

Product Information: Crawler Excavator

R 930

Litronic®

**Generation**

8

Engine

180 kW / 245 HP

Stage V

Operating Weight

30,400 – 36,650 kg

Bucket Capacity

1.00 – 2.15 m³

LIEBHERR

Experience the Progress

R 930

Safety

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

Equipment

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

Maintenance

- Innovative servicing concept, with service points accessible from ground level
- Engine oil, hydraulic oil, fuel and urea (diesel exhaust fluid) levels visible on the display
- New concept for lateral access to uppercarriage and large maintenance platform





Comfort

- Spacious, air-conditioned work space
- Airsprung seat with vertical and longitudinal suspension
- Easy-to-use high resolution 7" colour touchscreen
- Completely retractable front cab window
- New LED lighting as standard

Engine

- New engine that conforms with the Stage V European exhaust emissions standard
- Automatic engine speed increase/decrease controlled by proximity sensors in the joysticks

Undercarriage

- Choice of 2 different robust x-shaped undercarriages and a variable track undercarriage with integrated eyes for secure transport
- Easy maintenance
- Maintenance-free track chains and track rollers with lifetime lubrication
- Extra storage (option)

Technical data



Engine

Rating per ISO 9249	180 kW (245 HP) at 1,800 RPM
Torque	1,255 Nm at 1,350 RPM
Model	Liebherr D934 A7-25
Type	4 cylinder in-line
Bore	122 mm
Stroke	150 mm
Displacement	7.0 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	620 l
Urea tank	90 l
Electrical system	
Voltage	24 V
Batteries	2 x 135 Ah/ 12 V
Alternator	Three-phase current 24 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 Independent circuit for rotation
Hydraulic pumps	
For equipment and travel drive	Liebherr, variable displacement, swashplate double pump
Max. flow	2 x 265 l/min.
Max. pressure	380 bar
For swing drive	Swashplate pump, closed-loop circuit
Max. flow	200 l/min.
Max. pressure	400 bar
Pump management	Electronic management synchronous to the control block
Hydraulic tank	239 l
Hydraulic system	max. 475 l
Hydraulic oil filter	1 main return filter with integrated partial micro filtration (10 µm)
Cooling system	Compact cooler, consisting of a water cooler, 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
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 – 10.1 RPM stepless
Swing torque	99 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 work 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 width, 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/s ² , according with ISO 5349-1:2001
Whole-body vibrations	< 0.5 m/s ²
Measuring inaccuracy	According with standard EN 12096:1997
Noise emission	
ISO 6396	L _{pA} (inside cab) = 71 dB(A)
2000/14/EC	L _{WA} (surround noise) = 105 dB(A)

* 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



Undercarriage

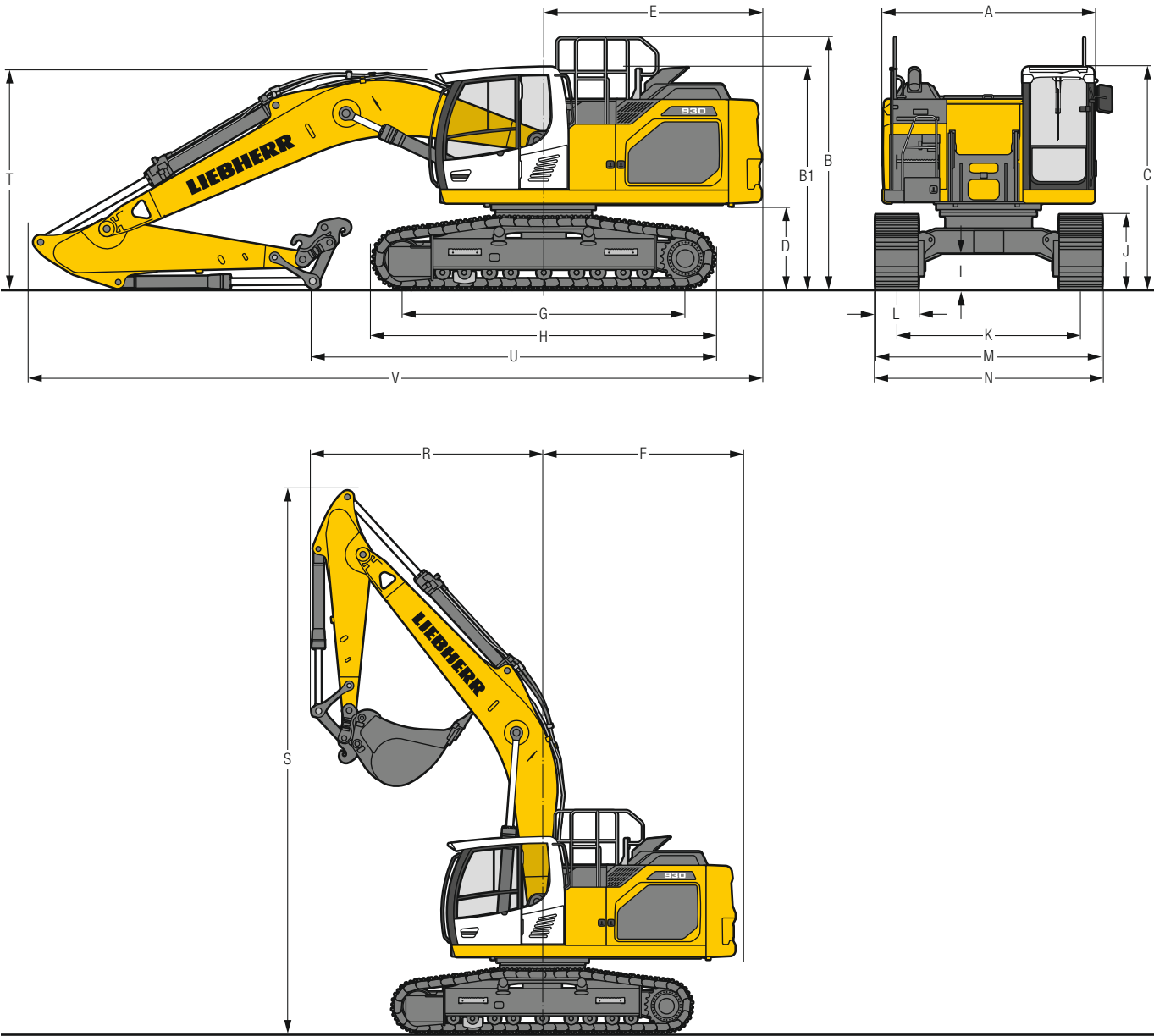
Versions	
NLC	Gauge 2,390 mm
LC	Gauge 2,590 mm
LC-V	Gauge 2,390 mm / 2,890 mm
Drive	Liebherr swashplate motor with brake valves on both sides
Transmission	Liebherr planetary reduction gear
Maximum travel speed	NLC/LC: low range 3.5 km/h high range 5.8 km/h LC-V: low range 2.8 km/h high range 4.6 km/h
Drawbar pull on crawler	NLC/LC: 261 kN LC-V: 325 kN
Track components	D7, D7G, maintenance-free
Track rollers / Carrier rollers	9/2
Tracks	Sealed and greased
Track pads	Triple grouser
Holding brake	Wet multi-disc (spring applied, pressure released)
Brake valves	Integrated into travel motor
Lashing eyes	Integrated



Equipment

Type	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

Dimensions



	NLC	mm			LC	mm			LC-V	mm		
A	Uppercarriage width			2,990 ²⁾				2,990 ²⁾				2,990 ²⁾
B	Uppercarriage height			3,130				3,130				3,265
B1	Uppercarriage height (handrails folded)			2,910				2,910				3,045
C	Cab height			3,150				3,150				3,285
D	Counterweight ground clearance			1,175				1,175				1,310
E	Rear-end length			3,075				3,075				3,075
F	Tail swing radius			3,200				3,200				3,200
G	Wheelbase			3,990				3,990				4,170
H	Undercarriage length			4,840				4,840				5,030
I	Undercarriage ground clearance			505				505				680
J	Track height			1,055				1,055				1,100
K	Track gauge			2,390				2,590				2,390/2,890 ³⁾
L	Track pad width	600	750	900		600	750	900		600	750	900
M	Width over tracks	2,990	3,140	3,290		3,190	3,340	3,490		2,990/3,490 ³⁾	3,140/3,640 ³⁾	3,290/3,790 ³⁾
N	Width over steps	2,990	3,190 ¹⁾	3,190 ¹⁾		3,190	3,390 ¹⁾	3,390 ¹⁾		3,170/3,670 ^{1) 3)}	3,170/3,670 ^{1) 3)}	3,320/3,820 ^{1) 3)}

¹⁾ width with removable steps

²⁾ without door stop device and spacer

³⁾ work position

		Stick length m	Mono boom 6.20 m with quick coupler			Mono boom straight 6.50 m with quick coupler			Two-piece boom 6.40 m with quick coupler		
			NLC	mm LC	LC-V	NLC	mm LC	LC-V	NLC	mm LC	LC-V
R	Front swing radius	2.50		3,700			3,250			2,600	
		2.80		3,700			3,250			2,700	
		3.20		3,700			3,250			2,800	
		3.70		3,700			3,200			2,850	
S	Height with boom up		8,700	8,700	8,850	9,300	9,300	9,450	9,450	9,450	9,600
T	Boom height	2.50	3,050	3,050	3,150	2,950	2,950	3,000	2,900	2,900	3,000
		2.80	3,100	3,100	3,150	3,050	3,050	3,100	2,950	2,950	3,050
		3.20	3,150	3,150	3,200	3,150	3,150	3,150	3,050	3,050	3,100
		3.70	3,200	3,200	3,250	3,250	3,250	3,250	3,200	3,200	3,150
U	Length on ground	2.50	8,700	8,700	8,750	6,500	6,500	6,500	6,400	6,400	6,400
		2.80	5,700	5,700	8,500	6,300	6,300	6,300	6,150	6,150	6,150
		3.20	5,350	5,350	8,100	6,000	6,000	6,300	5,850	5,850	5,850
		3.70	4,850	4,850	7,600	5,600	5,600	5,600	5,450	5,450	5,450
V	Overall length			10,400			10,800			10,650	
	Bucket			1.60 m ³			1.60 m ³			1.60 m ³	

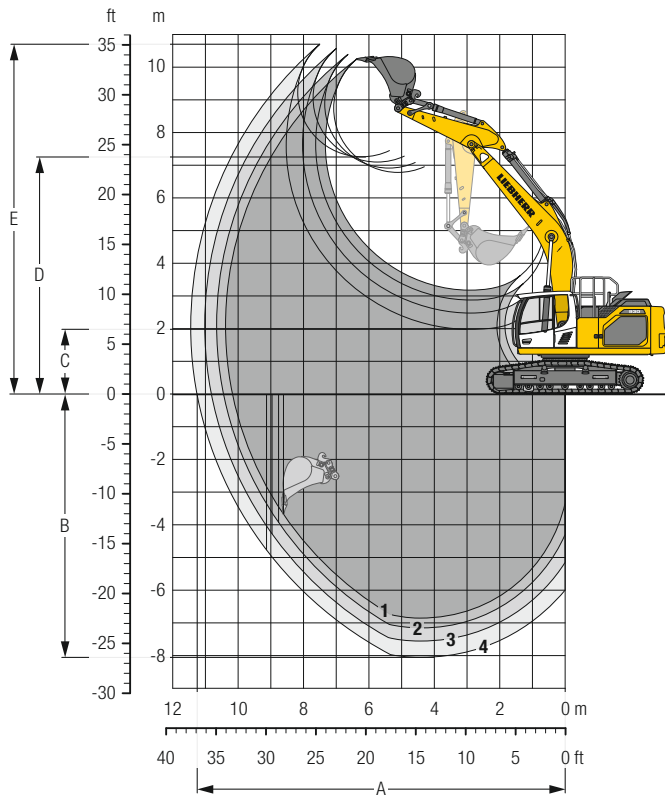
Transport dimensions

removable elements disassembled

	Undercarriage / Stick m	Mono boom 6.20 m			Mono boom straight 6.50 m			Two-piece boom 6.40 m		
		mm			mm			mm		
Pad width		600	750	900	600	750	900	600	750	900
Transport width	NLC	2,990	3,140	3,290	2,990	3,140	3,290	2,990	3,140	3,290
	LC	3,190	3,340	3,490	3,190	3,340	3,490	3,190	3,340	3,490
	LC-V	2,990	3,140	3,290	2,990	3,140	3,290	2,990	3,140	3,290
		NLC	LC	LC-V	NLC	LC	LC-V	NLC	LC	LC-V
Transport length	2.50		10,400			10,800			10,650	
	2.80		10,400			10,800			10,650	
	3.20		10,400			10,800			10,650	
	3.70		10,400			10,800			10,650	
Transport height	2.50	3,150	3,150	3,285	3,150	3,150	3,285	3,150	3,150	3,285
	2.80	3,150	3,150	3,285	3,150	3,150	3,285	3,150	3,150	3,285
	3.20	3,150	3,150	3,285	3,150	3,150	3,285	3,150	3,150	3,285
	3.70	3,200	3,200	3,285	3,250	3,250	3,285	3,200	3,200	3,285

Backhoe bucket

with mono boom 6.20 m and counterweight 5.1 t



Digging envelope

with quick coupler		1	2	3	4
Stick length	m	2.50	2.80	3.20	3.70
A Max. reach at ground level	m	10.17	10.45	10.82	11.26
B Max. digging depth	m	6.86	7.16	7.56	8.05
C Min. dumping height	m	3.18	2.88	2.48	1.98
D Max. dumping height	m	6.78	6.92	7.09	7.25
E Max. cutting height	m	10.25	10.38	10.56	10.70

Forces

without quick coupler		1	2	3	4
Stick digging force (ISO 6015)	kN	168	156	142	128
Bucket digging force (ISO 6015)	kN	204	204	204	204
Stick digging force (SAE J1179)	kN	160	149	136	123
Bucket digging force (SAE J1179)	kN	178	178	178	178

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 5.1 t, mono boom 6.20 m, stick 3.20 m, quick coupler SWA 66 and bucket 1.60 m³ (1,170 kg).

Undercarriage		NLC		
Pad width	mm	600	750	900
Weight	kg	30,400	30,950	31,450
Ground pressure	kg/cm²	0.59	0.48	0.41

Undercarriage		LC		
Pad width	mm	600	750	900
Weight	kg	30,500	31,050	31,550
Ground pressure	kg/cm²	0.59	0.48	0.41

Undercarriage		LC-V		
Pad width	mm	600	750	900
Weight	kg	34,500	35,150	35,750
Ground pressure	kg/cm²	0.64	0.52	0.45

Optional: counterweight 6.2 t

(counterweight 6.2 t increases the operating weight by 1,100 kg and ground pressure by 0.02 kg/m²)

see load tables on pages 16 and 17

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

	Cutting width mm	Capacity ISO 7451 m³	Weight ³⁾ kg	Weight ⁴⁾ kg	NLC-Undercarriage (with track pads 600 mm)								LC-Undercarriage (with track pads 600 mm)								LC-V-Undercarriage (with track pads 600 mm)							
					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			
					2.50	2.80	3.20	3.70	2.50	2.80	3.20	3.70	2.50	2.80	3.20	3.70	2.50	2.80	3.20	3.70	2.50	2.80	3.20	3.70	2.50	2.80	3.20	3.70
with counterweight 5.1 t																												
STD ¹⁾	1,050	1.00	870	930	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.25	1,000	1,050	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲
	1,400	1.45	1,070	1,130	▲	▲	▲	■	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲
	1,550	1.60	1,110	1,170	▲	▲	■	▲	▲	■	▲	▲	△	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,650	1.75	1,160	1,220	■	■	▲	△	■	▲	■	△	▲	▲	■	▲	■	■	■	■	▲	▲	▲	▲	▲	▲	▲	▲
	1,550	1.85	1,170	1,230	■	▲	■	△	▲	■	△	△	▲	■	▲	■	■	■	▲	△	▲	▲	▲	▲	▲	▲	▲	▲
	1,650	2.00	1,210	1,270	▲	■	△	△	■	△	△	—	■	▲	■	△	■	▲	■	△	▲	▲	▲	■	▲	▲	▲	■
1,750	2.15	1,260	1,320	■	△	△	—	△	△	△	—	▲	■	△	△	▲	■	△	△	▲	▲	■	▲	▲	■	▲	▲	
HD ²⁾	1,050	1.00	1,000	1,050	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.25	1,140	1,200	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,400	1.45	1,230	1,290	▲	▲	■	▲	▲	▲	■	■	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲
	1,550	1.60	1,290	1,350	▲	■	▲	■	■	▲	■	△	▲	▲	■	▲	■	■	■	△	▲	▲	▲	▲	▲	▲	▲	▲
	1,650	1.75	1,350	1,410	■	▲	■	△	▲	■	△	△	▲	■	▲	■	■	■	▲	△	▲	▲	▲	▲	▲	▲	▲	▲
	1,550	1.85	1,340	1,400	▲	▲	△	△	▲	■	△	—	▲	■	▲	■	■	▲	■	△	▲	▲	▲	▲	▲	▲	▲	■
	1,650	2.00	1,400	1,460	■	■	△	△	■	△	△	—	■	▲	■	△	■	■	△	△	▲	▲	■	▲	▲	▲	■	
1,750	2.15	1,450	1,510	△	△	△	—	△	△	—	—	▲	■	△	△	■	△	△	—	▲	▲	■	▲	▲	■	▲	▲	
with counterweight 6.2 t																												
STD ¹⁾	1,050	1.00	870	930	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.25	1,000	1,050	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,400	1.45	1,070	1,130	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,550	1.60	1,110	1,170	▲	▲	▲	■	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,650	1.75	1,160	1,220	▲	▲	■	▲	▲	■	▲	■	▲	▲	■	▲	■	■	■	■	▲	▲	▲	▲	▲	▲	▲	▲
	1,550	1.85	1,170	1,230	▲	■	■	■	▲	■	■	■	▲	▲	■	▲	■	■	■	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,650	2.00	1,210	1,270	■	■	▲	■	■	▲	■	△	▲	▲	■	▲	■	▲	■	■	▲	▲	▲	▲	▲	▲	▲	▲
1,750	2.15	1,260	1,320	▲	▲	■	△	▲	■	△	△	▲	■	■	■	■	■	■	△	▲	▲	▲	▲	▲	▲	▲	■	
HD ²⁾	1,050	1.00	1,000	1,050	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.25	1,140	1,200	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,400	1.45	1,230	1,290	▲	▲	▲	■	▲	▲	■	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,550	1.60	1,290	1,350	▲	▲	▲	■	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,650	1.75	1,350	1,410	▲	▲	■	▲	▲	■	▲	■	▲	▲	■	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,550	1.85	1,340	1,400	▲	■	■	■	■	■	■	△	▲	▲	■	■	■	■	■	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,650	2.00	1,400	1,460	■	▲	■	△	▲	■	△	△	▲	■	■	■	■	■	■	■	▲	▲	▲	▲	▲	▲	▲	▲
1,750	2.15	1,450	1,510	▲	■	△	△	■	■	△	△	■	■	▲	△	■	▲	■	△	▲	▲	■	▲	▲	▲	■	■	

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

¹⁾ Standard bucket with teeth Z 50

²⁾ HD bucket with teeth Z 50

³⁾ Bucket for direct mounting

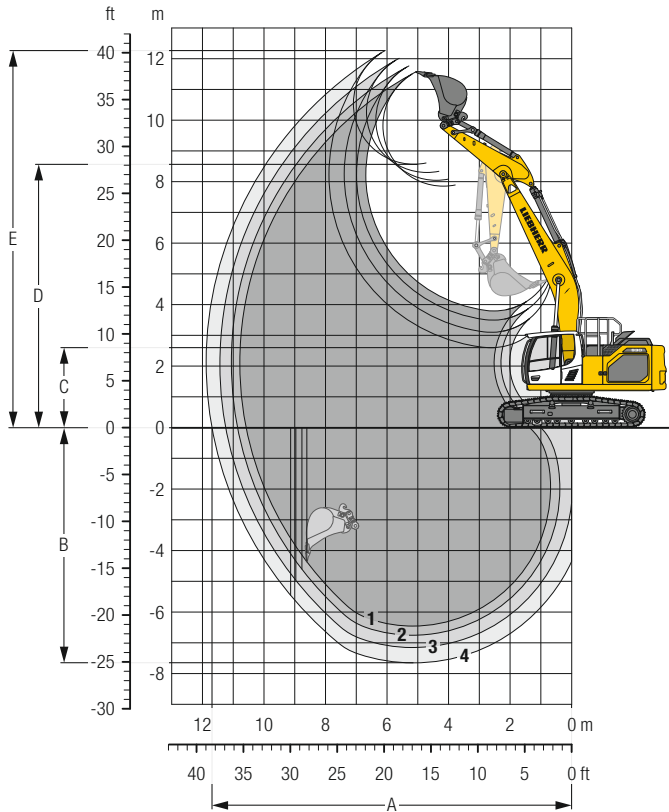
⁴⁾ Bucket for mounting to quick coupler

Other buckets available upon request

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

Backhoe bucket

with mono boom straight 6.50 m and counterweight 5.1 t



Digging envelope

with quick coupler		1	2	3	4
Stick length	m	2.50	2.80	3.20	3.70
A Max. reach at ground level	m	10.58	10.86	11.24	11.69
B Max. digging depth	m	6.45	6.75	7.15	7.65
C Min. dumping height	m	3.79	3.49	3.10	2.60
D Max. dumping height	m	7.85	8.04	8.30	8.56
E Max. cutting height	m	11.57	11.76	12.02	12.26

Forces

without quick coupler		1	2	3	4
Stick digging force (ISO 6015)	kN	168	156	142	128
Bucket digging force (ISO 6015)	kN	204	204	204	204
Stick digging force (SAE J1179)	kN	160	149	136	123
Bucket digging force (SAE J1179)	kN	178	178	178	178

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 5.1 t, mono boom straight 6.50 m, stick 3.20 m, quick coupler SWA 66 and bucket 1.60 m³ (1,170 kg).

Undercarriage		NLC		
Pad width	mm	600	750	900
Weight	kg	30,450	31,000	31,500
Ground pressure	kg/cm ²	0.59	0.48	0.41

Undercarriage		LC		
Pad width	mm	600	750	900
Weight	kg	30,550	31,100	31,600
Ground pressure	kg/cm ²	0.59	0.48	0.41

Undercarriage		LC-V		
Pad width	mm	600	750	900
Weight	kg	34,550	35,200	35,800
Ground pressure	kg/cm ²	0.64	0.52	0.45

Optional: counterweight 6.2 t

(counterweight 6.2 t increases the operating weight by 1,100 kg and ground pressure by 0.02 kg/m²)
see load tables on pages 20 and 21

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

	Cutting width mm	Capacity ISO 7451 m³	Weight ³⁾ kg	Weight ⁴⁾ kg	NLC-Undercarriage (with track pads 600 mm)								LC-Undercarriage (with track pads 600 mm)								LC-V-Undercarriage (with track pads 600 mm)								
					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				
					2.50	2.80	3.20	3.70	2.50	2.80	3.20	3.70	2.50	2.80	3.20	3.70	2.50	2.80	3.20	3.70	2.50	2.80	3.20	3.70	2.50	2.80	3.20	3.70	
with counterweight 5.1 t																													
STD ¹⁾	1,050	1.00	870	930	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.25	1,000	1,050	▲	▲	▲	■	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,400	1.45	1,070	1,130	▲	■	■	■	■	■	■	△	▲	▲	▲	■	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,550	1.60	1,110	1,170	■	▲	■	△	▲	■	△	△	▲	▲	■	▲	▲	■	▲	△	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,650	1.75	1,160	1,220	▲	■	△	△	■	△	△	—	■	■	▲	△	■	▲	■	△	▲	▲	▲	▲	▲	▲	▲	▲	■
	1,550	1.85	1,170	1,230	■	■	△	△	■	△	△	—	■	▲	■	△	▲	■	△	△	▲	▲	▲	■	▲	▲	▲	▲	■
	1,650	2.00	1,210	1,270	△	△	△	—	△	△	—	—	△	■	△	△	△	■	△	△	—	▲	▲	■	▲	▲	■	▲	▲
1,750	2.15	1,260	1,320	△	△	—	—	△	—	—	—	■	△	△	△	—	△	△	△	—	▲	■	■	■	■	▲	■	■	
HD ²⁾	1,050	1.00	1,000	1,050	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.25	1,140	1,200	▲	▲	▲	■	▲	▲	■	■	▲	▲	▲	▲	▲	▲	▲	■	■	▲	▲	▲	▲	▲	▲	▲	▲
	1,400	1.45	1,230	1,290	▲	■	▲	■	■	▲	■	△	▲	▲	■	▲	▲	▲	■	■	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,550	1.60	1,290	1,350	■	▲	■	△	▲	■	△	—	▲	■	▲	■	■	▲	■	△	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,650	1.75	1,350	1,410	▲	■	△	△	■	△	△	—	■	▲	■	△	▲	■	△	△	▲	▲	▲	■	▲	▲	▲	▲	■
	1,550	1.85	1,340	1,400	■	▲	△	—	△	△	—	—	▲	▲	△	△	▲	■	△	—	▲	▲	■	▲	▲	■	▲	▲	▲
	1,650	2.00	1,400	1,460	△	△	—	—	△	—	—	—	■	■	△	△	■	△	△	—	▲	▲	■	▲	▲	■	▲	■	■
1,750	2.15	1,450	1,510	△	△	—	—	—	—	—	—	△	△	△	—	△	△	△	—	▲	■	▲	■	■	■	■	■	△	
with counterweight 6.2 t																													
STD ¹⁾	1,050	1.00	870	930	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.25	1,000	1,050	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,400	1.45	1,070	1,130	▲	▲	▲	■	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,550	1.60	1,110	1,170	▲	▲	■	▲	▲	■	▲	■	▲	▲	▲	■	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,650	1.75	1,160	1,220	▲	■	▲	■	■	▲	■	△	▲	▲	■	▲	▲	■	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,550	1.85	1,170	1,230	■	▲	■	△	▲	■	△	△	▲	■	■	■	▲	■	■	▲	■	▲	▲	▲	▲	▲	▲	▲	▲
	1,650	2.00	1,210	1,270	▲	■	△	△	■	■	△	—	■	■	▲	△	■	▲	■	△	▲	▲	▲	▲	▲	▲	▲	▲	■
1,750	2.15	1,260	1,320	■	△	△	△	△	△	△	—	▲	▲	■	△	▲	■	△	△	▲	▲	▲	■	▲	▲	■	▲	▲	
HD ²⁾	1,050	1.00	1,000	1,050	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.25	1,140	1,200	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,400	1.45	1,230	1,290	▲	▲	▲	■	▲	▲	■	■	▲	▲	▲	▲	▲	▲	■	■	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,550	1.60	1,290	1,350	▲	■	■	■	■	■	▲	△	▲	▲	▲	■	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,650	1.75	1,350	1,410	■	▲	■	△	■	▲	△	△	▲	▲	■	▲	■	▲	■	■	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,550	1.85	1,340	1,400	■	▲	■	△	▲	■	△	△	▲	■	■	■	■	▲	■	△	▲	▲	▲	▲	▲	▲	▲	▲	■
	1,650	2.00	1,400	1,460	▲	■	△	△	■	△	△	—	■	▲	■	△	▲	■	△	△	▲	▲	▲	■	▲	▲	▲	▲	■
1,750	2.15	1,450	1,510	■	△	△	—	△	△	—	—	▲	■	△	△	■	■	△	—	▲	▲	■	▲	▲	▲	■	▲	▲	

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

¹⁾ Standard bucket with teeth Z 50

²⁾ HD bucket with teeth Z 50

³⁾ Bucket for direct mounting

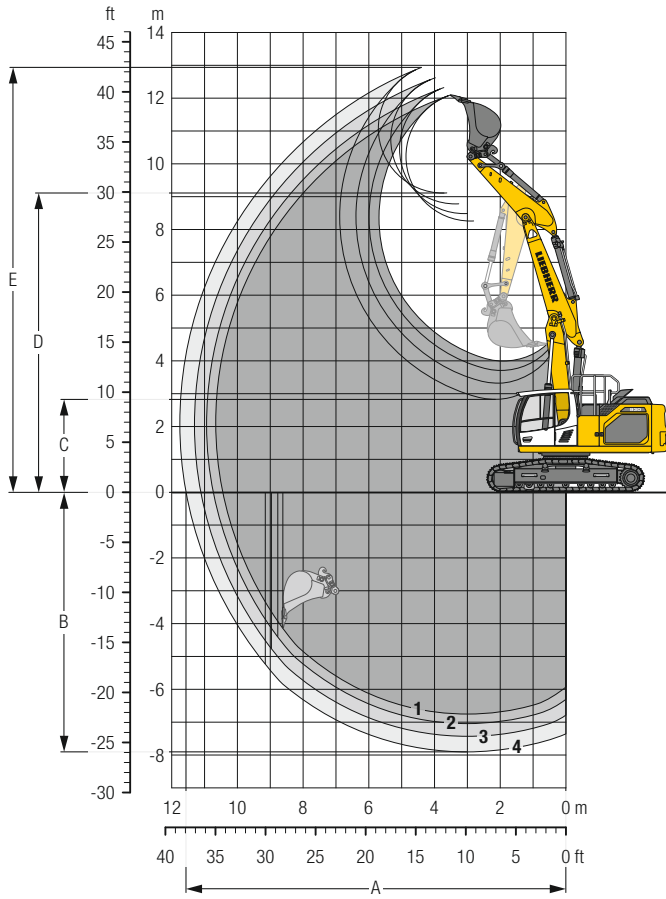
⁴⁾ Bucket for mounting to quick coupler

Other buckets available upon request

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

Backhoe bucket

with two-piece boom 6.40 m and counterweight 5.1 t



Digging envelope

with quick coupler	1	2	3	4
Stick length	m 2.50	2.80	3.20	3.70
A Max. reach at ground level	m 10.45	10.73	11.11	11.56
B Max. digging depth	m 6.75	7.05	7.43	7.91
C Min. dumping height	m 4.00	3.71	3.32	2.83
D Max. dumping height	m 8.26	8.49	8.79	9.11
E Max. cutting height	m 12.09	12.32	12.62	12.93

Forces

without quick coupler	1	2	3	4
Stick digging force (ISO 6015)	kN 168	156	142	128
Bucket digging force (ISO 6015)	kN 204	204	204	204
Stick digging force (SAE J1179)	kN 160	149	136	123
Bucket digging force (SAE J1179)	kN 178	178	178	178

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 5.1 t, two-piece boom 6.40 m, stick 3.20 m, quick coupler SWA 66 and bucket 1.60 m³ (1,170 kg).

Undercarriage	NLC			
Pad width	mm 600	750	900	
Weight	kg 31,300	31,800	32,350	
Ground pressure	kg/cm ² 0.61	0.50	0.42	

Undercarriage	LC			
Pad width	mm 600	750	900	
Weight	kg 31,400	31,950	32,450	
Ground pressure	kg/cm ² 0.61	0.50	0.42	

Undercarriage	LC-V			
Pad width	mm 600	750	900	
Weight	kg 35,400	36,050	36,650	
Ground pressure	kg/cm ² 0.66	0.54	0.46	

Optional: counterweight 6.2 t

(counterweight 6.2 t increases the operating weight by 1,100 kg and ground pressure by 0.02 kg/m²) see load tables on pages 24 and 25

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

	Cutting width mm	Capacity ISO 7451 m³	Weight ³⁾ kg	Weight ⁴⁾ kg	NLC-Undercarriage (with track pads 600 mm)								LC-Undercarriage (with track pads 600 mm)								LC-V-Undercarriage (with track pads 600 mm)								
					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				
					2.50	2.80	3.20	3.70	2.50	2.80	3.20	3.70	2.50	2.80	3.20	3.70	2.50	2.80	3.20	3.70	2.50	2.80	3.20	3.70	2.50	2.80	3.20	3.70	
with counterweight 5.1 t																													
STD ¹⁾	1,050	1.00	870	930	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.25	1,000	1,050	▲	▲	▲	■	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,400	1.45	1,070	1,130	▲	▲	■	■	▲	■	▲	△	▲	▲	▲	■	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,550	1.60	1,110	1,170	■	■	■	△	■	▲	△	△	▲	▲	■	▲	▲	■	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,650	1.75	1,160	1,220	▲	■	△	△	■	△	△	—	▲	■	▲	■	■	■	▲	△	▲	▲	▲	▲	▲	▲	▲	▲	■
	1,550	1.85	1,170	1,230	▲	■	▲	△	■	△	△	—	■	▲	■	▲	△	▲	■	▲	△	▲	▲	▲	■	▲	▲	▲	■
	1,650	2.00	1,210	1,270	■	△	△	—	△	△	—	—	▲	■	▲	△	△	■	△	△	—	▲	▲	▲	■	▲	▲	■	▲
1,750	2.15	1,260	1,320	△	△	—	—	△	—	—	—	■	▲	△	△	—	△	△	△	—	▲	▲	■	▲	■	▲	■	■	
HD ²⁾	1,050	1.00	1,000	1,050	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.25	1,140	1,200	▲	▲	▲	■	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,400	1.45	1,230	1,290	▲	■	▲	■	■	▲	■	△	▲	▲	▲	▲	▲	▲	■	■	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,550	1.60	1,290	1,350	■	▲	■	△	▲	■	△	△	▲	■	▲	■	■	■	■	▲	△	▲	▲	▲	▲	▲	▲	▲	▲
	1,650	1.75	1,350	1,410	▲	■	△	△	■	△	△	—	■	▲	■	▲	△	▲	■	▲	△	▲	▲	▲	▲	▲	▲	▲	■
	1,550	1.85	1,340	1,400	■	△	△	—	△	△	—	—	■	▲	■	▲	△	▲	■	△	△	▲	▲	▲	■	▲	▲	■	▲
	1,650	2.00	1,400	1,460	△	△	△	—	△	△	—	—	▲	■	▲	△	△	■	△	△	—	▲	▲	■	▲	▲	▲	■	■
1,750	2.15	1,450	1,510	△	△	—	—	△	—	—	—	■	▲	△	△	—	△	△	—	—	▲	■	▲	■	■	▲	■	■	
with counterweight 6.2 t																													
STD ¹⁾	1,050	1.00	870	930	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.25	1,000	1,050	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,400	1.45	1,070	1,130	▲	▲	▲	■	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,550	1.60	1,110	1,170	▲	▲	■	▲	▲	■	▲	■	▲	▲	▲	■	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,650	1.75	1,160	1,220	▲	■	▲	■	■	▲	■	△	▲	▲	■	▲	▲	■	■	■	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,550	1.85	1,170	1,230	■	▲	■	△	■	▲	■	△	▲	▲	■	▲	▲	■	■	■	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,650	2.00	1,210	1,270	▲	■	△	△	▲	■	△	△	■	■	▲	■	■	▲	■	△	▲	▲	▲	▲	▲	▲	▲	▲	■
1,750	2.15	1,260	1,320	■	■	△	△	■	△	△	—	■	▲	■	▲	△	▲	■	△	△	▲	▲	▲	■	▲	▲	■	▲	
HD ²⁾	1,050	1.00	1,000	1,050	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	1.25	1,140	1,200	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,400	1.45	1,230	1,290	▲	▲	▲	■	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	■	■	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,550	1.60	1,290	1,350	▲	▲	■	■	▲	■	▲	△	▲	▲	▲	■	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,650	1.75	1,350	1,410	■	■	▲	△	■	▲	■	△	▲	▲	■	▲	■	▲	■	■	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,550	1.85	1,340	1,400	■	▲	■	△	▲	■	■	△	▲	■	■	■	■	■	■	▲	△	▲	▲	▲	▲	▲	▲	▲	▲
	1,650	2.00	1,400	1,460	▲	■	△	△	■	△	△	—	■	▲	■	▲	△	▲	■	■	▲	▲	▲	■	▲	▲	▲	■	■
1,750	2.15	1,450	1,510	■	△	△	—	△	△	—	—	▲	■	▲	△	△	■	■	▲	△	▲	▲	▲	■	▲	▲	■	▲	

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

¹⁾ Standard bucket with teeth Z 50

²⁾ HD bucket with teeth Z 50

³⁾ Bucket for direct mounting

⁴⁾ Bucket for mounting to quick coupler

Other buckets available upon request

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

Lift capacities

with mono boom 6.20 m, counterweight 5.1 t and track pads 600 mm

Stick 2.50 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	
Height						
Can be slewed through 360°						
In longitudinal position of undercarriage						
Max. reach						
* Limited by hydr. capacity						
9.0						6.5 8.3* 6.4
7.5						5.1 8.1* 7.5
6.0						4.4 7.1 8.1
4.5		10.5	12.8*	6.9 10.2*	4.9 8.0	4.0 6.6 8.4
3.0		9.6 15.3*	6.5 11.1	4.7 7.8		3.9 6.5 8.4
1.5		9.1 16.5*	6.2 10.7	4.6 7.7		4.0 6.7 8.2
0		8.9 16.2*	6.0 10.5	4.5 7.5		4.4 7.4 7.6
-1.5	13.0*	13.0*	8.9 15.0*	6.0 10.4	4.5 7.5	5.3 8.5* 6.7
-3.0	15.9*	15.9*	9.1 16.5*	6.1 9.9*		7.4* 7.4* 5.2
-4.5		8.7*	8.7*			
-6.0						
9.0						7.1 8.3* 6.4
7.5						5.6 8.1* 7.5
6.0						4.8 7.2 8.1
4.5		11.6 12.8*	7.5 10.2*	5.4 8.1		4.4 6.7 8.4
3.0		10.7 15.3*	7.1 11.2	5.2 7.9		4.3 6.6 8.4
1.5		10.1 16.5*	6.8 10.8	5.0 7.7		4.4 6.8 8.2
0		10.0 16.2*	6.6 10.6	4.9 7.6		4.9 7.5 7.6
-1.5	13.0*	13.0*	10.0 15.0*	6.6 10.6	4.9 7.6	5.9 8.5* 6.7
-3.0	15.9*	15.9*	10.2 12.8*	6.7 9.9*		7.4* 7.4* 5.2
-4.5		8.7*	8.7*			
-6.0						
9.0						8.3* 8.3* 6.4
7.5						6.8 8.1* 7.5
6.0						6.0 8.2* 8.1
4.5		13.1*	13.1*	9.4 10.3*	6.7 8.9*	5.6 8.0 8.4
3.0		13.6 15.4*	9.0 11.3*	6.5 9.3*		5.5 7.9 8.4
1.5		13.1 16.5*	8.7 12.1*	6.4 9.2		5.7 8.2 8.2
0		12.9 16.2*	8.5 12.2*	6.3 9.1		6.2 8.7* 7.6
-1.5	13.8*	13.8*	13.0 14.9*	8.5 11.5*	6.3 8.8*	7.6 8.4* 6.7
-3.0	15.5*	15.5*	12.6*	12.6*	8.6 9.6*	7.2* 7.2* 5.2
-4.5		8.2*	8.2*			
-6.0						

Stick 2.80 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	
Height						
Can be slewed through 360°						
In longitudinal position of undercarriage						
Max. reach						
* Limited by hydr. capacity						
9.0						6.0 7.3* 6.8
7.5						4.8 7.1* 7.8
6.0						4.1 6.8 8.4
4.5	18.5*	18.5*	10.6 12.2*	6.9 9.8*	4.9 8.1	3.8 6.3 8.6
3.0			9.7 14.7*	6.5 11.0*	4.7 7.8	3.7 6.2 8.7
1.5			9.1 16.2*	6.2 10.7	4.5 7.6	3.8 6.3 8.4
0			8.9 16.3*	6.0 10.4	4.4 7.5	4.1 6.9 7.9
-1.5	12.5*	12.5*	8.8 15.3*	5.9 10.4	4.4 7.5	4.9 8.3* 7.0
-3.0	17.1*	17.1*	9.0 13.4*	6.0 10.3*		6.9 7.6* 5.6
-4.5	12.1*	12.1*	9.3 9.7*			
-6.0						
9.0						6.6 7.3* 6.8
7.5						5.2 7.1* 7.8
6.0						4.5 6.8 8.4
4.5	18.5*	18.5*	11.7 12.2*	7.6 9.8*	5.4 8.1	4.2 6.4 8.6
3.0			10.8 14.7*	7.2 11.0*	5.2 7.9	4.1 6.2 8.7
1.5			10.1 16.2*	6.8 10.8	5.0 7.7	4.2 6.4 8.4
0			9.9 16.3*	6.6 10.6	4.9 7.6	4.6 7.0 7.9
-1.5	12.5*	12.5*	9.9 15.3*	6.5 10.5	4.9 7.6	5.4 8.3* 7.0
-3.0	17.1*	17.1*	10.0 13.4*	6.6 10.3*		7.6* 7.6* 5.6
-4.5	12.1*	12.1*	9.7* 9.7*			
-6.0						
9.0						8.0* 8.0* 6.8
7.5						7.3* 7.3* 7.8
6.0						6.4 7.1* 8.4
4.5						5.7 7.2* 8.6
3.0						5.3 7.6* 8.7
1.5						5.2 7.5 8.4
0						5.4 7.7 8.4
-1.5	13.2*	13.2*	12.8 15.2*	8.4 11.6*	6.2 9.0*	5.9 8.4* 7.9
-3.0	16.7*	16.7*	13.0 13.1*	8.5 10.1*		7.0 8.3* 7.0
-4.5	11.5*	11.5*	9.3* 9.3*			7.4* 7.4* 5.6
-6.0						

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

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads. Indicated loads are based on ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 410 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.

Stick 3.20 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
Height	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
Can be slewed through 360°	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
In longitudinal position of undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
LC	LC	LC	LC	LC	LC	LC
LC-V	LC-V	LC-V	LC-V	LC-V	LC-V	LC-V
9.0	6.9*	6.9*	5.8			
7.5	5.4	6.3*	7.2			
6.0	4.4	6.1*	8.2			
4.5	3.9	6.2*	8.7			
3.0	3.6	5.9	9.0			
1.5	3.5	5.8	9.0			
0	3.5	5.9	8.8			
-1.5	3.8	6.4	8.3			
-3.0	4.4	7.5	7.5			
-4.5	5.9	7.6*	6.2			
-6.0						
9.0	6.9*	6.9*	5.8			
7.5	5.9	6.3*	7.2			
6.0	4.8	6.1*	8.2			
4.5	4.2	6.2*	8.7			
3.0	3.9	6.0	9.0			
1.5	3.8	5.8	9.0			
0	3.9	6.0	8.8			
-1.5	4.2	6.5	8.3			
-3.0	4.9	7.6	7.5			
-4.5	6.5	7.6*	6.2			
-6.0						
9.0	6.8*	6.8*	5.8			
7.5	6.3*	6.3*	7.2			
6.0	5.9	6.1*	8.2			
4.5	5.3	6.2*	8.7			
3.0	5.0	6.5*	9.0			
1.5	4.9	7.0*	9.0			
0	5.0	7.2	8.8			
-1.5	5.4	7.9	8.3			
-3.0	6.3	8.0*	7.5			
-4.5	7.5*	7.5*	6.2			
-6.0						

Stick 3.70 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
Height	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
Can be slewed through 360°	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
In longitudinal position of undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
LC	LC	LC	LC	LC	LC	LC
LC-V	LC-V	LC-V	LC-V	LC-V	LC-V	LC-V
9.0	5.7*	5.7*	6.5			
7.5	4.9	5.3*	7.8			
6.0	4.0	5.1*	8.6			
4.5	3.6	5.2*	9.2			
3.0	3.3	5.4*	9.4			
1.5	3.2	5.4	9.5			
0	3.2	5.5	9.2			
-1.5	3.5	5.9	8.8			
-3.0	3.9	6.7	8.0			
-4.5	5.0	7.6*	6.8			
-6.0	6.5*	6.5*	4.9			
9.0	5.7*	5.7*	6.5			
7.5	5.3*	5.3*	7.8			
6.0	4.4	5.1*	8.6			
4.5	3.9	5.2*	9.2			
3.0	3.6	5.4*	9.4			
1.5	3.5	5.4	9.5			
0	3.6	5.5	9.2			
-1.5	3.8	5.9	8.8			
-3.0	4.4	6.8	8.0			
-4.5	5.6	7.6*	6.8			
-6.0	6.5*	6.5*	4.9			
9.0	5.6*	5.6*	6.5			
7.5	5.2*	5.2*	7.8			
6.0	5.1*	5.1*	8.6			
4.5	4.9	5.2*	9.2			
3.0	4.6	5.4*	9.4			
1.5	4.5	5.8*	9.5			
0	4.6	6.5*	9.2			
-1.5	5.0	7.2	8.8			
-3.0	5.7	7.7*	8.0			
-4.5	7.3	7.5*	6.8			
-6.0			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. 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 410 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.

Lift capacities

with mono boom 6.20 m, counterweight 6.2 t and track pads 600 mm

Stick 2.50 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		m
		Height	Can be slewed through 360°	Height	Can be slewed through 360°	Height	Can be slewed through 360°	Height	Can be slewed through 360°	Height	Can be slewed through 360°	Height	Can be slewed through 360°	
NLC	9.0													
	7.5													
	6.0													
	4.5													
	3.0													
	1.5													
	0													
	-1.5	13.0*	13.0*	10.0	15.0*	6.7	11.4	5.0	8.3			4.9	8.1	7.6
	-3.0	15.9*	15.9*	10.1	16.5*	6.9	11.7	5.1	8.4			4.4	7.1	8.4
	-4.5			8.7*	8.7*							7.4*	7.4*	5.2
LC	9.0													
	7.5													
	6.0													
	4.5													
	3.0													
	1.5													
	0													
	-1.5	13.0*	13.0*	11.1	15.0*	7.4	11.5	5.5	8.3			5.4	8.2	7.6
	-3.0	15.9*	15.9*	11.3	16.2*	7.5	11.6	5.6	8.5			6.5	8.5*	6.7
	-4.5			8.7*	8.7*							7.4*	7.4*	5.2
LC-V	9.0													
	7.5													
	6.0													
	4.5													
	3.0													
	1.5													
	0													
	-1.5	13.8*	13.8*	14.2	14.9*	9.3	11.5*	6.9	8.8*			6.8	8.7*	7.6
	-3.0	15.5*	15.5*	12.6*	12.6*	9.4	9.6*					8.3	8.4*	6.7
	-4.5			8.2*	8.2*							7.2*	7.2*	5.2

Stick 2.80 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		m
		Height	Can be slewed through 360°	Height	Can be slewed through 360°	Height	Can be slewed through 360°	Height	Can be slewed through 360°	Height	Can be slewed through 360°	Height	Can be slewed through 360°	
NLC	9.0													
	7.5													
	6.0													
	4.5	18.5*	18.5*	11.7	12.2*	7.6	9.8*	5.5	8.6*			4.6	7.2*	8.4
	3.0			10.8	14.7*	7.2	11.0*	5.3	8.6			4.3	6.9	8.6
	1.5			10.1	16.2*	6.9	11.7	5.1	8.3			4.2	6.8	8.7
	0			9.9	16.3*	6.7	11.4	5.0	8.2			4.3	7.0	8.4
	-1.5	12.5*	12.5*	9.9	15.3*	6.6	11.3	4.9	8.2			4.6	7.6	7.9
	-3.0	17.1*	17.1*	10.0	13.4*	6.7	10.3*					5.5	8.3*	7.0
	-4.5	12.1*	12.1*	9.7*	9.7*							7.6*	7.6*	5.6
LC	9.0													
	7.5													
	6.0													
	4.5	18.5*	18.5*	12.2*	12.2*	8.3	9.8*	6.0	8.6*			5.0	7.2*	8.4
	3.0			11.9	14.7*	7.9	11.0*	5.8	8.6			4.7	7.0	8.6
	1.5			11.3	16.2*	7.6	11.8	5.6	8.4			4.6	6.8	8.7
	0			11.0	16.3*	7.3	11.5	5.5	8.3			4.7	7.0	8.4
	-1.5	12.5*	12.5*	11.0	15.3*	7.3	11.5	5.4	8.3			5.1	7.7	7.9
	-3.0	17.1*	17.1*	11.1	13.4*	7.4	10.3*					6.0	8.3*	7.0
	-4.5	12.1*	12.1*	9.7*	9.7*							7.6*	7.6*	5.6
LC-V	9.0													
	7.5													
	6.0													
	4.5													
	3.0													
	1.5													
	0													
	-1.5	13.2*	13.2*	14.1	15.2*	9.2	11.6*	6.8	9.0*			6.4	8.4*	7.9
	-3.0	16.7*	16.7*	13.1*	13.1*	9.3	10.1*					7.7	8.3*	7.0
	-4.5	11.5*	11.5*	9.3*	9.3*							7.4*	7.4*	5.6

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 410 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.

Stick 3.20 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
Height	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
Can be slewed through 360°	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
In longitudinal position of undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
LC	LC	LC	LC	LC	LC	LC
LC-V	LC-V	LC-V	LC-V	LC-V	LC-V	LC-V
9.0	6.9*	6.9*	5.8			
7.5	6.0	6.3*	7.2			
6.0	4.9	6.1*	8.2			
4.5	4.3	6.2*	8.7			
3.0	10.9	14.0*	7.3	10.5*	5.3	8.6
1.5	10.2	15.8*	6.9	11.6*	5.1	8.3
0	6.5*	6.5*	9.9	16.3*	6.6	11.4
-1.5	12.0*	12.0*	9.8	15.7*	6.5	11.3
-3.0	18.6*	18.6*	9.9	14.0*	6.6	10.7*
-4.5	14.0*	14.0*	10.2	10.9*	6.8	8.0*
-6.0						
LC	LC	LC	LC	LC	LC	LC
LC-V	LC-V	LC-V	LC-V	LC-V	LC-V	LC-V
9.0	6.9*	6.9*	5.8			
7.5	6.3*	6.3*	7.2			
6.0	5.3	6.1*	8.2			
4.5	4.7	6.2*	8.7			
3.0	12.1	14.0*	7.9	10.5*	5.8	8.6
1.5	11.3	15.8*	7.6	11.6*	5.6	8.4
0	6.5*	6.5*	11.0	16.3*	7.3	11.5
-1.5	12.0*	12.0*	10.9	15.7*	7.2	11.4
-3.0	18.6*	18.6*	11.0	14.0*	7.3	10.7*
-4.5	14.0*	14.0*	10.9*	10.9*	7.5	8.0*
-6.0						
LC-V	LC-V	LC-V	LC-V	LC-V	LC-V	LC-V
9.0	6.8*	6.8*	5.8			
7.5	6.3*	6.3*	7.2			
6.0	6.1*	6.1*	8.2			
4.5	5.8	6.2*	8.7			
3.0	17.0*	17.0*	11.7*	11.7*	9.4*	9.4*
1.5	14.2*	14.2*	9.8	10.6*	7.1	8.8*
0	7.0*	7.0*	14.0	16.3*	9.2	12.1*
-1.5	12.5*	12.5*	13.9	15.5*	9.1	11.8*
-3.0	18.3*	18.3*	13.8*	13.8*	9.2	10.5*
-4.5	13.5*	13.5*	10.5*	10.5*	7.6*	7.6*
-6.0						

Stick 3.70 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
Height	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
Can be slewed through 360°	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
In longitudinal position of undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
LC	LC	LC	LC	LC	LC	LC
LC-V	LC-V	LC-V	LC-V	LC-V	LC-V	LC-V
9.0	5.7*	5.7*	6.5			
7.5	5.3*	5.3*	7.8			
6.0	4.5	5.1*	8.6			
4.5	4.0	5.2*	9.2			
3.0	11.4*	11.4*	11.2	13.1*	7.3	10.0*
1.5	10.3	15.3*	6.9	11.2*	5.1	8.3
0	7.6*	7.6*	9.9	16.2*	6.6	11.4
-1.5	11.6*	11.6*	9.7	15.9*	6.5	11.2
-3.0	17.0*	17.0*	9.7	14.6*	6.5	11.1*
-4.5	16.1*	16.1*	10.0	12.1*	6.6	9.1*
-6.0			7.1*	7.1*		
LC	LC	LC	LC	LC	LC	LC
LC-V	LC-V	LC-V	LC-V	LC-V	LC-V	LC-V
9.0	5.7*	5.7*	6.5			
7.5	5.3*	5.3*	7.8			
6.0	4.9	5.1*	8.6			
4.5	4.3	5.2*	9.2			
3.0	11.4*	11.4*	12.3	13.1*	8.0	10.0*
1.5	11.4	15.3*	7.6	11.2*	5.5	8.4
0	7.6*	7.6*	11.0	16.2*	7.3	11.5
-1.5	11.6*	11.6*	10.8	15.9*	7.1	11.3
-3.0	17.0*	17.0*	10.8	14.6*	7.1	11.1*
-4.5	16.1*	16.1*	11.1	12.1*	7.3	9.1*
-6.0			7.1*	7.1*		
LC-V	LC-V	LC-V	LC-V	LC-V	LC-V	LC-V
9.0	5.6*	5.6*	6.5			
7.5	5.2*	5.2*	7.8			
6.0	5.1*	5.1*	8.6			
4.5	5.2*	5.2*	9.2			
3.0	9.7*	9.7*	13.3*	13.3*	9.9	10.1*
1.5	5.3*	5.3*	14.5	15.4*	9.5	11.3*
0	7.9*	7.9*	14.0	16.2*	9.2	11.9*
-1.5	12.0*	12.0*	13.9	15.9*	9.0	11.9*
-3.0	17.6*	17.6*	13.9	14.5*	9.0	11.0*
-4.5	15.7*	15.7*	11.8*	11.8*	8.8*	8.8*
-6.0						

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

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads. Indicated loads are based on ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 410 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.

Lift capacities

with mono boom straight 6.50 m, counterweight 5.1 t and track pads 600 mm

Stick 2.50 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
Height	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
Can be slewed through 360°						
In longitudinal position of undercarriage						
10.5						8.5 9.4* 5.4
9.0						5.7 8.4* 6.9
7.5			7.3 9.7*			
6.0		11.1 12.2*	7.1 10.1*	5.0 8.1		4.5 7.4 7.9
4.5		10.2 14.3*	6.7 10.9*	4.8 7.9		4.0 6.5 8.5
3.0		9.3 15.2*	6.3 10.8	4.6 7.7		3.7 6.1 8.8
1.5		8.8 9.4*	6.0 10.5	4.5 7.5		3.6 6.0 8.8
0		8.7 13.6*	5.9 10.3	4.4 7.4		3.7 6.2 8.6
-1.5	9.1* 9.1*	8.8 13.3*	5.8 10.3	4.4 7.4		4.0 6.8 8.0
-3.0	11.0* 11.0*	9.0 10.6*	6.0 8.6*			4.8 6.5* 7.2
-4.5						
10.5						9.3 9.4* 5.4
9.0						6.2 8.4* 6.9
7.5			7.9 9.7*			
6.0		12.2 12.2*	7.7 10.1*	5.4 8.2		5.0 7.5 7.9
4.5		11.3 14.3*	7.4 10.9*	5.3 8.0		4.4 6.6 8.5
3.0		10.3 15.2*	7.0 11.0	5.1 7.8		4.1 6.2 8.8
1.5		9.4* 9.4*	6.6 10.6	4.9 7.6		4.0 6.1 8.8
0		9.8 13.6*	6.5 10.4	4.8 7.5		4.1 6.3 8.6
-1.5	9.1* 9.1*	9.8 13.3*	6.5 10.4	4.8 7.5		4.4 6.9 8.0
-3.0	11.0* 11.0*	10.0 10.6*	6.6 8.6*			5.3 6.5* 7.2
-4.5						
10.5						9.2* 9.2* 5.4
9.0						7.5 8.4* 6.9
7.5			9.7* 9.7*			
6.0		12.4* 12.4*	9.6 10.2*	6.8 8.9*		6.2 8.1* 7.9
4.5		14.2 14.5*	9.2 11.0*	6.6 9.2*		5.5 7.8 8.5
3.0		13.2 13.7*	8.8 11.8*	6.4 9.3		5.1 7.4 8.8
1.5		9.5* 9.5*	8.5 12.2*	6.3 9.1		5.1 7.3 8.8
0		12.7 14.2*	8.3 11.8*	6.2 9.0		5.2 7.6 8.6
-1.5	10.0* 10.0*	12.8 13.1*	8.3 10.6*	6.2 8.2*		5.7 7.3* 8.0
-3.0	10.6* 10.6*	10.3* 10.3*	8.4* 8.4*			6.4* 6.4* 7.2
-4.5						

Stick 2.80 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
Height	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
Can be slewed through 360°						
In longitudinal position of undercarriage						
10.5						7.5 8.2* 5.9
9.0						5.3 7.4* 7.3
7.5			7.3 9.3*			
6.0		11.2* 11.2*	7.1 9.8*	5.0 8.1		4.3 7.0 8.2
4.5		10.3 13.7*	6.7 10.6*	4.8 7.9		3.8 6.2 8.8
3.0		9.4 15.7*	6.3 10.9	4.6 7.7	3.5 5.8	3.5 5.8 9.1
1.5		8.8 11.9*	6.0 10.5	4.4 7.5	3.4 5.8	3.4 5.7 9.1
0		8.7 14.3*	5.8 10.3	4.3 7.4		3.5 5.9 8.9
-1.5	9.3* 9.3*	8.7 13.8*	5.8 10.2	4.3 7.4		3.8 6.4 8.3
-3.0	12.5* 12.5*	8.9 11.2*	5.9 9.1*	4.4 6.5*		4.4 6.5* 7.5
-4.5		7.3* 7.3*	5.4* 5.4*			4.9* 4.9* 6.2
10.5						8.2* 8.2* 5.9
9.0						5.7 7.4* 7.3
7.5			8.0 9.3*			
6.0		11.2* 11.2*	7.8 9.8*	5.5 8.2		4.7 7.1 8.2
4.5		11.4 13.7*	7.4 10.6*	5.3 8.0		4.1 6.3 8.8
3.0		10.4 15.7*	7.0 11.0	5.1 7.8	3.9 5.9	3.8 5.9 9.1
1.5		9.8 11.9*	6.6 10.6	4.9 7.6	3.8 5.8	3.8 5.8 9.1
0		9.7 14.3*	6.4 10.4	4.8 7.5		3.9 5.9 8.9
-1.5	9.3* 9.3*	9.7 13.8*	6.4 10.3	4.8 7.4		4.2 6.4 8.3
-3.0	12.5* 12.5*	9.9 11.2*	6.5 9.1*	4.9 6.5*		4.9 6.5* 7.5
-4.5		7.3* 7.3*	5.4* 5.4*			4.9* 4.9* 6.2
10.5						8.0* 8.0* 5.9
9.0			8.2* 8.2*			7.0 7.3* 7.3
7.5			9.4* 9.4*			
6.0		11.6* 11.6*	9.6 9.8*	6.8 8.7*		5.8 7.1* 8.2
4.5		13.9* 13.9*	9.2 10.7*	6.6 9.0*		5.2 7.1* 8.8
3.0		13.3 15.9*	8.8 11.6*	6.4 9.3	4.9 7.1	4.9 7.0 9.1
1.5		11.9* 11.9*	8.5 12.1*	6.2 9.1	4.9 7.0	4.8 6.9 9.1
0		12.6 14.8*	8.3 11.8*	6.1 9.0		4.9 7.2 8.9
-1.5	9.9* 9.9*	12.7 13.6*	8.3 10.8*	6.1 8.5*		5.4 7.1* 8.3
-3.0	12.2* 12.2*	11.0* 11.0*	8.4 8.8*			6.3 6.4* 7.5
-4.5		6.8* 6.8*	4.9* 4.9*			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. 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 410 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.

Stick 3.20 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m			
Height								
Can be slewed through 360°								
In longitudinal position of undercarriage								
Max. reach								
10.5								
9.0								
7.5								
6.0								
4.5								
3.0								
1.5								
0								
-1.5								
-3.0								
-4.5								
10.5								
9.0								
7.5								
6.0								
4.5								
3.0								
1.5								
0								
-1.5								
-3.0								
-4.5								
10.5								
9.0								
7.5								
6.0								
4.5								
3.0								
1.5								
0								
-1.5								
-3.0								
-4.5								

Stick 3.70 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m			
Height								
Can be slewed through 360°								
In longitudinal position of undercarriage								
Max. reach								
10.5								
9.0								
7.5								
6.0								
4.5								
3.0								
1.5								
0								
-1.5								
-3.0								
-4.5								
10.5								
9.0								
7.5								
6.0								
4.5								
3.0								
1.5								
0								
-1.5								
-3.0								
-4.5								
10.5								
9.0								
7.5								
6.0								
4.5								
3.0								
1.5								
0								
-1.5								
-3.0								
-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 410 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.

with mono boom straight 6.50 m, counterweight 6.2 t and track pads 600 mm

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

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.

 Max. reach * Limited by hydr. capacity

Stick 3.20 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	
Height						
Can be slewed through 360°						
In longitudinal position of undercarriage						
Max. reach						
* Limited by hydr. capacity						
10.5						6.9*
9.0						6.9*
7.5						6.4
6.0						7.8
4.5						8.6
3.0						9.2
1.5						9.4
0						9.5
-1.5	9.1*	9.1*				8.8
-3.0	14.4*	14.4*				8.0
-4.5						6.8
10.5						6.9*
9.0						6.9*
7.5						6.4
6.0						7.8
4.5						8.6
3.0						9.2
1.5						9.4
0						9.5
-1.5	9.1*	9.1*				8.8
-3.0	14.4*	14.4*				8.0
-4.5						6.8
10.5						6.8*
9.0						6.8*
7.5						6.4
6.0						7.8
4.5						8.6
3.0						9.2
1.5						9.4
0						9.5
-1.5	9.1*	9.1*				8.8
-3.0	14.4*	14.4*				8.0
-4.5						6.8
10.5						6.8*
9.0						6.8*
7.5						6.4
6.0						7.8
4.5						8.6
3.0						9.2
1.5						9.4
0						9.5
-1.5	9.1*	9.1*				8.8
-3.0	14.4*	14.4*				8.0
-4.5						6.8

Stick 3.70 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	
Height						
Can be slewed through 360°						
In longitudinal position of undercarriage						
Max. reach						
* Limited by hydr. capacity						
10.5						6.7*
9.0						6.7*
7.5						5.2
6.0						7.1
4.5						8.3
3.0						9.1
1.5						9.6
0						9.9
-1.5	4.9*	4.9*				9.7
-3.0	14.1*	14.1*				9.2
-4.5						8.5
10.5						6.7*
9.0						6.7*
7.5						5.2
6.0						7.1
4.5						8.3
3.0						9.1
1.5						9.6
0						9.9
-1.5	4.9*	4.9*				9.7
-3.0	14.1*	14.1*				9.2
-4.5						8.5
10.5						6.6*
9.0						6.6*
7.5						5.2
6.0						7.1
4.5						8.3
3.0						9.1
1.5						9.6
0						9.9
-1.5	4.9*	4.9*				9.7
-3.0	14.1*	14.1*				9.2
-4.5						8.5
10.5						6.6*
9.0						6.6*
7.5						5.2
6.0						7.1
4.5						8.3
3.0						9.1
1.5						9.6
0						9.9
-1.5	4.9*	4.9*				9.7
-3.0	14.1*	14.1*				9.2
-4.5						8.5

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 410 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.

Lift capacities

with two-piece boom 6.40 m, counterweight 5.1 t and track pads 600 mm

Stick 2.50 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	
↕	↕	↕	↕	↕	↕	↕
m	m	m	m	m	m	m
10.5						9.1 9.5* 5.2
9.0						5.9 8.4* 6.8
7.5		11.3* 11.3*				4.7 7.7 7.8
6.0	13.6* 13.6*	11.6 13.3*	7.6 11.1*	5.0 8.2		4.0 6.7 8.4
4.5	20.5 20.9*	11.3 15.3*	7.4 11.5	5.0 8.2		3.7 6.3 8.6
3.0	19.9 20.9*	10.7 16.4*	7.0 11.3	4.9 8.1		3.6 6.1 8.7
1.5	13.5* 13.5*	9.9 16.3*	6.6 11.3	4.7 7.8		3.7 6.4 8.4
0	17.5 19.1*	9.3 16.4*	6.3 10.9	4.5 7.6		4.1 6.0* 7.9
-1.5	17.5 19.1*	9.1 16.3*	6.1 10.7	4.4 7.5		4.4* 4.4* 7.0
-3.0	17.7 21.3*	9.2 14.8*	6.0 9.4*			6.0* 6.0* 4.8
-4.5	13.6* 13.6*	7.2* 7.2*				
10.5						9.5* 9.5* 5.2
9.0						6.5 8.4* 6.8
7.5		11.4* 11.4*	8.2 10.9*			5.1 7.8 7.8
6.0	13.6* 13.6*	12.6 13.3*	8.3 11.1*	5.5 8.3		4.5 6.8 8.4
4.5	20.9* 20.9*	12.2 15.3*	8.1 11.6	5.5 8.3		4.1 6.3 8.6
3.0	20.9* 20.9*	11.9 16.4*	7.7 11.4	5.4 8.2		4.0 6.2 8.7
1.5	13.5* 13.5*	11.0 16.3*	7.3 11.3	5.1 7.9		4.1 6.4 8.4
0	19.1* 19.1*	10.4 16.4*	6.9 11.0	5.0 7.7		4.5 6.0* 7.9
-1.5	20.1 24.0*	10.2 16.3*	6.8 10.8	4.8 7.6		4.4* 4.4* 7.0
-3.0	20.3 21.3*	10.3 14.8*	6.7 9.4*			6.0* 6.0* 4.8
-4.5	13.6* 13.6*	7.2* 7.2*				
10.5						9.3* 9.3* 5.2
9.0						7.8 8.4* 6.8
7.5		11.5* 11.5*	10.0 10.9*			6.3 8.1* 7.8
6.0	15.0* 15.0*	13.7* 13.7*	9.9 11.1*	6.9 9.5*		5.6 8.0 8.4
4.5	20.7* 20.7*	14.6 15.5*	9.8 11.7*	6.8 9.6*		5.2 7.6 8.6
3.0	20.3* 20.3*	14.3 16.4*	9.6 12.1*	6.7 9.5		5.1 7.5 8.7
1.5	13.8* 13.8*	13.9 16.3*	9.1 12.1*	6.5 9.4		5.3 6.9* 8.4
0	19.8* 19.8*	13.4 16.4*	8.8 12.1*	6.3 9.2		5.9 5.9* 7.9
-1.5	23.8* 23.8*	13.2 16.3*	8.6 12.0*	6.2 7.7*		4.2* 4.2* 7.0
-3.0	21.0* 21.0*	13.3 14.6*	8.5 8.9*			6.8* 6.8* 4.8
-4.5	12.1* 12.1*					

Stick 2.80 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	
↕	↕	↕	↕	↕	↕	↕
m	m	m	m	m	m	m
10.5						8.0 8.2* 5.7
9.0						5.5 7.4* 7.1
7.5		10.2* 10.2*				4.4 7.1* 8.1
6.0	10.1* 10.1*	11.6* 11.6*	7.7 10.8*	5.1 8.3		3.8 6.4 8.6
4.5	20.6 21.5*	11.3 14.9*	7.5 11.4*	5.1 8.3		3.5 5.9 8.9
3.0	20.0* 20.7*	10.9 16.2*	7.1 11.3	4.9 8.1		3.4 5.8 9.0
1.5	16.2* 16.2*	10.0 16.2*	6.6 11.2	4.7 7.9		3.5 6.0 8.7
0	17.5 19.1*	9.4 16.3*	6.3 10.9	4.5 7.6		3.8 6.0* 8.2
-1.5	17.3 24.4*	9.1 16.3*	6.1 10.7	4.3 7.5		4.5 4.6* 7.4
-3.0	17.5 22.1*	9.1 15.2*	5.9 10.3*			5.0* 5.0* 5.5
-4.5	16.2* 16.2*	9.2 9.4*				
10.5						8.2* 8.2* 5.7
9.0						6.0 7.4* 7.1
7.5		10.0* 10.0*	8.3 9.9*			4.8 7.1* 8.1
6.0	10.1* 10.1*	11.6* 11.6*	8.3 10.8*	5.6 8.4		4.2 6.4 8.6
4.5	21.5* 21.5*	12.2 14.9*	8.2 11.4*	5.6 8.4		3.9 6.0 8.9
3.0	20.7* 20.7*	12.0 16.2*	7.8 11.4	5.4 8.2		3.8 5.9 9.0
1.5	16.2* 16.2*	11.1 16.2*	7.3 11.3	5.2 8.0		3.9 6.1 8.7
0	19.1* 19.1*	10.4 16.3*	6.9 11.0	5.0 7.7		4.2 6.0* 8.2
-1.5	19.9 24.4*	10.2 16.3*	6.7 10.8	4.8 7.6		4.6* 4.6* 7.4
-3.0	20.1 22.1*	10.2 15.2*	6.6 10.3*			5.0* 5.0* 5.5
-4.5	16.2* 16.2*	9.4* 9.4*				
10.5						10.6* 10.6* 5.7
9.0						8.1* 8.1* 7.1
7.5		10.1* 10.1*				7.3 7.4* 8.1
6.0	10.9* 10.9*	11.9* 11.9*	9.9 10.9*	7.0 9.3*		6.0 7.1* 8.6
4.5	21.3* 21.3*	14.6 15.1*	9.7 11.5*	6.9 9.4*		5.3 7.1* 8.9
3.0	20.8* 20.8*	14.3 16.3*	9.6 12.0*	6.8 9.4		4.9 7.1 9.0
1.5	16.2* 16.2*	14.0 16.2*	9.2 12.0*	6.5 9.4		5.0 6.7* 8.7
0	19.6* 19.6*	13.4 16.3*	8.8 12.0*	6.3 9.2		5.5 5.9* 8.2
-1.5	24.3* 24.3*	13.1 16.3*	8.6 12.1*	6.2 8.5*		4.4* 4.4* 7.4
-3.0	21.8* 21.8*	13.2 15.0*	8.5 10.0*			5.3* 5.3* 5.5
-4.5	15.0* 15.0*	8.5* 8.5*				

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

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads with adjusting cylinder in optimal position. Indicated loads are based on ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 410 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.

Stick 3.20 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		m
NLC	10.5											8.8*	8.8*	4.0
	9.0			8.8*	8.8*	7.4	7.7*					6.9	7.0*	6.3
	7.5			8.3*	8.3*	7.7	8.6*	5.1	6.8*			4.9	6.3*	7.6
	6.0			9.4*	9.4*	7.7	9.5*	5.2	8.3			4.0	6.1*	8.5
	4.5	20.9	21.4*	11.3	14.3*	7.6	11.1*	5.2	8.3	3.6	6.0	3.5	5.9	9.0
	3.0	20.0	20.7*	11.1*	15.9*	7.2	11.2	5.0	8.2	3.5	5.9	3.3	5.6	9.3
	1.5	18.7	19.7*	10.1	16.2*	6.7	11.1	4.8	8.0	3.4	5.8	3.2	5.5	9.3
	0	17.6	19.3*	9.4	16.1*	6.3	10.9	4.5	7.7	3.3	5.7	3.3	5.6	9.1
	-1.5	17.2	24.0*	9.0	16.3*	6.0	10.7	4.3	7.5			3.5	5.8*	8.6
	-3.0	17.3	23.0*	9.0	15.6*	5.9	10.5	4.3	6.4*			4.1	4.7*	7.8
	-4.5	17.8	18.7*	9.1	11.7*	5.9*	5.9*					4.1*	4.1*	6.3
LC	10.5											8.8*	8.8*	4.0
	9.0			8.8*	8.8*	7.7*	7.7*					7.0*	7.0*	6.3
	7.5			8.3*	8.3*	8.3	8.6*	5.6	6.8*			5.4	6.3*	7.6
	6.0			9.4*	9.4*	8.3	9.5*	5.7	8.4			4.4	6.1*	8.5
	4.5	21.4*	21.4*	12.3	14.3*	8.2	11.1*	5.7	8.4	3.9	6.0	3.9	6.0	9.0
	3.0	20.7*	20.7*	11.9	15.9*	7.8	11.3	5.5	8.3	3.9	6.0	3.6	5.6	9.3
	1.5	19.7*	19.7*	11.2	16.2*	7.3	11.2	5.3	8.1	3.8	5.9	3.5	5.5	9.3
	0	19.3*	19.3*	10.5	16.1*	6.9	11.1	5.0	7.8	3.7	5.8	3.6	5.7	9.1
	-1.5	19.8	24.0*	10.1	16.3*	6.7	10.8	4.8	7.5			3.9	5.8*	8.6
	-3.0	19.9	23.0*	10.0	15.6*	6.6	10.6	4.7	6.4*			4.5	4.7*	7.8
	-4.5	18.7*	18.7*	10.1	11.7*	5.9*	5.9*					4.1*	4.1*	6.3
LC-V	10.5											8.5*	8.5*	4.0
	9.0			8.7*	8.7*	8.0*	8.0*					6.9*	6.9*	6.3
	7.5			8.3*	8.3*	8.7*	8.7*	6.9	7.1*			6.3*	6.3*	7.6
	6.0			9.7*	9.7*	9.7*	9.7*	7.1	8.9*			5.5	6.1*	8.5
	4.5	21.5*	21.5*	14.5*	14.5*	9.7	11.2*	7.0	9.3*	5.0	6.5*	4.9	6.1*	9.0
	3.0	20.7*	20.7*	14.3	16.0*	9.6	11.8*	6.9	9.4	4.9	7.1	4.6	6.3*	9.3
	1.5	19.2*	19.2*	14.1	16.2*	9.2	12.0*	6.6	9.3	4.8	7.0	4.6	6.6	9.3
	0	19.6*	19.6*	13.5	16.1*	8.8	11.9*	6.3	9.3	4.7	6.8*	4.7	6.5*	9.1
	-1.5	24.6*	24.6*	13.1	16.3*	8.6	12.0*	6.1	9.0*			5.1	5.8*	8.6
	-3.0	22.7*	22.7*	13.0	15.5*	8.4	10.9*	5.9*	5.9*			4.6*	4.6*	7.8
	-4.5	18.1*	18.1*	11.0*	11.0*	5.0*	5.0*					4.3*	4.3*	6.3

Stick 3.70 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		m
NLC	10.5											6.9*	6.9*	4.9
	9.0					7.2*	7.2*					5.8*	5.8*	6.9
	7.5					7.3*	7.3*	5.3	6.8*			4.4	5.3*	8.1
	6.0			7.3*	7.3*	7.7	8.0*	5.4	7.6*			3.7	5.1*	9.0
	4.5	13.8*	13.8*	11.2*	11.2*	7.5	10.0*	5.3	8.3	3.7	6.1	3.3	5.2*	9.5
	3.0	20.1	21.0*	11.1	15.4*	7.3	11.2	5.1	8.2	3.6	6.0	3.0	5.2	9.7
	1.5	19.4	21.6*	10.3	16.1*	6.8	11.1	4.8	8.0	3.5	5.8	2.9	5.1	9.8
	0	17.8	20.2*	9.5	16.0*	6.3	11.0	4.6	7.8	3.3	5.7	3.0	5.2	9.6
	-1.5	17.2	22.7*	9.0	16.1*	6.0	10.7	4.3	7.5	3.2	5.6	3.2	5.5	9.1
	-3.0	17.1	23.8*	8.9	15.9*	5.9	10.5	4.2	7.3			3.6	4.8*	8.3
	-4.5	17.5	20.6*	9.0	13.7*	5.8	8.4*					3.5*	3.5*	7.2
LC	10.5					7.7*	7.7*					6.9*	6.9*	4.9
	9.0					7.2*	7.2*					5.8*	5.8*	6.9
	7.5					7.3*	7.3*	5.8	6.8*			4.9	5.3*	8.1
	6.0					7.3*	7.3*	8.0*	8.0*	5.8	7.6*	4.1	5.1*	9.0
	4.5	13.8*	13.8*	11.2*	11.2*	8.2	10.0*	5.8	8.4	4.0	6.1	3.6	5.2*	9.5
	3.0	21.0*	21.0*	11.9	15.4*	8.0	11.3	5.6	8.2	4.0	6.0	3.4	5.2	9.7
	1.5	21.6*	21.6*	11.4	16.1*	7.4	11.1	5.3	8.1	3.8	5.9	3.3	5.1	9.8
	0	20.2*	20.2*	10.6	16.0*	7.0	11.1	5.1	7.9	3.7	5.8	3.3	5.2	9.6
	-1.5	19.8	22.7*	10.1	16.1*	6.7	10.8	4.8	7.6	3.6	5.7	3.6	5.6	9.1
	-3.0	19.7	23.8*	9.9	15.9*	6.5	10.6	4.7	7.4			4.0	4.8*	8.3
	-4.5	20.1	20.6*	10.0	13.7*	6.5	8.4*					3.5*	3.5*	7.2
LC-V	10.5					7.8*	7.8*					6.7*	6.7*	4.9
	9.0					7.2*	7.2*					5.7*	5.7*	6.9
	7.5					7.4*	7.4*	6.9*	6.9*			5.3*	5.3*	8.1
	6.0					7.5*	7.5*	8.1*	8.1*	7.1	7.7*	5.1	5.3*	9.0
	4.5	18.6*	18.6*	12.0*	12.0*	9.7	10.3*	7.1	9.0*	5.1	7.0*	4.6	5.2*	9.5
	3.0	21.0*	21.0*	14.3	15.5*	9.5	11.5*	6.9	9.3*	5.0	7.2	4.3	5.3*	9.7
	1.5	21.7*	21.7*	14.1	16.1*	9.3	11.9*	6.7	9.3	4.9	7.1	4.2	5.7*	9.8
	0	20.2*	20.2*	13.6	16.0*	8.8	11.8*	6.4	9.3	4.7	6.9	4.3	6.2*	9.6
	-1.5	23.1*	23.1*	13.1	16.1*	8.5	11.9*	6.1	9.1	4.7	5.9*	4.6	5.7*	9.1
	-3.0	23.6*	23.6*	12.9	15.8*	8.4	11.6*	6.0	7.7*			4.7*	4.7*	8.3
	-4.5	20.1*	20.1*	13.0	13.2*	7.9*	7.9*					3.6*	3.6*	7.2

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 410 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.

Lift capacities

with two-piece boom 6.40 m, counterweight 6.2 t and track pads 600 mm

Stick 2.50 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
Height	10.5	11.3*	11.3*	11.3*	11.3*	11.3*
Can be slewed through 360°	9.0	11.4*	11.4*	11.4*	11.4*	11.4*
In longitudinal position of undercarriage	7.5	11.4*	11.4*	11.4*	11.4*	11.4*
	6.0	13.6*	13.6*	13.6*	13.6*	13.6*
	4.5	20.9*	20.9*	12.2	15.3*	8.3
	3.0	20.9*	20.9*	11.8	16.4*	7.7
	1.5	13.5*	13.5*	10.9	16.3*	7.3
	0	19.1*	19.1*	10.4	16.4*	7.0
	-1.5	19.4	24.0*	10.2	16.3*	6.8
	-3.0	19.7	21.3*	10.2	14.8*	6.7
	-4.5	13.6*	13.6*	7.2*	7.2*	6.0*

Stick 2.80 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	Max. reach
Height	10.5	11.3*	11.3*	11.3*	11.3*	11.3*
Can be slewed through 360°	9.0	11.4*	11.4*	11.4*	11.4*	11.4*
In longitudinal position of undercarriage	7.5	11.4*	11.4*	11.4*	11.4*	11.4*
	6.0	10.1*	10.1*	11.6*	11.6*	8.4
	4.5	21.5*	21.5*	12.2	14.9*	8.2
	3.0	20.7*	20.7*	11.9	16.2*	7.8
	1.5	16.2*	16.2*	11.0	16.2*	7.3
	0	19.1*	19.1*	10.4	16.3*	7.0
	-1.5	19.3	24.4*	10.1	16.3*	6.8
	-3.0	19.5	22.1*	10.1	15.2*	6.7
	-4.5	16.2*	16.2*	9.4*	9.4*	6.0*

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

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads 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 410 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.

Stick 3.20 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		m
NLC	10.5											8.8*	8.8*	4.0
	9.0			8.8*	8.8*	7.7*	7.7*					7.0*	7.0*	6.3
	7.5			8.3*	8.3*	8.4	8.6*	5.6	6.8*			5.5	6.3*	7.6
	6.0			9.4*	9.4*	8.4	9.5*	5.8	8.7*			4.5	6.1*	8.5
	4.5	21.4*	21.4*	12.2	14.3*	8.2	11.1*	5.7	8.9	4.0	6.3*	4.0	6.1*	9.0
	3.0	20.7*	20.7*	11.9	15.9*	7.9	11.8*	5.6	8.8	4.0	6.5	3.7	6.1	9.3
	1.5	19.7*	19.7*	11.1	16.2*	7.4	11.8	5.3	8.7	3.9	6.4	3.6	6.0	9.3
	0	19.3*	19.3*	10.4	16.1*	7.0	11.8	5.1	8.4	3.8	6.3	3.7	6.2	9.1
	-1.5	19.2	24.0*	10.1	16.3*	6.8	11.6	4.9	8.2			4.0	5.8*	8.6
	-3.0	19.3	23.0*	10.0	15.6*	6.6	11.1*	4.8	6.4*			4.6	4.7*	7.8
	-4.5	18.7*	18.7*	10.1	11.7*	5.9*	5.9*					4.1*	4.1*	6.3
LC	10.5											8.8*	8.8*	4.0
	9.0			8.8*	8.8*	7.7*	7.7*					7.0*	7.0*	6.3
	7.5			8.3*	8.3*	8.6*	8.6*	6.1	6.8*			6.0	6.3*	7.6
	6.0			9.4*	9.4*	9.0	9.5*	6.3	8.7*			4.9	6.1*	8.5
	4.5	21.4*	21.4*	13.2	14.3*	8.8	11.1*	6.2	8.9	4.4	6.3*	4.4	6.1*	9.0
	3.0	20.7*	20.7*	12.8	15.9*	8.6	11.8*	6.1	8.8	4.3	6.5	4.1	6.2	9.3
	1.5	19.7*	19.7*	12.3	16.2*	8.1	11.8	5.8	8.8	4.2	6.4	4.0	6.1	9.3
	0	19.3*	19.3*	11.6	16.1*	7.7	11.8	5.6	8.5	4.1	6.3	4.1	6.2	9.1
	-1.5	22.0	24.0*	11.2	16.3*	7.4	11.8	5.4	8.3			4.4	5.8*	8.6
	-3.0	22.1	23.0*	11.2	15.6*	7.3	11.1*	5.3	6.4*			4.7*	4.7*	7.8
	-4.5	18.7*	18.7*	11.3	11.7*	5.9*	5.9*					4.1*	4.1*	6.3
LC-V	10.5											8.5*	8.5*	4.0
	9.0			8.7*	8.7*	8.0*	8.0*					6.9*	6.9*	6.3
	7.5			8.3*	8.3*	8.7*	8.7*	7.1*	7.1*			6.3*	6.3*	7.6
	6.0			9.7*	9.7*	9.7*	9.7*	7.6	8.9*			6.0	6.1*	8.5
	4.5	21.5*	21.5*	14.5*	14.5*	10.4	11.2*	7.6	9.3*	5.5	6.5*	5.4	6.1*	9.0
	3.0	20.7*	20.7*	15.1	16.0*	10.2	11.8*	7.4	9.5*	5.4	7.7	5.1	6.3*	9.3
	1.5	19.2*	19.2*	15.0	16.2*	10.0	12.0*	7.2	9.4*	5.3	7.6	5.0	6.7*	9.3
	0	19.6*	19.6*	14.7	16.1*	9.6	11.9*	6.9	9.4*	5.2	6.8*	5.2	6.5*	9.1
	-1.5	24.6*	24.6*	14.3	16.3*	9.4	12.0*	6.7	9.0*			5.6	5.8*	8.6
	-3.0	22.7*	22.7*	14.3	15.5*	9.2	10.9*	5.9*	5.9*			4.6*	4.6*	7.8
	-4.5	18.1*	18.1*	11.0*	11.0*	5.0*	5.0*					4.3*	4.3*	6.3

Stick 3.70 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		m
NLC	10.5											6.9*	6.9*	4.9
	9.0					7.2*	7.2*					5.8*	5.8*	6.9
	7.5					7.3*	7.3*	5.8	6.8*			4.9	5.3*	8.1
	6.0			7.3*	7.3*	8.0*	8.0*	5.9	7.6*			4.1	5.1*	9.0
	4.5	13.8*	13.8*	11.2*	11.2*	8.2	10.0*	5.8	8.9	4.1	6.6	3.7	5.2*	9.5
	3.0	21.0*	21.0*	11.9	15.4*	8.0	11.5*	5.6	8.7	4.0	6.5	3.4	5.3*	9.7
	1.5	21.2	21.6*	11.4	16.1*	7.5	11.7	5.4	8.7	3.9	6.4	3.3	5.6	9.8
	0	19.8	20.2*	10.6	16.0*	7.0	11.7	5.1	8.5	3.8	6.3	3.4	5.7	9.6
	-1.5	19.2	22.7*	10.1	16.1*	6.7	11.6	4.9	8.2	3.7	6.1*	3.6	5.7*	9.1
	-3.0	19.1	23.8*	9.9	15.9*	6.6	11.5	4.7	8.0*			4.1	4.8*	8.3
	-4.5	19.4	20.6*	10.0	13.7*	6.5	8.4*					3.5*	3.5*	7.2
LC	10.5			7.7*	7.7*							6.9*	6.9*	4.9
	9.0					7.2*	7.2*					5.8*	5.8*	6.9
	7.5					7.3*	7.3*	6.3	6.8*			5.3*	5.3*	8.1
	6.0			7.3*	7.3*	8.0*	8.0*	6.4	7.6*			4.5	5.1*	9.0
	4.5	13.8*	13.8*	11.2*	11.2*	8.8	10.0*	6.3	8.9*	4.5	6.7	4.0	5.2*	9.5
	3.0	21.0*	21.0*	12.8	15.4*	8.6	11.5*	6.2	8.8	4.4	6.6	3.8	5.3*	9.7
	1.5	21.6*	21.6*	12.6	16.1*	8.2	11.8	5.9	8.7	4.3	6.5	3.7	5.6*	9.8
	0	20.2*	20.2*	11.7	16.0*	7.7	11.7	5.6	8.6	4.1	6.3	3.8	5.8	9.6
	-1.5	22.0	22.7*	11.2	16.1*	7.4	11.8	5.4	8.3	4.1	6.1*	4.0	5.7*	9.1
	-3.0	21.9	23.8*	11.1	15.9*	7.3	11.6	5.2	8.0*			4.5	4.8*	8.3
	-4.5	20.6*	20.6*	11.1	13.7*	7.2	8.4*					3.5*	3.5*	7.2
LC-V	10.5			7.8*	7.8*							6.7*	6.7*	4.9
	9.0					7.2*	7.2*					5.7*	5.7*	6.9
	7.5					7.4*	7.4*	6.9*	6.9*			5.3*	5.3*	8.1
	6.0			7.5*	7.5*	8.1*	8.1*	7.6	7.7*	5.3*	5.3*	5.1*	5.1*	9.0
	4.5	18.6*	18.6*	12.0*	12.0*	10.3*	10.3*	7.6	9.0*	5.6	7.0*	5.0	5.2*	9.5
	3.0	21.0*	21.0*	15.2	15.5*	10.2	11.5*	7.5	9.3*	5.5	7.7	4.7	5.3*	9.7
	1.5	21.7*	21.7*	14.9	16.1*	10.1	11.9*	7.3	9.4*	5.4	7.6	4.7	5.7*	9.8
	0	20.2*	20.2*	14.8	16.0*	9.6	11.8*	7.0	9.3*	5.2	7.4*	4.8	6.2*	9.6
	-1.5	23.1*	23.1*	14.3	16.1*	9.3	11.9*	6.7	9.3*	5.1	5.9*	5.1	5.7*	9.1
	-3.0	23.6*	23.6*	14.2	15.8*	9.2	11.6*	6.6	7.7*			4.7*	4.7*	8.3
	-4.5	20.1*	20.1*	13.2*	13.2*	7.9*	7.9*					3.6*	3.6*	7.2

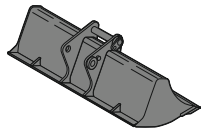
Height
 Can be slewed through 360°
 In longitudinal position of undercarriage
 Max. reach
 * Limited by hydr. capacity

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 410 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.

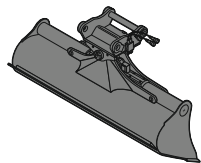
Attachments



Rigid ditch cleaning bucket

GRL 100, for mounting to quick coupler SWA 66

Cutting width	mm	2,000	2,400	2,400
Capacity	m ³	0.70	0.85	1.25
Weight	kg	546	635	685



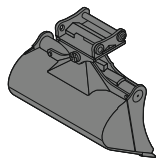
Tiltable ditch cleaning bucket

GRL 100, 2 x 50° tiltable, for direct mounting

Cutting width	mm	2,000	2,000	2,200	2,400	2,400
Capacity	m ³	1.20	1.45	1.65	0.85	1.45
Weight	kg	1,520	1,600	1,680	1,475	1,620

GRL 100, 2 x 50° tiltable, for mounting to quick coupler SWA 66

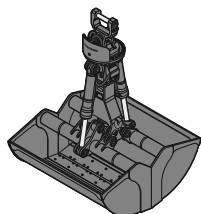
Cutting width	mm	2,000	2,000	2,200	2,400	2,400
Capacity	m ³	1.20	1.45	1.65	0.85	1.45
Weight	kg	1,520	1,600	1,680	1,475	1,620



Tilt bucket

SL 100, 2 x 50° tiltable, for mounting to quick coupler SWA 66

Cutting width	mm	1,600	1,600	1,700	1,800
Capacity	m ³	1.45	1.75	1.85	1.60
Weight	kg	1,520	1,635	1,695	1,620
HD-version				X	



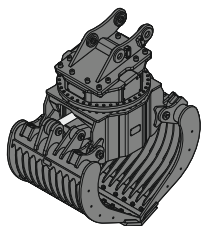
Clamshells

GM 20C, earthmoving shell, for mounting to quick coupler SWA 48

Cutting width	mm	600	800	1,000	1,200
Capacity	m ³	0.45	0.60	0.75	0.90
Weight	kg	1,080	1,130	1,205	1,270

GMZ 80, earthmoving shell, for mounting to quick coupler SWA 66

Cutting width	mm	1,200	1,400		
Capacity	m ³	1.40	1.60		
Weight	kg	2,376	2,486		



Sorting grab

SG 30, for direct mounting

		perforated			ribbed			closed			stone tong
Cutting width	mm	1,000	1,200	1,400	1,000	1,200	1,400	1,000	1,200	1,400	1,020
Capacity	m ³	0.85	1.00	1.15	0.75	0.90	1.05	0.85	1.00	1.15	0.85
Weight	kg	1,700	1,570	1,850	1,775	1,885	1,990	1,730	1,810	1,890	1,765

SG 30, for mounting to quick coupler SWA 48

Cutting width	mm	1,000	1,200	1,400	1,000	1,200	1,400	1,000	1,200	1,400	1,020
Capacity	m ³	0.85	1.00	1.15	0.75	0.90	1.05	0.85	1.00	1.15	0.85
Weight	kg	1,700	1,570	1,850	1,775	1,885	1,990	1,730	1,810	1,890	1,765

SG 40, for mounting to quick coupler SWA 48 and SWA 66

Cutting width	mm	1,100	1,300		1,100	1,300					
Capacity	m ³	1.30	1.60		1.10	1.40					
Weight	kg	2,230	2,800		2,320	2,900					

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 coolant level, visible from the cab
Engine hood with gas spring opening
Filters accessible from ground level
Handrails
Hydraulic oil level, visible from ground level
Lockable fuel tank cap
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 drive gearbox oil level, visible from the cab
Swing-out radiators
Windshield washer fluid tank, accessible from ground level

Hydraulic system

Dedicated swing circuit
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
Fixed geometry turbocharger
Fuel fine filter
Fuel pre-filter and water separator
Fuel priming pump
Intercooler
Power Pack EU Stage V

Cab

7" multifunction colour touchscreen
Air conditioning, automatic, tri-zone, controlled via display
Armrests adjustable in width, 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 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 meters, 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
Shortcut button on joystick configurable
Stepless adjustable engine speed
Storage box
Storage nets
Storage spaces
Swing braking torque adjustable via touchscreen
Tilttable 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
Pivot points made of cast steel
SAE split flanges on high pressure lines
Stick cylinder regeneration

* optionally extendable after one year

Equipment standard / option

Undercarriage

Chain guide 1 piece	•
Chain guide 2 pieces	+
Chain guide 3 pieces	+
Chain guide 4 pieces	+
Cover and base plate for undercarriage centre section	•
Reinforced cover and base plate for undercarriage centre section	+
Reinforced cover plate for centre section (LC-V undercarriage)	+
Screws protection for sideframe (LC-V undercarriage)	+
Special painting	+
Steps	•
Steps wide	+
Track pads triple grouser 600 mm	•
Track pads triple grouser 750/900 mm	+
Track pads triple grouser reinforced 600 mm	+
Tracks, sealed and greased	•
Tracks, sealed and greased, reinforced	+
Undercarriage LC	+
Undercarriage LC-V	+
Undercarriage NLC	+
Undercarriage storage compartment	+

Upper-carriage

Air pre-filter with cyclonical dust trap	+
Boxing ring	+
Catwalk tiltable front left	+
Counterweight heavy 6,2 t	+
Counterweight standard 5.1 t	•
Electric socket on uppercarriage (24 V)	+
Extended tool set including tool box	+
External starting aid (24 V)	+
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⁾
Pre-heating system for fuel	+
Radiator fine mesh protection grid	+
Reflective warning stickers	+
Reversible fan drive	+
Rotating beacons on uppercarriage, rear, LED, 2 pieces	+
Skyview 360°	+
Special painting	+
Tank refilling pump fuel	+
Tool set including storage case	•
Undercarriage bottom and side protection	+
Undercarriage bottom closure sheets	•



Hydraulic system

Bypass filter for hydraulic oil	+
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	+



Engine

Automatic engine shutdown after idling	+
Engine shut-down with overrun	+
Lighting for engine compartment	+ ¹⁾



Cab

2" seat belt with retractor	•
3" seat belt with retractor, orange colour	+
4-points seat belt	+
Acoustic travel alarm deactivatable	+
Auxiliary heater programmable	+
Bottom windscreen wiper	+
Coming/Leaving Home	+ ¹⁾
Cool box (12 V)	+
Dark tinted windows	+
Electrically adjustable and heated outside rear-view mirrors	+
Electronic immobiliser	+
Emergency stop in cab	+
FGPS front guard	+
FGPS front guard tiltable	+
Filter for hydraulic hammer return flow	+
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	+
Integral protection guard	+
Laminated roof window	•
Lightbar on cabin	+
Lighting for cabin access	+ ¹⁾
Luminosity control (LED+ headlights)	+ ¹⁾
Medium pressure circuit	+
Mini-joysticks proportional	+
Movement restriction for boom	+
Movement restriction for stick	+
Operator seat Comfort	•
Operator seat Premium	+
Overload warning system	+
Preparation for machine guidance system	+
Preparation for tiltrotator	+
Preparation for weighing system	+
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	+
Special painting	+
Straight travel via mini-joystick	+
Sun visor	+
Switch between high pressure and bucket cylinder controls	+
Windscreen bottom protection grid	+



Equipment

Boom bottom protection	+
Bucket cylinder rod protection	+
Centralised lubrication extended for connecting link	+
Floating boom	+
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 LIKUFIX	+
LIKUFIX electric signal plug	+
LIKUFIX for quick coupler SWA 48 hydraulic	+
LIKUFIX for quick coupler SWA 66 hydraulic	+
Load holding valve for bucket cylinder	+
Lubrication hoses protection on stick	+
Mono boom 6.20 m	+
Mono boom straight 6.50 m	+
Pipe fracture safety valve for stick cylinder	+
Pipe fracture safety valves for boom cylinders	+
Quick coupler SWA 48 hydraulic	+
Quick coupler SWA 48 mechanical	+
Quick coupler SWA 66 hydraulic	+
Quick coupler SWA 66 mechanical	+
Special painting	+
Stick 2.50 m	+
Stick 2.80 m	+
Stick 3.20 m	+
Stick 3.70 m	+
Stick bottom protection	+
Tool Management	+
Two-piece boom 6.40 m	+

• = 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.

Notes

The Liebherr Group of Companies



Wide Product Range

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

Exceptional Customer Benefit

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

State-of-the-art Technology

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

Worldwide and Independent

Hans Liebherr founded the Liebherr family company in 1949. Since then, the family business has steadily grown to a group of more than 140 companies with nearly 48,000 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

Liebherr-France SAS

2 avenue Joseph Rey, B.P. 90287, FR-68005 Colmar Cedex
☎ +33 389 21 30 30, Fax +33 389 21 37 93
www.liebherr.com, E-Mail: info.lfr@liebherr.com
www.facebook.com/LiebherrConstruction