Crawler excavator

R 936



LIEBHERR



Efficiency

High level of productivity for a lower overall operating cost

Reliability
Result of ongoing improvements

Comfort

Spacious, ergonomic and with high-visibility

Maintainability
Simplified daily checks, longer maintenance intervals



Performance



Performance, precision and responsiveness

Advanced techniques heighten performance

In its design offices, Liebherr combines the technological knowhow 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 longreach, 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.

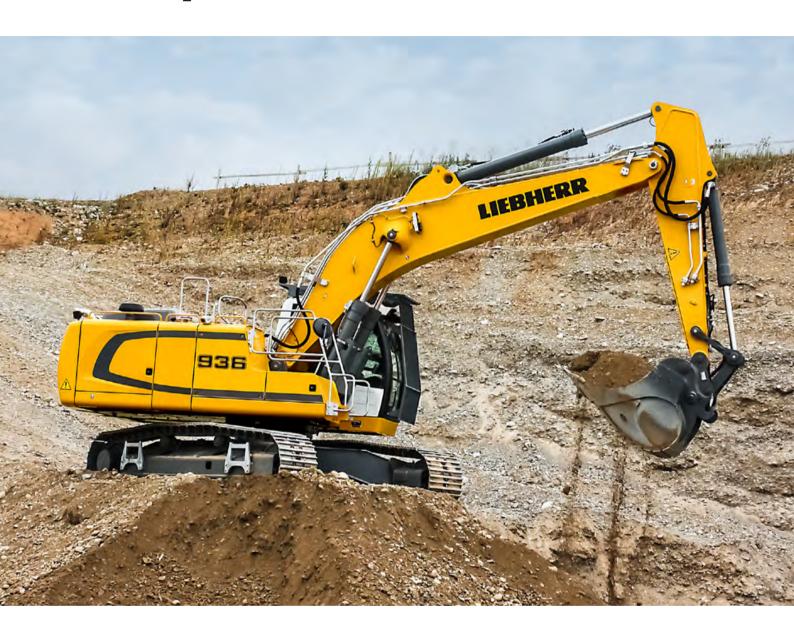
Liebherr tools

- 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®)

- Diesel exhaust fluid level indicator on the display
- · 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

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 parts in stock at all times







Comfort



Spacious, ergonomic and with high-visibility

A first class work space

In this cab, the operator has a pneumatic seat with horizontal 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 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
- 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

Heightened 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.

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 interruption 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 vehicle 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 elements
- 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

Automatic centralized lubrication - standard

- · Reduced maintenance time
- Longer service life thanks to better lubrication

Visibility

- Rear camera integrated in the counterweight
- Optimized design of the whole uppercarriage providing the operator with a better field of vision
- Large glazed surface area with secure emergency exit through the rear window

Technical Data

Engine

Rating per ISO 9249	170 kW (231 HP) at 1,800 RPM
Torque	1,250 Nm at 1,100 RPM
Model	Liebherr D934 A7
Туре	4 cylinder in-line
Bore/Stroke	122/150 mm
Displacement	7.0
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 I
Urea tank	65 I
Electrical system	
Voltage	24 V
Batteries	2 x 180 Ah/12 V
Starter	24 V/7.8 kW
Alternator	three-phase current 28 V/100 A
Engine idling	sensor controlled
Motor management	connection to the integrated excavator system con- trolling via CAN-BUS to the economical utilisation of the service that is available

Hydraulic Controls

The controlling is conducted v	via the integrated excavator system technology, input and
output modules, communicat	ed 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 and adjusted with a plugable lever
	speed pre-selection
Additional functions	proportional regulation via foot padals or rocker

। । । Hvdraulic System

■ myarauli	c 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 sensibility provided by integrated system controlling. Independent circuit for rotation.
Hydraulic pump	'
for attachment	Liebherr, variable displacement, swashplate double
and travel drive	pump
Max. flow	2 x 238 l/min.
Max. pressure	380 bar
for swing drive	reversible, variable flow, swashplate pump, closed- loop circuit
Max. flow	175 I/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
Hydraulic system	max. 480 l
Hydraulic oil filter	1 full flow filter (10 μ m) in return line with integrated fine filter area (5 μ m)
Cooling system	compact cooler, consisting of a water cooler, sand- wiched 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-or 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 – 9.3 RPM stepless
Swing torque	94 kNm
Holding brake	wet multi-disc (spring applied, pressure released)

Operator's Cab

- Operator	
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 side 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, 12 V plug, storage bins, lunchbox, cup holder
Operator's seat	Comfort seat, airsprung with automatic weight adjust- ment, vertical and horizontal seat damping including consoles and joysticks. Seat and armrests adjust- able 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 selfexplana- tory operation via touchscreen, video, versatile adjust- ing, control and monitoring facilities, e.g. climate con- trol, implement and tool parameters
Air-conditioning	standard automatic air-conditioning, ambient air func- tion, 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 the outside. Heating-cooling unit, designed for extreme outside temperatures, sensors for solar radiation, inside and outside temperatures

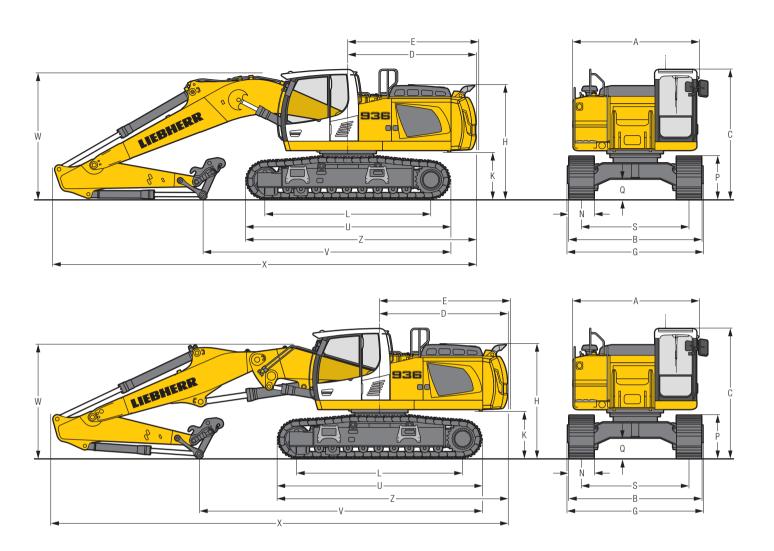
◯ Undercarriage

	9
Versions	
NLC	gauge 2,390 mm
LC	gauge 2,590 mm
LC-V	gauge 2,390/2,490 mm (transport position)
	gauge 2,740/2,890 mm (work position)
Drive	Liebherr swashplate motors with integrated brake
	valves on both sides
Transmission	Liebherr planetary reduction gears
Travel speed	low range - 3.2 km/h
	high range - 5.2 km/h
Net drawbar pull on crawler	NLC/LC: 261 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

Туре	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



NLC	mm	LC	mm	LC-V			mm
Α	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
Н	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	- 2,490 /	2,740* -	- 2,890*
U	4,920		4,920				5,010
N	500 600 750 900	500 600	750 900	500	600	750	900
В	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

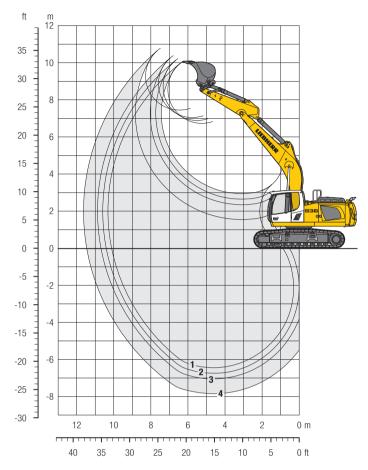
NL	NLC-Undercarriage					
	Stick	Mono boom	Straight mono boom	Two-piece boom		
	length	6.05 m	6.50 m	4.20 m		
	mm	mm	mm	mm		
٧	2.50	6,000	6,650	6,800		
	2.80	5,700	6,450	6,450		
	3.10	5,450	6,250	6,100		
	3.90	4,750	5,750	5,150		
W	2.50	3,050	2,950	2,850		
	2.80	3,050	3,000	2,850		
	3.10	3,100	3,100	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	-Underc	arriage		
	Stick length	Mono boom 6.05 m	Straight mono boom 6.50 m	Two-piece boom 4.20 m
	mm	mm	mm	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	LC-V-Undercarriage						
	Stick	Mono boom	Straight mono boom	Two-piece boom			
	length	6.05 m	6.50 m	4.20 m			
	mm	mm	mm	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/cm ²	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/cm ²	0.79	0.67	0.54

Optional: heavy counterweight

(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)

	width	NLC-Undercarriage							LC-Undercarriage						LC-V-Undercarriage													
	Cutting wi	Capacity ISO 7451	Weight ²⁾	Weight ³⁾	2.50	2.80							2.50	Stick length (m) 2.50 2.80 3.10 3.90 2.50 2.80 3.10 3.9							Stick length (m) 0 2.50 2.80 3.10 3.90 2.50 2.80 3.10 3.90							
	mm	m^3	kg	kg			ick co							out qu					k coup			out qu					k coup	
	1,050	1.00	940	960	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	•	A						
	1,250	1.25	1,070	1,090	A	A	A	A	A	A	A	A	•	•	•	A	A	A	A	A	•	A	A	•	A	A	A	A
	1,400	1.45	1,140	1,160	A	A	A		A	A	A		A	A	A	A	A	A	A		A	A	A	A	A	A	A	
STD1)	1,550	1.60	1,210	1,230	A	A	A	A	A	A			A	A	A		A	A	A	A	A	A	A		A	A	A	
ST	1,650	1.75	1,300	1,320	A	A			A		A	Δ	A	A	A		A	A			A	A	A		A	A	A	
	1,550	1.85	1,300	1,310	A		A	Δ			A	Δ	•	•			A	•		Δ	A	A	A		A	A	A	Δ
	1,650	2.00	1,390	1,410		A		Δ	A			Δ	•		A	Δ			A	Δ	A	A	A	Δ	A	A	A	Δ
	1,750	2.15	1,550	_	A		Δ	_	_	_	_	_		A		Δ	_	-	_	_	A	A		Δ	-	_	_	_

^{*} Indicated loads are based on ISO 10567 max. stick length, lifted 360° on firm

Other backhoes available on request

 $\text{Max. material weight } \blacktriangle = \leq 2.0 \text{ t/m}^3, \blacksquare = \leq 1.8 \text{ t/m}^3, \blacktriangle = \leq 1.65 \text{ t/m}^3, \blacksquare = \leq 1.5 \text{ t/m}^3, \Delta = \leq 1.2 \text{ t/m}^3, -= \text{not authorised material weight } 4.0 \text{ t/m}^3, \Delta = \leq 1.2 \text{$

¹⁾ Standard bucket with teeth Z 50

²⁾ Bucket for direct fitting

³⁾ Bucket for fitting to quick coupler (SW66, 350 kg)

Height Can be slewed though 360°

with Mono Boom 6.05 m and Counterweight 5.4 t

Stick 2.80 m Stick 2.50 m 4.5 m 6.0 m 9.0 m 4.5 m 6.0 m 7.5 m 9.0 m 10.5 m 10.5 m Under-Under-الله الحج ď -- 6 -s 6 <u>.</u> carriage carriage m -50 -3 m NI C NI C 10.5 NLC LC NLC LC LC-V 9.0 9.0 5.2* 5.2* 5.2* 5.2* 6.8 5.1* 5.1* 4.9* 4.9* 4.9* 4.9* 4.8* 4.8* 8.9* 8.8* 9.0* 9.0* 9.0* NLC 5.9* 5.9* 5.5* 5.5* 5.5* 8.3* 8.3* 8.6* 7.5 7.5 5.6 6.1 7.6* 8.0 8.7 9.0* 8.1 8.6* 8.6* 5.5* 5.5* 5.5* 7.4 NLC 6.0 6.0 LC LC-V 8.6* 8.6* 9.0° 9.0° 5.7° 18.8° 18.8° 11.8 12.3° 7.7 9.9° 5.5° 18.8° 18.8° 12.3° 12.3° 8.4 9.9° 6.0 12.5° 12.5° 10.0° 10.0° 7.4 10.8 14.9° 7.3 11.0° 5.3 12.0 14.9° 8.0 11.0° 5.8 15.1° 15.1° 10.0 11.1° 7.2 10.2 16.5° 6.9 11.9° 5.6 14.5 16.5° 9.6° 11.9° 5.6 14.5 16.5° 9.6° 11.9° 5.6 7.7 8.4 9.6* 7.3 8.0 4.9 5.3 5.5* 5.5* 5.5* 5.5* 11.6* 11.6* 11.6* 11.6* 17.7* 17.7* 11.9* 11.9* 9.5* 9.5* 9.6* NI C NI C 55 4.6 4.8* 4.8* 4.8* 4.8* 4.5 LC LC-V 11.9° 11.9° 11.0 14.3* 12.1 14.3* 14.5* 14.5* 1 10.2 16.1* 11.3 16.1* 14.5 16.2* 5.3 5.8 7.2 5.1 4.6 4.9* 4.6 4.9* 4.9* 4.9* 8.8 4.5 4.9 5.6* 5.6* **8.4** 10.7* 10.7* 8.8 3.0 3.0 LC LC-V LC LC-V 8.0 10.7° 10.0 10.8° 6.9 11.7° 7.6 11.7° 9.6 11.8° 5.6* 4.3 4.7 6.0 4.9* 4.1 4.5 5.2* NLC 6.0 NLC 1.5 6.0* 1.5 16.5* 16.5* 16.5* 6.7 11.8 7.4 11.8 9.4 12.3* 5.0 5.5 6.9 8.5 8.5 6.7* 6.7* 6.7* 8.2 NI C 9.9 16.5* 11.0 16.5* 14.2 16.5* 6.7 11.7 7.3 11.8 9.4 12.2* 5.0 8.4 4.2 4.6 5.8* 5.8* 5.8* 5.8* **8.5** 4.5 4.9 6.2 4.8 5.3 6.8 0 0 5.5 8.5 9.6* 5.8* 5.8* 4.6 6.7* 5.0 6.7* 8.0 6.4 6.8* 5.3 8.2* 7.5 8.2* 7.5 8.2* 7.5 7.5* 7.5* 7.5* 7.4* 7.4* 14.9* 14.9* 10.0 15.5* 6.7 11.7 5.0 14.9* 14.9* 11.0 15.5* 7.3 11.7 5.5 15.7* 15.7* 14.3 15.4* 9.3 11.7* 7.0 NLC LC LC-V 14.4* 14.4* 9.9 15.8* 14.4* 14.4* 10.9 15.8* 15.0* 15.0* 14.2 15.7* 6.6 11.6 7.3 11.7 9.3 11.8* 7.9* 7.9* 8.0* -1.5 7.7 -1.5 I.C.-V 6.9 13.5* 13.5* 13.2* 6.8 10.3* 7.4 10.3* 9.5 10.1* 5.8 6.3 8.2 8.5* 8.5* 8.4* 18.4* 18.4* 10.0 18.4* 18.4* 11.1 18.1* 18.1* 13.8* 6.7 7.3 9.4 14.0* 14.0* 11.2 13.5* 13.2* 13.2* 9.5* 9.5* 9.5* 9.5* -3.0-3.0 LC LC-V LC LC-V 10.6* 13.8* 13.8* 10.4 10.5* 7.5* 7.5* 7.5* 7.5* **5.4** NLC NLC -4.5-4.5 NI C NLC -6.0 -6.0 Stick 3.10 m Stick 3.90 m 3.0 m 3.0 m 7.5 m 9.0 m | 10.5 m | 4.5 m 6.0 m 7.5 m 9.0 m 4.5 m 6.0 m 10.5 m 🖊 Under-Under-ا ا الله الله j الله الحج carriage m carriage -50 m NLC 10.5 10.5 NI C 9.0 LC-V 9.0 LC-V 4.5* 4.5* 4.5* 4.5* 4.5* 4.5* 4.3* 4.3* 4.3* 4.3* 4.3* 4.3* 4.3* 4.3* NLC 7.5 7.5 8.1 8.2 5.7 8.2 8.2 6.2 8.2 8.2 7.6 8.2 8.2 8.2 7.6 8.2 8.2 8.2 7.6 8.3 8.2 8.2 7.6 8.3 8.2 8.2 7.6 8.3 8.2 8.2 7.6 8.3 8.2 8.2 7.6 8.3 8.2 8.2 7.6 8.3 8.2 8.2 7.6 8.3 8.2 8.2 7.6 8.3 8.3 8.5 8.5 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3 12.1 6.9 8.4 8.4 14.2 16.5 9.3 12.1 6.9 8.4 13.8 13.8 9.8 16.0 6.5 11.6 4.9 8.4 13.8 13.8 10.9 16.0 7.2 11.6 5.3 8.3 13.8 9.8 16.0 6.5 11.6 4.9 8.3 13.8 13.8 10.9 16.0 7.2 11.6 5.3 8.3 13.8 13.8 10.9 16.0 7.2 11.6 5.3 8.3 13.8 13.8 10.9 16.0 7.2 11.6 5.3 8.3 13.8 13.8 10.9 16.0 7.2 11.6 5.3 8.3 13.8 13.8 10.9 16.0 7.2 11.6 5.3 8.3 13.8 13.8 10.9 16.0 7.2 11.6 5.3 8.3 13.8 13.8 10.9 16.0 7.2 11.6 5.3 8.3 13.8 13.8 10.9 16.0 7.2 11.6 5.3 8.3 13.8 13.8 10.9 16.0 7.2 11.6 5.3 8.3 13.8 13.8 10.9 16.0 7.2 11.6 5.3 8.3 13.8 13.8 10.9 16.0 7.2 11.6 5.3 5.7 7.7* 6.2 7.7* 7.6 7.8* 5.5 8.1* 5.8 6.3 6.9* 6.9* 6.9* 6.0 6.0 1 C LC LC-V 6.9* 7.4* 7.4* 7.4* 8.0 8.1* 8.1* 8.1* 8.2* 8.2* 7.5 9.5* 8.2 9.5* 9.6* 9.6* 7.1 10.8* 9.7 10.9* 6.7 11.7* 7.4 11.7* 9.4 11.8* 6.5 11.5 4.2* 4.2* 4.2* NI C NI C 5.6 4.5 4.5 6.1 7.4* 5.4 5.9 7.3 5.1 5.6 7.1 4.9 5.4 6.9 8.7* 8.7* 8.7* 4.0 4.3* 4.4* 18.9* 18.9* 18.9* 18.9* 19.6* 19.6* 11.6 12.1* 12.1* 12.1* 12.4* 12.4* 8.1* 8.1* 8.1* 6.7 6.7 7.1 4.3* 4.3* NLC LC 4.1 4.4 5.6 3.9 4.3 5.4 3.8 4.2 5.3 3.8 3.0 3.0 4 4 196" 196" 12.4" 12.4" 8.3" 8.3" 11.6 14.7" 8.2" 8.3" 11.7 14.7" 8.2" 8.2" 14.9" 14.9" 9.3" 9.3" 10.0 16.1" 9.3" 9.5" 14.3 16.2" 12.8" 12.8" 9.7 16.3" 12.8" 12.8" 10.8 16.3" 13.1" 13.1" 14.0 16.3" 13.1" 13.1" 14.0 16.3" 4.6* 4.6* **9.0** 3.9 4.3 4.6* 4.0 4.3 5.1* 4.3 4.7 5.9* 1.5 1.5 8.6 LC-V 4.6* 5.0* 5.0* 5.1* 8.8* 8.4 8.4 9.3* 9.3* 8.4 7.5 6.4 I C-V NLC 6.5 7.4 5.8* 0 8.4 9.5 0 6.5 11.5 7.2 11.6 9.2 12.0* 8.3 8.3 9.4* NI C 5.8 NLC 4.8 5.8* 5.9* -1.5 -1.5 19.3 19.5° 9.9 14.4° 6.6 10.9° 19.5° 19.5° 11.0 14.4° 7.2 10.9° 19.2° 14.2° 14.2° 9.3 10.8° 14.9° 14.9° 10.2 11.3° 6.8 8.2° 14.9° 14.9° 11.3° 11.3° 7.5 8.2° 14.4° 14.4° 11.0° 11.0° 7.7° 7.7° 4.9 5.4 7.0 7.3* 7.3* 7.5* **7.5** NLC LC LC-V 17.7* 17.7* 17.7* 17.7* 18.2* 18.2* 9.7 15.4* 10.8 15.4* 14.0 15.3* 6.5 7.1 9.1 11.5 11.5* 11.4* 4.8 5.3 6.7 8.2 8.3 8.8 4.2 4.6 5.2* 5.1* 5.1* 5.2* 5.0 5.4 -3.0-3.0 6.5 7.5* 7.1 7.5* 7.4* 7.4* **6.2** 18.3* 18.3* 9.9 18.3* 18.3* 11.0 6.6 9.9* 7.2 9.9* 9.3 9.7* 5.1 5.6 5.6 6.9* **7.3** 7.1* 7.1* 7.8* 7.8* 7.8* **5.0** -4.5 -4.5 LC-V 17.9* 17.9* 13.0* 13.0* NLC NLC 8.8* 8.8* 8.8* 8.8* -6.0-6.0 Max. reach * Limited by hydr. capacity

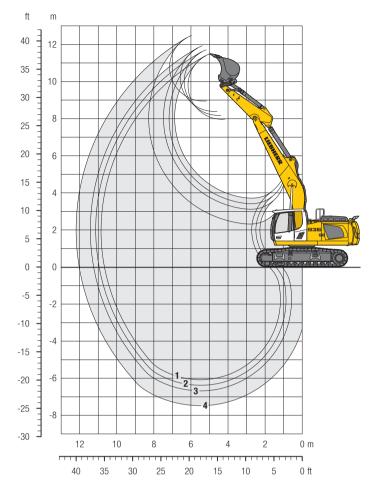
The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads. Indicated loads are based on ISO 10567 standard and 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.

In longitudinal position of undercarriage

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/cm ²	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/cm ²	0.79	0.67	0.54

Optional: heavy counterweight

(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)

	width	NLC-Undercarriage							LC-Undercarriage								LC-V-Undercarriage											
	Cutting wi	Capacity ISO 7451	Weight ²⁾	Weight ³⁾	2.50	Stick length (m) 2.80 3.10 3.90 2.50 2.80 3.10 3.90 out quick coupler with quick coupler						2.50	2.80			ngth (2.50	` '	3.10	3.90	2.50	2.80			ngth (2.50	•	3.10	3.90	
	mm	m^3	kg	kg	with	out qu	ick co	upler	wit	h quic	k cou	oler	with	out qu	ick co	upler	wit	h quic	k coup	oler	with	out qu	ick co	upler	wit	h quic	k coup	ler
	1,050	1.00	940	960	A	A	A	A	A	A	A	A	A	A	A	A	A	A	•	A	A	A	A	A	A	A	A	
	1,250	1.25	1,070	1,090	A	A	A		A	A	A		A	A	A	A	A	A	•	A	A	A	A	A	A	A	A	A
	1,400	1.45	1,140	1,160	A	A		A	A	A	П		A	A	A		A	A	•	A	A	A	•		A	A	•	
Ê	1,550	1.60	1,210	1,230	A		A	Δ		A		Δ	A	A		A	A	A			A	A	•	A	A	A	A	
ST	1,650	1.75	1,300	1,320		A		Δ	A		Δ	Δ	A		A				A	Δ	A	A	A		A	A	A	Δ
	1,550	1.85	1,300	1,310	A			Δ			Δ	_			A	Δ		A		Δ	A	A	•		A	A	A	Δ
	1,650	2.00	1,390	1,410		Δ	Δ	_	Δ	Δ	Δ	-	A	A		Δ	A		Δ	-	A	A	A	Δ	A	A	A	Δ
	1,750	2.15	1,550	_	Δ	Δ	Δ	_	-	_	_	_		Δ	Δ	_	_	_	_	_	A	A		_	_	_	-	_

^{*} Indicated loads are based on ISO 10567 max. stick length, lifted 360° on firm

Other backhoes available on request

 $\text{Max. material weight } \blacktriangle = \leq 2.0 \text{ t/m}^3, \blacksquare = \leq 1.8 \text{ t/m}^3, \blacktriangle = \leq 1.65 \text{ t/m}^3, \blacksquare = \leq 1.5 \text{ t/m}^3, \Delta = \leq 1.2 \text{ t/m}^3, -= \text{not authorised material weight } 4.0 \text{ t/m}^3, \Delta = \leq 1.2 \text{$

¹⁾ Standard bucket with teeth Z 50

²⁾ Bucket for direct fitting

³⁾ Bucket for fitting to quick coupler (SW66, 350 kg)

with Straight Mono Boom 6.50 m and Counterweight 5.4 t

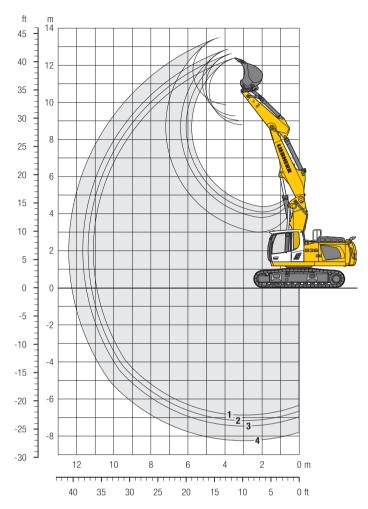
Stick 2.50 m Stick 2.80 m 4.5 m 6.0 m 9.0 m 4.5 m 6.0 m 7.5 m 9.0 m 10.5 m 10.5 m Under-Under-الله الله الله الحج ď -- 6 <u>-</u> 6 carriage carriage -30 --m NI C 10.5 10.5 NLC LC LC-V 6.9* 6.9* 6.9* 6.9* 6.8* 6.8* **5.6** NLC LC LC-V 6.1* 6.1* 6.1* 6.1* 7.2* 7.2* 5.9* 5.9* 5.9* 5.9* 5.8* 5.8* **6.0** 9.0 8.1 9.5° 8.8 9.5° 9.5° 9.5° 11.8° 11.8° 7.9 9.8° 5 11.8° 11.8° 8.9 9.8° 6 12.0° 12.0° 9.9° 9.9° 7. 11.3 13.9° 7.5 10.7° 5. 12.5 13.9° 8.2 10.7° 5. 14.1° 14.1° 10.2 10.8° 7.3 10.3 16.0° 7.0 11.6° 5.2 11.4 16.0° 7.0 11.6° 5.2 11.4 16.0° 7.7 11.6° 5.7 14.6 15.4° 9.7 11.7° 7.1 6.7 11.8 5.0 7.4 11.8 5.0 7.4 11.8 5.0 9.7 14.0° 6.5 11.5 4.9 0.8 14.0° 7.2 11.6 5.4° 1.8 13.7° 9.0 5.8° 5.2* 5.2* 5.2* 9.1* 9.1* 9.1* 9.5* 9.5* 9.6* NLC 5.2° 5.2° 5.2° 5.2° **7.5** 5.2° 5.2° 4.6 4.9° 4.9° 4.9° 4.9° 4.9° 6.0* 5.9* 4.9 5.3 5.6* 8.8 9.1* 7.9 8.6 9.6* 7.5 6.0* **7.1** 5.9* 7.5 5.7* 5.7° 5.6 8.5° 6.1 8.5° 7.5 8.5° 5.6* 5.6* 5.6* NLC 6.0 6.0 11.5' 11.5' 9.6' 9.6' 11.5 13.4' 7.5 10.4' 12.6 13.4' 8.2 10.4' 13.6' 13.6' 10.2 10.5' 10.4 15.6' 7.1 11.4' 11.5 15.6' 7.7 11.4' 14.7 15.7' 9.7 11.4' 14.7 15.7' 9.7 11.4' 10.9 12.8' 7.4 11.8 10.9 12.8' 7.4 11.8 10.9' 12.8' 9.4 12.0' 9.6 14.9' 6.5 11.5' 4.3 4.7 5.5* 5.4 5.9 7.3 4.1 4.8* 4.4 4.8* 4.8* 4.8* NI C 4.5 LC LC-V 8.8* 5.5* 5.5* 5.6* **9.0** 5.2 5.7 7.1 8.7 8.7 4.0 8.7 8.7 3.8 4.9* 4.9* **9.3** 4.0 4.3 5.5 3.9 4.2 5.4 3.0 3.0 LC I C-V LC LC-V 6.6 7.6 6.5 6.5 7.5 9.3* 8.4 8.5 9.5* 4.9* 3.7 4.1 5.1* 5.5 3.9 4.3 5.4 4.0 4.4 5.6 5.0 5.4 6.9 8.5 8.5 9.6* 5.8* 5.8* 5.8* NLC NLC 1.5 1.5 9.3 8.3 8.3 9.4* 8.3 8.4 9.4 6.3* 6.3* 6.4* **8.8** NI C 9.6 14.9* 6.5 7.1 9.1 11.5 11.5 11.9* 4.8 5.3 6.8 3.8 4.2 5.3 3.8 4.1 5.3 4.1 4.5 5.7 4.7 5.1 5.5* 5.5* **9.1** 5.5* 0 0 14.9* 15.4* 6.5 9.1 11.9* 6.8 6.4 11.2* 4.8 7.1 11.2* 5.7 9.1 11.1* 6.7 6.5 9.5* 4.9 7.2 9.5* 5.4 9.2 9.3* 6.9* 6.3* 6.3* 6.3* 14.0 14.6 9.2 11.9 6.8 9.8 13.7 6.5 11.0 6.8 10.9 13.7 7.2 11.0 5.3 13.6 13.6 9.2 10.9 6.8 10.0 11.2 6.6 9.1 11.1 11.2 7.3 9.1 11.0 11.0 11.0 8.9 8.9 8.9 9.9* 9.9* 9.7 14.2* 9.9* 9.9* 10.7 14.2* 10.5* 10.5* 14.0 14.1* 13.4* 13.4* 9.8 11.9* 13.4* 13.4* 10.9 11.9* NLC LC LC-V 6.2* 6.2* 6.2* 4.3 4.7 6.1 5.0 5.5 6.3* -1.5 -1.5 8.3 I C-V 6.4* 6.4* 6.3* **7.5** 11.9* 11.9* 11.6* 6.3* 6.3* 6.2* 13.4* 13.4* 13.4* 13.4* -3.0-3.0 LC LC-V 6.2* 6.2* 6.2* 6.2* **6.1** NLC -4.5 -4.5 NLC -6.0 -6.0 Stick 3.10 m Stick 3.90 m 3.0 m 3.0 m 7.5 m 9.0 m 10.5 m 4.5 m 6.0 m 7.5 m 9.0 m 10.5 m 4.5 m 6.0 m Under-Under-ا ا -s b j ď ď carriage m m carriage -50 m 4.5* 4.5* 4.5* 4.5* 4.4* 4.4* 3.7* 3.7* 3.7* 3.7* 3.7* 3.7* NLC 10.5 10.5 7.6* 7.6* 8.0* 7.6* 7.6* 8.0* 4.1* 4.1* 4.1* 4.1* 4.7* 4.7* NI C 9.0 LC-V 9.0 LC-V | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 4.7* 4.7* 5.8 6.8* 6.3 6.8* 6.9* 6.9* 5.7 7.5* 6.2 7.5* 7.5* 7.5* 5.5 8.0* 3.4* 3.4* 3.2* 3.2* 3.2* 3.2* 3.2* 3.2* 3.2* 6.8* 7.2* 8.2* 8.2* 8.6* 8.6* 8.6* 8.7 8.7 9.1* 7.5 7.5 3.2* 3.2* 3.2* 7.9* 7.9* 8.0* 7.8 8.5 9.3* 7.3 8.0 10.0 4.2 4.6 5.7 4.1 4.5 5.6 5.8* 5.8* 5.9* 7.9* 7.9* 8.0* 9.2* 9.2* 9.3* 6.0 6.0 9.5 1 C LC LC-V 3.8 4.2 4.2* NI C NI C 5.5 6.0 7.5 5.3 5.7 7.2 4.5 4.4 5.5 3.9 4.3 5.4 4.5 3.2 3.2* 3.2* 3.2* 3.1 3.3* 3.3* 3.6 3.9 4.3* NLC LC LC-V 11.1 13.9* 12.2 13.9* 14.1* 14.1* 10.4* 10.4* 10.5* 8.6* 8.6* 8.6* 6.6 6.6 7.5 6.6 6.6 7.6 6.4 6.5 7.4 4.3* 4.3* 4.0 4.3 5.5 3.8 4.2 3.2* 3.2* 3.0 3.0 43 10.0 10.5* 7.2 6.8 11.4* 5.0 7.5 11.4* 5.5 9.5 11.5* 6.9 6.5 11.5 4.8 7.1 11.6 5.3 9.1 11.9* 6.7 7.0 11.4 5.1 9.0 11.6* 6.6 6.3 10.7* 4.7 14.1* 14.1* 10.1 15.7* 11.2 15.7* 14.4 15.8* 9.6 16.2* 10.7 16.2* 13.9 16.2* 10.5 15.5* 10.5 15.5* 13.8 15.4* 3.5 3.8 4.5* 8.5 8.5 8.4 8.4 9.4* 8.2 8.3 9.4* 1.5 1.5 LC-V LC-V 6.5 7.4 6.3 6.3 7.3 6.3 6.3 7.2 5.3 3.8 4.1 5.3 4.5* 4.8* 4.8* 4.8* 4.8* 9.1* 8.2 8.3 9.4' 3.5* 3.5* 3.5* 3.6* 5.3 3.7 4.1 5.2 3.7 4.0 5.2 3.6 3.9 4.8* 5.7° 5.7° 3.1 3.4 3.6* NLC 0 0 3.3 3.6 4.0* 5.4* 5.4* 5.4* 8.1 8.1 9.1* NI C 3.8 4.2 5.4 4.4 4.8 6.1* NLC 3.9 9.4* 10.5 9.7* 13.8 -1.5 -1.5 13.6 14.5 9.0 11.3 9.7 12.4* 6.4 9.9* 10.8 12.4* 7.1 9.9* 12.2* 12.2* 9.1 9.7* 9.1* 9.1* 6.6 7.1* 9.1* 9.1* 7.1* 7.1* 8.7* 8.7* 6.8* 6.8* 14.9* 14.9* 14.9* 14.9* 14.6* 14.6* 4.8 5.3 6.7 NLC LC LC-V 14.0* 14.0* 14.0* 14.0* 14.4* 14.4* 9.5 10.6 13.7* 13.9* 13.9* 13.7* 6.3 7.0 9.0 10.7* 10.7* 10.6* 4.7 5.1 6.6 8.1 8.1 8.2 4.5* 4.5* 4.6* 6.2* 6.2* 3.7 4.1 3.7 4.1 -3.0-3.04.6* 6.1 14.4 14.1 14.1 9.7 11.2 6.4 8.7 4.8 6.4 14.1 14.1 14.1 10.8 11.2 7.1 8.7 5.3 6.4 13.6 13.6 13.6 10.9 10.9 8.5 8.5 6.1 6.1 6.1 4.4 5.2* 4.9 5.2* 5.1* 5.1* -4.5 5.3* **6.9** -4.5 8.0 LC LC-V NLC -6.0-6.0Max. reach Height Can be slewed though 360° In longitudinal position of undercarriage * 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 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 4.20 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/cm ²	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/cm ²	0.85	0.72	0.58

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

	width						NLC	-Unde	rcarr	iage					LC-	Unde	rcarri	age			LC-V-Undercarriage							
	Cutting wi	Capacity ISO 7451	Weight ²⁾	Weight ³⁾	2.50	Stick length (m) 2.50 2.80 3.10 3.90 2.50 2.80 3.10 3.90					Stick length (m) 2.50 2.80 3.10 3.90 2.50 2.80 3.10 3.90							Stick length (m)							3.90			
	mm	m^3	kg	kg	with	out qu	ick co	upler	wit	h quic	k coup	ler	with	out qu	ick co	upler	wit	h quic	k coup	oler	with	out qu	ick co	upler	wit	h quic	k coup	oler
	1,050	1.00	940	960	A	A	A	A	A	A	A	A	•	A	A		A	A	A	•	A	A	A	A	•	A	A	A
	1,250	1.25	1,070	1,090	A	A	A		A	A	A	A	A	A	•	A	A	A	•	•	A	A	A	A	A	A	A	A
	1,400	1.45	1,140	1,160	A	A		A	A				A	A	A		A	A	A	A	A	A	A	A	A	A	A	
STD1)	1,550	1.60	1,210	1,230	A		A	Δ		A		Δ	•	A		A	A				A	A	A		A	A	A	A
ST	1,650	1.75	1,300	1,320				Δ	A		Δ	_	A		A			_	_	Δ	A	A	A		A	A	A	Δ
	1,550	1.85	1,300	1,310	A		Δ	Δ		Δ	Δ	_		A	A	Δ		A		Δ	A	A	A		A	A	A	Δ
	1,650	2.00	1,390	1,410		Δ	Δ	-	Δ	Δ	Δ	-	A			Δ	A		Δ	-	A	A	A	Δ	A	A		Δ
	1,750	2.15	1,550	_	Δ	Δ	_	_	_	_	_	_		Δ	Δ	_	_	_	-	_	A	A		Δ	-	_	_	_

^{*} Indicated loads are based on ISO 10567 max. stick length, lifted 360° on firm

Other backhoes available on request

Max. material weight $\blacktriangle = \le 2.0 \text{ t/m}^3$, $\blacksquare = \le 1.8 \text{ t/m}^3$, $\blacktriangle = \le 1.65 \text{ t/m}^3$, $\blacksquare = \le 1.5 \text{ t/m}^3$, $\triangle = \le 1.2 \text{ t/m}^3$, - = not authorised

¹⁾ Standard bucket with teeth Z 50

²⁾ Bucket for direct fitting

³⁾ Bucket for fitting to quick coupler (SW66, 350 kg)

Stick 2.50 m

with Two-Piece Boom 4.20 m and Counterweight 6.3 t

Height Can be slewed though 360° In longitudinal position of undercarriage

No.	Undor	3.0	m	4.5	m	6.0	m	7.5	m	9.0) m	10.5	5 m			1	Undor	3.0	m	4.5	m	6.0	m	7.5	III	9.0	m	10.	5 m	
m	Under- carriage	5	Ġ	5	<u>L</u>	5	<u>L</u>		l L	- - 3	l L	5	<u>i</u>	5	d m	m	Under- carriage	5	<u>L</u>	-5	<u>L</u>	3	<u>L</u>	-4	<u>L</u>	5	Ŀ	5	占	<u> </u>
).5	NLC LC													8.7*	8.7* 8.7* 3. 4		NLC LC													7.2* 7.1 7.2* 7.1
	LC-V NLC			11.5*	11.5*									8.3*	8.3* 6.5*		LC-V NLC			10.4*	10.4*	8.0*	8.0*							6.9* 6.9 5.6* 5.0
.0	LC LC-V				11.6*	7.4*								6.4*	6.5* 6. 0	9.0	LC LC-V			10.4* 10.5*	10.5*	8.0* 8.5*	8.0* 8.5*							5.6* 5.6 5.5* 5.5
.5	NLC LC			12.5*	12.5* 12.5*	9.6	10.5* 10.5*	F 0+	F 0+					5.8*	5.8* 5.8* 7. 4	7.5	NLC LC			10.9*	10.9*	9.6	10.2* 10.2*	6.0 6.5	7.1* 7.1*					5.1* 5.1 5.1* 5.1
.0	NLC LC		19.9* 19.9*	13.2	13.7*	8.8	10.8*	6.0	5.8* 9.0* 9.0*					4.8	5.8* 5.5* 5.5* 8. 3	6.0	NLC LC		15.2* 15.2*	13.2			10.2* 10.6*	7.6* 6.2 6.7	7.6* 8.9* 8.9*					5.0* 5.0 4.6 4.8 4.8* 4.8
.0	LC-V NLC	20.3*		13.9*	13.9*		10.8*	8.1	9.0* 9.2*					5.5*	5.5* 5.5*	0.0	LC-V	17.4*	17.4* 20.4*	13.5*	13.5*	10.6*		8.1 6.2	8.9* 9.1*	4.2	7.0			4.8* 4.8
.5	LC LC-V	19.7*	19.7* 19.5*	13.6	15.2*	9.2		6.6	9.2* 9.2*					4.6	5.5* 8. 9 5.5*	4.5	LC LC-V	20.4*	20.4*	13.6	14.9* 15.0*	9.2	11.1* 11.2*	6.7 8.0	9.1* 9.1*	4.6 5.8	7.0 7.4*			4.4 4.8 4.8* 4.8
.0	NLC LC		15.6* 15.6*	12.4		8.4		5.9 6.5	9.2 9.2	4.1 4.5	6.9 6.9			3.9 4.3	5.6* 5.6* 9. 3	3.0	NLC LC	19.4* 19.4*	19.4*	12.4	15.8* 15.8*	8.5	11.6* 11.6*	6.0 6.5	9.1 9.1	4.2 4.6	7.0 7.0			3.7 4.9 4.1 4.9
_	LC-V NLC	13.1*		11.7	15.8*		11.7*	7.9 5.7	9.3* 9.1	5.7	7.5* 6.8			3.8	5.6* 5.9*	4.5	LC-V NLC	12.8*	19.5* 12.8*	11.8	15.8* 15.7*	7.9	11.6* 11.6*	8.0 5.7	9.2* 9.1	5.7	7.5* 6.8			4.9* 4.9 3.6 5.1
.5	LC LC-V	10.01		15.5	15.8* 15.9*		11.6*	6.2 7.7	9.2 9.2*		6.8 7.3*			5.3	5.9* 9. 3	1.5	LC LC-V	12.9*	12.8*	15.4		8.6 10.6		6.2 7.8	9.1 9.1*	4.5 5.6	6.9 7.4*			4.0 5.1 5.1 5.1
	NLC LC LC-V	16.6*	16.6* 16.6* 17.2*	12.2	16.0* 16.0*	7.5 8.2 10.3	11.7*	5.4 5.9 7.4	9.1 9.2 9.3*	3.9 4.3 5.5	6.3* 6.3* 6.1*			4.3	6.1* 6.1* 6.0*	0	NLC LC LC-V		16.8* 16.8*	12.2	15.9* 15.9* 15.9*	8.2	11.6* 11.6* 11.6*	5.5 6.0 7.5	9.2 9.2 9.2*	3.9 4.3 5.5	6.7 6.7 6.8*			3.7 5.0 4.0 5.0 5.2 5.1
.5	NLC LC	20.5	24.3* 24.3*	10.7	16.2*		11.9*	5.2	8.8* 8.8*	0.0	0.1			4.2	5.2* 5.2* 8. 0	-1.5	NLC LC	20.4	23.3* 23.3*	10.7	16.1*	7.2		5.2 5.7	8.9 8.9	5.5	0.0			3.9 5.1 4.3 5.1
	LC-V NLC	24.2*	24.2* 22.4*	15.3	16.2*	10.0	11.9*	7.2	8.7* 5.4*					5.1* 4.1*	5.1*	1.0	LC-V NLC	24.0*		15.2	16.1*	10.0	11.9* 11.3*	7.2 5.1	9.0* 6.8*					5.1* 5.1 3.9* 3.9
.0	LC LC-V	22.4*	22.4* 22.2*	11.9	15.4*	7.8 9.9	10.8*	5.4*						4.1* 4.2*	4.1* 7. 4.2*	-3.0	LC LC-V	23.0* 22.8*	23.0* 22.8*	11.8	15.6* 15.5*	7.8	11.3* 11.1*	5.6 6.4*	6.8*					3.9* 3.9 3.9* 3.9
.5	NLC LC	17.9*	17.9* 17.9*	10.8*	10.8*									6.3*	6.3* 6.3* 5. 0	-4.5	NLC LC		19.2*	12.0		6.5*	6.5* 6.5*							5.4* 5.4 5.4* 5.4
	NLC	17.2*	17.2*	10.0*	10.0*									6.8*	6.8*		NLC	18.6*	18.6*	11.8*	11.8*	5.8*	5.8*							5.7* 5.7
																-6.0	LC-V													
	ick 3.1			4.5	m	6.0	m	7.5	i m	9.0) m	10.5	5 m	P	Y	St	ick 3.			4.5	m	6.0	m	7.5	m	9.0) m	10.	5 m	
	LC-V	3.0	m	4.5		6.0	_	7.5	i m	9.0) m	10.5	_	<i></i>		St	ick 3.9	3.0	m	4.5	m	6.0		7.5	o	9.0) m	10.	!	
St	ick 3.1 Under- carriage	3.0	m	5	<u>L</u>	6.0	m <u>L</u>	7.5 -	i m	9.0) m	10.5	5 m	611	m	1	Under- carriage	3.0	m	4.5	m <u>L</u>	 ∰	Ļ	7.5 - ⊴	m <u>L</u>	9.0) m	10.l	5 m	40*
St	ick 3.1 Under- carriage	3.0	m	7.2* 7.2*	7.2* 7.2*		_						_	6.1*	6.1* 6.1* 4.	1 m	Under- carriage	3.0	m		ņ	4.9* 4.9*	4.9* 4.9*		o		_		!	4.2* 4.3 4.2* 4.4 4.1* 4.1
St 1	ick 3.1 Under- carriage	3.0	m	7.2* 7.2*	7.2*		8.2*						_	6.1* 5.9* 4.9*	6.1* 6.1* 4. 5.9* 4.9*	10.5	Under- carriage NLC LC LC-V NLC	3.0	m		ņ	- 4 5 4.9*	4.9* 4.9* 5.4* 7.1*		5.1*		_		!	4.2* 4.1 4.1* 4.1 3.6* 3.0
St 1.5	Under- carriage NLC LC LC-V NLC LC-V NLC	3.0	m	7.2* 7.2* 7.2* 7.9*	7.2* 7.2* 7.9*	8.2* 8.2* 8.4* 9.0	8.2* 8.2* 8.4* 9.6*	6.1	7.6*				_	6.1* 5.9* 4.9* 4.9* 4.9* 4.5*	6.1* 6.1* 5.9* 4.9* 4.9* 4.9* 4.5*	10.5 9.0	Under- carriage NLC LC-V NLC LC-U LC-V NLC	3.0	m		ņ	4.9* 4.9* 5.4* 7.1* 7.1* 7.5*	4.9* 4.9* 5.4* 7.1* 7.1* 7.5*	 5.1*	5.1* 5.1* 5.4* 7.0*	3.4*	3.4*		!	4.2* 4.1 4.1* 4.1 3.6* 3.6 3.6* 3.6 3.3* 3.1
.5 .0	Under- carriage NLC LC-V NLC LC-V NLC LC-V NLC LC-V	3.0	m	7.2* 7.2* 7.9* 9.6* 9.6* 9.7*	7.2* 7.2* 7.9* 9.6* 9.6* 9.7*	8.2* 8.2* 8.4* 9.0 9.6 9.7*	8.2* 8.2* 8.4* 9.6* 9.6* 9.7*	6.1 6.6 7.9*	7.6* 7.6* 7.9*				_	6.1* 5.9* 4.9* 4.9* 4.9* 4.5* 4.5* 4.5*	6.1* 6.1* 5.9* 4.9* 4.9* 4.9* 4.5* 4.5* 4.5* 4.4*	m 10.5 9.0 7.5	Under- carriage NLC LC LC-V NLC LC LC-V NLC LC LC-V	3.0	m	- 4	<u></u>	4.9* 4.9* 5.4* 7.1* 7.1* 7.5* 7.5* 7.5*	4.9* 4.9* 5.4* 7.1* 7.1* 7.5* 7.5* 7.5*	5.1* 5.1* 5.4* 6.4 6.8 7.1*	5.1* 5.1* 5.4* 7.0* 7.0* 7.1*	3.4* 3.4* 3.8*	3.4* 3.4* 3.8*		!	4.2* 4.1 4.1* 4.3 3.6* 3.6 3.6* 3.6 3.3* 3.3 3.3* 3.3 3.3* 3.3
St 10.5 0.0	Under- carriage NLC LC-V NLC	3.0	m d	7.2* 7.2* 7.2* 7.9* 9.6* 9.6* 9.7* 11.8* 11.8*	7.2* 7.2* 7.2* 7.9* 9.6* 9.6* 9.7* 11.8* 11.8*	8.2* 8.2* 8.4* 9.0 9.6 9.7* 8.8 9.4	8.2* 8.2* 8.4* 9.6* 9.7* 10.3* 10.3*	6.1 6.6 7.9* 6.2 6.7	7.6* 7.6* 7.9* 8.7* 8.7*	∰	d d		_	6.1* 5.9* 4.9* 4.9* 4.5* 4.5* 4.5* 4.4* 4.3*	6.1* 6.1* 5.9* 4.9* 4.9* 4.9* 4.5* 4.5* 4.4* 4.3* 4.3* 9.1	m 10.5 9.0 7.5	Under- carriage NLC LC LC-V NLC LC LC-V NLC LC LC-V NLC LC-V	3.0	m	7.9* 7.9*	7.9* 7.9*	4.9* 4.9* 5.4* 7.1* 7.5* 7.5* 7.5* 8.4* 8.4*	4.9* 4.9* 5.4* 7.1* 7.5* 7.5* 7.5* 8.4* 8.4*	5.1* 5.1* 5.4* 6.4 6.8 7.1* 6.5 6.9	5.1* 5.1* 5.4* 7.0* 7.0* 7.1* 8.0* 8.0*	3.4* 3.4* 3.8* 4.5 4.9	3.4* 3.4* 3.8* 6.3* 6.3*		!	4.2* 4.1 4.1* 4.1 3.6* 3.0 3.6* 3.0 3.3* 3.3 3.3* 3.3 3.2* 3.2 3.2* 3.2
.5 .0	Under- carriage NLC LC-V NLC LC-V NLC LC-V NLC LC-V NLC LC-V NLC LC-V NLC	12.1* 20.9*	12.1* 20.9*	7.2* 7.2* 7.9* 9.6* 9.6* 9.7* 11.8* 11.8* 12.2*	7.2* 7.2* 7.9* 9.6* 9.6* 9.7* 11.8* 12.2* 14.5*	8.2* 8.2* 8.4* 9.0 9.6 9.7* 8.8 9.4 10.3* 8.6	8.2* 8.2* 8.4* 9.6* 9.7* 10.3* 10.3* 10.3*	6.1 6.6 7.9* 6.2 6.7 8.1 6.2	7.6* 7.6* 7.9* 8.7* 8.7* 8.7*	4.5* 4.3	4.5* 7.1		_	6.1* 5.9* 4.9* 4.9* 4.5* 4.5* 4.4* 4.3* 4.3* 3.8	6.1* 6.1* 5.9* 4.9* 4.9* 4.9* 4.5* 4.5* 4.4* 4.3* 4.3* 4.2*	10.5 9.0 7.5 6.0	Under- carriage NLC LC LC-V NLC LC LC-V NLC	3.0	m	7.9* 7.9* 8.1* 13.0	7.9* 7.9* 8.1* 13.4*	4.9* 4.9* 5.4* 7.1* 7.1* 7.5* 7.5* 7.5* 8.4* 8.4* 8.5*	4.9* 4.9* 5.4* 7.1* 7.1* 7.5* 7.5* 7.5* 8.4* 8.4* 8.5*	5.1* 5.1* 5.4* 6.4 6.8 7.1* 6.5 6.9 8.1 6.4	5.1* 5.1* 5.4* 7.0* 7.1* 8.0* 8.0* 8.1*	3.4* 3.4* 3.8* 4.5 4.9 6.0 4.5	3.4* 3.4* 3.8* 6.3* 6.4* 7.2		!	4.2* 4.1 4.1* 4.1 3.6* 3.6 3.6* 3.6 3.3* 3.3 3.3* 3.3 3.2* 3.2 3.2* 3.2 3.2* 3.2 3.2* 3.2
St 10.5 10.0 10.5 10.0	Under- carriage NLC LC-V NLC	12.1* 20.9* 20.9* 20.9*	12.1* 20.9* 20.9*	7.2* 7.2* 7.2* 7.9* 9.6* 9.6* 9.7* 11.8* 12.2* 12.7 13.7 14.6*	7.2* 7.2* 7.9* 9.6* 9.6* 9.7* 11.8* 11.8* 12.2* 14.5* 14.6*	8.2* 8.2* 8.4* 9.0 9.6 9.7* 8.8 9.4 10.3* 8.6 9.2	8.2* 8.2* 8.4* 9.6* 9.7* 10.3* 10.3* 10.9* 11.0*	6.1 6.6 7.9* 6.2 6.7 8.1	7.6* 7.6* 7.9* 8.7* 8.7* 8.7*	4.5* 4.3 4.7	4.5*		_	6.1* 5.9* 4.9* 4.9* 4.5* 4.5* 4.3* 4.3* 4.3* 3.8 4.2 4.2*	6.1* 6.1* 4.9* 4.9* 4.9* 4.5* 4.5* 4.4* 4.3* 4.3* 9.0	10.5 9.0 7.5 6.0 4.5	Under- carriage NLC LC-V NLC LC-V NLC LC-V NLC LC-V NLC LC-V NLC LC-V	19.9* 19.9* 19.9* 20.4*	19.9* 19.9*	7.9* 7.9* 8.1* 13.0 13.4* 13.6*	7.9* 7.9* 8.1* 13.4* 13.4*	4.9* 4.9* 5.4* 7.1* 7.1* 7.5* 7.5* 8.4* 8.5* 8.7 9.3 10.4*	4.9* 4.9* 5.4* 7.1* 7.5* 7.5* 7.5* 8.4* 8.5*	5.1* 5.1* 5.4* 6.4 6.8 7.1* 6.5 6.9 8.1	5.1* 5.1* 5.4* 7.0* 7.1* 8.0* 8.0* 8.1*	3.4* 3.4* 3.8* 4.5 4.9 6.0	3.4* 3.4* 3.8* 6.3* 6.3* 6.4*		!	4.2* 4.1 4.1* 4.1 3.6* 3.6 3.6* 3.6 3.3* 3.3 3.3* 3.3 3.2* 3.2 3.2* 3.2 3.2* 3.3
.5 .0 .5	Under- carriage NLC LC-V	12.1* 20.9* 20.9* 19.5* 19.5*	12.1* 20.9* 20.9* 19.5* 19.5* 19.5*	7.2* 7.9* 9.6* 9.7* 11.8* 12.2* 12.7 13.7 14.6* 12.4 13.2 15.4	7.2* 7.2* 7.2* 7.9* 9.6* 9.6* 9.7* 11.8* 12.2* 14.5* 14.5* 14.5* 15.7* 15.7*	8.2* 8.2* 8.4* 9.0 9.6 9.7* 8.8 9.4 10.3* 8.6 9.2 10.8 8.5 9.0	8.2* 8.2* 8.4* 9.6* 9.7* 10.3* 10.3* 10.9* 11.0* 11.5* 11.5*	6.1 6.6 7.9* 6.2 6.7 8.1 6.2 6.7 8.0 6.0 6.6 7.9	7.6* 7.6* 7.9* 8.7* 8.7* 8.9* 9.1 9.1* 9.1*	4.5* 4.3 4.7 5.9 4.2 4.6 5.8	4.5* 7.1 7.5* 7.0 7.0 7.5*		_	6.1* 5.9* 4.9* 4.9* 4.5* 4.5* 4.4* 4.3* 4.3* 4.3* 3.8 4.2 4.2* 3.5 3.9 4.3*	6.1* 6.1* 4.9* 4.9* 4.9* 4.5* 8.4.3* 9.1 4.2* 4.2* 4.2* 4.2* 4.3* 4.3* 9.1	10.5 9.0 7.5 6.0 6.0	Under- carriage NLC LC LC-V NLC	19.9* 19.9* 19.9* 20.3* 20.3* 20.1*	19.9° 19.9* 20.4* 20.3* 20.3*	7.9* 7.9* 13.4* 13.6* 12.5 13.4 15.2*	7.9* 7.9* 8.1* 13.4* 13.6* 15.1* 15.1* 15.2*	4.9* 4.9* 5.4* 7.1* 7.1* 7.5* 7.5* 8.4* 8.5* 8.7 9.3 10.4* 9.0 10.6	4.9* 4.9* 5.4* 7.1* 7.5* 7.5* 8.4* 8.4* 10.4* 11.1* 11.1*	5.1* 5.1* 5.4* 6.4 6.5 6.9 8.1 6.4 6.8 8.0 6.2 6.7 7.9	5.1* 5.1* 5.4* 7.0* 7.1* 8.0* 8.6* 8.6* 8.9* 8.9* 8.9*	3.4* 3.4* 3.8* 4.5 4.9 6.0 4.5 4.9 6.1 4.5 4.9 6.1 6.1	3.4* 3.4* 3.8* 6.3* 6.3* 7.2 7.3* 7.1 7.1	3.2 3.5 3.7*	3.6* 3.6* 3.7*	4.2* 4.1* 4.3.6* 3.6* 3.6* 3.6* 3.3* 3.3* 3.2* 3.2* 3.2* 3.2* 3.2* 3.2
.5 .0 .5	Under- carriage NLC LC-V NLC	12.1* 20.9* 20.9* 19.5* 19.5* 15.5*	12.1* 20.9* 20.9* 20.9* 19.5* 19.5* 15.5*	7.2* 7.2* 7.2* 7.9* 9.6* 9.6* 11.8* 11.8* 12.2* 12.7 13.7 14.6* 12.4 11.9 13.1	7.2* 7.2* 7.2* 7.9* 9.6* 9.6* 9.7* 11.8* 11.8* 12.2* 14.5* 14.6* 15.7* 15.7* 15.6* 15.6*	8.2* 8.2* 8.4* 9.0 9.6 9.7* 8.8 9.4 10.3* 8.6 9.2 10.8 8.5 10.6 8.0 8.7	8.2* 8.4* 9.6* 9.7* 10.3* 10.9* 11.0* 11.5* 11.5* 11.5* 11.5*	6.1 6.6 7.9* 6.2 6.7 8.1 6.2 6.7 8.0 6.6 6.6 7.9 5.7 6.3	7.6* 7.6* 7.9* 8.7* 8.7* 8.9* 8.9* 9.1 9.1* 9.0	4.5* 4.3 4.7 5.9 4.2 4.6 5.8 4.1 4.5	4.5* 7.1 7.5* 7.0 7.0 7.5* 6.9 6.9		_	6.1* 5.9* 4.9* 4.9* 4.5* 4.5* 4.3* 4.3* 4.3* 3.8 4.2 4.2* 3.5 3.9 4.3* 3.4 3.8	6.1* 6.1* 4.9* 4.9* 4.9* 4.5* 8. 4.4* 4.3* 4.2* 9.1 4.2* 4.3* 4.3* 9.1 4.5*	10.5 9.0 7.5 6.0 4.5 3.0	Under- carriage NLC LC-V NLC	19.9* 19.9* 20.4* 20.3* 20.3* 20.1*	19.9° 19.9° 19.9° 20.4° 20.3° 20.2° 20.2° 20.2°	7.9* 7.9* 8.1* 13.0 13.4* 15.2* 12.2 13.1	7.9* 7.9* 8.1* 13.4* 13.6* 15.1* 15.2* 15.6* 15.6*	4.9* 4.9* 5.4* 7.1* 7.5* 7.5* 8.4* 8.5* 8.7 9.3 10.4* 8.5 9.0 10.6 8.2 8.9	4.9* 4.9* 5.4* 7.1* 7.5* 7.5* 7.5* 10.4* 10.4* 11.1* 11.1.5*	5.1* 5.1* 5.4* 6.4 6.8 7.1* 6.5 9.8 1.1 6.4 6.8 8.0 6.2 6.7 7.9 6.4	5.1** 5.4* 7.0* 7.1* 8.0* 8.6* 8.6* 8.6* 8.9* 8.9 9.0	3.4* 3.4* 3.8* 4.5 4.9 6.1 4.5 4.8 6.0 4.5 4.8	3.4* 3.4* 3.8* 6.3* 6.3* 7.2 7.2 7.3* 7.1 7.1 7.1 7.1	3.2 3.5 3.7* 3.1 3.4	3.6* 3.6* 3.7* 4.1*	4.2* 4.1* 4. 3.6* 3.6* 3.6* 3.3* 3.3* 3.3* 3.2* 3.2* 3.2* 3.2* 3.2
3t 0.5 0.0 0.5 0.0 0.5 0.0	Under- carriage NLC LC-V NLC	3.00 12.1* 20.9* 20.9* 19.5* 15.5* 15.5* 15.3* 17.0*	12.1* 20.9* 20.9* 19.5* 19.5* 15.5* 15.5* 17.0*	7.2* 7.2* 7.2* 7.9* 9.6* 9.6* 11.8* 12.2* 12.7 14.6* 12.4 13.2 15.4 11.9 15.3 11.1	7.2* 7.2* 7.9* 9.6* 9.6* 9.7* 11.8* 12.2* 14.5* 14.5* 15.7* 15.7* 15.6* 15.6* 15.6*	8.2* 8.2* 8.4* 9.0 9.6 8.8 9.4 10.3* 8.6 9.0 10.6 8.7 10.5 7.5	8.2* 8.2* 8.4* 9.6* 9.7* 10.3* 10.9* 11.5* 11.5* 11.5* 11.5* 11.5*	6.1 6.6 7.9* 6.2 6.7 8.0 6.0 6.6 7.9 5.7 6.3 7.8 5.5	7.6* 7.6* 7.9* 8.7* 8.9* 8.9* 9.1 9.1* 9.0 9.0 9.1* 9.1*	4.5* 4.3 4.7 5.9 4.2 4.6 5.8 4.1 4.5 5.7 3.9	4.5* 7.1 7.5* 7.0 7.0 7.5* 6.9 6.9 6.7		_	6.1* 5.9* 4.9* 4.9* 4.5* 4.5* 4.4* 4.3* 4.3* 3.8 4.2* 3.5 3.9 4.3* 3.4 3.6* 3.5	6.1* 6.1* 4.9* 4.9* 4.9* 4.5* 8.44* 4.3* 9.1	m 10.5 9.0 7.5 6.0 4.5 3.0 1.5	Under- carriage NLC LC-V NLC	19.9* 19.9* 20.4* 20.3* 20.2* 20.2* 20.2*	19.9° 19.9° 19.9° 20.4° 20.3° 20.2° 20.2° 20.2° 18.2°	7.9* 7.9* 8.1* 13.0 13.4* 12.5 13.4 15.2* 12.2 12.1 15.3 11.4	7.9* 7.9* 8.1* 13.4* 15.1* 15.5* 15.6* 15.6*	4.9* 4.9* 4.9* 7.1* 7.1* 7.5* 7.5* 8.4* 8.5* 9.0 10.6 8.2 9.0 10.6 8.2 10.4 7.6	4.9* 4.9* 4.9* 7.1* 7.1* 7.5* 7.5* 8.4* 8.5* 10.4* 11.1* 11.1.2* 11.5* 11.5*	5.1* 5.4* 6.4 6.8 8.0 6.2 6.7 7.9 6.4 5.6	5.1* 5.1* 5.4* 7.0* 7.1* 8.0* 8.6* 8.6* 8.9* 8.9 9.0 9.0 8.9	3.4* 3.4* 4.5 4.9 6.0 4.5 4.9 6.1 4.5 4.8 6.0 4.3 4.7 5.8 4.1	3.4* 3.4* 3.8* 6.3* 6.3* 7.2 7.2 7.1 7.1 7.1 7.4* 7.0 7.1 7.4*	3.2 3.5 3.7* 3.1 3.4	3.6* 3.6* 3.7* 4.1*	4.2* 4.1 4.1* 4. 3.6* 3.1 3.6* 3.3 3.3* 3.3 3.3* 3.3 3.2* 3. 3.2* 3. 3.3* 3. 3
St 0.5 0.0 7.5 6.0 4.5	Under- carriage NLC LC-V	12.1* 20.9* 20.9* 19.5* 19.5* 15.5* 15.5* 17.0* 17.0*	12.1* 20.9* 20.9* 19.5* 19.5* 15.5* 15.5* 17.0* 17.0*	7.2* 7.9* 9.6* 9.6* 9.7* 11.8* 12.2* 12.7 13.7 14.6* 15.3 11.1 15.3 15.4 15.4 15.5 15.4	7.2* 7.2* 7.9* 9.6* 9.7* 11.8* 11.8* 12.2* 14.5* 14.5* 15.7* 15.7* 15.6* 15.6* 15.6* 15.7* 15.7*	8.2* 8.4* 9.0 9.6 9.7* 8.8 9.4 10.3* 8.5 9.0 10.6 8.0 8.7 10.5 7.5 2.1 10.3	8.2* 8.2* 8.4* 9.6* 9.6* 10.3* 10.3* 11.5*	6.1 6.6 6.7.9* 6.2 6.7 8.0 6.0 6.0 6.6 7.9 5.7 6.3 7.8 5.5 6.0 7.5	7.6* 7.9* 8.7* 8.9* 8.9* 9.1 9.1* 9.0 9.0 9.1* 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	4.5* 4.3 4.7 5.9 4.2 4.6 8.8 4.1 4.5 5.7 3.9 4.3 5.5	4.5* 7.1 7.1 7.5* 7.0 7.5* 6.9 7.5* 6.7 7.1*		_	6.1* 5.9* 4.9* 4.9* 4.5* 4.5* 4.4* 4.3* 4.3* 3.8 4.2 4.2* 3.5 3.8 4.6* 3.5 3.8 4.9	6.1* 6.1* 4.9* 4.9* 4.9* 4.5* 8. 4.4* 4.3* 9.1 4.3* 4.2* 4.2* 4.3* 4.3* 9.1 4.5* 4.5* 4.5* 4.5* 4.5* 9.1 4.5* 6.5* 9.1 4.5* 9.1 4.5*	m 10.5 9.0 7.5 6.0 4.5 3.0 1.5	Under- carriage NLC LC-V	19.9° 19.94 20.4* 20.3° 20.12° 20.2° 20.2° 20.3* 18.2° 18.2°	19.9° 19.9° 20.4° 20.3° 20.2° 20.2° 20.2° 21.8° 18.2° 18.2°	7.9* 7.9* 8.1* 13.0* 13.4* 15.2* 12.2 13.1 15.3 11.4 12.6 15.3	7.9* 7.9* 8.1* 13.4* 13.4* 15.1* 15.6* 15.6* 15.6* 15.6* 15.6*	4.9* 4.9* 5.4* 7.1* 7.1* 7.5* 7.5* 8.4* 8.5* 9.3 10.4* 8.5 9.0 6.8.2 8.9 10.4 7.6 8.4 10.4	4.9* 4.9* 5.4* 7.1* 7.1* 7.5* 7.5* 8.4* 10.4* 11.1* 11.15* 11.5* 11.5* 11.4* 11.4*	5.1* 5.4* 6.4 6.8 7.1* 6.5 6.9 8.1 6.4 6.8 8.0 6.2 6.7.9 5.9 6.4 7.8 5.6 6.1 7.6	5.1* 5.4* 7.0* 7.1* 8.0* 8.6* 8.6* 8.9* 8.9 9.0 9.0* 8.9 9.0* 9.0*	3.4* 3.4* 3.8* 4.5 4.9 6.0 4.5 4.9 6.1 4.5 4.8 4.7 5.8 4.1 5.6	3.4* 3.4* 3.8* 6.3* 6.3* 7.1 7.1 7.1 7.4* 6.8 9.7.4*	3.2 3.5 3.7* 3.1 3.4	3.6* 3.6* 3.7* 4.1*	4.1* 4.4 4.1* 4.36* 3.6* 3.6* 3.3* 3.3* 3.3* 3.3* 3.2* 3.2* 3.1 3.2* 3.1 3.2* 3.1 3.2* 3.1 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3
5t .5 .0 .5 .0 .5	I LC-V ICK 3.1 Under- carriage NLC LC-V NLC	12.1* 20.9* 20.9* 20.9* 15.5* 15.5* 17.0* 17.0* 22.2*	12.1* 20.9* 20.9* 20.9* 15.5* 15.5* 17.0* 17.0* 17.0*	9.6* 9.6* 9.7* 11.8* 12.2* 15.4 11.9 15.3 11.1 12.3 15.4 10.7 11.8	9.6* 9.6* 9.6* 11.8* 11.8* 12.2* 14.5* 14.5* 15.7* 15.6* 15.7* 15.6* 15.7* 15.6* 15.7* 15.6* 15.7* 16.0*	8.2* 8.2* 8.4* 9.0 9.6 9.7* 8.6 9.2 10.8 8.5 9.0 10.6 8.7 10.5 7.5 8.2 10.3 7.7 7.7	8.2* 8.2* 8.4* 9.6* 9.6* 9.7* 10.3* 10.9* 11.5* 11.5* 11.5* 11.5* 11.5* 11.5*	6.1 6.6 7.9* 6.2 6.7 8.1 6.2 6.7 8.0 6.0 6.6 7.9 5.7 6.3 7.8 5.5 6.0 7.5 5.5 5.5 5.5 5.5	7.6* 7.6* 7.9* 8.7* 8.9* 8.9* 8.9* 9.1 9.1* 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	4.5* 4.3 4.7 5.9 4.2 4.6 5.8 4.1 4.5 5.7 3.9 4.3 5.5 3.8 4.2	4.5* 7.1 7.1 7.5* 6.9 6.7 6.7 7.1* 5.8* 5.8*	~d)	_	6.1* 5.9* 4.9* 4.9* 4.5* 4.5* 4.4* 4.3* 3.8 4.2* 3.5 3.9 4.3* 3.4 3.6* 3.5 3.8 4.9 3.7 4.1	6.1* 4.5* 4.9* 4.9* 6.445* 4.5* 8.443* 4.3* 9.443* 4.3* 9.443* 4.3* 9.445* 4.5* 9.50* 5.0* 9.50* 9.50* 9.50* 9.50* 9.50*	m 10.5 9.0 7.5 6.0 4.5 3.0 1.5 0	Under- carriage NLC LC-V NLC	19.9* 19.9* 19.9* 20.4* 20.3* 20.2* 20.2* 20.2* 18.2* 18.2* 18.2* 20.3* 20.3*	19.9* 19.9* 19.9* 20.4* 20.3* 20.2* 20.2* 18.2* 18.2* 18.3* 20.3* 20.3*	7.9* 7.9* 8.1* 13.0 13.4* 15.2* 12.2 12.2 15.3 11.4 12.6 11.8 12.0	7.9* 7.9* 8.1* 13.4* 15.1* 15.6* 15.6* 15.6* 15.6* 15.6* 15.6* 15.7*	4.9* 4.9* 5.4* 7.1* 7.5* 7.5* 8.4* 8.5* 8.7 9.0 10.6 8.2 10.4 7.6 8.4 10.4 7.6 8.4 10.4 7.2	4.9* 4.9* 5.4* 7.1* 7.5* 7.5* 7.5* 8.4* 8.5* 10.4* 11.1* 11.1.2* 11.5* 11.5* 11.5*	5.1* 5.4* 6.8 7.1* 6.5 6.4 6.8 8.0 6.2 6.7 7.9 5.6 6.1 7.6 5.3 5.8	5.1* 5.1* 7.0* 7.0* 7.1* 8.0* 8.6* 8.6* 8.9* 8.9 9.0 9.0 9.0 9.0 9.1 9.1	3.4* 3.4* 3.8* 4.5 4.9 6.0 4.5 4.8 6.0 4.5 4.8 6.0 3.9 4.7 5.6 6.0 4.3 3.9 4.7	3.4* 3.4* 3.8* 6.3* 7.2 7.2 7.3* 7.1 7.1 7.4* 6.8 6.9 7.4* 6.7 6.7	3.2 3.5 3.7* 3.1 3.4	3.6* 3.6* 3.7* 4.1*	4.1* 4.4 4.1* 4.1 3.6* 3.1 3.6* 3.1 3.3* 3.3 3.3* 3.3 3.2* 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3
5t 0.5 0.0 0.5 0.0 0.5 0.5 0.5	ILC-V ICK 3.1 Under- carriage NLC LC-V NLC	12.1* 20.9* 20.9* 20.9* 19.5* 15.5* 15.3* 17.0* 17.4* 20.3 22.2* 20.3	12.1* 20.9* 20.9* 20.9* 19.5* 15.5* 15.5* 17.0* 17.4* 22.2* 22.2* 22.7*	7.2* 7.9* 9.6* 9.6* 9.7* 11.8* 12.2* 12.7 14.6* 15.3 11.1 15.3 15.4 10.7 11.8 15.2 10.6	9.6° 9.6° 9.7' 11.8° 11.8° 11.8° 11.8° 11.5.7° 15.7° 15.6° 15.7° 15.6° 15.7° 16.0° 16.0° 16.0° 16.0°	8.2* 8.4* 9.0 9.6 8.8 9.4 10.3* 8.6 9.2 10.8 8.7 10.5 7.5 8.2 7.9 10.0 7.1	8.2* 8.4* 9.6* 9.7* 10.3* 10.3* 11.5	6.1 6.6 7.9* 6.2 6.7 8.1 6.2 6.7 8.0 6.0 6.6 7.9 7.5 7.8 5.5 5.2 5.7 7.2 5.2	7.6* 7.6* 7.9* 8.7* 8.7* 8.9* 9.1 9.1* 9.1 9.1 9.1 9.1 7.7*	4.5* 4.3 4.7 5.9 4.2 4.6 5.8 4.1 4.5 5.7 3.9 4.3 5.5 3.8 4.2	4.5* 7.1 7.1 7.5* 6.9 6.7 6.7 7.1* 5.8* 5.8*	~d)	_	6.1* 5.9* 4.9* 4.9* 4.5* 4.45* 4.44* 4.3* 4.3* 3.8 4.2 4.2* 3.5 3.9 4.3* 3.8 4.9 3.7 4.1 4.0* 4.0*	6.11 4.49 4.91 6.16 4.41 4.31 4.21 4.21 4.31 4.31 4.31 4.31 4.31 4.31 4.31 4.3	m 10.5 9.0 7.5 6.0 4.5 3.0 1.5 0 -1.5	Under- carriage NLC LC-V NLC	19.9° 19.9° 19.9° 20.4° 20.3° 20.2° 20.2° 20.2° 20.2° 20.2° 20.3° 20.3° 20.3° 20.3°	19.9° 19.9° 20.4° 20.3° 20.2° 20.2° 20.3° 18.2° 18.2° 18.2° 18.2° 4.4°	7.9* 7.9* 8.1* 13.0* 13.4* 12.5 13.4 15.2* 13.1 15.3 11.4 15.3 11.4 15.3 11.5 10.8 12.0 15.3 10.5	7.9* 7.9* 7.9* 13.4* 13.4* 15.1* 15.6* 15.6* 15.6* 15.6* 15.6* 15.7* 15.7* 15.7*	4.9* 4.9* 5.4* 7.1* 7.5* 7.5* 8.4* 8.5* 8.7 9.3 10.4* 7.6 8.2 8.9 10.4 7.6 8.9 10.4 7.6 8.9 10.4 7.7 8.0 7.0	4.9* 4.9* 5.4* 7.1* 7.5* 7.5* 7.5* 7.5* 10.4* 11.1* 11.1.5* 11.5* 11.5* 11.5* 11.5* 11.5* 11.5* 11.5* 11.5* 11.5* 11.5*	5.1* 5.4* 6.4 6.8 7.1* 6.5 6.9 8.1 6.4 7.8 5.6 6.1 7.6 5.3 5.8 5.8 5.6 5.3 5.8 5.8 5.1 7.6 5.3 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8	5.1* 5.4* 7.0* 7.0* 7.1* 8.6* 8.6* 8.9* 8.9* 9.0 9.0* 9.1 9.1 9.1* 8.8	3.4* 3.8* 4.5 4.9 6.0 4.5 4.8 6.0 4.3 4.7 5.8 4.1 4.5.6 3.9 4.3 4.3 8.8	3.4* 3.4* 3.8* 6.3* 6.3* 7.2 7.1 7.1 7.4* 6.8 9.7.4* 6.7 6.7 6.7 6.7 6.7 6.7 6.7	3.2 3.5 3.7* 3.1 3.4	3.6* 3.6* 3.7* 4.1*	4.1* 4.4 4.1* 4.3 3.6* 3.1 3.6* 3.1 3.6* 3.1 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.2* 3.3 3.3 3.3 3.4* 3.3 3.2* 3.3 3.4* 3.3 3.5* 3.3
5t 0.5 0.0 7.5 0.0 1.5 3.0	ILC-V ICK 3.1 Under- carriage NLC LC-V	12.1* 20.9* 20.9* 20.9* 15.5* 15.5* 17.0* 17.4* 20.3 22.2* 22.3* 23.3*	12.1* 20.9* 20.9* 19.5* 19.5* 15.5* 15.5* 17.0* 17.4* 22.2* 22.7* 23.5* 23.3*	9.6* 9.6* 9.7* 11.8* 12.2* 12.7 13.7 15.4 10.7 10.6 11.8 15.2 10.6 10.5 10.6 10.5 10.6 10.7 15.1	9.6° 9.6° 9.7° 11.8° 11.8° 11.8° 15.7° 15.6° 15.6° 15.7° 15.7° 16.0° 16.0° 16.0° 15.7° 15.6° 15.	8.2* 8.2* 8.4* 9.0 9.7* 8.8 6 9.2 9.0 10.8 8.5 9.0 10.6 8.7 10.5 8.2 10.3 7.2 10.3 7.9 10.0 7.1 7.8 9.9	8.2* 8.4* 9.6* 9.6* 10.3* 10.3* 11.5* 11.5* 11.5* 11.5* 11.5* 11.5* 11.5* 11.5*	6.1 6.6 6.2 6.7 8.1 6.2 6.7 8.0 6.0 6.6 6.7 9 5.7 6.2 6.7 8.0 5.5 6.0 7.9 5.5 6.0 7.5 5.5 6.0 5.5 6.0 5.5 6.0 5.5 6.0 5.5 6.0 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	7.6° 7.6° 7.6° 7.9° 8.7° 8.7° 8.9° 8.9° 9.1° 9.0° 9.1° 9.1° 9.0° 9.1° 9.1° 9.1° 7.7° 7.7° 7.7°	4.5* 4.3 4.7 5.9 4.2 4.6 5.8 4.1 4.5 5.7 3.9 4.3 5.5 3.8 4.2	4.5* 7.1 7.1 7.5* 6.9 6.7 6.7 7.1* 5.8* 5.8*	~d)	_	6.1* 5.9* 4.9* 4.9* 4.5* 4.5* 4.4* 4.3* 4.3* 4.3* 3.8 4.2 4.2* 3.5 3.8 4.9 3.7 4.1 5.0* 4.0* 3.9*	6.11 4.91 4.91 6.11 4.91 4.91 4.91 4.91 4.91 4.91 4.91 4	m 10.5 9.0 7.5 6.0 4.5 3.0 1.5 0 -1.5	Under- carriage NLC LC-V	19.9° 19.9° 19.9° 20.4° 20.3° 20.3° 18.2° 18.2° 18.2° 20.3° 20.3° 20.3° 20.3° 20.3° 20.3° 20.3°	19.9° 19.9° 19.9° 20.4° 20.3° 20.2° 20.3° 18.2° 18.3° 20.3° 20.3° 20.4° 24.4° 24.4° 24.4°	7.9* 7.9* 8.1* 13.0 13.4* 12.5 12.5 11.4 12.6 15.3 10.5 11.7 15.1	7.9* 7.9* 8.1* 13.4* 15.1* 15.6* 15.6* 15.6* 15.6* 15.7* 15.7* 15.7*	4.9° 4.9° 5.4° 7.1° 7.1° 7.5° 7.5° 8.4° 8.4° 8.4° 8.5° 8.7 9.3 10.4° 8.2 8.9 10.4 10.4 7.2 8.9 10.4 7.2 9.8 9.9 10.4 9.8 9.9 10.4 9.8 9.9 10.4 9.8 9.9 10.4 9.8 9.9 9.8 9.9 9.9 9.8 9.9 9.9 9.8 9.9 9.9	4.9° 4.9° 5.4° 7.1° 7.1° 7.5° 7.5° 8.4° 8.4° 8.4° 8.4° 10.4° 11.1° 11.5° 11.5° 11.5° 11.5° 11.5° 11.5° 11.7°	5.1* 5.4* 6.4 6.5 6.9 6.4 7.7.9 6.4 7.8 6.4 7.1 7.6 5.3 5.1 7.6 5.3 5.1 7.6 5.3 7.3 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1	5.1* 5.4* 7.0* 7.0* 8.0* 8.6* 8.6* 8.9* 8.9 9.0 9.1 9.1* 8.8 8.8 8.8*	3.4* 3.4* 4.5 4.9 6.0 4.3 4.7 4.5 5.8 4.1 4.5 5.8 4.1 4.5 3.9 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3	3.4* 3.4* 3.8* 6.3* 6.3* 7.2 7.3* 7.1 7.1 7.4* 6.9 7.4* 6.7 7.0	3.2 3.5 3.7* 3.1 3.4	3.6* 3.6* 3.7* 4.1*	4.1* 4.1 3.6* 3.1 3.6* 3.1 3.6* 3.1 3.6* 3.1 3.2* 3.3 3.4* 3.3 3.4* 3.4 3.6* 4.4 3.6* 4.4 3.6* 4.4 4.0* 4.4 4.0* 4.4 4.0* 4.4 4.0* 4.4
10.5 0.0 7.5 6.0 1.5	ILC-V ICK 3.1 Under- carriage NLC LC-V NLC LC-	12.1* 20.9* 20.9* 20.9* 19.5* 15.5* 15.5* 15.3* 22.2* 22.7* 23.3* 23.3* 20.2*	12.1* 20.9* 20.9* 20.9* 19.5* 19.5* 15.5* 15.3* 17.0* 17.0* 17.0* 22.2* 22.2* 23.5* 23.5* 23.5* 23.2* 20.2*	7.2* 7.2* 7.9* 9.6* 9.6* 9.7* 11.8* 12.2* 12.7 14.6* 11.5.3 11.1 12.3 12.3	9.6* 9.6* 9.6* 9.7* 11.8* 12.2* 14.5* 15.7* 15.6* 15.7* 15.7* 15.7* 15.7* 15.7* 15.7* 15.7* 15.7* 15.7* 15.7* 15.7*	8.2* 8.4* 9.96 9.7* 8.8 8.5 9.2 10.8 8.5 7.5 7.5 8.2 7.9 10.0 7.7	8.2* 8.4* 9.6* 9.7* 10.3* 10.9* 11.5	6.1 6.6 6.2 6.7 8.1 6.2 6.7 8.0 6.0 6.6 6.7 9 5.7 6.2 6.7 8.0 5.5 6.0 7.9 5.5 6.0 7.5 5.5 6.0 5.5 6.0 5.5 6.0 5.5 6.0 5.5 6.0 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	7.6° 7.6° 7.6° 7.9° 8.7° 8.7° 8.9° 8.9° 9.1° 9.0° 9.1° 9.1° 9.0° 9.1° 9.1° 9.1° 7.7° 7.7° 7.7°	4.5* 4.3 4.7 5.9 4.2 4.6 5.8 4.1 4.5 5.7 3.9 4.3 5.5 3.8 4.2	4.5* 7.1 7.1 7.5* 6.9 6.7 6.7 7.1* 5.8* 5.8*	~d)	_	6.1* 5.9* 4.9* 4.9* 4.5* 4.5* 4.4* 4.3* 3.8 4.2 4.2* 3.5 3.9 4.3* 3.6 4.0* 4.0* 4.0* 4.0* 4.0* 4.0* 4.0* 4.0*	6.11 4.4 4.9 6.1 5.9 6.1 4.4 4.9 6.1 4.5 8.4 4.4 4.3 9.1 4.3 9.1 4.5 9.1 4.5 9.1 4.3 9	10.5 9.0 7.5 6.0 4.5 3.0 1.5 0 -1.5 -3.0	Under- carriage NLC LC-V NLC L	19.9* 19.9* 20.4* 20.3* 20.1* 20.2* 20.3* 20.2* 20.3* 20.5* 20.3* 20.6* 20.2* 20.3*	19.9° 19.9° 19.9° 20.4° 20.3° 20.2° 20.2° 20.3° 20.3° 20.3° 20.4° 24.4° 24.4° 24.4° 24.4°	7.9* 7.9* 13.0 13.4* 15.2* 12.5 13.4 15.3 11.4 15.3 10.8 12.0 15.3 10.5 11.7 15.1 10.6 11.7	7.9* 7.9* 8.1* 13.4* 13.6* 15.6* 15.6* 15.6* 15.6* 15.6* 15.6* 15.5* 15.7* 15.7* 15.7* 15.7* 15.9* 15.9* 15.9* 15.9* 15.9* 15.9* 15.9* 15.9* 15.0*	4.9° 4.9° 4.9° 5.4° 7.1° 7.1° 7.5° 7.5° 8.4° 8.5° 8.7 9.3 10.4° 8.5 8.2 8.9 10.4 7.6 8.4 10.4 7.6 8.7 7.7 7.7	4.9° 4.9° 5.4° 7.1° 7.1° 7.5° 7.5° 7.5° 8.4° 8.5° 10.4° 11.1° 11.5° 11.5° 11.5° 11.5° 11.7° 11.7° 11.7° 10.7°	5.1* 5.4* 6.8 7.1* 6.5 6.6 6.2 6.7 7.9 6.4 7.8 5.6 6.1 7.6 5.3 5.8 7.3 5.6 7.1 5.0 5.5 5.5 6.7 7.1	5.1* 5.4* 7.0* 7.1* 8.0* 8.6* 8.6* 8.9* 8.9 9.0 9.1 9.1 9.1 9.1 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8	3.4* 3.4* 4.5 4.9 6.0 4.3 4.7 4.5 5.8 4.1 4.5 5.8 4.1 4.5 3.9 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3	3.4* 3.4* 3.8* 6.3* 6.3* 7.1 7.4* 7.0 7.1 7.4* 6.8 6.9 7.4 6.7 6.7 6.7 6.7 6.7 6.7	3.2 3.5 3.7* 3.1 3.4	3.6* 3.6* 3.7* 4.1*	4.1* 4.1 3.6* 3.1 3.6* 3.1 3.6* 3.1 3.6* 3.1 3.6* 3.1 3.2* 3.1 3.2* 3.2 3.2* 3.3 3.3 3.2* 3.3 3.3 3.4* 3.4* 3.4 3.6* 4.4 4.4* 4.0 4.0* 4.0
3t 0.5 0.0 0.5 0.0 0.5 0.5 0.0 0.5 0.0	ILC-V ICK 3.1 Under- carriage NLC LC-V NLC LC-	12.1* 20.9* 20.9* 20.9* 19.5* 15.5* 15.5* 15.3* 22.2* 22.7* 23.3* 23.3* 20.2*	12.1* 20.9* 20.9* 20.9* 19.5* 19.5* 15.5* 15.3* 17.0* 17.0* 17.0* 22.2* 22.2* 23.5* 23.5* 23.5* 23.2* 20.2*	7.2* 7.2* 7.9* 9.6* 9.6* 9.7* 11.8* 12.2* 12.7 14.6* 11.5.3 11.1 12.3 12.3	7.2* 7.2* 7.2* 7.9* 9.6* 9.6* 9.6* 9.7* 11.8* 11.8* 12.2* 14.5* 14.5* 15.7* 15.7* 15.7* 15.7* 15.7* 15.7* 15.7* 15.7* 15.7* 15.7* 15.7* 15.7* 15.7*	8.2* 8.4* 9.96 9.7* 8.8 8.5 9.2 10.8 8.5 7.5 7.5 8.2 7.9 10.0 7.7	8.2* 8.4* 9.6* 9.7* 10.3* 10.9* 11.5	6.1 6.6 6.2 6.7 8.1 6.2 6.7 8.0 6.0 6.6 6.7 9 5.7 6.2 6.7 8.0 5.5 6.0 7.9 5.5 6.0 7.5 5.5 6.0 5.5 6.0 5.5 6.0 5.5 6.0 5.5 6.0 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	7.6° 7.6° 7.6° 7.9° 8.7° 8.7° 8.9° 8.9° 9.1° 9.0° 9.1° 9.1° 9.0° 9.1° 9.1° 9.1° 7.7° 7.7° 7.7°	4.5* 4.3 4.7 5.9 4.2 4.6 5.8 4.1 4.5 5.7 3.9 4.3 5.5 3.8 4.2	4.5* 7.1 7.1 7.5* 6.9 6.7 6.7 7.1* 5.8* 5.8*	~d)	_	6.1* 5.9* 4.9* 4.9* 4.5* 4.45* 4.44* 4.3* 3.8 4.2 4.2* 3.5 3.9 3.4 3.8 4.0 4.3* 3.4 4.3* 4.4 4.3* 4.4 4.3* 4.4 4.4 4.3* 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.	6.11 4.4 4.9 6.1 5.9 6.1 4.4 4.9 6.1 4.5 8.4 4.4 4.3 9.1 4.3 9.1 4.5 9.1 4.5 9.1 4.3 9	m 10.5 9.0 7.5 6.0 4.5 3.0 1.5 0 -1.5 -3.0	Under- carriage NLC LC-V NLC L	19.9° 19.9° 20.4° 20.3° 20.2° 20.2° 20.2° 20.3° 20.4° 20.2° 23.0° 20.6° 20.2° 23.0° 20.4° 22.5° 22.2° 22.2° 22.2° 22.2° 22.2° 23.0° 20.4° 22.5° 20.2° 22.2° 20.4° 22.5° 20.4° 22.5° 20.4° 22.5° 20.4° 22.5° 20.4° 22.5° 20.4° 22.5° 20.4° 22.5° 20.4° 22.5° 20.4° 22.5° 20.4° 22.5° 20.4° 22.5° 20.4° 22.5° 20.4° 22.5° 20.4° 22.2° 20.4° 22.2° 20.4° 22.2° 20.4° 22.2° 20.4° 22.2° 20.4° 22.2° 20.4° 22.2° 20.4° 22.2° 20.4° 22.2° 20.4° 22.2° 20.4° 22.2° 20.4° 22.2° 20.4° 22.2° 20.4° 22.2° 20.4° 22.2° 20.4° 22.2° 20.4° 20.2°	19.9° 19.9° 19.9° 20.4° 20.3° 20.2° 20.2° 20.2° 20.2° 21.8.3° 20.3° 22.5° 22.4° 24.4° 24.3° 22.5° 22.17.3°	7.9* 7.9* 8.1* 13.0* 12.5 13.1 14.9* 15.3 10.8 12.0 11.7 15.1 10.6 11.7 14.9* 10.0* 10.0*	7.9° 7.9° 7.9° 7.9° 13.4° 13.4° 15.1° 15.6° 15.6° 15.6° 15.6° 15.7° 15.7° 15.7° 15.9° 15.9° 15.9° 10.0°	4.9° 4.9° 4.9° 5.4° 7.1° 7.1° 7.5° 7.5° 8.4° 8.5° 8.7 9.3 10.4° 8.5 8.2 8.9 10.4 7.6 8.4 10.4 7.6 8.7 7.7 7.7	4.9° 4.9° 5.4° 7.1° 7.1° 7.5° 7.5° 7.5° 8.4° 8.5° 10.4° 11.1° 11.5° 11.5° 11.5° 11.5° 11.7° 11.7° 11.7° 10.7°	5.1* 5.4* 6.8 7.1* 6.5 6.6 6.2 6.7 7.9 6.4 7.8 5.6 6.1 7.6 5.3 5.8 7.3 5.6 7.1 5.0 5.5 5.5 6.7 7.1	5.1* 5.4* 7.0* 7.1* 8.0* 8.6* 8.6* 8.9* 8.9 9.0 9.1 9.1 9.1 9.1 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8	3.4* 3.4* 4.5 4.9 6.0 4.3 4.7 4.5 5.8 4.1 4.5 5.8 4.1 4.5 3.9 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3	3.4* 3.4* 3.8* 6.3* 6.3* 7.1 7.4* 7.0 7.1 7.4* 6.8 6.9 7.4 6.7 6.7 6.7 6.7 6.7 6.7	3.2 3.5 3.7* 3.1 3.4	3.6* 3.6* 3.7* 4.1*	4.1° 4.1 3.6° 3.1 3.6° 3.1 3.6° 3.1 3.3° 3.3 3.2° 3.3 3.3° 3.3 3.4° 3.3 3.4° 3.3 3.4° 3.3 3.4° 3.3 3.6° 4.4 4.0° 4.4 4.0° 4.4 4.0° 4.4 3.7° 3.3 3.7° 3.3 3.7° 3.3 3.7° 3.3 3.7° 3.3 3.8° 4.0 3.8° 4.0 4.0° 4

Stick 2.80 m

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.

Max. reach * Limited by hydr. 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.

with Mono Boom 6.05 m and Counterweight 6.3 t

Stick 2.50 m Stick 2.80 m 3.0 m 6.0 m 4.5 m 6.0 m 7.5 m 9.0 m 10.5 m 9.0 m 10.5 m Under-Under-ا احجا -s b الله الحج <u>,</u> <u>-</u> -s d -5 J carriage carriage m --5 -50 m m -5 NI C NI C 10.5 10.5 NLC LC LC-V NLC 9.0 9.0 LC LC-V 5.2* 5.2* 5.2* 5.2* **6.8** 5.1* 5.1* 4.9* 4.9* 4.9* 4.9* 4.8* 4.8* 8.3* 8.3* 8.3* 8.3* 8.3* 8.3* 8.6* 8.6* 8.6* 8.6* NLC. 5.9* 5.9* 5.5* 5.5* 5.5* 5.9* **6.4** 5.9* 7.5 7.5 8.8 8.6 9.0* 9.0* 6.1 6.6 7.6* 5.5* 5.5* 5.5* **7.4** NLC 6.0 9.0* 9.0* 6.0 8.3 9.5* 9.0 9.5* 9.6* 9.6* 4.8* 4.8* 4.8* 4.8* 4.8* 4.8* 8.3 9.0 11.6* 11.6* 8.3 9.5* 11.6* 11.6* 9.0 9.5* 11.6* 11.6* 9.0 9.5* 11.7* 17.7* 17.7* 11.9* 11.9* 9.6* 9.6* 9.6* 11.8 14.3* 7.9 10.7* 13.0 14.3* 8.6 10.7* 14.5* 14.5* 10.6 10.8* 11.1 16.1* 7.5 11.7* 12.2 16.1* 82 11.7* 15.5 16.2* 10.2 11.8* 10.8 16.5* 7.3 12.2* 11.9 16.5* 8.0 12.2* 11.9 16.5* 10.0 12.2* 15.2 16.5* 10.0 12.2* 14.4* 14.4* 10.7 15.8* 7.2 11.9* NI C 9.9* 5.9 5.3 NI C LC-V 12.3* 12.3* 9.0 9.9* 12.5* 12.5* 10.0* 10.0* 5.5* 5.5* 5.5* 5.5* 4.5 7.9 5.6* 5.6* 5.6* 6.0* 11.7 14.9* 12.9 14.9* 15.1* 15.1* 5.8 6.3 7.7 5.6 5.8 6.3 7.7 5.6 7.9 11.0* 8.6 11.0* 9.2* 9.2* 8.9* 8.9* 4.6 4.9* 4.9* 4.9* 3.0 3.0 8.7 LC-V 5.3 LC 15.1* 15.1* 10.6 11.1* 11.0 16.5* 7.5 11.9* 12.2 16.5* 8.2 11.9* 15.5 16.5* 10.2 12.0* 4.5 5.2* 4.9 5.2* 5.2* 5.2* NLC NLC 1.5 6.1 7.6 5.1 6.0* 6.0* 6.0* 1.5 6.1 7.5 9.2 7.3 12.3* 8.0 12.3* 10.0 12.3* 7.3 11.8* 7.9 11.8* NI C 10.8 16.5* 11.9 16.5* 15.2 16.5* 5.5 6.0 7.4 9.1 9.1 4.8 6.7* 6.7* 6.7* 8.2 NI C 5.4 5.9 7.4 9.0 9.0 9.6 4.6 5.0 5.8* 5.8* 5.8* 5.8* 0 5.3 0 14.9° 14.9° 10.8 15.5° 7.3 11.8° 14.9° 14.9° 11.9 15.5° 7.9 11.8° 15.7° 15.7° 15.7° 15.3 15.4° 10.0 11.7° 17.2° 17.2° 11.0 13.5° 7.4 10.3° 10.1° | 15.2 | 16.5* | 10.0 | 12.2* | 14.4* | 14.4* | 10.7 | 15.8* | 7.2 | 11.9* | 11.9* | 11.9* | 15.0* | 15.0* | 15.0* | 15.0* | 15.2* | 15.7* | 9.9 | 11.8* | 18.4* | 18.4* | 10.9 | 14.0* | 7.3 | 10.6* | 18.4* | 18.4* | 12.0 | 14.0* | 7.9 | 10.6* | 18.1* | 18.1* | 13.8* | 13.8* | 10.0 | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10.5* | 10 NLC LC LC-V 5.3 5.7 7.2 5.0 6.7* 5.4 6.7* 6.8 6.8* 7.9* 7.9* -1.5 -1.5 7.7 LC-V 8.0* 15.3 15.4* 11.0 13.5* 12.1 13.5* 13.2* 13.2* 9.5* 9.5* 9.5* 9.5* 8.5* 8.5* 8.4* 5.8 6.3 8.1 6.3 8.2* 8.2* -3.0 -3.0 7.2 LC-V LC LC-V 7.5* 7.5* 7.5* 7.5* **5.4** 7.5* 7.5* 7.5* 7.5* 7.4* 7.4* NLC NLC -4.5 -4.5 NI C NLC -6.0 -6.0 Stick 3.10 m Stick 3.90 m 3.0 m 3.0 m 6.0 m 7.5 m 9.0 m | 10.5 m | 4.5 m 6.0 m 7.5 m 9.0 m 10.5 m 4.5 m Under-Under-الله الحجا ا ا -s b carriage -5 m carriage m NLC NLC 10.5 10.5 NLC NLC 9.0 9.0 NLC 7.5 7.5 LC-V 8.2* 8.2* 8.2* 8.2* 8.2* 8.2* 8.4 9.1* 9.1 9.1* 9.2* 9.2* 7.9 10.3* 8.6 10.3* 4.3* 4.3* 4.3* 4.3* 4.3* 4.3* **8.1** 6.9* 6.9* 6.3 6.8 6.9* 6.6 7.8* 6.0 6.0 6.0 LC-V LC 6.9* 7.4* 7.4* 7.4* 4.2 3.2* 3.2* 3.2* 3.2* 3.2* 3.2* 8.1* 8.1* 8.1* 8.1* 8.2* 8.2* 6.1 6.6 7.4* 5.8 6.3 7.8 NI C 4.2* NI C 3.2 6.5 4.2* 4.2* 4.2* 4.2* 3.2* 3.2* 4.5 8.7 4.5 NLC LC LC-V 5.8 6.2 7.7 5.5 4.3* 4.3* 4.4* 4.3* 4.3* 4.4* **9.0** NLC LC LC-V 18.9* 18.9* 12.1* 12.1* 18.9* 18.9* 12.1* 12.1* 19.6* 19.6* 12.4* 12.4* 8.1 8.8 9.6* 9.5* 9.5* 9.6* 8.1* 8.1* 8.1* 4.4 4.8 6.0 3.2* 3.2* 3.2* 11.9 13.7* 13.1 13.7* 8.7* 8.7* 8.7* 9.2 9.2 9.3* 3.0 3.0 13.9" 13.9" 10.4" 10.4" 10.4" 11.1 15.8" 7.5 11.5" 11.5" 12.3 15.8" 8.2 11.5" 15.5 15.9" 10.2 11.5" 15.5 15.9" 10.2 11.5" 17.9" 7.9" 11.9 16.5" 7.9 12.1" 8.4" 8.4" 15.1 16.5" 10.0 12.1" 13.8" 13.8" 13.8" 10.6 16.0" 7.8 11.9" 14.4" 14.4" 15.1 15.9" 9.9 11.9" 14.4" 14.4" 15.1 15.9" 9.9 11.9" 14.4" 14.4" 15.1 15.9" 9.9 11.9" 13 9* 13 9* 10 4* 10 4* 196" 196" 124" 124" 96" 96" 83" 83" 126 147" 76 108" 83" 83" 126 147" 83 108" 82" 82" 149" 149" 104 109" 93" 120" 161" 73 117" 95" 95" 153 162" 100 118" 128" 128" 128" 106 153" 78 120" 131" 131" 150 163" 78 120" 131" 131" 150 163" 78 120" 131" 131" 150 163" 98 120" 131" 131" 150 163" 98 120" 4.3 4.3 4.6* 4.6* 4.6* **9.0** 8.8* 8.8* 5.6 6.1 7.6 5.4 5.9 7.3 5.3 5.7 7.2 1.5 6.0 7.5 5.4 1.5 3.4* 3.4* 3.4* 3.7* 3.7* 3.7* 3.7* 3.7* 4.0 4.2* 4.2* 4.2* 4.2* 4.2* LC-V NLC 9.0 9.0 9.3* I C-V 5.8 4.2 4.6 5.7 4.1 NLC 5.9 7.3 5.3 0 9.0 9.5* 0 6.9 7.8 4.7 5.8* 5.1 5.8* 5.9* 5.9* 8.8 NLC NLC 5.8 7.3 -1.5 -1.5 19.5° 19.5° 10.7° 14.4° 7.2° 10.9° 19.5° 19.5° 19.5° 11.9° 14.4° 7.8° 10.9° 19.2° 19.2° 14.2° 14.2° 9.9° 10.8° 14.9° 14.9° 11.0° 11.3° 7.4° 8.2° 14.4° 14.4° 11.0° 11.0° 7.7° 7.7° 7.2 10.9* 7.8 10.9* 9.9 10.8* 5.4 5.9 7.5 7.3* 7.3* 7.5* NLC LC LC-V 17.7* 17.7* 10.6 15.4* 17.7* 17.7* 11.7 15.4* 18.2* 18.2* 15.0 15.3* 7.0 7.7 9.8 11.5* 11.5* 11.4* 5.2 5.7 7.2 4.5 5.0 5.2* 5.1* 5.1* 5.2* NLC 5.4 8.8 -3.0 5.9 -3.0 8.8 5.2* 5.2* 5.6 6.9* 6.1 6.9* 7.1* 7.1* 7.8* 7.8* 7.8* 7.8* 5.0 7.5 7.5* 7.1 7.5* 7.5* 7.5* **6.2** 7.4* 7.4* 18.3* 18.3* 11.9 13.2* 7.2 9.9* 17.9* 17.9* 13.0* 13.0* 9.7* 9.7* 17.9* 17.9* 13.0* 13.0* 9.7* 9.7* -4.5 -4.5 LC-V LC-V NLC NLC 8.8* 8.8* 8.8* 8.8* -6.0 -6.0LC LC-V

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.

In longitudinal position of undercarriage

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.

Can be slewed though 360°

with Straight Mono Boom 6.50 m and Counterweight 6.3 t

Stick 2.50 m Stick 2.80 m 4.5 m 6.0 m 9.0 m 4.5 m 6.0 m 7.5 m 9.0 m 10.5 m 10.5 m Under-Under-الله الله الله الحج ď -- 6 <u>-</u> 6 carriage carriage -30 --50 m NI C 10.5 10.5 6.1* 6.1* 6.1* 6.1* 7.2* 7.2* 8.7 9.1* 9.1* 9.1* 9.1* 9.1* NLC LC LC-V 6.9* 6.9* 6.9* 6.9* 6.8* 6.8* **5.6** NLC LC LC-V 5.9* 5.9* 5.9* 5.9* 5.8* 5.8* **6.0** 9.0 9.0 9.5* 9.5* 9.5* 9.8* 9.8* 9.9* 5.8° 5.2* 5.2* 5.2* 4.9* 9.1* 9.1* 9.1* 9.5* 9.5* 9.6* NLC 5.2° 5.2° 5.2° 5.2° **7.5** 5.2° 5.2° 4.9° 4.9° 4.9° 4.9° 4.9° 4.9° 9.4 9.5* 8.4 9.2 9.9* 7.5 6.0* 5.9* 6.0* **7.1** 5.9* 7.5 6.0 6.5 8.0 8.5 9.2 9.6* 5.3 5.6* 5.6* 5.6* 5.6* 5.6* 6.0 6.5 8.0 NLC 6.0 6.0 13.9* 8. 13.9* 8. 13.9* 8. 1* 14.1* 10.8* 12 16.0* 7.6 12.3 16.0* 8.7 15.4* 15.4* 10 * 12.0* 9.9* 9.9* 8.0 13.9* 8.1 10.7* 5.8 13.9* 18.1 0.7* 6.3 * 14.1* 10.8* 10.8* 7.8 16.0* 7.6 11.6* 5.6 16.0* 8.3 11.6* 6.1 * 15.4* 10.4 11.7* 7.6 7.3 12.1* 5.4 8.0 12.1* 5.4 10.0 12.1* 7.4 14.0* 7.1 12.0* 5.8 14.6* 9.8 11.9* 7.3 14.6* 9.8 11.9* 7.3 4.7 5.1 5.5* 12.3 13.4* 8.1 13.4* 13.4* 8.8 13.6* 13.6* 10.5* 4.4 4.8* 4.8* 4.8* 4.8* 4.8* NI C 10.4* 5.8 8.8* 4.5 10.4* 10.5* 6.3 7.8 LC LC-V 8.8* 5.5* 5.5* 5.6* **9.0** 4.9* 4.9* 4.9* **9.3** 9.2 4.4 4.1 4.5 5.6 6.1 7.6 5.4 5.9 7.4 5.3 5.8 7.3 5.2 5.7 7.2 5.4 5.8 6.9* 9.2* 9.2* 9.3* 9.0 9.0 9.5* 4.3 4.7 5.9 4.2 4.6 5.8 3.0 3.0 LC I C-V LC LC-V 9.4* 9.0 9.1 9.6* 5.6* 4.3 4.6 5.8 4.9* 4.0 4.4 5.1* 5.8* 5.8* 5.8* NLC NLC 1.5 1.5 9.3 10.5 14.9* 11.6 14.9* 14.9 15.4* 4.4 4.8 6.0 8.9 8.9 9.4* 8.9 8.9 9.4* 6.3* 6.3* 6.4* **8.8** NI C 7.1 12.0* 7.8 12.0* 9.8 11.9* 4.1 4.5 5.5* 5.5* 5.5* **9.1** 5.5* 0 0 9.9* 9.9* 10.5 14.2* 9.9* 9.9* 11.6 14.2* 10.5* 10.5* 14.1* 14.1* 13.4* 13.4* 10.7 11.9* 13.4* 13.4* 11.8 11.9* 9.8 11.9* 7.0 11.2* 7.7 11.2* 9.8 11.1* 7.1 9.5* 7.8 9.5* 9.3* 9.3* 6.3* 6.3* 6.3* 6.3* 4.4 4.8 6.1 5.1 5.6 10.6 13.7* 7.1 11.0* 5.3 11.8 13.7* 7.8 11.0* 5.8 13.6* 13.6* 9.8 10.9* 7.3 4.7 5.1 6.5 NLC LC LC-V 6.2* 6.2* 6.2* -1.5 -1.5 8.3 I C-V 0.8 11.2* 1.2* 11.2* 1.0* 11.0* 7.2 7.9 8.9* 9.1* 9.1* 8.9* 5.5 6.0 6.3* 6.4* 6.4* 6.3* **7.5** 6.3* 6.3* 6.2* **7.8** -3.0-3.0 LC LC-V 6.2* 6.2* 6.2* 6.2* **6.1** NLC -4.5 -4.5 NLC -6.0 -6.0 Stick 3.10 m Stick 3.90 m 3.0 m 3.0 m 7.5 m 9.0 m 10.5 m 4.5 m 6.0 m 7.5 m 9.0 m 10.5 m 4.5 m 6.0 m Under-Under-ا ا -s b j ď ď carriage m m carriage -50 m 4.5* 4.5* 4.5* 4.5* 4.4* 4.4* 3.7* 3.7* 3.7* 3.7* 3.7* 3.7* NLC 2* 52* 6.5 5.1* 5.1* 4.6* 4.6* 4.6* 4.6* 4.3* 4.3* 4.3* 4.3* 10.5 10.5 7.6* 7.6* 8.0* 7.6* 7.6* 8.0* 4.1* 4.1* 4.1* 4.1* 4.7* 4.7* NI C 9.0 LC-V 9.0 LC-V 4.7* 4.7* 6.3 6.8* 6.8 6.8* 6.9* 6.9* 6.2 7.5* 6.7 7.5* 7.5* 7.5* 6.0 8.0* 6.5 8.0* 6.7 8.6* 3.4* 3.4* 3.2* 3.2* 3.2* 3.2* 3.2* 3.2* 3.2* 6.8* 6.8* 7.2* 8.2* 8.2* 8.6* 8.6* 8.6* 7.5 7.5 3.2* 3.2* 3.2* 4.5 4.9 5.9* 4.5 4.8 6.0 5.8* 5.8* 5.9* 6.0 6.0 9.5 1 C LC LC-V 4.2 4.2* 4.2* NI C NI C 4.5 4.5 9.0* 9.0* 9.1* 4.3 4.7 5.8 3.9 4.3 4.3* 4.3* 4.3* NLC LC 4.3 4.7 5.9 4.2 4.6 3.0 3.0 4.3 9.0 1.5 1.5 LC-V LC-V 5.7 4.1 4.5 5.7 4.5* 4.8* 4.8* 4.8* 4.8* 9.4* 8.8 7.7° 6.8 5.7 4.1 4.5 5.6 4.0 3.9 4.3 4.8* NLC 6.8 7.7 6.7 6.8 0 8.8 9.4* 0 4.2 4.6 5.4* 5.4* 5.4* 5.4* 3.6 3.9* 4.0* NI C NLC 3.9* 4.4 5.6 -1.5 -1.5 4.8 5.2 6.1* 6.2* 6.2* 6.1* NLC LC LC-V 4.1 4.4 4.6* 4.5* 4.5* 4.6* -3.0-3.0 4.8 5.2* 5.2* 5.2* 5.1* 5.1* -4.5 5.3* **6.9** -4.5 8.0 LC LC-V NLC -6.0-6.0Max. reach Height Can be slewed though 360° In longitudinal position of undercarriage

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.

* Limited by hydr. 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)

	Duc	NOLS	wacn	IIIE Sta	Dilley	hei is					piliy c	aµau	ity)															
	Cutting width	Capacity ISO 7451	(2)	NLC-Undercarriage 윤										LC-	-Unde	rcarri	age					LC-\	/-Und	ercar	riage			
	Ħ	Capacity ISO 7451	ig	Weight³)			Sti	ck lei	nath (m)					St	ick lei	nath (m)			Stick length (m)							
	Grt	Cap ISO	Weight ²⁾	We	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						3.90	
	mm	m³	kg	kg						without guick coupler with guick coupler						without quick coupler with quick couple												
П	Mono	boom 6																										
	1,050	1.00	1,100	1,120	A	A	A	A	A	•	A	A	A	•	A	A	A	A	A	A	A	•	A	A	A	•	A	A
	1,250	1.25	1,250		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	1,400	1.45	1,340	1,360	A	A	A		A	A	A	A	A	A	A		A	A	A	A	A	A	A		A	A	A	A
	1,550	1.60	1,430	1,450	A	A			A	A			A	A	A	A	A	A	A		A	A	A	A	A	A	A	
	1,650	1.75	1,540	1,560	A		A	Δ		A	A	Δ	A	A			A	A		Δ	A	A	A		A	A	A	Δ
	1,550	1.85	1,510	1,520			A	Δ				Δ	A	A		Δ	A			Δ	A	A	A	Δ	A	A	A	Δ
	1,650	2.00	1,620	1,640	A			Δ	A		Δ	_			A	Δ		A		_	A	A	A	Δ	A	A	A	_
	1,750	2.15	1,800	-		Δ	Δ	-	_	-	_	_	A	A		_	_	-	-	_	A	A		-	-	-	-	-
	Straig	ht mon	o boom	6.50 n	n																							
	1,050	1.00	1,100	1,120	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	1,250	1.25	1,250	1,270	A	A	A		A	•	A	A	A	A	A	A	A	A	A		A	A	A	A	A	•	A	A
	1,400	1.45	1,340	1,360	A	A			A		A	Δ	A	A	A		A	A			A	A	A		A	A	A	A
후	1,550	1.60	1,430	1,450			A	Δ		A		Δ	A	•			A		A	Δ	A	A	A	A	A	A	A	
	1,650	1.75	1,540	1,560	A		Δ	Δ		Δ	Δ	_			A	Δ		A		Δ	A	A	A	Δ	A	A	A	Δ
	1,550	1.85	1,510	1,520	A		Δ	-		Δ	Δ	_		A	=	Δ	A			Δ	A	A	A	Δ	A	A	A	Δ
	1,650	2.00	1,620	1,640		Δ	Δ	-	Δ	Δ	_	-	A		Δ	Δ		Δ	Δ	-	A	A	A	Δ	A	A		_
	1,750	2.15	1,800	-	Δ	Δ	_	-	_	-	_	-		Δ	Δ	_	_	_	_	-	A			_	_	_	-	_
	Two-p	iece bo	om 4.2	0 m																								
	1,050		1,100	,	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	1,250		1,250		A	A	A		A	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A	A
	1,400	1.45	1,340	,	A	A	-		A		A	Δ	A	A	A	A	A	A	-	-	A	A	A		A	A	A	A
	1,550	1.60	1,430			A		Δ	A			Δ	A	A			A		A	Δ	A	A	A	A	A	A	A	
	1,650	1.75	1,540	,	A		Δ	Δ	-	Δ	Δ	-		A	A	Δ	-	A	-	Δ	A	A	A	-	A	A	A	Δ
	1,550	1.85	1,510				Δ	-		Δ	Δ	-		A		Δ	A		Δ	Δ	A	A	A	Δ	A	A	A	Δ
	1,650	2.00	1,620	1,640	Δ	Δ	Δ	-	Δ	Δ	-	-	A	-	Δ	Δ	-	Δ	Δ	-	A	A	•	Δ	A	A	•	_
	1,750	2.15	1,800	-	Δ	Δ	_	-	-	-	_	-	Δ	Δ	Δ	_	-	-	-	-	A		A	-	-	-	-	-

^{*} Indicated loads are based on ISO 10567 max. stick length, lifted 360° on firm

Other backhoes available on request

 $\text{Max. material weight } \blacktriangle = \leq 2.0 \text{ t/m}^3, \blacksquare = \leq 1.8 \text{ t/m}^3, \blacktriangle = \leq 1.65 \text{ t/m}^3, \blacksquare = \leq 1.5 \text{ t/m}^3, \Delta = \leq 1.2 \text{ t/m}^3, -= \text{not authorised max. material weight } 4.0 \text{ t/m}^3, \Delta = \leq 1.0 \text{ t/m}^3, \Delta = \leq 1$

¹⁾ HD bucket with teeth Z 50

²⁾ Bucket for direct fitting

³⁾ Bucket for fitting to quick coupler (SW66, 350 kg)

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	ribbed	perforated	Gravel tongs							
SG 40, for mounting to quick coupler SW66										
Cutting width	mm 1,100*	1,100*	1,200*							
Capacity	m³ 1.10	1.30	1.30							
Weight	kg 2,320	2,230	2,360							

Standard Equipment

Undercarriage

Lashing eyelets

Sprocket with dirt ejector

Track guide (one piece per track frame)

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 box, 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

Oil level monitoring on touchscreen

Stepless adjustable engine speed

Urea tank level monitoring on touchscreen



Operator's Cab

7" colour multifunction display with touchscreen

Air conditioning, automatic

Cigarette lighter and ashtray

Coat hook

Cup holder

Fuel consumption indicator

Headlights (two pieces, Halogen)

Hydraulic suspension

Interior light

LiDAT Plus (Liebherr data transfer system) *

Mechanical hour meters, readable from outside the cab

Operator seat "Comfort" with horizontal 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 blind

Roof window, right window and windshield with safety glass

ROPS safety cab structure (ISO 12117-2)

Rubber floor mat

Sliding windows in cab door

Storage bin

Storage space

Tinted windows

Windscreen, totally or partially retractable

Wiper/washer



Attachment

Boom oil-recirculation

Headlight on boom (right, Halogen)

Liebherr central lubrication system, fully-automatic

(except connecting link for bucket kinematics)

Load valve for stick cylinder (on distributor)

Safety check valves on hoist cylinders

Stick oil-recirculation

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

^{*} optionally extendable after one year

Options

Undercarriage

Chain kit, reinforced (D7G)

Cover and base protection plates

Factory special painting

Steps, wide version

Storage box

Track guides (three pieces per track frame)

Track pads, angled or chamfered

Uppercarriage

Additional headlights on uppercarriage (Halogen or LED) with protection

Additional right-hand rearview mirror

Bottom and lateral protection for uppercarriage

Camera for side area monitoring

Diesel refuelling pump (electric)

Electric socket for external start-up aid (24 V)

Electric socket for urea filling station (24 V)

Factory special painting

Fan drive, reversible

Fine filter protection grid for radiator

Fuel anti-theft device

Fuel tank cap lockable with padlock

Heavy counterweight

SkyView 360° camera

Storage box with extended tool set 40 pieces (incl. toolbox)

Walkway, foldable

Wiggins quick-coupling for fuel



Hydraulic System

Hydraulic bypass fine filter

Liebherr hydraulic oil, adapted for extreme climate conditions

Liebherr hydraulic oil, biodegradable



🖣 Engine

Air pre-filter with dust trap

Automatic engine shut-down on idle (adjustable)

Engine compartment lighting

Engine shut-down self-timer

Liebherr particle filter

Wiggins quick coupling for engine oil



Operator's Cab

Additional front and/or rear cab headlights (Halogen or LED)

Adjustable intensity headlights (LED)

Amber beacon

Auxiliary heater (programmable)

Electric cool box (12 V)

Electronic immobilizer

Emergency stop button in cab



Operator's Cab

Factory special painting

Falling objects protection structure (FOPS)

Fire extinguisher

First-aid kit

Follow me home headlights

Footrest

Front guard protection structure (FGPS)

Front headlights (two pieces, LED)

Handrest for joysticks

Impact-resistant front window (one piece, non removable)

Impact-resistant roof window

Integral protection guard

Liebherr proportional control (mini-joysticks 2 axis)

Lower part windshield wiper

Operator seat "Comfort" with four-point harness

Operator seat "Premium" with integrated ventilation

Radio "Comfort"

Roof window wiper

Sun visor

Sunshield on cab roof

Switchable high-pressure control

Travel alarm



Additional headlight on boom (left, Halogen or LED)

Automatic lubrication system for connecting link

Bottom protection for stick

Evelet on stick

Factory special painting

Filter for hydraulic hammer return flow

Headlight on boom (right, LED)

Headlights protection

High pressure circuit

Hoist cylinder stroke limitation, adjustable

Hoist cylinders float position

Hydraulic circuit for grapple

Hydraulic or mechanical quick coupler

Liebherr bucket range

Liebherr tooth system

LIKUFIX (quick-coupling system for hydraulic tools)

Lubricant hoses protection on stick

Middle pressure circuit

Overload warning device

Piston rod protection for adjustable cylinder

Piston rod protection for bucket cylinder

Piston rod protection for stick cylinder

Preparation for automatic pedestrian detection system

Preparation for machine guidance system

Preparation for weighing system

Protection for quick change-couplings, sideways on stick

Safety check valves for stick cylinder

Stick cylinder stroke limitation, adjustable

Tool Control, 10 tool adjustments selectable via 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 application.

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