.6*							5.8	8.2*	
	LC	18.4*	18.4*	12.0	14.0*	7.9	10.6*							6.3	8.2*	7.2
	LC-V	18.1*	18.1*	13.8*	13.8*	10.0	10.5*							8.1	8.2*	
−4.5	NLC			10.5*	10.5*									7.5*	7.5*	
	LC			10.5*	10.5*									7.5*	7.5*	5.8
	LC-V			10.1*	10.1*									7.4*	7.4*	
−6.0	NLC															
	LC															
	LC-V															

Stick 3.10 m

m	Under-carriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				m
10.5	NLC															
	LC															
	LC-V															
9.0	NLC															
	LC															
	LC-V															
7.5	NLC													4.5*	4.5*	
	LC													4.5*	4.5*	7.1
	LC-V													4.5*	4.5*	
6.0	NLC					8.2*	8.2*	6.1	7.7*					4.3*	4.3*	
	LC					8.2*	8.2*	6.6	7.7*					4.3*	4.3*	8.1
	LC-V					8.2*	8.2*	7.8*	7.8*					4.3*	4.3*	
4.5	NLC			11.0*	11.0*	8.4	9.1*	6.0	8.1*					4.2*	4.2*	
	LC			11.0*	11.0*	9.1	9.1*	6.5	8.1*					4.2*	4.2*	8.7
	LC-V			11.2*	11.2*	9.2*	9.2*	8.0	8.1*					4.2*	4.2*	
3.0	NLC			11.9	13.7*	7.9	10.3*	5.8	8.7*					4.3*	4.3*	
	LC			13.1	13.7*	8.6	10.3*	6.2	8.7*					4.3*	4.3*	9.0
	LC-V			13.9*	13.9*	10.4*	10.4*	7.7	8.7*	4.4*	4.4*			4.4*	4.4*	
1.5	NLC			11.1	15.8*	7.5	11.5*	5.5	9.2	4.3	5.1*			4.3	4.6*	
	LC			12.3	15.8*	8.2	11.5*	6.0	9.2	4.7	5.1*			4.6*	4.6*	9.0
	LC-V			15.5	15.9*	10.2	11.5*	7.5	9.3*	5.0*	5.0*			4.6*	4.6*	
0	NLC	7.9*	7.9*	10.7	16.5*	7.2	12.1*	5.4	9.0					4.3	5.0*	
	LC	7.9*	7.9*	11.9	16.5*	7.9	12.1*	5.9	9.0					4.7	5.0*	8.8
	LC-V	8.4*	8.4*	15.1	16.5*	10.0	12.1*	7.3	9.5*					5.1*	5.1*	
−1.5	NLC	13.8*	13.8*	10.6	16.0*	7.1	11.9*	5.3	8.9					4.7	5.8*	
	LC	13.8*	13.8*	11.8	16.0*	7.8	11.9*	5.8	8.9					5.1	5.8*	8.3
	LC-V	14.4*	14.4*	15.1	15.9*	9.9	11.9*	7.3	9.3*					5.9*	5.9*	
−3.0	NLC	19.5*	19.5*	10.7	14.4*	7.2	10.9*	5.4	7.8*					5.4	7.3*	
	LC	19.5*	19.5*	11.9	14.4*	7.8	10.9*	5.9	7.8*					5.9	7.3*	7.5
	LC-V	19.2*	19.2*	14.2*	14.2*	9.9	10.8*							7.5	7.5*	
−4.5	NLC	14.9*	14.9*	11.0	11.3*	7.4	8.2*							7.1	7.5*	
	LC	14.9*	14.9*	11.3*	11.3*	8.1	8.2*							7.5*	7.5*	6.2
	LC-V	14.4*	14.4*	11.0*	11.0*	7.7*	7.7*							7.4*	7.4*	
−6.0	NLC															
	LC															
	LC-V															

Stick 3.90 m

m	Under-carriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				m
10.5	NLC															
	LC															
	LC-V															
9.0	NLC													3.7*	3.7*	
	LC													3.7*	3.7*	6.8
	LC-V													3.7*	3.7*	
7.5	NLC							5.5*	5.5*					3.4*	3.4*	
	LC							5.5*	5.5*					3.4*	3.4*	8.1
	LC-V							5.7*	5.7*					3.3*	3.3*	
6.0	NLC							6.3	6.9*					3.2*	3.2*	
	LC							6.8	6.9*					3.2*	3.2*	8.9
	LC-V							6.9*	6.9*					3.2*	3.2*	
4.5	NLC					8.1*	8.1*	6.1	7.4*	4.5	5.6*			3.2*	3.2*	
	LC					8.1*	8.1*	6.6	7.4*	4.9	5.6*			3.2*	3.2*	9.5
	LC-V					8.2*	8.2*	7.4*	7.4*	5.7*	5.7*			3.2*	3.2*	
3.0	NLC	18.9*	18.9*	12.1*	12.1*	8.1	9.5*	5.8	8.1*	4.4	7.0*			3.2*	3.2*	
	LC	18.9*	18.9*	12.1*	12.1*	8.8	9.5*	6.3	8.1*	4.8	7.0*			3.2*	3.2*	9.7
	LC-V	19.6*	19.6*	12.4*	12.4*	9.6*	9.6*	7.8	8.1*	6.0	7.1*			3.2*	3.2*	
1.5	NLC	8.3*	8.3*	11.4	14.7*	7.6	10.8*	5.6	8.8*	4.3	7.0			3.4*	3.4*	
	LC	8.3*	8.3*	12.6	14.7*	8.3	10.8*	6.1	8.8*	4.7	7.0			3.4*	3.4*	9.8
	LC-V	8.2*	8.2*	14.9*	14.9*	10.4	10.9*	7.6	8.8*	5.8	7.6*			3.4*	3.4*	
0	NLC	9.3*	9.3*	10.8	16.1*	7.3	11.7*	5.4	9.0	4.2	6.9			3.7*	3.7*	
	LC	9.3*	9.3*	12.0	16.1*	8.0	11.7*	5.9	9.0	4.6	6.9			3.7*	3.7*	9.6
	LC-V	9.5*	9.5*	15.3	16.2*	10.0	11.8*	7.3	9.3*	5.7	7.8*			3.7*	3.7*	
−1.5	NLC	12.8*	12.8*	10.6	16.3*	7.1	12.0*	5.3	8.8	4.1	5.8*			4.0	4.2*	
	LC	12.8*	12.8*	11.7	16.3*	7.8	12.0*	5.7	8.9	4.5	5.8*			4.2*	4.2*	9.2
	LC-V	13.1*	13.1*	15.0	16.3*	9.8	12.0*	7.2	9.4*	5.4*	5.4*			4.2*	4.2*	
−3.0	NLC	17.7*	17.7*	10.6	15.4*	7.0	11.5*	5.2	8.8					4.5	5.1*	
	LC	17.7*	17.7*	11.7	15.4*	7.7	11.5*	5.7	8.9					5.0	5.1*	8.4
	LC-V	18.2*	18.2*	15.0	15.3*	9.8	11.4*	7.2	8.8*					5.2*	5.2*	
−4.5	NLC	18.3*	18.3*	10.8	13.2*	7.2	9.9*							5.6	6.9*	
	LC	18.3*	18.3*	11.9	13.2*	7.9	9.9*							6.1	6.9*	7.3
	LC-V	17.9*	17.9*	13.0*	13.0*	9.7*	9.7*							7.1*	7.1*	
−6.0	NLC			8.8*	8.8*									7.8*	7.8*	
	LC			8.8*	8.8*									7.8*	7.8*	5.0
	LC-V															

Height **Can be slewed though 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 400 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.

Lift Capacities

with Straight Mono Boom 6.50 m and Counterweight 6.3 t

Stick 2.50 m

m	Under-carriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				m
10.5	NLC															
	LC															
	LC-V															
9.0	NLC													6.9*	6.9*	
	LC													6.9*	6.9*	5.6
	LC-V													6.8*	6.8*	
7.5	NLC					8.6	9.5*							6.0*	6.0*	
	LC					9.4	9.5*							6.0*	6.0*	7.1
	LC-V					9.5*	9.5*							5.9*	5.9*	
6.0	NLC			11.8*	11.8*	8.4	9.8*	6.0	8.7*					5.3	5.6*	
	LC			11.8*	11.8*	9.2	9.8*	6.5	8.7*					5.6*	5.6*	8.1
	LC-V			12.0*	12.0*	9.9*	9.9*	8.0	8.7*					5.6*	5.6*	
4.5	NLC			12.2	13.9*	8.1	10.7*	5.8	9.0*					4.7	5.5*	
	LC			13.4	13.9*	8.8	10.7*	6.3	9.0*					5.1	5.5*	8.7
	LC-V			14.1*	14.1*	10.8*	10.8*	7.8	9.0*					5.5*	5.5*	
3.0	NLC			11.2	16.0*	7.6	11.6*	5.6	9.2					4.4	5.5*	
	LC			12.3	16.0*	8.3	11.6*	6.1	9.3					4.7	5.5*	9.0
	LC-V			15.4*	15.4*	10.4	11.7*	7.6	9.4*					5.6*	5.6*	
1.5	NLC					7.3	12.1*	5.4	9.0	4.3	6.0*			4.3	5.8*	
	LC					8.0	12.1*	5.9	9.1	4.6	6.0*			4.6	5.8*	9.0
	LC-V					10.0	12.1*	7.4	9.6*	5.8	5.9*			5.8	5.8*	
0	NLC			10.6	14.0*	7.1	12.0*	5.3	8.9					4.4	6.3*	
	LC			11.7	14.0*	7.8	12.0*	5.8	8.9					4.8	6.3*	8.8
	LC-V			14.6*	14.6*	9.8	11.9*	7.3	9.4*					6.0	6.4*	
−1.5	NLC			10.6	13.7*	7.1	11.0*	5.3	8.6*					4.7	7.2*	
	LC			11.8	13.7*	7.8	11.0*	5.8	8.6*					5.1	7.2*	8.3
	LC-V			13.6*	13.6*	9.8	10.9*	7.3	8.5*					6.5	7.1*	
−3.0	NLC			10.8	11.2*	7.2	9.1*							5.5	6.4*	
	LC			11.2*	11.2*	7.9	9.1*							6.0	6.4*	7.5
	LC-V			11.0*	11.0*	8.9*	8.9*							6.3*	6.3*	
−4.5	NLC															
	LC															
	LC-V															
−6.0	NLC															
	LC															
	LC-V															

Stick 2.80 m

m	Under-carriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				m
10.5	NLC															
	LC															
	LC-V															
9.0	NLC					6.1*	6.1*							5.9*	5.9*	
	LC					6.1*	6.1*							5.9*	5.9*	6.0
	LC-V					7.2*	7.2*							5.8*	5.8*	
7.5	NLC					8.7	9.1*							5.2*	5.2*	
	LC					9.1*	9.1*							5.2*	5.2*	7.5
	LC-V					9.1*	9.1*	5.7*	5.7*					5.2*	5.2*	
6.0	NLC			11.3*	11.3*	8.5	9.5*	6.0	8.5*					4.9*	4.9*	
	LC			11.3*	11.3*	9.2	9.5*	6.5	8.5*					4.9*	4.9*	8.4
	LC-V			11.5*	11.5*	9.6*	9.6*	8.0	8.5*					4.9*	4.9*	
4.5	NLC			12.3	13.4*	8.1	10.4*	5.8	8.8*					4.4	4.8*	
	LC			13.4*	13.4*	8.8	10.4*	6.3	8.8*					4.8*	4.8*	9.0
	LC-V			13.6*	13.6*	10.5*	10.5*	7.8	8.8*					4.8*	4.8*	
3.0	NLC			11.3	15.6*	7.6	11.4*	5.6	9.2*	4.3	7.0			4.1	4.9*	
	LC			12.4	15.6*	8.3	11.4*	6.1	9.2*	4.7	7.1			4.5	4.9*	9.3
	LC-V			15.7	15.7*	10.4	11.4*	7.6	9.3*	5.9	7.9*			4.9*	4.9*	
1.5	NLC			10.7	12.8*	7.3	12.0*	5.4	9.0	4.2	6.9			4.0	5.1*	
	LC			11.8	12.8*	8.0	12.0*	5.9	9.0	4.6	7.0			4.4	5.1*	9.3
	LC-V			12.7*	12.7*	10.0	12.0*	7.4	9.5*	5.8	7.8*			5.1*	5.1*	
0	NLC			10.5	14.9*	7.1	12.0*	5.3	8.9	4.2	6.9			4.1	5.5*	
	LC			11.6	14.9*	7.8	12.0*	5.8	8.9	4.6	6.9			4.5	5.5*	9.1
	LC-V			14.9	15.4*	9.8	11.9*	7.3	9.4*	5.7	6.8*			5.5*	5.5*	
−1.5	NLC	9.9*	9.9*	10.5	14.2*	7.0	11.2*	5.2	8.8*					4.4	6.2*	
	LC	9.9*	9.9*	11.6	14.2*	7.7	11.2*	5.7	8.8*					4.8	6.2*	8.6
	LC-V	10.5*	10.5*	14.1*	14.1*	9.8	11.1*	7.2	8.7*					6.1	6.2*	
−3.0	NLC	13.4*	13.4*	10.7	11.9*	7.1	9.5*	5.4	7.1*					5.1	6.3*	
	LC	13.4*	13.4*	11.8	11.9*	7.8	9.5*	5.8	7.1*					5.6	6.3*	7.8
	LC-V			11.6*	11.6*	9.3*	9.3*	6.9*	6.9*					6.2*	6.2*	
−4.5	NLC					6.3*	6.3*							6.2*	6.2*	
	LC					6.3*	6.3*							6.2*	6.2*	6.1
	LC-V															
−6.0	NLC															
	LC															
	LC-V															

Stick 3.10 m

m	Under-carriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				m
10.5	NLC													4.5*	4.5*	
	LC													4.5*	4.5*	5.8
	LC-V													4.4*	4.4*	
9.0	NLC					7.6*	7.6*							5.2*	5.2*	
	LC					7.6*	7.6*							5.2*	5.2*	6.5
	LC-V					8.0*	8.0*							5.1*	5.1*	
7.5	NLC					8.7*	8.7*	6.1	6.8*					4.6*	4.6*	
	LC					8.7*	8.7*	6.6	6.8*					4.6*	4.6*	7.8
	LC-V					8.7*	8.7*	7.2*	7.2*					4.6*	4.6*	
6.0	NLC					8.5	9.1*	6.0	8.2*					4.3*	4.3*	
	LC					9.1*	9.1*	6.5	8.2*					4.3*	4.3*	8.7
	LC-V					9.2*	9.2*	8.0	8.2*					4.3*	4.3*	
4.5	NLC			12.5	12.8*	8.1	10.1*	5.8	8.6*	4.4	6.6*			4.2	4.2*	
	LC			12.8*	12.8*	8.9	10.1*	6.3	8.6*	4.8	6.6*			4.2*	4.2*	9.3
	LC-V			13.0*	13.0*	10.2*	10.2*	7.8	8.6*	5.9	6.9*			4.2*	4.2*	
3.0	NLC			11.4	15.1*	7.7	11.1*	5.6	9.0*	4.3	7.0			3.9	4.3*	
	LC			12.6	15.1*	8.4	11.1*	6.1	9.0*	4.7	7.0			4.3	4.3*	9.5
	LC-V			15.3*	15.3*	10.4	11.2*	7.6	9.1*	5.8	7.8*			4.3*	4.3*	
1.5	NLC			10.7	15.4*	7.3	11.8*	5.4	9.0	4.2	6.9			3.8	4.5*	
	LC			11.8	15.4*	8.0	11.8*	5.9	9.0	4.6	6.9			4.2	4.5*	9.6
	LC-V			15.1*	15.1*	10.0	11.9*	7.4	9.4*	5.7	7.8*			4.5*	4.5*	
0	NLC			10.4	15.7*	7.0	12.0*	5.2	8.8	4.1	6.8			3.9	4.8*	
	LC			11.5	15.7*	7.7	12.0*	5.7	8.8	4.5	6.8			4.3	4.8*	9.4
	LC-V			14.8	15.9*	9.7	11.9*	7.2	9.4*	5.7	7.5*			4.8*	4.8*	
−1.5	NLC	9.8*	9.8*	10.4	14.6*	6.9	11.3*	5.2	8.8					4.2	5.4*	
	LC	9.8*	9.8*	11.5	14.6*	7.6	11.3*	5.7	8.8					4.6	5.4*	8.9
	LC-V	10.3*	10.3*	14.5*	14.5*	9.7	11.3*	7.2	8.8*					5.4*	5.4*	
−3.0	NLC	14.9*	14.9*	10.5	12.4*	7.0	9.9*	5.2	7.5*					4.8	6.2*	
	LC	14.9*	14.9*	11.7	12.4*	7.7	9.9*	5.7	7.5*					5.2	6.2*	8.2
	LC-V	14.6*	14.6*	12.2*	12.2*	9.7*	9.7*	7.2	7.4*					6.1*	6.1*	
−4.5	NLC			9.1*	9.1*	7.1*	7.1*							5.3*	5.3*	
	LC			9.1*	9.1*	7.1*	7.1*							5.3*	5.3*	6.9
	LC-V			8.7*	8.7*	6.8*	6.8*							5.5*	5.5*	
−6.0	NLC															
	LC															
	LC-V															

Stick 3.90 m

m	Under-carriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				m
10.5	NLC															
	LC															
	LC-V															
9.0	NLC							4.1*	4.1*					3.7*	3.7*	
	LC							4.1*	4.1*					3.7*	3.7*	7.6
	LC-V							4.7*	4.7*					3.7*	3.7*	
7.5	NLC							6.3	6.8*					3.4*	3.4*	
	LC							6.8	6.8*					3.4*	3.4*	8.7
	LC-V							6.9*	6.9*					3.4*	3.4*	
6.0	NLC					7.9*	7.9*	6.2	7.5*	4.5	5.8*			3.2*	3.2*	
	LC					7.9*	7.9*	6.7	7.5*	4.9	5.8*			3.2*	3.2*	9.5
	LC-V					8.0*	8.0*	7.5*	7.5*	5.9*	5.9*			3.2*	3.2*	
4.5	NLC			10.8*	10.8*	8.4	9.2*	6.0	8.0*	4.5	7.2*			3.2*	3.2*	
	LC			10.8*	10.8*	9.1	9.2*	6.5	8.0*	4.8	7.2*			3.2*	3.2*	10.0
	LC-V			11.5*	11.5*	9.3*	9.3*	7.9	8.0*	6.0	7.2*			3.2*	3.2*	
3.0	NLC			11.9	13.9*	7.9	10.4*	5.7	8.6*	4.3	7.1			3.2*	3.2*	
	LC			13.1	13.9*	8.6	10.4*	6.2	8.6*	4.7	7.1			3.2*	3.2*	10.3
	LC-V			14.1*	14.1*	10.5*	10.5*	7.7	8.6*	5.9	7.5*			3.2*	3.2*	
1.5	NLC			11.0	15.7*	7.4	11.4*	5.4	9.1	4.2	6.9			3.3*	3.3*	
	LC			12.1	15.7*	8.1	11.4*	5.9	9.1	4.6	6.9			3.3*	3.3*	10.4
	LC-V			15.4	15.8*	10.1	11.5*	7.4	9.1*	5.7	7.7*			3.3*	3.3*	
0	NLC	5.7*	5.7*	10.5	16.2*	7.1	11.9*	5.2	8.8	4.1	6.8			3.4	3.5*	
	LC	5.7*	5.7*	11.6	16.2*	7.7	11.9*	5.7	8.9	4.5	6.8			3.5*	3.5*	10.2
	LC-V	6.0*	6.0*	14.9	16.2*	9.8	11.9*	7.2	9.4*	5.6	7.7*			3.6*	3.6*	
−1.5	NLC	9.4*	9.4*	10.3	15.5*	6.9	11.7*	5.1	8.7	4.0	6.7			3.6	3.9*	
	LC	9.4*	9.4*	11.4	15.5*	7.6	11.7*	5.6	8.7	4.4	6.8			3.9*	3.9*	9.8
	LC-V	9.7*	9.7*	14.7	15.4*	9.6	11.6*	7.1	9.1*	5.6	7.2*			4.0*	4.0*	
−3.0	NLC	14.0*	14.0*	10.4	13.9*	6.9	10.7*	5.1	8.3*	4.1	5.5*			4.1	4.5*	
	LC	14.0*	14.0*	11.5	13.9*	7.6	10.7*	5.6	8.3*	4.5	5.5*			4.4	4.5*	9.1
	LC-V	14.4*	14.4*	13.7*	13.7*	9.6	10.6*	7.1	8.2*					4.6*	4.6*	
−4.5	NLC	14.1*	14.1*	10.6	11.2*	7.0	8.7*	5.2	6.4*					4.8	5.2*	
	LC	14.1*	14.1*	11.2*	11.2*	7.7	8.7*	5.7	6.4*					5.2*	5.2*	8.0
	LC-V	13.6*	13.6*	10.9*	10.9*	8.5*	8.5*	6.1*	6.1*					5.1*	5.1*	
−6.0	NLC															
	LC															
	LC-V															

Height **Can be slewed though 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 400 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.

Available HD Buckets

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

	Cutting width	Capacity ISO 7451	Weight[2]	Weight[3]	NLC-Undercarriage								LC-Undercarriage								LC-V-Undercarriage							
					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			
	mm	m³	kg	kg	2.50	2.80	3.10	3.90	2.50	2.80	3.10	3.90	2.50	2.80	3.10	3.90	2.50	2.80	3.10	3.90	2.50	2.80	3.10	3.90	2.50	2.80	3.10	3.90
HD[1]	**Mono boom 6.05 m**																											
	1,050	1.00	1,100	1,120	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.25	1,250	1,270	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,400	1.45	1,340	1,360	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲
	1,550	1.60	1,430	1,450	▲	▲	■	■	▲	▲	■	■	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	■
	1,650	1.75	1,540	1,560	▲	■	▲	△	■	▲	▲	△	▲	▲	■	■	▲	▲	■	△	▲	▲	▲	■	▲	▲	▲	△
	1,550	1.85	1,510	1,520	■	■	▲	△	■	▲	■	△	▲	▲	■	△	▲	■	▲	△	▲	▲	▲	△	▲	▲	▲	△
	1,650	2.00	1,620	1,640	▲	■	■	△	▲	■	△	–	■	■	▲	△	■	▲	■	–	▲	▲	▲	△	▲	▲	▲	–
	1,750	2.15	1,800	–	■	△	△	–	–	–	–	–	▲	▲	■	–	–	–	–	–	▲	▲	■	–	–	–	–	–
	Straight mono boom 6.50 m																											
	1,050	1.00	1,100	1,120	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.25	1,250	1,270	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲
	1,400	1.45	1,340	1,360	▲	▲	■	■	▲	■	▲	△	▲	▲	▲	▲	▲	▲	■	■	▲	▲	▲	■	▲	▲	▲	▲
	1,550	1.60	1,430	1,450	■	■	▲	△	■	▲	■	△	▲	▲	■	■	▲	■	▲	△	▲	▲	▲	▲	▲	▲	▲	■
	1,650	1.75	1,540	1,560	▲	■	△	△	■	△	△	–	■	■	▲	△	■	▲	■	△	▲	▲	▲	△	▲	▲	▲	△
	1,550	1.85	1,510	1,520	▲	■	△	–	■	△	△	–	■	▲	■	△	▲	■	■	△	▲	▲	▲	△	▲	▲	▲	△
	1,650	2.00	1,620	1,640	■	△	△	–	△	△	–	–	▲	■	△	△	■	△	△	–	▲	▲	▲	△	▲	▲	■	–
	1,750	2.15	1,800	–	△	△	–	–	–	–	–	–	■	△	△	–	–	–	–	–	▲	■	■	–	–	–	–	–
	Two-piece boom 6.80 m																											
	1,050	1.00	1,100	1,120	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.25	1,250	1,270	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲
	1,400	1.45	1,340	1,360	▲	▲	■	■	▲	■	▲	△	▲	▲	▲	▲	▲	▲	■	■	▲	▲	▲	■	▲	▲	▲	▲
	1,550	1.60	1,430	1,450	■	▲	■	△	▲	■	■	△	▲	▲	■	■	▲	■	▲	△	▲	▲	▲	▲	▲	▲	▲	■
	1,650	1.75	1,540	1,560	▲	■	△	△	■	△	△	–	■	▲	▲	△	■	▲	■	△	▲	▲	▲	■	▲	▲	▲	△
	1,550	1.85	1,510	1,520	■	■	△	–	■	△	△	–	■	▲	■	△	▲	■	▲	△	▲	▲	▲	△	▲	▲	▲	△
	1,650	2.00	1,620	1,640	△	△	△	–	△	△	–	–	▲	■	△	△	■	△	△	–	▲	▲	■	△	▲	▲	■	–
	1,750	2.15	1,800	–	△	△	–	–	–	–	–	–	△	△	△	–	–	–	–	–	▲	■	▲	–	–	–	–	–

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

[1] HD bucket with teeth Z 50

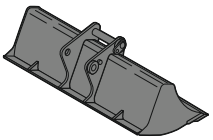
[2] Bucket for direct mounting

[3] Bucket for mounting to quick coupler

Other buckets available upon request

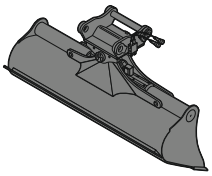
Max. material weight ▲ = ≤ 2.0 t/m³, ■ = ≤ 1.8 t/m³, ▲ = ≤ 1.65 t/m³, ■ = ≤ 1.5 t/m³, △ = ≤ 1.2 t/m³, – = not authorised

Available Tools



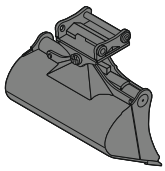
Rigid Ditch Cleaning Bucket

GRL 100, for mounting to quick coupler SW66				
Cutting width	mm	2,000	2,400	2,400
Capacity	m^3	0.70	0.85	1.25
Weight	kg	550	640	690



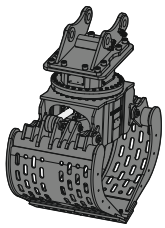
Ditch Cleaning Bucket

GRL 100, 2 x 50° tiltable, for mounting to quick coupler SW66						
Cutting width	mm	2,000	2,000	2,200*	2,400*	2,400*
Capacity	m^3	0.70	1.45	1.65	0.85	1.45
Weight	kg	1,400	1,600	1,660	1,480	1,610



Tilt Bucket

SL 100, 2 x 50° tiltable, for mounting to quick coupler SW66					
Cutting width	mm	1,600	1,600	1,800	1,800*
Capacity	m^3	1.15	1.45	1.60	1.60
Weight	kg	1,520	1,520	1,620	–
Weight in HD-version	kg	–	–	–	1,750



Sorting Grab

SG 40, for mounting to quick coupler SW66		ribbed	perforated	Gravel tongs
Cutting width	mm	1,100*	1,100*	1,200*
Capacity	m^3	1.10	1.30	1.30
Weight	kg	2,320	2,230	2,360

* also available for SW48

Standard Equipment

Undercarriage

- Chain guide 1 piece
- Lashing eyelets
- Sprocket with dirt ejector
- Track rollers, lifetime-lubricated
- Tracks, sealed and greased

Uppercarriage

- Engine hood with gas spring opening
- Handrails
- Manual main switch
- Non slip surfaces
- Right-hand rearview mirror
- Sound insulation
- Storage space, lockable
- Swing brake lock, maintenance-free
- Swing drive oil tank
- Tool set 29 pieces

Hydraulic System

- Dedicated swing circuit
- Filter with integrated fine filter area
- Liebherr hydraulic oil
- Positive Control system
- Pressure storage for controlled lowering of equipment with engine turned off
- Pressure test ports for hydraulic
- Shut-off valve between hydraulic tank and pumps
- Work mode selector

Engine

- Common-Rail injection system
- Conform with stage IV/Tier 4f emission standard
- Engine idling, automatic, sensor-controlled
- Fixed geometry turbo charger
- Fuel filter and water separator
- Intercooler
- Liebherr SCR technology
- Stepless adjustable engine speed

Operator's Cab

- 7" colour multifunction display with touchscreen
- Air conditioning, automatic
- Cigarette lighter and ashtray
- Coat hook
- Cup holder
- Fuel consumption indicator on touchscreen
- Headlights on cab, front, halogen, 2 pieces
- Hydraulic suspension
- Interior light
- LiDAT Plus (Liebherr data transfer system)*
- Mechanical hour meters, readable from outside the cab
- Oil level monitoring on touchscreen
- Operator seat Comfort with longitudinal and vertical damping
- Preparation for radio installation
- Rain hood over front window opening
- Rearview mirrors
- Rear view monitoring camera
- Rear window emergency exit
- Retractable seat belt 51 mm
- Roll-down sun blinds (front and roof windows)
- Roof window, right window and windshield with laminated safety glass
- ROPS safety cab structure (ISO 12117-2)
- Rubber floor mat
- Sliding windows in cab door
- Storage bin
- Storage space
- Tinted windows
- Urea tank level monitoring on touchscreen
- Windscreen, totally or partially retractable
- Wiper/washer

Attachment

- Boom cylinders oil regeneration
- Headlight on boom, right, halogen, 1 piece
- Liebherr central lubrication system, fully-automatic (except connecting link for bucket kinematics)
- Load valve for stick cylinder (on distributor)
- Safety check valves for hoist cylinders
- Stick cylinder oil regeneration

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

* optionally extendable after one year

Options

Undercarriage

- Chain guide 3 pieces
- Chain kit, reinforced (D7G)
- Lockable tool box
- Reinforced cover and base plate for undercarriage centre section
- Special painting
- Steps, wide version
- Track pads, angled or chamfered

Uppercarriage

- Additional headlights on uppercarriage, front, halogen or LED, 2 pieces, protections included
- Additional right-hand rearview mirror
- Bottom and lateral protection for uppercarriage
- Counterweight 6.3 t
- Electric socket for external start-up aid (24 V)
- Electric socket for urea filling station (24 V)
- Engine compartment lighting
- Fine filter protection grid for radiator
- Fuel anti-theft device
- Fuel tank cap lockable with padlock
- Reversible fan drive
- SkyView 360° camera
- Special painting
- Storage space with extended tool set 40 pieces (incl. tool box)
- Tank refilling pump fuel
- Walkway, foldable
- Wiggins quick coupling for fuel

Hydraulic System

- Bypass filter for hydraulic oil
- Liebherr hydraulic oil, adapted for extreme climate conditions
- Liebherr hydraulic oil, biodegradable

Engine

- Air pre-filter with dust trap
- Automatic engine shut-down after idling
- Engine shut-down self-timer
- Liebherr particle filter
- Wiggins quick coupling for engine oil

Operator's Cab

- Acoustic travel alarm deactivatable
- Additional headlights cab, front and/or rear, halogen or LED, 2 pieces
- Adjustable intensity headlights (LED)
- Amber beacon on cabin
- Auxiliary heater (programmable)
- Bottom windscreen wiper
- Camera for side area monitoring
- Cool box (12 V)
- Electronic immobilizer

Operator's Cab

- Emergency stop button in cab
- Falling objects protection structure FOPS
- Fire extinguisher
- First-aid box
- Follow me home headlights
- Footrest
- Front guard protection structure FGPS
- Handrests elevated for joysticks
- Headlights on cab, front, LED, 2 pieces
- Impact-resistant 1 piece windscreen
- Impact-resistant roof window
- Integral protection guard FGPS + FOPS
- Liebherr proportional control (mini-joysticks 2 axis)
- Operator seat Comfort with 4-points seat belt
- Operator seat Premium with integrated ventilation
- Radio Comfort
- Retractable seat belt 76 mm, orange color
- Roof window wiper
- Seat belt indicator
- Special painting
- Sun visor
- Sunshield on cab roof
- Switchable high-pressure control

Attachment

- Additional headlight on boom, left, halogen or LED, 1 piece
- Bottom protection for stick
- Eyelet on stick
- Filter for hydraulic hammer return flow
- Headlight on boom, right, LED, 1 piece
- Headlights protection
- High pressure circuit
- Hoist cylinder stroke limitation, adjustable
- Hydraulic circuit for grapple
- Liebherr automatic lubrication system for connecting link
- Liebherr bucket range
- Liebherr quick coupler, hydraulic or mechanical
- Liebherr tooth system
- LIKUFIX, quick coupling system for hydraulic tools
- Lubricant hoses protection on stick
- Medium pressure circuit
- Overload warning device
- Preparation for automatic pedestrian detection system
- Preparation for machine guidance system
- Preparation for weighing system
- Protection for piston rod, adjusting cylinder
- Protection for piston rod, bucket cylinder
- Protection for piston rod, stick cylinder
- Protection for quick change couplings, sideways on stick
- Safety check valves for stick cylinder
- Security for hoist cylinders
- Special painting
- Stick cylinder stroke limitation, adjustable
- Tool Control, 10 tool adjustments selectable over the display
- Tool Management, automatic tool recognition (in combination with LIKUFIX)

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

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

The Liebherr Group of Companies

Wide Product Range
The Liebherr Group is one of the largest construction equipment manufacturers in the world. Liebherr's high-value products and services enjoy a high reputation in many other fields. The wide range includes domestic appliances, aerospace and transportation systems, machine tools and maritime cranes.

Exceptional Customer Benefit
Every product line provides a complete range of models in many different versions. With both their technical excellence and acknowledged quality, Liebherr products offer a maximum of customer benefits in practical applications.

State-of-the-art Technology
To provide consistent, top quality products, Liebherr attaches great importance to each product area, its components and core technologies. Important modules and components are developed and manufactured in-house, for instance the entire drive and control technology for construction equipment.

Worldwide and Independent
Hans Liebherr founded the Liebherr family company in 1949. Since that time, the enterprise has steadily grown to a group of more than 130 companies with over 41,000 employees located on all continents. The corporate headquarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.

www.liebherr.com

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