R 924 Litronic

LIEBHERR

Crawler excavator

Generation
8

Operating weight
23,400–26,050 kg

Engine
129 kW / 175 HP
Stage V

Bucket capacity
0.55–1.65 m³

Experience the progress R 924

① Safety

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

② Equipment

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

③ Maintenance

- Innovative servicing concept, with service points accessible from ground level
- Lateral access to uppercarriage and large maintenance platform
- Engine oil, hydraulic oil, fuel and urea levels visible on the display

④ Comfort

- Spacious, air-conditioned work space
- Pneumatic seat with vertical and horizontal suspension
- Easy-to-use high resolution 9" colour touchscreen
- Completely retractable front cab window
- LED lighting as standard

⑤ Engine

- Liebherr engine that conforms with the Stage V European exhaust emissions standard
- Automatic engine idling and engine stop

⑥ Undercarriage

- Robust, reliable X-frame undercarriage, easy to secure thanks to its integrated eyelets
- Easy maintenance
- Maintenance-free travel gear and track rollers with lifetime lubrication
- Extra storage as an option

Technical data

Engine

Rating per ISO 9249	129 kW (175 HP) at 1,800 RPM
Torque	682 Nm at 1,400 RPM
Model	D924 A7-05 – FPT motor designed for Liebherr
Type	4 cylinder in-line
Bore	104 mm
Stroke	132 mm
Displacement	4.5 l
Engine operation	4-stroke diesel Common-Rail Turbo-charged and after-cooler
Exhaust gas treatment	Stage V DOC + SCR Filter Passive regeneration by thermo management
Cooling system	Water-cooled and oil cooler, after-cooled and fuel cooled
Air cleaner	Dry-type air cleaner with pre-cleaner
Fuel tank	400 l
Urea tank	46 l
Electrical system	
Voltage	24 V
Batteries	2 x 135 Ah / 12 V
Alternator	Three-phase current 28 V / 140 A
Engine idling	Sensor controlled

Hydraulic controls

Power distribution	Via control valves, simultaneous and independent actuation of undercarriage, swing drive and equipment
Electric servo circuit	Electro-hydraulic control
Equipment and swing	Proportional via joystick levers
Travel	– Proportional control via foot pedals or removable levers – Automatic or manual speed adjustment
Additional functions	Proportional regulation via foot pedals or mini-joystick

Hydraulic system

Hydraulic system	Positive Control hydraulic system. Demand-based, double independent pump flows Features high system dynamics and sensitivity provided by integrated system controlling
Hydraulic pump	
For equipment and travel drive	Liebherr, variable displacement, swashplate double pump
Max. flow	2 x 210 l/min.
Max. pressure	380 bar
Pump management	Electronic management synchronous to the control block. Open circuit for the rotation
Hydraulic tank	155 l
Hydraulic system	max. 320 l
Filtration	1 main return filter with integrated partial micro filtration (10 µm)
Cooling system	Compact cooler, consisting of a water cooler, sandwiched with hydraulic oil cooler and fuel and after-cooler cores and hydrostatically driven fan
MODE selection	Adjustment of engine and hydraulic performance via a mode pre-selector to match application, e.g. for especially economical and environmentally friendly operation or for maximum digging performance and heavy-duty jobs
Engine speed and performance setting	Stepless adjustment of engine output and hydraulic power via engine speed

Swing drive

Drive	Liebherr swashplate motor with integrated brake valve and torque control
Transmission	Liebherr compact planetary reduction gears
Swing ring	Liebherr, sealed race ball bearing swing ring, internal teeth
Swing speed	0–12.9 RPM stepless
Swing torque	74.3 kNm
Holding brake	Wet multi-disc (spring applied, pressure released)

Cab

Cab	ROPS safety cab structure (roll-over protection system according to ISO 12117-2:2008) with windscreen, totally or partially retractable (only upper part), under cab roof, LED headlights integrated in the ceiling, a door with a sliding window (can be opened on both sides), large storing box and several stowing possibilities, shock-absorbing suspension, laminated right hand side and roof windows, all windows tinted, separate extensible window shades for the sunroof window and windscreen, cigarette lighter and 24 V plug, 12 V plug, cup holder, mobile phone storage net
Operator's seat	Liebherr-Comfort seat, airsprung with automatic weight adjustment, vertical and longitudinal seat damping including consoles and joysticks. Seat and armrests adjustable separately and in combination (adjustable in length, height and inclination), seat heating as standard
Arm consoles	Oscillating consoles with seat, tiltable console left
Operation and displays	Large high-resolution operating unit, intuitive, colour display with touchscreen, video-compatible, numerous setting, control and monitoring options, e.g. air conditioning control, fuel consumption, machine and attachment parameters
Air-conditioning	Automatic air-conditioning, recirculated air function, fast de-icing and demisting at the press of a button, air vents can be operated via a menu. Recirculated air and fresh air filters can be easily replaced and are accessible from the outside. Heating-cooling unit, designed for extreme outside temperatures, sensors for solar radiation, inside and outside temperatures The air conditioning system contains fluorinated greenhouse gases
Refrigerant	R134a
Global warming potential	1,430
Quantity at 25 °C*	1,260 g
CO_2 equivalent	1.80 t
Vibration emission**	
Hand / arm vibrations	< 2.5 m/s², according with ISO 5349-1:2001
Whole-body vibrations	< 0.5 m/s²
Measuring inaccuracy	According with standard EN 12096:1997
Noise emission	
ISO 6396	70 dB(A) = L_{pA} (inside cab)
2000/14/EC	102 dB(A) = L_{WA} (surround noise)

Undercarriage

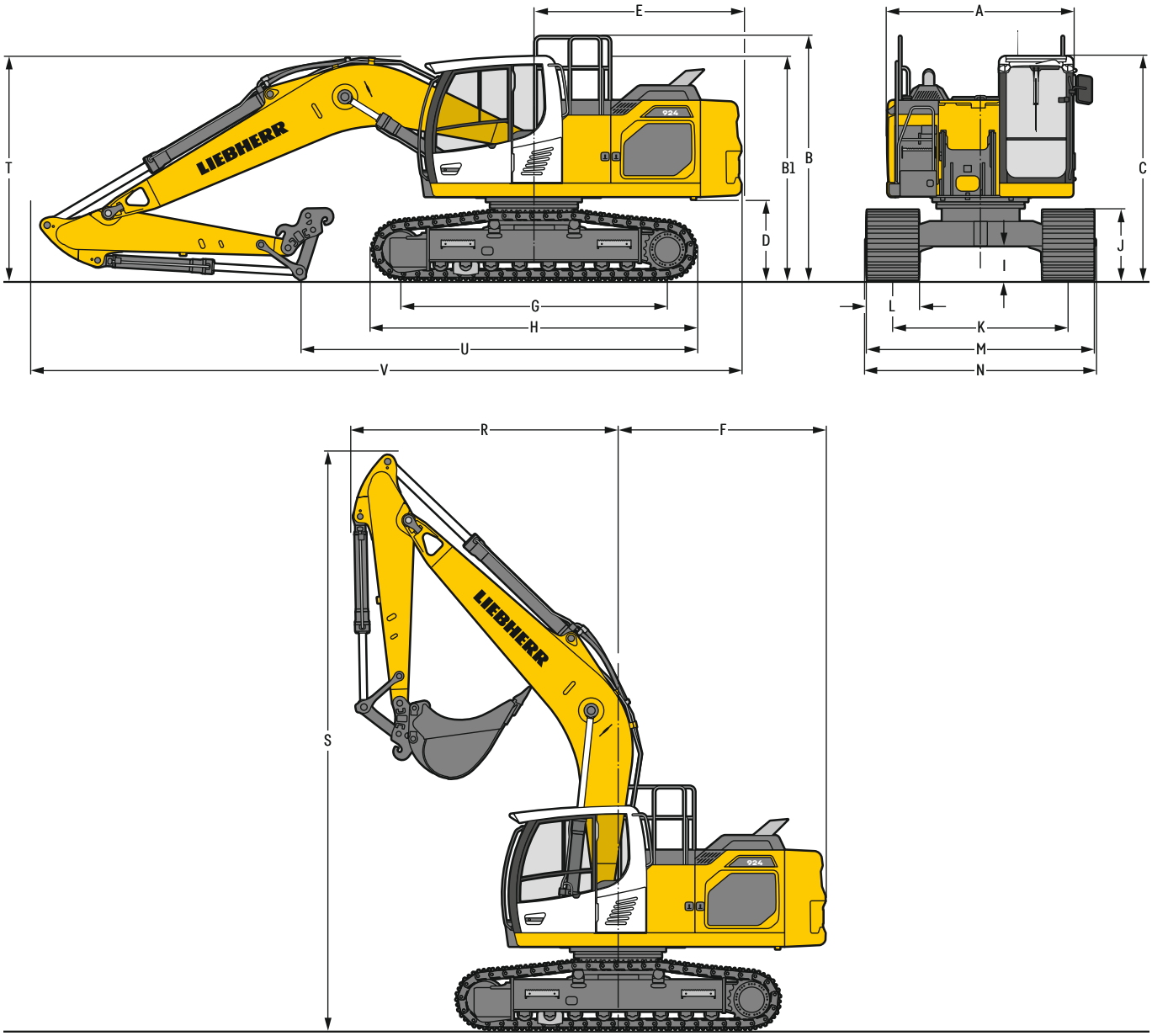
Versions	
NLC	Gauge 2,000 mm
SLC	Gauge 2,240 mm
LC	Gauge 2,390 mm
WLC	Gauge 3,590 mm
Drive	Liebherr swashplate motor with brake valves on both sides
Transmission	Liebherr planetary reduction gear
Maximum travel speed	3.1 km/h low range 5.9 km/h high range
Drawbar pull on crawler	236 kN
Track components	B60, D6C, maintenance-free
Track rollers / Carrier rollers	8 / 2 (NLC / SLC / LC) 9 / 2 (WLC)
Tracks	Sealed and greased
Track pads	Triple grouser
Holding brake	Wet multi-disc (spring applied, pressure released)
Brake valves	Integrated into travel motor
Lashing eyes	Integrated

Equipment

Type	Combination of resistant steel plates and cast steel components
Hydraulic cylinders	Liebherr cylinders with seal and guidance systems
Bearings	Sealed, low maintenance
Lubrication	Liebherr central lubrication system
Hydraulic connections	Pipes and hoses equipped with SAE split-flange connections
Buckets	Standard equipped with Liebherr tooth system

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

Dimensions



		NLC				mm	SLC						mm
A	Uppercarriage width					2,545[2)]							2,545[2)]
B	Uppercarriage height					3,335							3,335
B1	Uppercarriage height (handrails folded)					3,060							3,060
C	Cab height					3,060							3,060
D	Counterweight ground clearance					1,100							1,100
E	Rear-end length					2,830							2,830
F	Tail swing radius					2,880							2,880
G	Wheelbase					3,640							3,640
H	Undercarriage length					4,435							4,435
I	Undercarriage ground clearance					485							485
J	Track height					960							960
K	Track gauge					2,000							2,240
L	Track pad width		500	600	700	750		500	600	700	750	800	900
M	Width over tracks		2,500	2,600	2,700	2,750		2,740	2,840	2,940	2,990	3,040	3,140
N	Width over steps		2,500	2,600	2,700[1)]	2,700[1)]		2,775	2,775	2,975[1)]	2,975[1)]	2,975[1)]	3,075[1)]

		LC							WLC						
								mm							mm
A	Uppercarriage width							2,545[2]							2,545[2]
B	Uppercarriage height							3,335							3,335
B1	Uppercarriage height (handrails folded)							3,060							3,060
C	Cab height							3,060							3,060
D	Counterweight ground clearance							1,100							1,100
E	Rear-end length							2,830							2,830
F	Tail swing radius							2,880							2,880
G	Wheelbase							3,640							3,830
H	Undercarriage length							4,435							4,630
I	Undercarriage ground clearance							485							485
J	Track height							960							960
K	Track gauge							2,390							2,590
L	Track pad width		500	600	700	750	800	900		500	600	700	750	800	900
M	Width over tracks		2,890	2,990	3,090	3,140	3,190	3,290		3,090	3,190	3,290	3,340	3,390	3,490
N	Width over steps		2,925	2,925	3,125[1]	3,125[1]	3,125[1]	3,225[1]		3,125	3,125	3,325[1]	3,325[1]	3,325[1]	3,425[1]

[1] width with removable steps
[2] without door stop device and spacer

		Stick length	Mono boom 5.70 m with quick coupler	Mono boom straight 5.90 m with quick coupler	Two-piece boom 5.90 m with quick coupler	Mono boom offset 5.65 m with quick coupler
		m	mm	mm	mm	mm
R	Front swing radius	2.50	3,650	3,050	2,500	3,350
		2.90	3,650	3,050	2,600	3,350
		3.50	3,600	2,850	2,550	3,350
S	Height with boom up		7,900	8,600	8,700	7,950
T	Boom height	2.50	3,050	2,850	2,800	2,900
		2.90	3,100	3,000	2,950	2,900
		3.50	3,050	3,050	3,050	2,900
U	Length on ground	2.50	5,400 / 5,500[1]	5,900 / 6,000[1]	5,900 / 6,000[1]	8,050 / 8,150[1]
		2.90	5,050 / 5,150[1]	5,650 / 5,750[1]	5,600 / 5,700[1]	7,650 / 7,750[1]
		3.50	7,150 / 7,250[1]	5,000 / 5,100[1]	5,000 / 5,100[1]	7,000 / 7,100[1]
V	Overall length		9,700	9,950	9,900	9,550
	Bucket		1.25 m^3	1.25 m^3	1.25 m^3	1.25 m^3

[1] WLC undercarriage

Transport dimensions

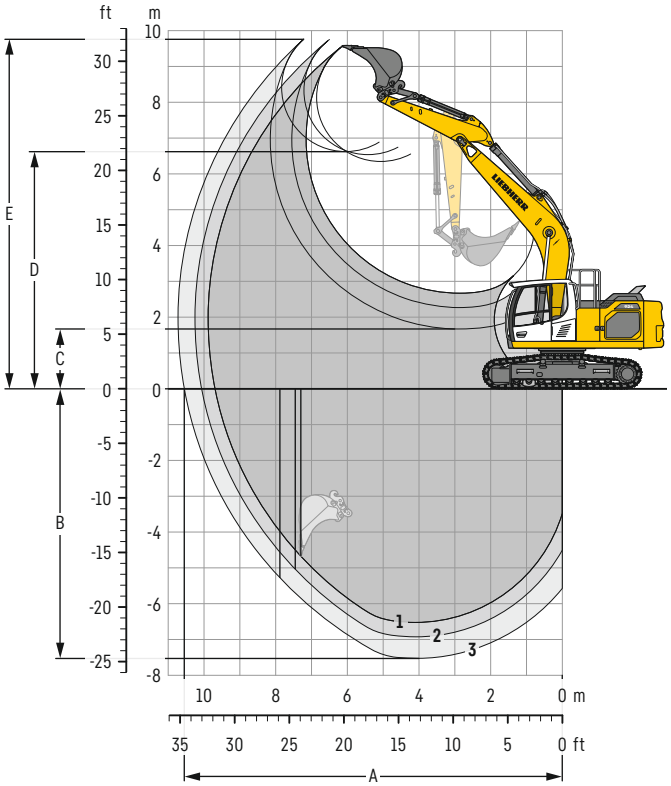
removable elements disassembled

	Undercarriage	Mono boom 5.70 m						Mono boom straight 5.90 m						Two-piece boom 5.90 m						Mono boom offset 5.65 m					
		mm						mm						mm						mm					
Pad width		500	600	700	750	800	900	500	600	700	750	800	900	500	600	700	750	800	900	500	600	700	750	800	900
Transport width	NLC	2,545	2,600	2,700	2,750	-	-	2,545	2,600	2,700	2,750	-	-	2,545	2,600	2,700	2,750	-	-	2,545	2,600	2,700	2,750	-	-
	SLC	2,740	2,840	2,940	2,990	3,040	3,140	2,740	2,840	2,940	2,990	3,040	3,140	2,740	2,840	2,940	2,990	3,040	3,140	2,740	2,840	2,940	2,990	3,040	3,140
	LC	2,890	2,990	3,090	3,140	3,190	3,290	2,890	2,990	3,090	3,140	3,190	3,290	2,890	2,990	3,090	3,140	3,190	3,290	2,890	2,990	3,090	3,140	3,190	3,290
	WLC	3,090	3,190	3,290	3,340	3,390	3,490	3,090	3,190	3,290	3,340	3,390	3,490	3,090	3,190	3,290	3,340	3,390	3,490	3,090	3,190	3,290	3,340	3,390	3,490

	Undercarriage / Stick	NLC / SLC / LC / WLC	NLC / SLC / LC / WLC	NLC / SLC / LC / WLC	NLC / SLC / LC / WLC
	m	mm	mm	mm	mm
Transport length		9,700	9,950	9,900	9,550
Transport height	2.50	3,060	3,060	3,060	3,060
	2.90	3,100	3,060	3,060	3,060
	3.50	3,060	3,060	3,060	3,060

Backhoe bucket

with mono boom 5.70 m



Digging envelope

with quick coupler		1	2	3
Stick length	m	2.50	2.90	3.50
A Max. reach at ground level	m	9.69	10.07	10.55
B Max. digging depth	m	6.53	6.93	7.52
C Min. dumping height	m	2.67	2.27	1.67
D Max. dumping height	m	6.34	6.54	6.62
E Max. cutting height	m	9.54	9.75	9.76

Forces

without quick coupler		1	2	3
Stick digging force (ISO 6015)	kN	135	122	106
Bucket digging force (ISO 6015)	kN	173	173	173
Stick digging force (SAE J1179)	kN	129	117	103
Bucket digging force (SAE J1179)	kN	151	151	151

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 5.0 t, mono boom 5.70 m, stick 2.90 m, quick coupler SWA 48 (250 kg) and bucket 1.25 m³ (910 kg).

Undercarriage		NLC			
Pad width	mm	500	600	700	750
Weight	kg	23,400	23,650	23,900	24,000
Ground pressure	kg/cm²	0.60	0.50	0.44	0.41

Undercarriage		SLC					
Pad width	mm	500	600	700	750	800	900
Weight	kg	23,500	23,750	24,000	24,100	24,400	24,700
Ground pressure	kg/cm²	0.60	0.51	0.44	0.41	0.39	0.35

Undercarriage		LC					
Pad width	mm	500	600	700	750	800	900
Weight	kg	23,600	23,850	24,100	24,200	24,500	24,800
Ground pressure	kg/cm²	0.60	0.51	0.44	0.41	0.39	0.35

Undercarriage		WLC					
Pad width	mm	500	600	700	750	800	900
Weight	kg	24,000	24,300	24,600	24,700	24,850	25,150
Ground pressure	kg/cm²	0.58	0.49	0.43	0.40	0.38	0.34

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

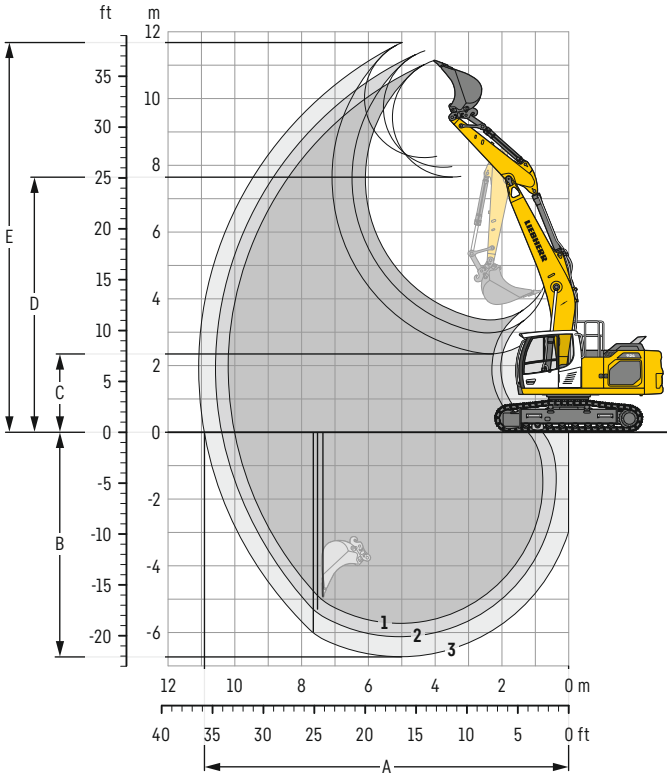
	Cutting width	Capacity ISO 7451	Weight[3]	Weight[4]	NLC undercarriage (with track pads 500 mm)						SLC undercarriage (with track pads 600 mm)						LC undercarriage (with track pads 600 mm)						WLC undercarriage (with track pads 600 mm)					
					Stick length (m)						Stick length (m)						Stick length (m)						Stick length (m)					
					without quick coupler			with quick coupler			without quick coupler			with quick coupler			without quick coupler			with quick coupler			without quick coupler			with quick coupler		
	mm	m³	kg	kg	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50
STD[1]	650	0.55	580	590	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850	0.75	620	630	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050	0.95	700	710	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.15	810	830	▲	■	■	■	▲	△	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲
	1,250	1.25	890	910	■	■	△	▲	■	△	▲	■	▲	▲	■	■	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,400	1.35	850	880	▲	■	△	■	△	△	▲	■	■	■	▲	△	▲	■	▲	▲	■	■	▲	▲	■	▲	▲	■
	1,400	1.50	950	980	△	△	—	△	△	—	▲	■	△	▲	△	△	■	▲	■	■	■	△	▲	■	▲	▲	■	▲
	1,500	1.65	1,020	1,030	△	—	—	△	—	—	■	△	△	△	△	—	▲	■	△	■	△	△	■	▲	■	■	▲	△
HD[2]	650	0.55	640	650	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850	0.75	695	705	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050	0.95	790	800	▲	▲	■	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.15	910	940	■	▲	■	■	■	△	▲	▲	■	▲	■	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲
	1,250	1.25	1,010	1,030	▲	■	△	■	△	△	▲	■	■	■	▲	■	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	■
	1,400	1.35	970	990	▲	△	△	■	△	—	■	▲	■	■	■	△	▲	■	▲	▲	■	■	▲	▲	■	▲	▲	■
	1,400	1.50	1,090	1,120	△	△	—	△	—	—	▲	■	△	■	△	△	■	▲	△	▲	■	△	▲	■	▲	▲	■	■
	1,500	1.65	1,160	1,160	△	—	—	—	—	—	■	△	—	△	△	—	■	△	△	■	△	△	■	▲	△	■	■	△

* Indicated loads are based on ISO 10567, at maximum reach, and may be swung 360° on firm and even ground
[1] Standard bucket with teeth Z 40
[2] HD bucket with teeth Z 40
[3] Bucket for direct mounting
[4] Bucket for mounting to quick coupler SWA 48 (250 kg)
Other buckets available upon request

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

Backhoe bucket

with mono boom straight 5.90 m



Digging envelope

with quick coupler		1	2	3
Stick length	m	2.50	2.90	3.50
A Max. reach at ground level	m	10.01	10.40	10.91
B Max. digging depth	m	5.73	6.13	6.73
C Min. dumping height	m	3.37	2.98	2.35
D Max. dumping height	m	7.65	7.94	8.23
E Max. cutting height	m	11.14	11.43	11.63

Forces

without quick coupler		1	2	3
Stick digging force (ISO 6015)	kN	135	122	106
Bucket digging force (ISO 6015)	kN	173	173	173
Stick digging force (SAE J1179)	kN	129	117	103
Bucket digging force (SAE J1179)	kN	151	151	151

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 5.0 t, mono boom straight 5.90 m, stick 2.90 m, quick coupler SWA 48 (250 kg) and bucket 1.25 m³ (910 kg).

Undercarriage		NLC			
Pad width	mm	500	600	700	750
Weight	kg	23,400	23,650	23,900	24,000
Ground pressure	kg/cm²	0.60	0.50	0.44	0.41

Undercarriage		SLC					
Pad width	mm	500	600	700	750	800	900
Weight	kg	23,500	23,750	24,000	24,100	24,400	24,700
Ground pressure	kg/cm²	0.60	0.51	0.44	0.41	0.39	0.35

Undercarriage		LC					
Pad width	mm	500	600	700	750	800	900
Weight	kg	23,600	23,850	24,100	24,200	24,500	24,800
Ground pressure	kg/cm²	0.60	0.51	0.44	0.41	0.39	0.35

Undercarriage		WLC					
Pad width	mm	500	600	700	750	800	900
Weight	kg	24,000	24,300	24,600	24,700	24,850	25,150
Ground pressure	kg/cm²	0.58	0.49	0.43	0.40	0.38	0.34

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

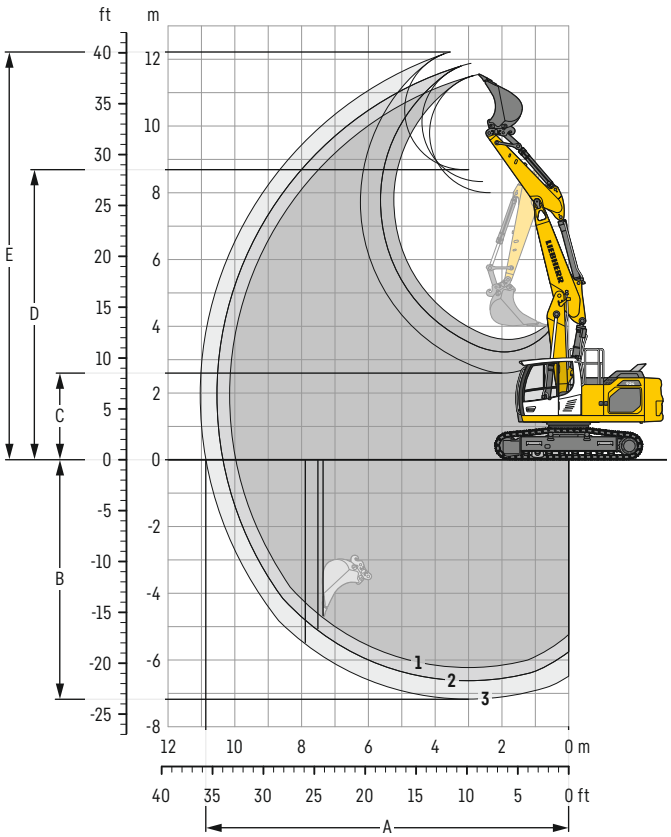
	Cutting width	Capacity ISO 7451	Weight[3]	Weight[4]	NLC undercarriage (with track pads 500 mm)						SLC undercarriage (with track pads 600 mm)						LC undercarriage (with track pads 600 mm)						WLC undercarriage (with track pads 600 mm)					
					Stick length (m)						Stick length (m)						Stick length (m)						Stick length (m)					
					without quick coupler			with quick coupler			without quick coupler			with quick coupler			without quick coupler			with quick coupler			without quick coupler			with quick coupler		
	mm	m³	kg	kg	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50
STD[1]	650	0.55	580	590	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850	0.75	620	630	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050	0.95	700	710	▲	▲	■	▲	■	■	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.15	810	830	■	■	△	▲	■	△	▲	■	▲	▲	■	■	▲	▲	■	▲	■	▲	▲	▲	▲	▲	▲	▲
	1,250	1.25	890	910	■	△	△	■	△	—	■	▲	■	■	■	△	▲	■	▲	▲	▲	■	▲	▲	■	▲	▲	▲
	1,400	1.35	850	880	■	△	—	△	△	—	■	■	△	▲	■	△	■	▲	■	■	▲	△	▲	▲	▲	▲	■	▲
	1,400	1.50	950	980	△	—	—	△	—	—	■	△	△	△	△	—	▲	■	△	■	△	△	■	▲	■	■	▲	△
	1,500	1.65	1,020	1,030	—	—	—	—	—	—	△	△	—	△	—	—	■	△	△	△	△	—	▲	■	△	▲	■	△
HD[2]	650	0.55	640	650	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850	0.75	695	705	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050	0.95	790	800	▲	▲	▲	▲	■	■	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.15	910	940	▲	■	△	■	△	△	▲	■	■	■	▲	△	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	■
	1,250	1.25	1,010	1,030	■	△	—	△	△	—	■	▲	△	▲	■	△	▲	■	■	■	▲	△	▲	▲	■	▲	■	▲
	1,400	1.35	970	990	△	△	—	△	—	—	▲	■	△	■	△	△	■	▲	△	■	■	△	▲	■	▲	▲	■	■
	1,400	1.50	1,090	1,120	△	—	—	—	—	—	■	△	—	△	△	—	▲	△	△	■	△	—	■	▲	△	■	■	△
	1,500	1.65	1,160	1,160	—	—	—	—	—	—	△	—	—	△	—	—	△	△	—	△	△	—	▲	■	△	■	△	△

* Indicated loads are based on ISO 10567, at maximum reach, and may be swung 360° on firm and even ground
1) Standard bucket with teeth Z 40
2) HD bucket with teeth Z 40
3) Bucket for direct mounting
4) Bucket for mounting to quick coupler SWA 48 (250 kg)
Other buckets available upon request

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

Backhoe bucket

with two-piece boom 5.90 m



Digging envelope

with quick coupler		1	2	3
Stick length	m	2.50	2.90	3.50
A Max. reach at ground level	m	9.97	10.36	10.87
B Max. digging depth	m	6.23	6.62	7.17
C Min. dumping height	m	3.61	3.23	2.60
D Max. dumping height	m	8.00	8.33	8.69
E Max. cutting height	m	11.55	11.88	12.22

Forces

without quick coupler		1	2	3
Stick digging force (ISO 6015)	kN	135	122	106
Bucket digging force (ISO 6015)	kN	173	173	173
Stick digging force (SAE J1179)	kN	129	117	103
Bucket digging force (SAE J1179)	kN	151	151	151

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 5.0 t, two-piece boom 5.90 m, stick 2.90 m, quick coupler SWA 48 (250 kg) and bucket 1.25 m³ (910 kg).

Undercarriage		NLC			
Pad width	mm	500	600	700	750
Weight	kg	24,100	24,350	24,600	24,700
Ground pressure	kg/cm²	0.62	0.52	0.45	0.42

Undercarriage		SLC					
Pad width	mm	500	600	700	750	800	900
Weight	kg	24,200	24,450	24,700	24,800	25,100	25,400
Ground pressure	kg/cm²	0.62	0.52	0.45	0.42	0.40	0.36

Undercarriage		LC					
Pad width	mm	500	600	700	750	800	900
Weight	kg	24,300	24,550	24,800	24,900	25,200	25,500
Ground pressure	kg/cm²	0.62	0.52	0.45	0.42	0.40	0.36

Undercarriage		WLC					
Pad width	mm	500	600	700	750	800	900
Weight	kg	24,700	25,000	25,300	25,400	25,550	25,850
Ground pressure	kg/cm²	0.60	0.51	0.44	0.41	0.39	0.35

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

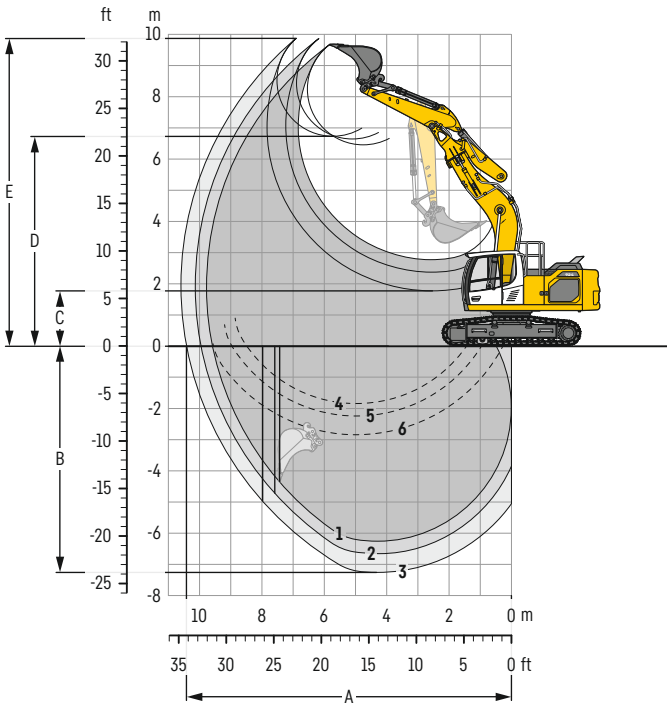
	Cutting width	Capacity ISO 7451	Weight[3]	Weight[4]	NLC undercarriage (with track pads 500 mm)						SLC undercarriage (with track pads 600 mm)						LC undercarriage (with track pads 600 mm)						WLC undercarriage (with track pads 600 mm)					
					Stick length (m)						Stick length (m)						Stick length (m)						Stick length (m)					
					without quick coupler			with quick coupler			without quick coupler			with quick coupler			without quick coupler			with quick coupler			without quick coupler			with quick coupler		
	mm	m³	kg	kg	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50
STD[1]	650	0.55	580	590	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850	0.75	620	630	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050	0.95	700	710	▲	▲	▲	▲	■	■	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.15	810	830	■	■	△	▲	△	△	▲	■	▲	▲	▲	■	▲	▲	■	▲	■	▲	▲	▲	▲	▲	▲	■
	1,250	1.25	890	910	■	△	△	△	△	—	■	▲	△	▲	■	△	▲	■	▲	■	▲	■	▲	▲	■	▲	▲	▲
	1,400	1.35	850	880	■	△	—	△	△	—	▲	■	△	▲	△	△	■	▲	■	■	▲	△	▲	▲	▲	▲	■	▲
	1,400	1.50	950	980	△	—	—	△	—	—	■	△	△	△	△	—	▲	■	△	■	△	△	■	▲	■	■	▲	△
	1,500	1.65	1,020	1,030	—	—	—	—	—	—	△	△	—	△	—	—	■	△	—	△	△	—	▲	■	△	▲	△	△
HD[2]	650	0.55	640	650	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850	0.75	695	705	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050	0.95	790	800	▲	■	▲	▲	■	■	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.15	910	940	▲	■	△	■	△	—	▲	■	■	■	▲	△	▲	▲	▲	▲	■	■	▲	▲	▲	▲	▲	■
	1,250	1.25	1,010	1,030	■	△	—	△	△	—	■	■	△	▲	■	△	▲	■	■	■	▲	△	▲	▲	■	▲	■	▲
	1,400	1.35	970	990	△	△	—	△	—	—	▲	■	△	■	△	△	■	▲	△	▲	■	△	▲	■	▲	▲	■	■
	1,400	1.50	1,090	1,120	△	—	—	—	—	—	△	△	—	△	△	—	■	△	△	■	△	—	■	▲	△	▲	■	△
	1,500	1.65	1,160	1,160	—	—	—	—	—	—	△	—	—	△	—	—	△	△	—	△	△	—	▲	■	△	■	△	△

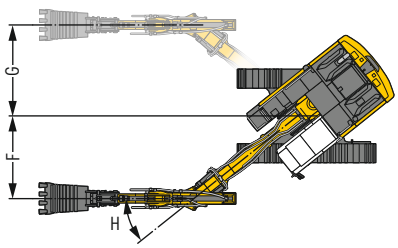
* Indicated loads are based on ISO 10567, at maximum reach, and may be swung 360° on firm and even ground
1) Standard bucket with teeth Z 40
2) HD bucket with teeth Z 40
3) Bucket for direct mounting
4) Bucket for mounting to quick coupler SWA 48 (250 kg)
Other buckets available upon request

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

Backhoe bucket

with mono boom offset 5.65 m





Digging envelope

with quick coupler		1	2	3
Stick length	m	2.50	2.90	3.50
A Max. reach at ground level	m	9.58	9.95	10.42
B Max. digging depth	m	6.26	6.66	7.26
C Min. dumping height	m	2.77	2.37	1.77
D Max. dumping height	m	6.45	6.64	6.72
E Max. cutting height	m	9.66	9.85	9.87
F Max. offset right	m		2.92	
G Max. offset left	m		2.92	
H Max. offset angle	°		38.5	

1 with stick 2.50 m
2 with stick 2.90 m
3 with stick 3.50 m
with set straight boom

4 with stick 2.50 m
5 with stick 2.90 m
6 with stick 3.50 m
at max. equipment offset with vertical ditch walls

Forces

without quick coupler		1	2	3
Stick digging force (ISO 6015)	kN	135	122	106
Bucket digging force (ISO 6015)	kN	173	173	173
Stick digging force (SAE J1179)	kN	129	117	103
Bucket digging force (SAE J1179)	kN	151	151	151

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 5.0 t, mono boom offset 5.65 m, stick 2.90 m, quick coupler SWA 48 (250 kg) and bucket 1.25 m³ (910 kg).

Undercarriage		NLC			
Pad width	mm	500	600	700	750
Weight	kg	24,300	24,550	24,800	24,900
Ground pressure	kg/cm²	0.62	0.52	0.45	0.42

Undercarriage		SLC					
Pad width	mm	500	600	700	750	800	900
Weight	kg	24,400	24,650	24,900	25,000	25,300	25,600
Ground pressure	kg/cm²	0.62	0.52	0.45	0.43	0.40	0.36

Undercarriage		LC					
Pad width	mm	500	600	700	750	800	900
Weight	kg	24,500	24,750	25,000	25,100	25,400	25,700
Ground pressure	kg/cm²	0.63	0.53	0.46	0.43	0.41	0.36

Undercarriage		WLC					
Pad width	mm	500	600	700	750	800	900
Weight	kg	24,900	25,200	25,500	25,600	25,750	26,050
Ground pressure	kg/cm²	0.61	0.51	0.44	0.42	0.39	0.35

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

	Cutting width	Capacity ISO 7451	Weight[3]	Weight[4]	NLC undercarriage (with track pads 500 mm)						SLC undercarriage (with track pads 600 mm)						LC undercarriage (with track pads 600 mm)						WLC undercarriage (with track pads 600 mm)					
					Stick length (m)						Stick length (m)						Stick length (m)						Stick length (m)					
					without quick coupler			with quick coupler			without quick coupler			with quick coupler			without quick coupler			with quick coupler			without quick coupler			with quick coupler		
	mm	m³	kg	kg	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50	2.50	2.90	3.50
STD[1]	650	0.55	580	590	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850	0.75	620	630	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050	0.95	700	710	▲	▲	■	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.15	810	830	■	■	△	▲	■	△	▲	■	▲	▲	■	■	▲	▲	■	▲	▲	■	▲	▲	▲	▲	▲	▲
	1,250	1.25	890	910	■	△	△	■	△	—	■	▲	■	■	■	△	▲	■	▲	▲	■	■	▲	▲	■	▲	▲	■
	1,400	1.35	850	880	■	△	△	△	△	—	■	▲	△	▲	■	△	▲	■	■	■	▲	■	▲	▲	■	▲	▲	▲
	1,400	1.50	950	980	△	—	—	△	—	—	■	△	△	■	△	—	▲	■	△	▲	△	△	▲	■	■	■	▲	■
	1,500	1.65	1,020	1,030	—	—	—	—	—	—	△	△	—	△	—	—	■	△	△	■	△	—	■	■	△	▲	■	△
HD[2]	650	0.55	640	650	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850	0.75	695	705	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050	0.95	790	800	▲	▲	▲	▲	■	■	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.15	910	940	▲	■	△	■	△	△	▲	■	▲	■	▲	■	▲	▲	■	▲	■	▲	▲	▲	▲	▲	▲	▲
	1,250	1.25	1,010	1,030	■	△	△	△	△	—	■	▲	△	▲	■	△	▲	■	▲	■	▲	■	▲	▲	■	▲	▲	■
	1,400	1.35	970	990	△	△	—	△	△	—	▲	■	△	▲	△	△	■	▲	■	■	▲	△	▲	▲	■	▲	■	▲
	1,400	1.50	1,090	1,120	△	—	—	—	—	—	■	△	—	△	△	—	▲	■	△	■	△	△	■	▲	■	■	▲	△
	1,500	1.65	1,160	1,160	—	—	—	—	—	—	△	△	—	△	—	—	■	△	—	△	△	—	▲	■	△	▲	■	△

* Indicated loads are based on ISO 10567, at maximum reach, and may be swung 360° on firm and even ground
1) Standard bucket with teeth Z 40
2) HD bucket with teeth Z 40
3) Bucket for direct mounting
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Other buckets available upon request

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

Lift capacities

with mono boom 5.70 m, counterweight 5.0 t and track pads 500 mm / 600 mm

Stick 2.50 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m
NLC[1]	7.5											5.1	6.0*	5.8
	6.0					4.8	6.1*					3.7	5.6*	7.0
	4.5			7.0	7.8*	4.6	6.7*	3.2	5.6			3.1	5.4	7.7
	3.0			6.4	10.0*	4.3	7.6*	3.1	5.5			2.8	5.0	8.0
	1.5			6.0	11.7*	4.1	7.5	3.0	5.4			2.7	4.8	8.1
	0			5.8	11.5	3.9	7.3	3.0	5.3			2.8	5.0	7.9
	-1.5	10.7	12.0*	5.7	11.5	3.9	7.3					3.0	5.5	7.3
	-3.0	10.9	15.4*	5.8	11.1*	4.0	7.4					3.7	6.8	6.4
	-4.5			6.2	8.2*							5.6	7.5*	4.8
SLC	7.5											5.7	6.0*	5.8
	6.0					5.3	6.1*					4.2	5.6*	7.0
	4.5			7.8*	7.8*	5.1	6.7*	3.6	5.7			3.5	5.5	7.7
	3.0			7.3	10.0*	4.9	7.6*	3.5	5.6			3.2	5.0	8.0
	1.5			6.8	11.7*	4.6	7.6	3.4	5.4			3.1	4.9	8.1
	0			6.6	11.6	4.5	7.4	3.3	5.4			3.1	5.0	7.9
	-1.5	12.0*	12.0*	6.6	11.6	4.4	7.3					3.4	5.5	7.3
	-3.0	12.8	15.4*	6.7	11.1*	4.5	7.4					4.2	6.8	6.4
	-4.5			7.0	8.2*							6.4	7.5*	4.8
LC	7.5											6.0*	6.0*	5.8
	6.0					5.7	6.1*					4.4	5.6*	7.0
	4.5			7.8*	7.8*	5.5	6.7*	3.9	5.7			3.7	5.5*	7.7
	3.0			7.9	10.0*	5.2	7.6*	3.8	5.6			3.4	5.0	8.0
	1.5			7.4	11.7*	5.0	7.6	3.7	5.5			3.3	4.9	8.1
	0			7.1	11.7	4.8	7.4	3.6	5.4			3.4	5.0	7.9
	-1.5	12.0*	12.0*	7.1	11.6	4.8	7.4					3.7	5.6	7.3
	-3.0	14.1	15.4*	7.2	11.1*	4.9	7.5					4.5	6.8	6.4
	-4.5			7.6	8.2*							6.9	7.5*	4.8
WLC	7.5											6.0*	6.0*	5.8
	6.0					6.1*	6.1*					4.9	5.6*	7.0
	4.5			7.8*	7.8*	6.0	6.7*	4.3	6.2			4.1	5.5*	7.7
	3.0			8.7	10.0*	5.8	7.6*	4.2	6.1			3.8	5.5	8.0
	1.5			8.2	11.7*	5.5	8.3	4.0	5.9			3.6	5.3	8.1
	0			8.0	12.4*	5.3	8.1	4.0	5.9			3.7	5.5	7.9
	-1.5	12.0*	12.0*	8.0	12.2*	5.3	8.1					4.1	6.1	7.3
	-3.0	15.4*	15.4*	8.1	11.1*	5.4	8.2					5.0	7.5	6.4
	-4.5			8.2*	8.2*							7.5*	7.5*	4.8

Stick 2.90 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m
NLC[1]	7.5					4.8	5.6*					4.5	5.0*	6.3
	6.0					4.8	5.6*					3.4	4.7*	7.4
	4.5			7.1*	7.1*	4.6	6.2*	3.3	5.7			2.9	4.6*	8.1
	3.0			6.5	9.3*	4.3	7.2*	3.1	5.5			2.6	4.6	8.4
	1.5			6.0	11.2*	4.1	7.5	3.0	5.4			2.5	4.5	8.5
	0	6.1*	6.1*	5.7	11.5	3.9	7.3	2.9	5.2			2.6	4.6	8.2
	-1.5	10.4	11.3*	5.6	11.4	3.8	7.2	2.9	5.2			2.8	5.0	7.7
	-3.0	10.6	16.3*	5.7	11.5*	3.9	7.2					3.3	6.0	6.8
	-4.5	11.0	12.9*	6.0	9.2*							4.7	7.3*	5.4
SLC	7.5					5.4	5.6*					5.0	5.0*	6.3
	6.0					5.4	5.6*					3.8	4.7*	7.4
	4.5			7.1*	7.1*	5.2	6.2*	3.6	5.7			3.2	4.6*	8.1
	3.0			7.4	9.3*	4.9	7.2*	3.5	5.6			3.0	4.7	8.4
	1.5			6.8	11.2*	4.6	7.6	3.4	5.4			2.8	4.5	8.5
	0	6.1*	6.1*	6.5	11.6	4.4	7.3	3.3	5.3			2.9	4.7	8.2
	-1.5	11.3*	11.3*	6.5	11.5	4.4	7.3	3.3	5.3			3.1	5.1	7.7
	-3.0	12.5	16.3*	6.6	11.5*	4.4	7.3					3.7	6.1	6.8
	-4.5	12.9*	12.9*	6.8	9.2*							5.3	7.3*	5.4
LC	7.5					5.6*	5.6*					5.0*	5.0*	6.3
	6.0					5.6*	5.6*					4.1	4.7*	7.4
	4.5			7.1*	7.1*	5.5	6.2*	3.9	5.7			3.5	4.6*	8.1
	3.0			7.9	9.3*	5.2	7.2*	3.8	5.6			3.2	4.7	8.4
	1.5			7.4	11.2*	5.0	7.6	3.6	5.4			3.1	4.6	8.5
	0	6.1*	6.1*	7.1	11.6	4.8	7.4	3.5	5.3			3.1	4.7	8.2
	-1.5	11.3*	11.3*	7.0	11.5	4.7	7.3	3.5	5.3			3.4	5.1	7.7
	-3.0	13.8	16.3*	7.1	11.5*	4.7	7.3					4.0	6.1	6.8
	-4.5	12.9*	12.9*	7.4	9.2*							5.7	7.3*	5.4
WLC	7.5					5.6*	5.6*					5.0*	5.0*	6.3
	6.0					5.6*	5.6*					4.5	4.7*	7.4
	4.5			7.1*	7.1*	6.1	6.2*	4.3	5.8*			3.8	4.6*	8.1
	3.0			8.8	9.3*	5.8	7.2*	4.2	6.1			3.5	4.8*	8.4
	1.5			8.3	11.2*	5.5	8.2*	4.0	5.9			3.4	4.9	8.5
	0	6.1*	6.1*	8.0	12.2*	5.3	8.1	3.9	5.8			3.4	5.1	8.2
	-1.5	11.3*	11.3*	7.9	12.3*	5.2	8.0	3.9	5.8			3.7	5.5	7.7
	-3.0	15.9	16.3*	8.0	11.5*	5.3	8.0					4.4	6.6	6.8
	-4.5	12.9*	12.9*	8.2	9.2*							6.3	7.3*	5.4

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

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads. Indicated loads are based on ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 325 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.
According to European Standard, EN 474-5: In the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic safety check valves on hoist cylinders and stick cylinder(s), when they are used for lifting operations which require the use of lifting accessories.
Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.
[1] Values are calculated with 500 mm wide track pads for the NLC-Undercarriage

Stick 3.50 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m			m
NLC[1]	7.5										3.9*	3.9*	6.9
	6.0							3.4	4.8*		3.0	3.7*	7.9
	4.5					4.7	5.5*	3.3	5.3*		2.6	3.7*	8.5
	3.0	12.2	12.8*	6.7	8.2*	4.4	6.6*	3.1	5.5		2.4	3.8*	8.9
	1.5	6.7*	6.7*	6.0	10.4*	4.1	7.5	3.0	5.3		2.3	4.1*	8.9
	0	7.8*	7.8*	5.7	11.4	3.8	7.2	2.8	5.2		2.3	4.2	8.7
	-1.5	10.2	11.2*	5.5	11.3	3.7	7.1	2.8	5.1		2.5	4.5	8.2
	-3.0	10.3	16.2*	5.5	11.3	3.7	7.1				2.8	5.2	7.4
	-4.5	10.7	14.7*	5.7	10.3*	3.9	7.3				3.8	7.1	6.1
SLC	7.5										3.9*	3.9*	6.9
	6.0							3.8	4.8*		3.4	3.7*	7.9
	4.5					5.2	5.5*	3.7	5.3*		2.9	3.7*	8.5
	3.0	12.8*	12.8*	7.6	8.2*	4.9	6.6*	3.5	5.6		2.7	3.8*	8.9
	1.5	6.7*	6.7*	6.9	10.4*	4.6	7.6	3.4	5.4		2.6	4.1*	8.9
	0	7.8*	7.8*	6.5	11.6	4.4	7.3	3.2	5.3		2.6	4.2	8.7
	-1.5	11.2*	11.2*	6.4	11.4	4.3	7.2	3.2	5.2		2.8	4.6	8.2
	-3.0	12.2	16.2*	6.4	11.4	4.3	7.2				3.2	5.3	7.4
	-4.5	12.6	14.7*	6.6	10.3*	4.4	7.3				4.3	7.1	6.1
LC	7.5										3.9*	3.9*	6.9
	6.0							4.0	4.8*		3.6	3.7*	7.9
	4.5					5.5*	5.5*	3.9	5.3*		3.1	3.7*	8.5
	3.0	12.8*	12.8*	8.1	8.2*	5.3	6.6*	3.8	5.6		2.9	3.8*	8.9
	1.5	6.7*	6.7*	7.5	10.4*	5.0	7.6	3.6	5.4		2.8	4.1*	8.9
	0	7.8*	7.8*	7.1	11.6	4.7	7.3	3.5	5.3		2.8	4.2	8.7
	-1.5	11.2*	11.2*	6.9	11.4	4.6	7.2	3.4	5.2		3.0	4.6	8.2
	-3.0	13.5	16.2*	6.9	11.4	4.6	7.2				3.5	5.3	7.4
	-4.5	13.8	14.7*	7.1	10.3*	4.8	7.4				4.6	7.2*	6.1
WLC	7.5										3.9*	3.9*	6.9
	6.0							4.4	4.8*		3.7*	3.7*	7.9
	4.5					5.5*	5.5*	4.3	5.3*		3.5	3.7*	8.5
	3.0	12.8*	12.8*	8.2*	8.2*	5.8	6.6*	4.2	5.8*		3.2	3.8*	8.9
	1.5	6.7*	6.7*	8.3	10.4*	5.5	7.7*	4.0	5.9		3.1	4.1*	8.9
	0	7.8*	7.8*	7.9	11.8*	5.3	8.0	3.9	5.7		3.1	4.6*	8.7
	-1.5	11.2*	11.2*	7.8	12.2*	5.1	7.9	3.8	5.7		3.3	5.0	8.2
	-3.0	15.5	16.2*	7.8	11.8*	5.1	7.9				3.9	5.8	7.4
	-4.5	14.7*	14.7*	8.0	10.3*	5.3	7.4*				5.2	7.2*	6.1

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

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads. Indicated loads are based on ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 325 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.
According to European Standard, EN 474-5: In the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic safety check valves on hoist cylinders and stick cylinder(s), when they are used for lifting operations which require the use of lifting accessories.
Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.
[1] Values are calculated with 500 mm wide track pads for the NLC-Undercarriage

Lift capacities

with mono boom straight 5.90 m, counterweight 5.0 t and track pads 500 mm / 600 mm

Stick 2.50 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m
NLC[1]	9.0											7.5*	7.5*	4.4
	7.5			7.5	7.8*	4.7	7.2*					4.4	6.1*	6.2
	6.0			7.3	8.3*	4.7	7.2*					3.4	5.6*	7.3
	4.5			6.8	9.7*	4.5	7.8*	3.2	5.6			2.9	5.0	8.0
	3.0			6.2	11.4*	4.2	7.6	3.1	5.5			2.6	4.6	8.3
	1.5			5.8	11.6	4.0	7.4	3.0	5.3			2.5	4.5	8.4
	0			5.7	11.4	3.9	7.2	2.9	5.3			2.6	4.7	8.2
	-1.5	9.0*	9.0*	5.7	11.1*	3.9	7.2	2.9	5.3			2.9	5.1	7.7
	-3.0			5.8	9.1*	4.0	6.9*					3.4	5.5*	6.8
	-4.5													
SLC	9.0											7.5*	7.5*	4.4
	7.5			7.8*	7.8*	5.3	7.2*					4.9	6.1*	6.2
	6.0			8.2	8.3*	5.2	7.2*					3.8	5.6*	7.3
	4.5			7.7	9.7*	5.0	7.8*	3.6	5.6			3.2	5.1	8.0
	3.0			7.1	11.4*	4.8	7.7	3.5	5.5			3.0	4.7	8.3
	1.5			6.7	11.7	4.5	7.5	3.4	5.4			2.9	4.6	8.4
	0			6.5	11.5	4.4	7.3	3.3	5.3			3.0	4.7	8.2
	-1.5	9.0*	9.0*	6.5	11.1*	4.4	7.3	3.3	5.3			3.2	5.2	7.7
	-3.0			6.7	9.1*	4.5	6.9*					3.9	5.5*	6.8
	-4.5													
LC	9.0											7.5*	7.5*	4.4
	7.5			7.8*	7.8*	5.6	7.2*					5.3	6.1*	6.2
	6.0			8.3*	8.3*	5.6	7.2*					4.0	5.6*	7.3
	4.5			8.3	9.7*	5.4	7.8*	3.8	5.7			3.4	5.1	8.0
	3.0			7.6	11.4*	5.1	7.7	3.7	5.5			3.2	4.7	8.3
	1.5			7.2	11.7	4.9	7.5	3.6	5.4			3.1	4.6	8.4
	0			7.0	11.6	4.7	7.3	3.5	5.3			3.2	4.7	8.2
	-1.5	9.0*	9.0*	7.1	11.1*	4.7	7.3	3.6	5.3			3.5	5.2	7.7
	-3.0			7.2	9.1*	4.8	6.9*					4.2	5.5*	6.8
	-4.5													
WLC	9.0											7.5*	7.5*	4.4
	7.5			7.8*	7.8*	6.2	7.2*					5.8	6.1*	6.2
	6.0			8.3*	8.3*	6.1	7.2*					4.4	5.6*	7.3
	4.5			9.2	9.7*	5.9	7.8*	4.2	6.1			3.8	5.5*	8.0
	3.0			8.5	11.4*	5.6	8.4	4.1	6.0			3.5	5.1	8.3
	1.5			8.1	12.4*	5.4	8.2	4.0	5.9			3.4	5.0	8.4
	0			7.9	12.2*	5.3	8.0	3.9	5.8			3.5	5.1	8.2
	-1.5	9.0*	9.0*	7.9	11.1*	5.3	8.0	3.9	5.8			3.8	5.7	7.7
	-3.0			8.1	9.1*	5.4	6.9*					4.6	5.5*	6.8
	-4.5													

Stick 2.90 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m
NLC[1]	9.0			7.3*	7.3*							6.1*	6.1*	5.1
	7.5					4.8	6.7*					3.9	5.1*	6.7
	6.0			7.0*	7.0*	4.7	6.8*	3.3	5.7			3.1	4.8*	7.8
	4.5	12.9*	12.9*	6.9	9.1*	4.5	7.4*	3.2	5.6			2.6	4.6	8.4
	3.0			6.3	10.9*	4.2	7.7	3.1	5.4			2.4	4.3	8.7
	1.5			5.8	11.6	4.0	7.4	2.9	5.3			2.3	4.2	8.8
	0			5.6	11.3	3.8	7.2	2.8	5.2			2.4	4.3	8.6
	-1.5	8.7*	8.7*	5.6	11.3	3.8	7.1	2.8	5.2			2.6	4.7	8.1
	-3.0	10.7	12.3*	5.7	9.7*	3.8	7.2					3.1	5.3*	7.3
	-4.5													
SLC	9.0			7.3*	7.3*							6.1*	6.1*	5.1
	7.5					5.3	6.7*					4.4	5.1*	6.7
	6.0			7.0*	7.0*	5.3	6.8*	3.7	5.7			3.4	4.8*	7.8
	4.5	12.9*	12.9*	7.8	9.1*	5.1	7.4*	3.6	5.6			3.0	4.6*	8.4
	3.0			7.2	10.9*	4.8	7.7	3.5	5.5			2.7	4.3	8.7
	1.5			6.7	11.7	4.5	7.4	3.3	5.3			2.7	4.2	8.8
	0			6.4	11.4	4.4	7.3	3.2	5.3			2.7	4.4	8.6
	-1.5	8.7*	8.7*	6.4	11.4	4.3	7.2	3.2	5.2			2.9	4.7	8.1
	-3.0	12.3*	12.3*	6.5	9.7*	4.4	7.3					3.5	5.3*	7.3
	-4.5													
LC	9.0			7.3*	7.3*							6.1*	6.1*	5.1
	7.5					5.7	6.7*					4.6	5.1*	6.7
	6.0			7.0*	7.0*	5.6	6.8*	3.9	5.7			3.7	4.8*	7.8
	4.5	12.9*	12.9*	8.4	9.1*	5.4	7.4*	3.8	5.7			3.2	4.6*	8.4
	3.0			7.7	10.9*	5.1	7.8	3.7	5.5			2.9	4.4	8.7
	1.5			7.2	11.8	4.9	7.5	3.6	5.4			2.9	4.3	8.8
	0			7.0	11.5	4.7	7.3	3.5	5.3			2.9	4.4	8.6
	-1.5	8.7*	8.7*	7.0	11.4*	4.6	7.2	3.5	5.3			3.2	4.8	8.1
	-3.0	12.3*	12.3*	7.1	9.7*	4.7	7.3					3.7	5.3*	7.3
	-4.5													
WLC	9.0			7.3*	7.3*							6.1*	6.1*	5.1
	7.5					6.2	6.7*					5.1	5.1*	6.7
	6.0			7.0*	7.0*	6.2	6.8*	4.3	6.0*			4.0	4.8*	7.8
	4.5	12.9*	12.9*	9.1*	9.1*	6.0	7.4*	4.2	6.1			3.5	4.6*	8.4
	3.0			8.6	10.9*	5.7	8.2*	4.1	6.0			3.2	4.7*	8.7
	1.5			8.1	12.2*	5.4	8.2	3.9	5.8			3.2	4.6	8.8
	0			7.8	12.3*	5.2	8.0	3.9	5.7			3.2	4.8	8.6
	-1.5	8.7*	8.7*	7.8	11.4*	5.2	7.9	3.8	5.7			3.5	5.2	8.1
	-3.0	12.3*	12.3*	7.9	9.7*	5.2	7.4*					4.1	5.3*	7.3
	-4.5													

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

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads. 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 325 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.
According to European Standard, EN 474-5: In the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic safety check valves on hoist cylinders and stick cylinder(s), when they are used for lifting operations which require the use of lifting accessories.
Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.
[1] Values are calculated with 500 mm wide track pads for the NLC-Undercarriage

Stick 3.50 m

Under-carriage	Height m	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		m
NLC[1]	9.0											4.5*	4.5*	5.9
	7.5					4.9	5.7*					3.4	3.9*	7.4
	6.0					4.8	6.0*	3.3	5.5*			2.7	3.7*	8.3
	4.5			7.1*	7.1*	4.6	6.9*	3.2	5.6			2.4	3.7*	8.9
	3.0			6.5	10.1*	4.3	7.7	3.1	5.4	2.3	4.1	2.2	3.7*	9.2
	1.5			5.9	11.6*	4.0	7.4	2.9	5.3	2.2	4.0	2.1	3.8	9.3
	0	5.4*	5.4*	5.5	11.3	3.8	7.1	2.8	5.1	2.2	4.0	2.1	3.9	9.1
	−1.5	8.9*	8.9*	5.4	11.2	3.7	7.0	2.7	5.1			2.3	4.2	8.6
	−3.0	10.3	13.8*	5.5	10.5*	3.7	7.0	2.8	5.1			2.6	4.8	7.9
	−4.5			5.7	7.9*	3.8	5.8*					3.4	4.7*	6.7
SLC	9.0											4.5*	4.5*	5.9
	7.5					5.5	5.7*					3.8	3.9*	7.4
	6.0					5.4	6.0*	3.7	5.5*			3.1	3.7*	8.3
	4.5			7.1*	7.1*	5.1	6.9*	3.6	5.7			2.7	3.7*	8.9
	3.0			7.3	10.1*	4.8	7.7*	3.4	5.5	2.6	4.1	2.5	3.7*	9.2
	1.5			6.7	11.6*	4.5	7.5	3.3	5.3	2.5	4.1	2.4	3.9	9.3
	0	5.4*	5.4*	6.4	11.4	4.3	7.2	3.2	5.2	2.5	4.0	2.4	3.9	9.1
	−1.5	8.9*	8.9*	6.3	11.3	4.2	7.1	3.1	5.1			2.6	4.2	8.6
	−3.0	12.2	13.8*	6.3	10.5*	4.2	7.1	3.2	5.2			3.0	4.9	7.9
	−4.5			6.5	7.9*	4.4	5.8*					3.9	4.7*	6.7
LC	9.0											4.5*	4.5*	5.9
	7.5					5.7*	5.7*					3.9*	3.9*	7.4
	6.0					5.7	6.0*	3.9	5.5*			3.3	3.7*	8.3
	4.5			7.1*	7.1*	5.5	6.9*	3.8	5.7			2.9	3.7*	8.9
	3.0			7.9	10.1*	5.2	7.7*	3.7	5.5	2.8	4.1	2.7	3.7*	9.2
	1.5			7.3	11.6*	4.8	7.5	3.5	5.3	2.7	4.1	2.6	3.9	9.3
	0	5.4*	5.4*	6.9	11.4	4.6	7.2	3.4	5.2	2.7	4.0	2.6	4.0	9.1
	−1.5	8.9*	8.9*	6.8	11.3	4.5	7.1	3.4	5.2			2.8	4.3	8.6
	−3.0	13.4	13.8*	6.9	10.5*	4.6	7.1	3.4	5.2			3.2	4.9	7.9
	−4.5			7.1	7.9*	4.7	5.8*					4.2	4.7*	6.7
WLC	9.0											4.5*	4.5*	5.9
	7.5					5.7*	5.7*					3.9*	3.9*	7.4
	6.0					6.0*	6.0*	4.3	5.5*			3.6	3.7*	8.3
	4.5			7.1*	7.1*	6.0	6.9*	4.2	6.1*			3.2	3.7*	8.9
	3.0			8.8	10.1*	5.7	7.7*	4.1	6.0	3.1	4.5	2.9	3.7*	9.2
	1.5			8.1	11.6*	5.4	8.2	3.9	5.8	3.0	4.4	2.9	3.9*	9.3
	0	5.4*	5.4*	7.8	12.2*	5.2	7.9	3.8	5.7	3.0	4.4	2.9	4.3*	9.1
	−1.5	8.9*	8.9*	7.7	11.8*	5.1	7.8	3.7	5.6			3.1	4.6	8.6
	−3.0	13.8*	13.8*	7.7	10.5*	5.1	7.8	3.8	5.7			3.6	5.3*	7.9
	−4.5			7.9*	7.9*	5.3	5.8*					4.6	4.7*	6.7

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

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads. Indicated loads are based on ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 325 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.
According to European Standard, EN 474-5: In the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic safety check valves on hoist cylinders and stick cylinder(s), when they are used for lifting operations which require the use of lifting accessories.
Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.
[1] Values are calculated with 500 mm wide track pads for the NLC-Undercarriage

Lift capacities

with two-piece boom 5.90 m, counterweight 5.0 t and track pads 500 mm / 600 mm

Stick 2.50 m

Undercarriage	m	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m
NLC[1]	9.0											7.5*	7.5*	4.3
	7.5			7.8	8.4*	4.7	6.9*					4.5	6.1*	6.2
	6.0	7.8*	7.8*	7.7	8.9*	4.9	8.0*					3.4	5.6*	7.3
	4.5	13.3	15.8*	7.5*	10.7*	4.9	8.1	3.2	5.7			2.8	5.1	8.0
	3.0	12.9	15.8*	7.1	12.0*	4.7	7.9	3.1	5.6			2.6	4.7	8.3
	1.5	11.4	17.4*	6.5	11.9	4.4	7.9	3.0	5.5			2.5	4.5	8.4
	0	10.8	18.8*	6.1	12.0	4.1	7.6	2.9	5.3			2.6	4.7	8.1
	-1.5	10.6	19.1*	5.9	11.8	3.9	7.4	2.9	5.3			2.8	5.1*	7.6
	-3.0	10.8	17.5*	5.9	11.6*	3.9	7.1*					3.4	4.5*	6.6
	-4.5													
SLC	9.0											7.5*	7.5*	4.3
	7.5			8.4*	8.4*	5.3	6.9*					5.0	6.1*	6.2
	6.0	7.8*	7.8*	8.5	8.9*	5.5	8.0*					3.8	5.6*	7.3
	4.5	15.0	15.8*	8.2	10.7*	5.5	8.1	3.6	5.7			3.2	5.1	8.0
	3.0	14.4	15.8*	8.1	12.0*	5.2	8.0	3.6	5.7			2.9	4.7	8.3
	1.5	13.4	17.4*	7.4	12.0	4.9	8.0	3.4	5.5			2.8	4.6	8.4
	0	12.7	18.8*	6.9	12.1	4.7	7.7	3.3	5.4			2.9	4.7	8.1
	-1.5	12.6	19.1*	6.7	11.9	4.5	7.5	3.3	5.3			3.2	5.1*	7.6
	-3.0	12.7	17.5*	6.7	11.6*	4.4	7.1*					3.9	4.5*	6.6
	-4.5													
LC	9.0											7.5*	7.5*	4.3
	7.5			8.4*	8.4*	5.7	6.9*					5.4	6.1*	6.2
	6.0	7.8*	7.8*	8.9*	8.9*	5.8	8.0*					4.0	5.6*	7.3
	4.5	15.8*	15.8*	8.7	10.7*	5.8	8.2	3.9	5.7			3.4	5.1	8.0
	3.0	15.4	15.8*	8.5	12.0*	5.6	8.0	3.8	5.7			3.1	4.7	8.3
	1.5	14.7	17.4*	8.0	12.0	5.3	8.0	3.7	5.5			3.1	4.6	8.4
	0	14.0	18.8*	7.5	12.1	5.0	7.7	3.5	5.4			3.1	4.8	8.1
	-1.5	13.8	19.1*	7.3	11.9	4.8	7.5	3.5	5.3			3.4	5.1*	7.6
	-3.0	14.0	17.5*	7.3	11.6*	4.8	7.1*					4.2	4.5*	6.6
	-4.5													
WLC	9.0											7.5*	7.5*	4.3
	7.5			8.4*	8.4*	6.2	6.9*					5.9	6.1*	6.2
	6.0	7.8*	7.8*	8.9*	8.9*	6.4	8.0*					4.5	5.6*	7.3
	4.5	15.8*	15.8*	9.5	10.7*	6.3	8.4*	4.3	6.2			3.8	5.5*	8.0
	3.0	15.8*	15.8*	9.3	12.0*	6.1	8.6	4.2	6.2			3.5	5.1	8.3
	1.5	16.9	17.4*	8.9	12.3*	5.8	8.5	4.1	6.0			3.4	5.0	8.4
	0	16.1	18.8*	8.4	12.3*	5.6	8.4	3.9	5.9			3.5	5.2	8.1
	-1.5	16.0	19.1*	8.2	12.5*	5.4	8.2	3.9	5.7*			3.8	5.1*	7.6
	-3.0	16.1	17.5*	8.2	11.6*	5.3	7.1*					4.5*	4.5*	6.6
	-4.5													

Stick 2.90 m

Undercarriage	m	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m
NLC[1]	9.0			7.2*	7.2*							6.0*	6.0*	5.0
	7.5			7.1*	7.1*	4.9	6.8*					3.9	5.1*	6.7
	6.0			7.5*	7.5*	5.0	7.4*	3.3	5.7			3.1	4.7*	7.7
	4.5	13.4	14.5*	7.5	10.1*	5.0	8.1	3.3	5.7			2.6	4.6*	8.3
	3.0	12.8	15.8*	7.3	11.6*	4.7	7.9	3.2	5.6			2.4	4.3	8.7
	1.5	11.7	16.9*	6.6	11.9	4.4	7.8	3.1	5.5			2.3	4.2	8.7
	0	10.8	18.7*	6.1	11.9	4.1	7.6	2.9	5.3			2.3	4.3	8.5
	-1.5	10.5	19.2*	5.8	11.7	3.9	7.4	2.8	5.2			2.5	4.7	8.0
	-3.0	10.6	18.1*	5.8	11.7	3.8	7.3					3.0	4.0*	7.2
	-4.5	11.0	13.6*	5.9	7.7*							5.1	6.3*	4.9
SLC	9.0			7.2*	7.2*							6.0*	6.0*	5.0
	7.5			7.1*	7.1*	5.5	6.8*					4.4	5.1*	6.7
	6.0			7.5*	7.5*	5.6	7.4*	3.7	5.7*			3.4	4.7*	7.7
	4.5	14.5*	14.5*	8.2	10.1*	5.5	8.1*	3.7	5.8			3.0	4.6*	8.3
	3.0	14.4	15.8*	8.0	11.6*	5.3	8.0	3.6	5.7			2.7	4.4	8.7
	1.5	13.7	16.9*	7.5	11.9	4.9	7.9	3.5	5.6			2.6	4.3	8.7
	0	12.7	18.7*	6.9	11.9	4.7	7.7	3.3	5.4			2.7	4.4	8.5
	-1.5	12.4	19.2*	6.7	11.9	4.5	7.5	3.2	5.3			2.9	4.8	8.0
	-3.0	12.5	18.1*	6.6	11.8	4.4	7.4					3.4	4.0*	7.2
	-4.5	12.9	13.6*	6.7	7.7*							5.9	6.3*	4.9
LC	9.0			7.2*	7.2*							6.0*	6.0*	5.0
	7.5			7.1*	7.1*	5.8	6.8*					4.7	5.1*	6.7
	6.0			7.5*	7.5*	5.9	7.4*	3.9	5.7*			3.7	4.7*	7.7
	4.5	14.5*	14.5*	8.7	10.1*	5.8	8.1*	3.9	5.8			3.2	4.6*	8.3
	3.0	15.4	15.8*	8.5	11.6*	5.6	8.0	3.9	5.7			2.9	4.4	8.7
	1.5	15.0	16.9*	8.1	12.0	5.3	7.9	3.7	5.6			2.8	4.3	8.7
	0	14.0	18.7*	7.5	12.0	5.0	7.7	3.5	5.4			2.9	4.4	8.5
	-1.5	13.7	19.2*	7.2	11.9	4.8	7.5	3.4	5.3			3.1	4.8	8.0
	-3.0	13.8	18.1*	7.2	11.9	4.7	7.4					3.7	4.0*	7.2
	-4.5	13.6*	13.6*	7.3	7.7*							6.3*	6.3*	4.9
WLC	9.0			7.2*	7.2*							6.0*	6.0*	5.0
	7.5			7.1*	7.1*	6.3	6.8*					5.1*	5.1*	6.7
	6.0			7.5*	7.5*	6.4	7.4*	4.3	5.7*			4.1	4.7*	7.7
	4.5	14.5*	14.5*	9.5	10.1*	6.3	8.1*	4.3	6.3			3.5	4.6*	8.3
	3.0	15.8*	15.8*	9.2	11.6*	6.2	8.5	4.2	6.2			3.2	4.7*	8.7
	1.5	16.9	16.9*	9.0	12.2*	5.8	8.4	4.1	6.0			3.1	4.7	8.7
	0	16.2	18.7*	8.4	12.2*	5.6	8.4	3.9	5.9			3.2	4.8	8.5
	-1.5	15.9	19.2*	8.1	12.3*	5.4	8.2	3.8	5.8			3.5	4.9*	8.0
	-3.0	15.9	18.1*	8.1	12.0*	5.3	8.0*					4.0*	4.0*	7.2
	-4.5	13.6*	13.6*	7.7*	7.7*							6.3*	6.3*	4.9

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

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads 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 325 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.
According to European Standard, EN 474-5: In the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic safety check valves on hoist cylinders and stick cylinder(s), when they are used for lifting operations which require the use of lifting accessories.
Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.
[1] Values are calculated with 500 mm wide track pads for the NLC-Undercarriage

Stick 3.50 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				m
NLC[1]	9.0			6.0*	6.0*							4.5*	4.5*	5.8
	7.5			5.6*	5.6*	5.0	5.7*					3.4	3.9*	7.3
	6.0			5.8*	5.8*	5.1	6.0*	3.4	5.4*			2.7	3.7*	8.3
	4.5	7.0*	7.0*	7.5	7.6*	5.0	7.2*	3.4	5.8			2.3	3.7*	8.9
	3.0	12.9	16.7*	7.3	10.9*	4.8	7.9	3.3	5.7	2.2	4.1	2.1	3.7*	9.2
	1.5	12.3	16.6*	6.7	11.8	4.4	7.7	3.1	5.5	2.2	4.0	2.1	3.8	9.2
	0	11.0	18.0*	6.1	11.7	4.1	7.6	2.9	5.3	2.1	3.9	2.1	3.9	9.0
	-1.5	10.5	19.0*	5.8	11.7	3.9	7.4	2.7	5.2			2.2	4.2	8.6
	-3.0	10.4	18.7*	5.7	11.6	3.7	7.2	2.7	5.1			2.6	4.2*	7.8
	-4.5	10.7	16.2*	5.7	9.9*	3.8	5.4*					3.6	4.7*	6.2
SLC	9.0			6.0*	6.0*							4.5*	4.5*	5.8
	7.5			5.6*	5.6*	5.5	5.7*					3.8	3.9*	7.3
	6.0			5.8*	5.8*	5.6	6.0*	3.8	5.4*			3.1	3.7*	8.3
	4.5	7.0*	7.0*	7.6*	7.6*	5.5	7.2*	3.8	5.8			2.7	3.7*	8.9
	3.0	14.5	16.7*	8.0	10.9*	5.4	7.9	3.7	5.7	2.6	4.1	2.5	3.7*	9.2
	1.5	14.1*	16.6*	7.7	11.9	5.0	7.8	3.5	5.6	2.5	4.1	2.4	3.9	9.2
	0	12.9	18.0*	7.0	11.8	4.7	7.7	3.3	5.4	2.4	4.0	2.4	4.0	9.0
	-1.5	12.4	19.0*	6.6	11.8	4.4	7.5	3.1	5.2			2.6	4.3	8.6
	-3.0	12.3	18.7*	6.5	11.7	4.3	7.3	3.1	5.2			3.0	4.2*	7.8
	-4.5	12.6	16.2*	6.5	9.9*	4.3	5.4*					4.1	4.7*	6.2
LC	9.0			6.0*	6.0*							4.5*	4.5*	5.8
	7.5			5.6*	5.6*	5.7*	5.7*					3.9*	3.9*	7.3
	6.0			5.8*	5.8*	5.9	6.0*	4.0	5.4*			3.3	3.7*	8.3
	4.5	7.0*	7.0*	7.6*	7.6*	5.8	7.2*	4.0	5.8			2.9	3.7*	8.9
	3.0	15.5	16.7*	8.5	10.9*	5.7	8.0	3.9	5.8	2.7	4.2	2.6	3.7*	9.2
	1.5	15.2	16.6*	8.2	11.9	5.4	7.8	3.8	5.6	2.7	4.1	2.6	3.9	9.2
	0	14.2	18.0*	7.6	11.8	5.0	7.7	3.6	5.4	2.6	4.0	2.6	4.0	9.0
	-1.5	13.7	19.0*	7.2	11.9	4.8	7.5	3.4	5.2			2.8	4.3	8.6
	-3.0	13.6	18.7*	7.1	11.7	4.6	7.3	3.4	5.2			3.2	4.2*	7.8
	-4.5	13.9	16.2*	7.1	9.9*	4.7	5.4*					4.5	4.7*	6.2
WLC	9.0			6.0*	6.0*							4.5*	4.5*	5.8
	7.5			5.6*	5.6*	5.7*	5.7*					3.9*	3.9*	7.3
	6.0			5.8*	5.8*	6.0*	6.0*	4.4	5.4*			3.6	3.7*	8.3
	4.5	7.0*	7.0*	7.6*	7.6*	6.3	7.2*	4.4	6.3			3.2	3.7*	8.9
	3.0	16.7*	16.7*	9.2	10.9*	6.2	8.3*	4.3	6.2	3.1	4.5	2.9	3.7*	9.2
	1.5	16.6*	16.6*	9.1	12.0*	5.9	8.4	4.2	6.1	3.0	4.4	2.8	4.0*	9.2
	0	16.4	18.0*	8.5	12.1*	5.6	8.3	4.0	5.9	2.9	4.4	2.9	4.3*	9.0
	-1.5	15.8	19.0*	8.1	12.1*	5.3	8.2	3.8	5.7			3.1	4.7	8.6
	-3.0	15.7	18.7*	8.0	12.2*	5.2	8.0	3.7	5.3*			3.6	4.2*	7.8
	-4.5	16.0	16.2*	8.0	9.9*	5.2	5.4*					4.7*	4.7*	6.2

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

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads with adjusting cylinder in optimal position. Indicated loads are based on ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 325 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.
According to European Standard, EN 474-5: In the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic safety check valves on hoist cylinders and stick cylinder(s), when they are used for lifting operations which require the use of lifting accessories.
Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.
[1] Values are calculated with 500 mm wide track pads for the NLC-Undercarriage

Lift capacities

with mono boom offset 5.65 m, counterweight 5.0 t and track pads 500 mm / 600 mm

Stick 2.50 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m			m
NLC[1]	7.5										5.2	5.9*	**5.6**
	6.0					4.6	6.2*				3.6	5.5*	**6.8**
	4.5	11.2*	11.2*	6.9	8.0*	4.4	6.7*	3.0	5.4		3.0	5.4	**7.5**
	3.0			6.1	9.8*	4.0	7.5*	2.9	5.3		2.6	4.8	**7.9**
	1.5			5.4	11.3	3.7	7.2	2.7	5.1		2.5	4.7	**8.0**
	0	5.9*	5.9*	5.1	10.9	3.5	6.9	2.6	5.0		2.5	4.8	**7.8**
	−1.5	9.6	13.0*	5.1	10.9	3.5	6.9				2.8	5.3	**7.2**
	−3.0	9.9	13.4*	5.3	9.9*	3.6	7.0				3.4	6.6	**6.2**
	−4.5												
SLC	7.5										5.8	5.9*	**5.6**
	6.0					5.2	6.2*				4.1	5.5*	**6.8**
	4.5	11.2*	11.2*	7.8	8.0*	4.9	6.7*	3.4	5.5		3.4	5.4	**7.5**
	3.0			6.9	9.8*	4.6	7.5*	3.3	5.4		3.0	4.9	**7.9**
	1.5			6.3	11.3*	4.3	7.2	3.1	5.2		2.8	4.7	**8.0**
	0	5.9*	5.9*	6.0	11.0	4.1	7.0	3.0	5.1		2.9	4.8	**7.8**
	−1.5	11.5	13.0*	5.9	11.0	4.0	6.9				3.2	5.4	**7.2**
	−3.0	11.8	13.4*	6.1	9.9*	4.1	7.1				3.9	6.7	**6.2**
	−4.5												
LC	7.5										5.9*	5.9*	**5.6**
	6.0					5.5	6.2*				4.4	5.5*	**6.8**
	4.5	11.2*	11.2*	8.0*	8.0*	5.3	6.7*	3.6	5.5		3.6	5.5	**7.5**
	3.0			7.5	9.8*	4.9	7.5*	3.5	5.4		3.2	4.9	**7.9**
	1.5			6.8	11.3*	4.6	7.3	3.4	5.2		3.1	4.7	**8.0**
	0	5.9*	5.9*	6.5	11.1	4.4	7.0	3.3	5.1		3.1	4.9	**7.8**
	−1.5	12.7	13.0*	6.5	11.0	4.3	7.0				3.4	5.4	**7.2**
	−3.0	13.1	13.4*	6.7	9.9*	4.5	7.1				4.3	6.7	**6.2**
	−4.5												
WLC	7.5										5.9*	5.9*	**5.6**
	6.0					6.1	6.2*				4.8	5.5*	**6.8**
	4.5	11.2*	11.2*	8.0*	8.0*	5.9	6.7*	4.0	5.9*		4.0	5.5*	**7.5**
	3.0			8.4	9.8*	5.5	7.5*	3.9	5.9		3.6	5.4	**7.9**
	1.5			7.7	11.3*	5.2	8.0	3.8	5.7		3.4	5.2	**8.0**
	0	5.9*	5.9*	7.4	11.7*	4.9	7.7	3.6	5.6		3.5	5.3	**7.8**
	−1.5	13.0*	13.0*	7.4	11.3*	4.9	7.7				3.8	5.9	**7.2**
	−3.0	13.4*	13.4*	7.5	9.9*	5.0	7.3*				4.8	6.9*	**6.2**
	−4.5												

Stick 2.90 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m			m
NLC[1]	7.5					4.7	5.4*				4.5	5.0*	**6.1**
	6.0					4.7	5.7*				3.3	4.7*	**7.3**
	4.5			7.0	7.4*	4.4	6.3*	3.0	5.5		2.7	4.7*	**7.9**
	3.0			6.2	9.2*	4.1	7.1*	2.9	5.3		2.4	4.5	**8.3**
	1.5			5.5	10.9*	3.7	7.2	2.7	5.1		2.3	4.3	**8.3**
	0	7.1*	7.1*	5.1	10.9	3.5	6.9	2.6	5.0		2.3	4.4	**8.1**
	−1.5	9.3	12.2*	5.0	10.7	3.4	6.8	2.5	4.9		2.5	4.8	**7.6**
	−3.0	9.6	14.4*	5.1	10.4*	3.4	6.9				3.0	5.9	**6.7**
	−4.5	10.2	10.7*	5.4	7.8*						4.5	6.4*	**5.2**
SLC	7.5					5.3	5.4*				5.0*	5.0*	**6.1**
	6.0					5.3	5.7*				3.7	4.7*	**7.3**
	4.5			7.4*	7.4*	5.0	6.3*	3.4	5.5		3.1	4.7*	**7.9**
	3.0			7.1	9.2*	4.6	7.1*	3.3	5.4		2.8	4.6	**8.3**
	1.5			6.3	10.9*	4.3	7.3	3.1	5.2		2.6	4.4	**8.3**
	0	7.1*	7.1*	5.9	11.0	4.0	7.0	3.0	5.0		2.7	4.5	**8.1**
	−1.5	11.2	12.2*	5.8	10.9	3.9	6.9	2.9	5.0		2.9	4.9	**7.6**
	−3.0	11.5	14.4*	6.0	10.4*	4.0	6.9				3.5	5.9	**6.7**
	−4.5	10.7*	10.7*	6.3	7.8*						5.1	6.4*	**5.2**
LC	7.5					5.4*	5.4*				5.0*	5.0*	**6.1**
	6.0					5.6	5.7*				4.0	4.7*	**7.3**
	4.5			7.4*	7.4*	5.4	6.3*	3.7	5.6		3.3	4.7*	**7.9**
	3.0			7.7	9.2*	5.0	7.1*	3.5	5.4		3.0	4.6	**8.3**
	1.5			6.9	10.9*	4.6	7.3	3.3	5.2		2.8	4.4	**8.3**
	0	7.1*	7.1*	6.5	11.0	4.4	7.0	3.2	5.0		2.9	4.5	**8.1**
	−1.5	12.2*	12.2*	6.4	10.9	4.3	6.9	3.2	5.0		3.1	4.9	**7.6**
	−3.0	12.7	14.4*	6.5	10.4*	4.3	7.0				3.8	6.0	**6.7**
	−4.5	10.7*	10.7*	6.9	7.8*						5.6	6.4*	**5.2**
WLC	7.5					5.4*	5.4*				5.0*	5.0*	**6.1**
	6.0					5.7*	5.7*				4.4	4.7*	**7.3**
	4.5			7.4*	7.4*	5.9	6.3*	4.1	5.8*		3.7	4.7*	**7.9**
	3.0			8.6	9.2*	5.5	7.1*	3.9	5.9		3.3	4.8*	**8.3**
	1.5			7.8	10.9*	5.2	8.0*	3.7	5.7		3.2	4.8	**8.3**
	0	7.1*	7.1*	7.4	11.6*	4.9	7.7	3.6	5.5		3.2	4.9	**8.1**
	−1.5	12.2*	12.2*	7.3	11.4*	4.8	7.6	3.6	5.5		3.5	5.4	**7.6**
	−3.0	14.4*	14.4*	7.4	10.4*	4.9	7.7				4.2	6.5	**6.7**
	−4.5	10.7*	10.7*	7.7	7.8*						6.3	6.4*	**5.2**

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

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads. Indicated loads are based on ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 325 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.
According to European Standard, EN 474-5: In the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic safety check valves on hoist cylinders and stick cylinder(s), when they are used for lifting operations which require the use of lifting accessories.
Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.
[1] Values are calculated with 500 mm wide track pads for the NLC-Undercarriage

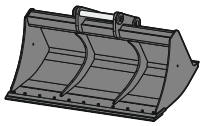
Stick 3.50 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m			m
NLC[1]	7.5										3.8*	3.8*	6.7
	6.0					4.8	5.1*	3.2	4.4*		3.0	3.7*	7.8
	4.5					4.6	5.7*	3.1	5.3*		2.5	3.7*	8.4
	3.0	11.9	12.8*	6.4	8.3*	4.2	6.6*	2.9	5.4		2.2	3.9*	8.7
	1.5	7.9*	7.9*	5.6	10.2*	3.8	7.2	2.7	5.1		2.1	4.0	8.8
	0	8.6*	8.6*	5.1	10.9	3.5	6.9	2.5	4.9		2.1	4.0	8.6
	-1.5	9.0	11.9*	4.9	10.6	3.3	6.7	2.4	4.8		2.2	4.3	8.1
	-3.0	9.3	15.6*	4.9	10.7	3.3	6.7				2.6	5.1	7.3
	-4.5	9.7	12.6*	5.2	9.0*						3.6	6.5*	5.9
SLC	7.5										3.8*	3.8*	6.7
	6.0					5.1*	5.1*	3.6	4.4*		3.4	3.7*	7.8
	4.5					5.1	5.7*	3.5	5.3*		2.8	3.7*	8.4
	3.0	12.8*	12.8*	7.3	8.3*	4.7	6.6*	3.3	5.4		2.5	3.9*	8.7
	1.5	7.9*	7.9*	6.5	10.2*	4.3	7.3	3.1	5.2		2.4	4.0	8.8
	0	8.6*	8.6*	5.9	11.0	4.0	7.0	2.9	5.0		2.4	4.1	8.6
	-1.5	10.9	11.9*	5.7	10.8	3.8	6.8	2.8	4.9		2.6	4.4	8.1
	-3.0	11.1	15.6*	5.8	10.8	3.8	6.8				3.0	5.2	7.3
	-4.5	11.6	12.6*	6.0	9.0*						4.1	6.5*	5.9
LC	7.5										3.8*	3.8*	6.7
	6.0					5.1*	5.1*	3.9	4.4*		3.6	3.7*	7.8
	4.5					5.5	5.7*	3.8	5.3*		3.0	3.7*	8.4
	3.0	12.8*	12.8*	7.9	8.3*	5.1	6.6*	3.6	5.4		2.7	3.9*	8.7
	1.5	7.9*	7.9*	7.0	10.2*	4.7	7.4	3.3	5.2		2.6	4.0	8.8
	0	8.6*	8.6*	6.5	11.1	4.3	7.0	3.2	5.0		2.6	4.1	8.6
	-1.5	11.9*	11.9*	6.3	10.8	4.2	6.8	3.1	4.9		2.8	4.4	8.1
	-3.0	12.4	15.6*	6.3	10.8*	4.2	6.8				3.3	5.2	7.3
	-4.5	12.6*	12.6*	6.6	9.0*						4.5	6.5*	5.9
WLC	7.5										3.8*	3.8*	6.7
	6.0					5.1*	5.1*	4.3	4.4*		3.7*	3.7*	7.8
	4.5					5.7*	5.7*	4.2	5.3*		3.4	3.7*	8.4
	3.0	12.8*	12.8*	8.3*	8.3*	5.6	6.6*	4.0	5.7*		3.0	3.9*	8.7
	1.5	7.9*	7.9*	7.9	10.2*	5.2	7.5*	3.7	5.7		2.9	4.2*	8.8
	0	8.6*	8.6*	7.4	11.3*	4.9	7.7	3.6	5.5		2.9	4.5	8.6
	-1.5	11.9*	11.9*	7.1	11.5*	4.7	7.5	3.5	5.4		3.1	4.8	8.1
	-3.0	14.4	15.6*	7.2	10.8*	4.7	7.5				3.7	5.7	7.3
	-4.5	12.6*	12.6*	7.4	9.0*						5.0	6.5*	5.9

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

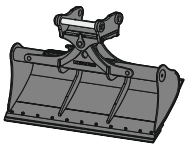
The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads. Indicated loads are based on ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 325 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.
According to European Standard, EN 474-5: In the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic safety check valves on hoist cylinders and stick cylinder(s), when they are used for lifting operations which require the use of lifting accessories.
Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.
[1] Values are calculated with 500 mm wide track pads for the NLC-Undercarriage

Attachments



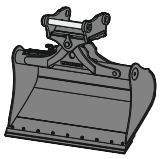
Rigid ditch cleaning bucket

GRL 04, for direct mounting								
Cutting width	mm	1,500	2,000	2,010	2,400			
Capacity	m³	0.50	0.70	0.85	0.85			
Weight	kg	400	500	530	580			
GRL 04, for mounting to quick coupler SWA 48								
Cutting width	mm	1,500	1,500	2,000	2,000	2,000	2,400	2,400
Capacity	m³	0.50	0.95	0.70	1.20	1.25	0.85	1.15
Weight	kg	430	560	400	640	600	600	650



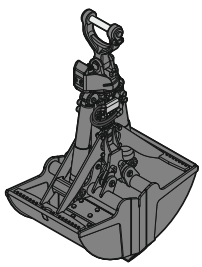
Tiltable ditch cleaning bucket

GRL 90, 2 x 50° tiltable, for direct mounting											
Cutting width	mm	1,600	2,000	2,000	2,000	2,200	2,400	2,800			
Capacity	m³	0.80	0.50	0.70	1.00	1.15	0.85	1.45			
Weight	kg	798	686	819	883	920	885	1,009			
GRL 90, 2 x 50° tiltable, for mounting to quick coupler SWA 48											
Cutting width	mm	1,600	2,000	2,000	2,000	2,200	2,200	2,200	2,400	2,400	2,800
Capacity	m³	0.80	0.50	0.70	1.00	0.80	1.15	1.40	0.85	1.25	1.85
Weight	kg	850	690	880	940	880	980	1,000	890	1,000	1,088



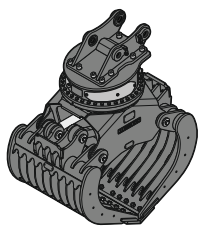
Tilt bucket

SL 90, 2 x 50° tiltable, for direct mounting										
Cutting width	mm	1,600	1,600	1,600						
Capacity	m³	0.80	1.00	1.35						
Weight	kg	768	820	918						
SL 90, 2 x 50° tiltable, for mounting to quick coupler SWA 48										
Cutting width	mm	1,500	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600
Capacity	m³	1.20	0.80	1.00	1.35	1.55	0.80	1.00	1.35	1.55
Weight	kg	970	820	890	970	1,035	820	1,006	1,184	1,550
HD version							X	X	X	X



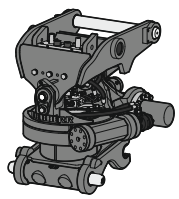
Clamshell grab

GMZ 30, clamshell buckets, for mounting to quick coupler SWA 48 (exists for direct mounting)					
Cutting width	mm	600	800	1,000	1,200
Capacity	m³	0.45	0.60	0.75	0.90
Weight	kg	575	625	700	765



Sorting grab

		ribbed		perforated		stone shell
SG 30B, for direct mounting						
Cutting width	mm	1,000	1,150	1,000	1,150	1,020
Capacity	m³	0.75	0.90	0.85	1.00	0.85
Weight	kg	1,510	1,590	1,490	1,570	1,765
SG 30B, for mounting to quick coupler SWA 48						
Cutting width	mm	1,000	1,150	1,000	1,150	1,020
Capacity	m³	0.75	0.90	0.85	1.00	0.85
Weight	kg	1,510	1,590	1,490	1,570	1,765



Tiltrotator

TR 25, for mounting to quick coupler SWA 48		
Weight	kg	720
Rotation		360°
Tilt		2 x 50°

Serial equipment

Undercarriage

- Lashing eyes
- Sprocket with dirt ejector
- Track and carrier rollers, sealed and lifetime-lubricated

Uppercarriage

- Access platforms without protruding parts
- Anti-skid surfaces
- Automatic swing brake lock
- Centralised lubrication system (automatic)
- DEF tank filling indicator
- DEF tank lockable access hatch
- Engine hood with gas spring opening
- Filters accessible from ground level
- Handrails
- Hydraulic oil level, visible from ground level
- Lockable service doors
- Lockable storage and accessories compartment
- Lockable storage box
- Main switch, accessible from ground level
- Main switch, electric, with timer
- Main switch, manual, lockable
- Positioning swing brake manual
- Protection grid on radiator fan
- Safe uppercarriage side access platform
- Sound insulation
- Swing-out radiators
- Windshield washer fluid tank, accessible from ground level

Hydraulic system

- Filter with integrated fine filters
- Hydraulic pressure measuring ports
- Liebherr Positive Control system with 2 independent circuits
- Magnetic rod
- Pressure accumulator for controlled lowering of equipment with engine turned off

Engine

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

Cab

- 9" multifunction colour touchscreen
- Air conditioning, automatic, tri-zone, controlled via display
- Armrests adjustable in length, height and inclination
- Bottle holder
- Cab air filters housing, accessible from ground level
- Cab door sliding windows
- Cigarette lighter
- Coat hook
- DEF consumption on touchscreen
- DEF level on touchscreen
- Electric socket in cabin (12 V)
- Electric socket in cabin (24 V)
- Emergency hammer
- Engine coolant level, visible from the cab
- Engine oil level on touchscreen
- Fuel consumption on touchscreen
- Fuel level on touchscreen
- Hydraulic oil level on touchscreen
- Interior lighting
- Laminated right hand side window
- LiDAT Plus (Liebherr data transfer system)
- Mechanical hour meter, visible from ground level
- Mobile phone storage net
- Movement priority between swing and boom, adjustable via touchscreen
- Movement priority for stick-in, adjustable via touchscreen
- Operating modes
- Power modes
- Rain hood over front window opening
- Rearview mirror
- Rear view monitoring camera
- Rear window emergency exit
- Right hand side view monitoring camera
- Roll-down sun blinds for windscreen and roof window
- ROPS safety cab structure (ISO 12117-2)
- Rubber floor mat, fixed on floor and removable
- Shortkey buttons on joystick configurable
- Stepless adjustable engine speed
- Storage box
- Storage nets
- Storage spaces
- Swing braking torque adjustable via touchscreen
- Swing drive gearbox oil level, visible from the cab
- Tiltable console left
- Tinted windows
- Visco-elastic damping
- Windscreen wiper and washer

Equipment

- Anti-drift system boom cylinders
- Anti-drift system stick cylinder
- Boom cylinders regeneration
- Pipe fracture safety valve for stick cylinder
- Pipe fracture safety valves for boom cylinders
- Pivot points made of cast steel
- SAE split flanges on high pressure lines
- Stick cylinder regeneration

Equipment standard / option

Undercarriage

Chain guide 1 piece	●
Chain guide 3 pieces	+
Cover and base plate for undercarriage centre section	●
Reinforced cover and base plate for undercarriage centre section	+
Special painting	+
Steps	●
Steps wide	+
Track chains cleaner	+
Track pads triple grouser 500 / 700 / 750 / 800 / 900 mm	+
Track pads triple grouser 600 mm	●
Track pads triple grouser reinforced 500 / 600 / 700 / 750 mm	+
Tracks, sealed and greased	●
Tracks, sealed and greased, reinforced	+
Undercarriage LC	+
Undercarriage NLC	+
Undercarriage SLC	+
Undercarriage WLC	+
Undercarriage storage compartment	+

Uppercarriage

Batteries high capacity	+
Batteries standard capacity	●
Boxing ring	+
Catwalk tiltable front left	+
Counterweight standard 5.0 t	●
Electric socket on uppercarriage (24 V)	+
Extended tool set including tool box	+
External starting aid (24 V)	+
Front right rearview mirror	+[1]
Fuel anti-theft protection	+
Headlight on uppercarriage, front left, LED+, 1 piece, protection included	+[1]
Headlight on uppercarriage, front right, LED, 1 piece, protection included	●[1]
Headlight on uppercarriage, front right, LED+, 1 piece, protection included	+[1]
Headlight on uppercarriage, lateral left, LED+, 1 piece	+[1]
Headlight on uppercarriage, lateral right, LED+, 1 piece	+[1]
Headlights on uppercarriage, rear, LED+, 2 pieces	+[1]
Lighting for tank area	+[1]
Lighting for uppercarriage access	+[1]
Lockable fuel tank cap	●
Lockable fuel tank cap with padlock	+
Reflective warning stickers	+
Rotating beacons on uppercarriage, rear, LED, 2 pieces	+
Skyview 360°	+
Special painting	+
Tank refilling pump fuel	+
Tool set including storage case	●
Uppercarriage bottom and side protection	+
Uppercarriage bottom closure sheets	●

Hydraulic system

Bypass filter for hydraulic oil	+
Filter for hydraulic hammer return flow	+
High pressure circuit bypass	+
High pressure circuit flow summation	+
High pressure circuit switchable on pedals or mini-joystick	+
High pressure circuit with Tool Control (20 attachment adjustments on display)	+
Leak oil line for attachment	+
Liebherr hydraulic oil	●
Liebherr hydraulic oil, adapted for extreme climate conditions	+
Liebherr hydraulic oil, biodegradable	+
Medium pressure circuit	+

Engine

Air pre-filter with cyclonical dust trap	+
Automatic engine shutdown after idling	+
Engine shut-down with overrun	+
Lighting for engine compartment	+[1]
Pre-heating system for fuel	+
Radiator fine mesh protection grid	+
Reversible fan drive	+

Cab

2" seat belt with retractor	●
3" seat belt with retractor, orange colour	+
4-points seat belt	+
Acoustic travel alarm deactivatable	+
Auxilary heater programmable	+
Bottom windscreen wiper	+
Coming / Leaving Home	+[1]
Cool box (12 V)	+
Dark tinted windows	+
Electrically adjustable and heated outside rear-view mirrors	+[1]
Electronic immobiliser	+
Emergency stop in cab	+
FGPS front guard	+
FGPS front guard tiltable	+
Fire extinguisher	+
First-aid box	+
Footrest	+
FOPS top guard	+
FOPS top guard flat	+
Handrests elevated for joysticks	+
Headlights on cab, front, LED, 2 pieces	●[1]
Headlights on cab, front, LED+, 2 pieces	+[1]
Headlights on cab roof, front, LED+, 2 pieces	+[1]
Impact resistant one-piece windscreen	+
Impact resistant roof window	+
Independent travel	+[1]
Integral protection guard	+
Laminated roof window	●
Lightbar on cabin	+
Lighting for cabin access	+[1]
Luminosity control (LED+ headlights)	+[1]
Mini-joystick proportional	+
Movement restriction for boom	+
Movement restriction for stick	+
Operator seat Comfort	●
Operator seat Premium	+
Overload warning system	+
Personalised operator profile	+
Preparation for tiltrotator	+
Radio Comfort	+
Radio pre-installation	●
Remote cab lock	+[1]
Retractable laminated two-piece windscreen	●
Roof sun shield	+
Roof window wiper	+
Rotating beacon on cabin, LED, 1 piece	+
Seat belt reminder	+
Smart Key	+[1]
Special painting	+
Straight travel via mini-joystick	+[1]
Sun visor	+
Switch between high pressure and bucket cylinder controls	+
Travel speed management	+[1]
Windscreen bottom protection grid	+

Equipment

Bucket cylinder rod protection	+
Centralised lubrication extended for connecting link	+
Floating boom	+
Grapple hydraulic lines (bucket cylinder inactive)	+
Headlight guard on boom, right	+
Headlight guards on boom, right and left	+
Headlight on boom, left, LED+, 1 piece	+[1]
Headlight on boom, right, LED, 1 piece	●[1]
Headlight on boom, right, LED+, 1 piece	+[1]
Headlight on stick, bottom, LED+, 1 piece	+[1]
Hose protection for Solidlink	+
Liebherr bucket range	+
Liebherr tooth system	+
Load holding valve for bucket cylinder	+
Lubrication hoses protection on stick	+
Mono boom 5.70 m	+
Mono boom offset 5.65 m	+
Mono boom straight 5.90 m	+
Quick coupler SWA 48 hydraulic	+
Quick coupler SWA 48 mechanical	+
Solidlink electric signal plug	+
Solidlink for quick coupler SWA 48 hydraulic	+
Special painting	+
Stick 2.50 m	+
Stick 2.90 m	+
Stick 3.50 m	+
Stick bottom protection	+
Tool Management	+
Two-piece boom 5.90 m	+

Assistance system

Machine guidance system Leica 2D passive – “3D ready”	+
Machine guidance system Leica 2D semi-automatic – “3D ready”	+
Machine guidance system Leica 3D passive	+
Machine guidance system Leica 3D semi-automatic	+
Preparation for machine guidance system	+
Preparation for weighing system	+

● = Standard, + = Option
[1] Equipment not individually available, but only as predefined packages
Non-exhaustive list, please contact us for further information.

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

The Liebherr Group

Global and independent: more than 70 years of success
Liebherr was founded in 1949 when, with the development of the world's first mobile tower crane, Hans Liebherr laid the foundations for a family-run company which now has more than 50,000 employees and comprises over 150 companies across every continent. The holding company of the Group is Liebherr-International AG in Bulle, Switzerland, whose shareholders are exclusively members of the Liebherr family.

Technology leadership and pioneering spirit
Liebherr is a pioneer and its forward-looking approach has seen it make important contributions to technology history over a wide variety of industries. Employees throughout the world continue to share the courage of the company founder, sharing a passion to produce innovative products and a determination to provide world-leading equipment and machinery.

Diversified product programme
Liebherr is one of the world's biggest construction machine manufacturers and provides high-quality, user-oriented products and services. Its product programme includes earthmoving machinery, material handling technology, deep foundation machines, mining, mobile and crawler cranes, tower cranes, concrete technology, maritime cranes, aerospace and transportation systems, gear technology and automation systems, refrigerators and freezers, components and hotels.

Customised solutions and maximum customer value
Liebherr solutions are characterised by precision, implementation and longevity. The company is committed to technological excellence and to providing customers with solutions that match their needs exactly. For Liebherr, customer focus does not end with delivery of a product but continues through a comprehensive range of back-up and support services.

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All indicated loads are based in accordance with ISO 9248. Printed in Germany by Hohl · RG-BK · LFR/SP-12237871-0.3-02.24_enGB