R 920 Compact Litronic

LIEBHERR

Crawler excavator

Generation
6

Operating weight
18,750–21,900 kg

Engine
110 kW / 150 HP
Stage V

Bucket capacity
0.30–0.95 m³

Experience the progress R 920 Compact

Maintenance

- Servicing concept, with service points accessible from ground level
- Engine oil level and filling nozzle accessible from ground level
- Standard shut-off valve on hydraulic tank outlet

Equipment

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

Safety

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

Comfort

- Spacious, air-conditioned work space
- Airsprung seat with vertical and horizontal suspension
- Easy-to-use high resolution 7" colour touchscreen
- Completely retractable front cab window

Compactness

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

Engine

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

Undercarriage

- Robust, reliable X-frame undercarriage, easy to secure thanks to its integrated eyelets
- Easy maintenance
- Dozer and stabilizer blade (option)
- Optional rubber track pads for urban application
- Extra storage as an option
- Maintenance-free travel gear and track rollers with lifetime lubrication

Technical data

Engine

Rating per ISO 9249	110 kW (150 HP) at 1,800 RPM
Torque	682 Nm at 1,400 RPM
Model	Liebherr D924 A7-05
Type	4 cylinder in-line
Bore	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 integrated motor oil cooler
Air cleaner	Dry-type air cleaner with pre-cleaner, primary and safety elements
Fuel tank	250 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 with integrated safety valves, simultaneous and independent actuation of undercarriage, swing drive and equipment
Servo circuit	
Equipment and swing	Proportional via joystick levers
Travel	– Proportional control via foot pedals or removable levers – Speed pre-selection
Additional functions	Proportional regulation via foot pedals or mini-joystick

Hydraulic system

Hydraulic pump	Liebherr, variable displacement, swashplate pump
Max. flow	300 l/min.
Max. pressure	350 bar
Hydraulic pump regulation and control	Liebherr-Synchron-Comfort-system (LSC) with electronic engine speed sensing regulation, pressure and flow compensation, torque controlled swing drive priority
Hydraulic tank	130 l
Hydraulic system	max. 300 l
Filtration	1 main return filter with integrated partial micro filtration (5 µm)
Cooling system	Compact cooling system comprising cooling unit for water, hydraulic oil and charge air with stepless, thermostatically controlled 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	0–10.0 RPM stepless
Swing torque	51 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
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	100 dB(A) = L_{WA} (surround noise)

Undercarriage

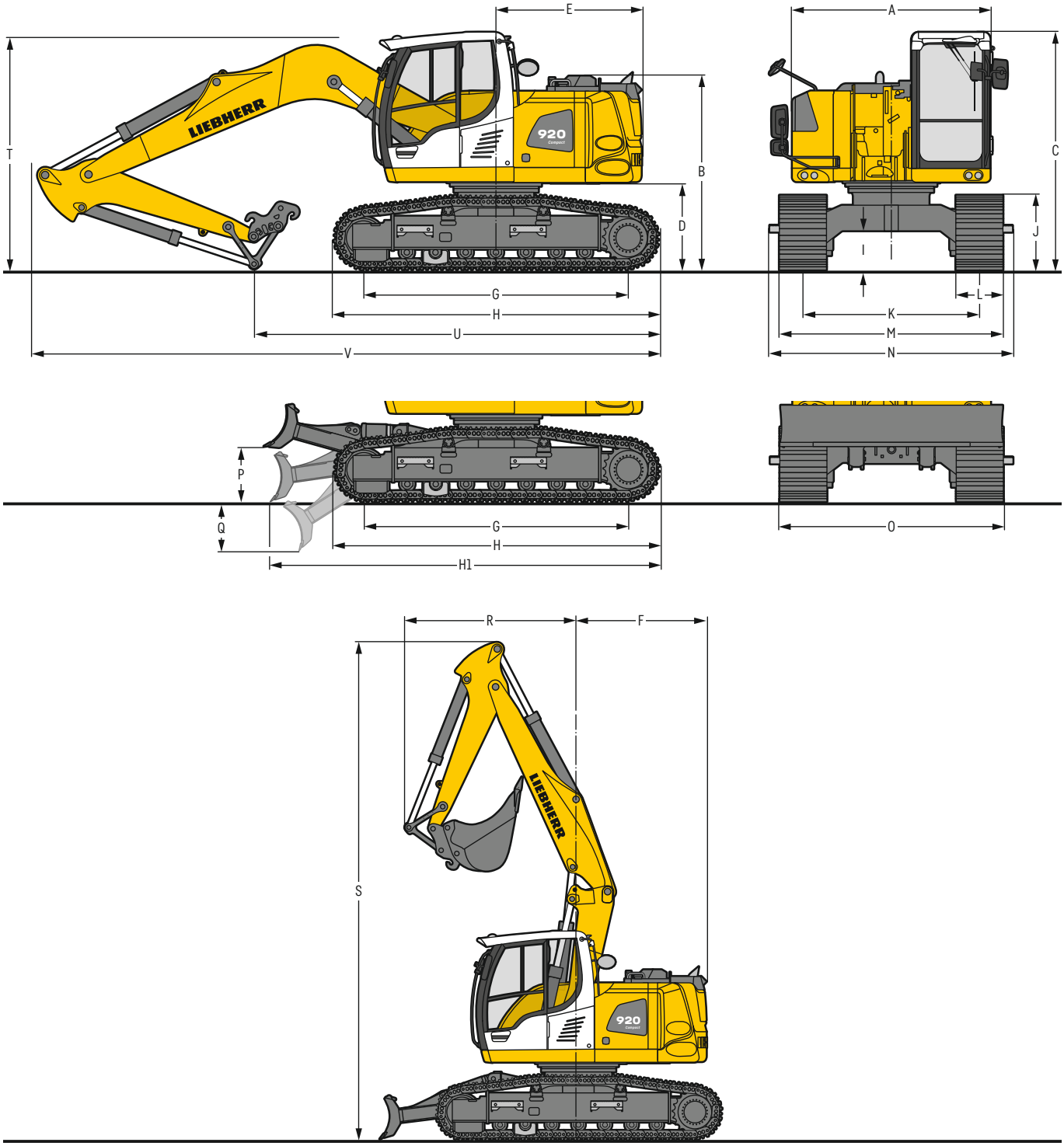
Versions	
NLC	Gauge 2,000 mm
LC	Standard gauge 2,250 mm
Drive	Liebherr swashplate motor with brake valves on both sides
Transmission	Liebherr compact planetary reduction gear
Maximum travel speed	2.6 km/h low range 5.7 km/h high range
Drawbar pull on crawler	192 kN
Track components	B60, maintenance-free
Track rollers / Carrier rollers	7 / 2
Tracks	Sealed and greased
Track pads	Triple grouser
Holding brake	Wet multi-disc (spring applied, pressure released)
Brake valves	Integrated into travel motor
Lashing eyes	Integrated

Equipment

Hydraulic cylinders	Liebherr cylinders with seal and guidance systems
Bearings	Sealed, low maintenance
Lubrication	Liebherr central lubrication 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	NLC with blade		mm	LC			mm	LC with blade			mm
A	Uppercarriage width			2,525			2,525				2,525				2,525
B	Uppercarriage height			2,470			2,470				2,470				2,470
C	Cab height			3,035			3,035				3,035				3,035
D	Counterweight ground clearance			1,100			1,100				1,100				1,100
E	Rear-end length			1,850			1,850				1,850				1,850
F	Tail swing radius			1,850			1,850				1,850				1,850
G	Wheelbase			3,370			3,370				3,370				3,370
H	Undercarriage length			4,150			4,150				4,150				4,150
H1	Undercarriage length with blade			–			5,110				–				5,040
I	Undercarriage ground clearance			490			490				490				490
J	Track height			955			955				955				955
K	Track gauge			2,000			2,000				2,250				2,250
L	Track pad width	500	600	750	500	600	750	500	600	750	900	500	600	750	900
M	Width over tracks	2,500	2,600	2,750	2,500	2,600	2,750	2,750	2,850	3,000	3,150	2,750	2,850	3,000	3,150
N	Width over steps	2,490	2,660[1)]	2,660[1)]	2,490	2,660[1)]	2,660[1)]	2,800	2,800	3,000[1)]	3,100[1)]	2,800	2,800	3,000[1)]	3,100[1)]
O	Blade width			–	2,500	2,600	2,850				–	2,850	2,850	3,000	–
P	Max. blade height			–			685				–				685
Q	Max. blade depth			–			635				–				635

[1)] width with removable steps

		Stick length m	Mono boom 5.00 m with quick coupler mm	Two-piece boom 5.30 m with quick coupler mm	Mono boom offset 4.90 m with quick coupler mm	Two-piece boom offset 5.00 m with quick coupler mm
R	Front swing radius	2.25	2,550	2,650	2,750	3,100
		2.45	2,400	2,700	2,450	2,850
		2.65	2,450	2,750	2,300	2,750
S	Height with boom up		7,300	7,550	7,250	7,300
T	Boom height	2.25	3,000	3,000	2,800	2,950
		2.45	3,050	3,050	2,850	3,050
		2.65	3,150	3,100	2,900	3,100
U	Length on ground	2.25	5,150	5,700	4,950	5,400
		2.45	5,050	5,600	4,800	5,300
		2.65	4,850	5,500	4,650	5,200
V	Overall length		8,100	8,300	7,950	8,100
	Bucket		0.80 m^3	0.80 m^3	0.80 m^3	0.80 m^3

Transport dimensions

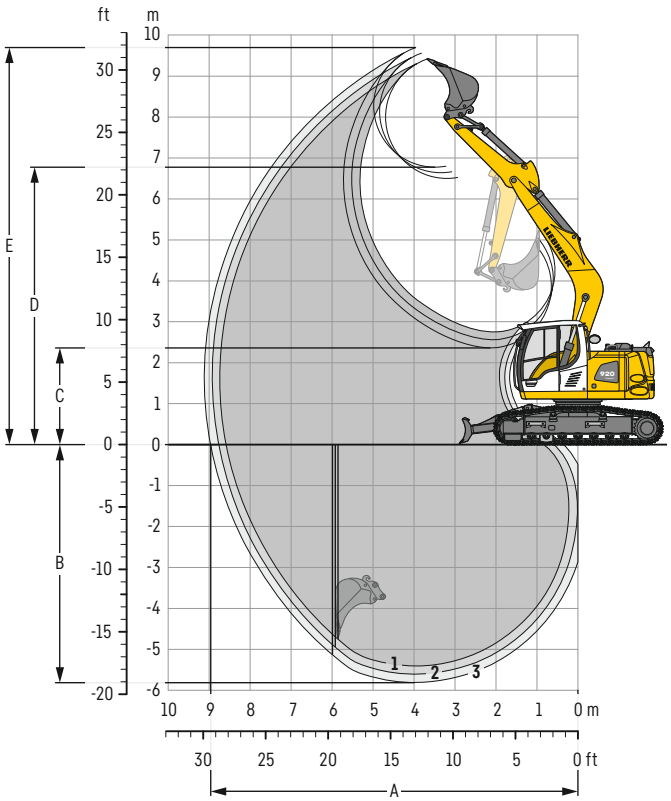
removable elements disassembled

	Undercarriage	Mono boom 5.00 m			Two-piece boom 5.30 m			Mono boom offset 4.90 m				Two-piece boom offset 5.00 m			
		mm			mm			mm				mm			
Pad width		500	600	750	500	600	750	500	600	750	900	500	600	750	900
Transport width	NLC	2,525	2,600	2,750	2,525	2,600	2,750	2,525	2,600	2,750	–	2,525	2,600	2,750	–
	LC	2,750	2,850	3,000	2,750	2,850	3,000	2,750	2,850	3,000	3,150	2,750	2,850	3,000	3,150

	Undercarriage / Stick m	NLC / LC mm	NLC with blade mm	LC with blade mm	NLC / LC mm	NLC with blade mm	LC with blade mm	NLC / LC mm	NLC with blade mm	LC with blade mm	NLC / LC mm	NLC with blade mm	LC with blade mm
Transport length		8,100	9,100	9,000	8,300	9,300	9,200	7,950	8,950	8,850	8,100	9,100	9,000
Transport height	2.25		3,035			3,035			3,035			3,035	
	2.45		3,050			3,050			3,050			3,050	
	2.65		3,150			3,150			3,150			3,150	

Backhoe bucket

with mono boom 5.00 m



Digging envelope

with quick coupler		1	2	3
Stick length	m	2.25	2.45	2.65
A Max. reach at ground level	m	8.55	8.75	8.95
B Max. digging depth	m	5.40	5.60	5.80
C Min. dumping height	m	2.75	2.55	2.35
D Max. dumping height	m	6.50	6.65	6.80
E Max. cutting height	m	9.40	9.55	9.70

Forces

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

Operating weight and ground pressure

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

Undercarriage		NLC		
Pad width	mm	500	600	750
Weight	kg	18,750	19,000	19,400
Ground pressure	kg/cm²	0.52	0.44	0.36

Undercarriage		NLC with blade		
Pad width	mm	500	600	750
Weight	kg	20,250	20,500	20,900
Ground pressure	kg/cm²	0.56	0.47	0.39

Undercarriage		LC		
Pad width	mm	500	600	750
Weight	kg	18,800	19,050	19,450
Ground pressure	kg/cm²	0.52	0.44	0.36

Undercarriage		LC with blade		
Pad width	mm	500	600	750
Weight	kg	20,400	20,650	21,050
Ground pressure	kg/cm²	0.56	0.47	0.39

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

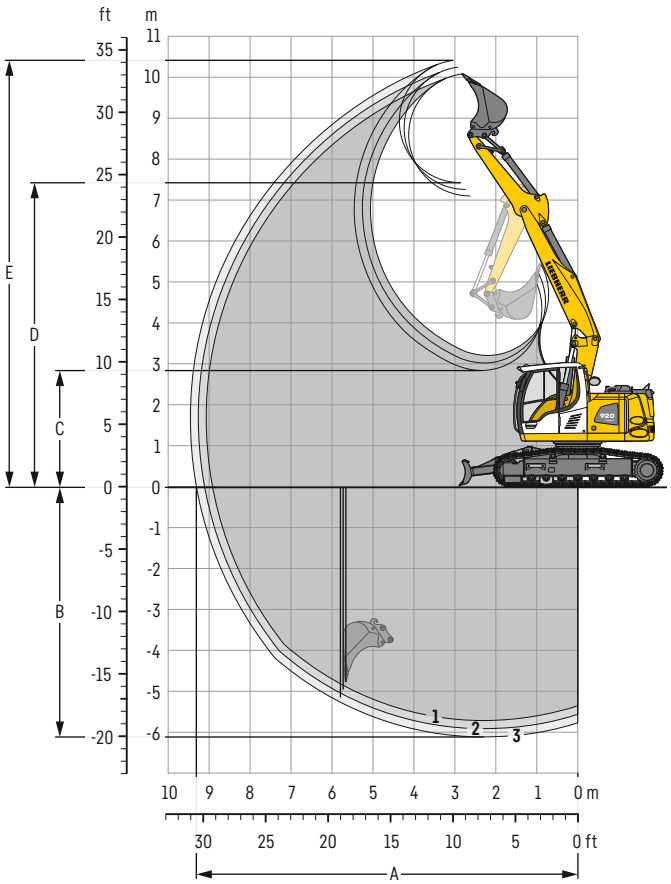
	Cutting width	Capacity ISO 7451	Weight[3]	NLC undercarriage (with track pads 500 mm)						NLC undercarriage with blade (with track pads 500 mm)						LC undercarriage (with track pads 600 mm)						LC undercarriage with blade (with track pads 600 mm)					
				Stick length (m)						Stick length (m)				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

* Indicated loads are based on ISO 10567, at maximum reach, and may be swung 360° on firm and even ground
1) Standard bucket with teeth UNI-35-3
2) HD bucket with teeth UNI-35-3
3) Bucket for direct mounting or mounting to quick coupler
Other buckets available upon request

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

Backhoe bucket

with two-piece boom 5.30 m



Digging envelope

with quick coupler		1	2	3
Stick length	m	2.25	2.45	2.65
A Max. reach at ground level	m	8.90	9.10	9.30
B Max. digging depth	m	5.70	5.90	6.10
C Min. dumping height	m	3.20	3.00	2.85
D Max. dumping height	m	7.10	7.25	7.40
E Max. cutting height	m	10.10	10.25	10.40

Forces

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

Operating weight and ground pressure

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

Undercarriage		NLC		
Pad width	mm	500	600	750
Weight	kg	19,050	19,300	19,700
Ground pressure	kg/cm²	0.52	0.44	0.36

Undercarriage		NLC with blade		
Pad width	mm	500	600	750
Weight	kg	20,550	20,800	21,200
Ground pressure	kg/cm²	0.56	0.47	0.39

Undercarriage		LC		
Pad width	mm	500	600	750
Weight	kg	19,100	19,350	19,750
Ground pressure	kg/cm²	0.52	0.44	0.36

Undercarriage		LC with blade		
Pad width	mm	500	600	750
Weight	kg	20,700	20,950	21,350
Ground pressure	kg/cm²	0.56	0.47	0.39

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

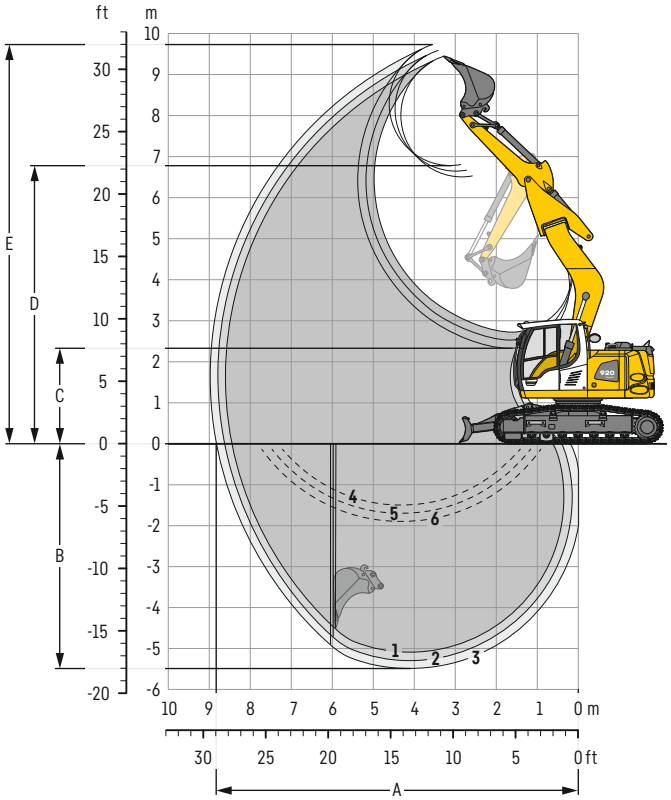
	Cutting width	Capacity ISO 7451	Weight[3]	NLC undercarriage (with track pads 500 mm)						NLC undercarriage with blade (with track pads 500 mm)						LC undercarriage (with track pads 600 mm)						LC undercarriage with blade (with track pads 600 mm)					
				Stick length (m)						Stick length (m)				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

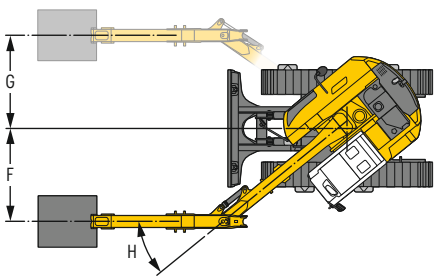
* Indicated loads are based on ISO 10567, at maximum reach, and may be swung 360° on firm and even ground
[1] Standard bucket with teeth UNI-35-3
[2] HD bucket with teeth UNI-35-3
[3] Bucket for direct mounting or mounting to quick coupler
Other buckets available upon request

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

Backhoe bucket

with mono boom offset 4.90 m





Digging envelope

with quick coupler		1	2	3
Stick length	m	2.25	2.45	2.65
A Max. reach at ground level	m	8.60	8.80	9.00
B Max. digging depth	m	5.10	5.30	5.50
C Min. dumping height	m	2.70	2.50	2.30
D Max. dumping height	m	6.50	6.65	6.80
E Max. cutting height	m	9.45	9.60	9.75
F Max. offset right	m		2.27	
G Max. offset left	m		2.27	
H Max. offset angle	°		39.1	

1 with stick 2.25 m
2 with stick 2.45 m
3 with stick 2.65 m
with set straight boom

4 with stick 2.25 m
5 with stick 2.45 m
6 with stick 2.65 m
at max. equipment offset with vertical ditch walls

Forces

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

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 3.9 t, mono boom offset 4.90 m, stick 2.65 m, quick coupler SWA 33 and bucket 0.80 m³ (480 kg).

Undercarriage		NLC		
Pad width	mm	500	600	750
Weight	kg	19,150	19,400	19,800
Ground pressure	kg/cm²	0.53	0.45	0.36

Undercarriage		NLC with blade		
Pad width	mm	500	600	750
Weight	kg	20,650	20,900	21,300
Ground pressure	kg/cm²	0.57	0.48	0.39

Undercarriage		LC		
Pad width	mm	500	600	750
Weight	kg	19,200	19,450	19,850
Ground pressure	kg/cm²	0.53	0.45	0.36

Undercarriage		LC with blade		
Pad width	mm	500	600	750
Weight	kg	20,800	21,050	21,450
Ground pressure	kg/cm²	0.57	0.48	0.39

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

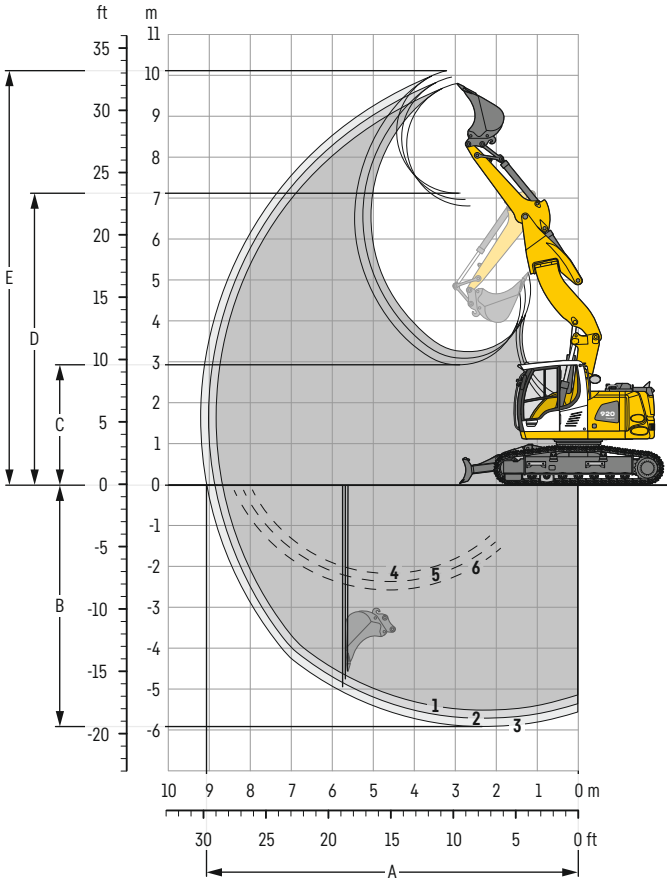
	Cutting width	Capacity ISO 7451	Weight[3]	NLC undercarriage (with track pads 500 mm)						NLC undercarriage with blade (with track pads 500 mm)						LC undercarriage (with track pads 600 mm)						LC undercarriage with blade (with track pads 600 mm)					
				Stick length (m)						Stick length (m)				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

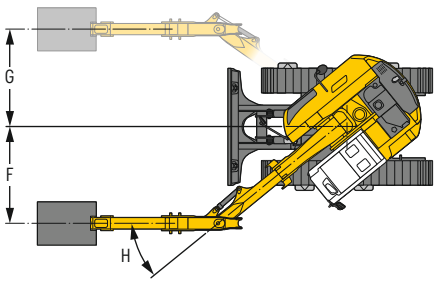
* Indicated loads are based on ISO 10567, at maximum reach, and may be swung 360° on firm and even ground
1) Standard bucket with teeth UNI-35-3
2) HD bucket with teeth UNI-35-3
3) Bucket for direct mounting or mounting to quick coupler
Other buckets available upon request

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

Backhoe bucket

with two-piece boom offset 5.00 m





Digging envelope

with quick coupler		1	2	3
Stick length	m	2.25	2.45	2.65
A Max. reach at ground level	m	8.65	8.85	9.05
B Max. digging depth	m	5.50	5.70	5.90
C Min. dumping height	m	3.25	3.10	2.95
D Max. dumping height	m	6.80	6.95	7.15
E Max. cutting height	m	9.80	9.95	10.10
F Max. offset right	m		2.38	
G Max. offset left	m		2.37	
H Max. offset angle	°		39.1	

1 with stick 2.25 m
2 with stick 2.45 m
3 with stick 2.65 m
with set straight boom

4 with stick 2.25 m
5 with stick 2.45 m
6 with stick 2.65 m
at max. equipment offset with vertical ditch walls

Forces

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

Operating weight and ground pressure

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

Undercarriage		NLC		
Pad width	mm	500	600	750
Weight	kg	19,600	19,850	20,250
Ground pressure	kg/cm²	0.54	0.46	0.37

Undercarriage		NLC with blade		
Pad width	mm	500	600	750
Weight	kg	21,100	21,350	21,750
Ground pressure	kg/cm²	0.58	0.49	0.40

Undercarriage		LC		
Pad width	mm	500	600	750
Weight	kg	19,650	19,900	20,300
Ground pressure	kg/cm²	0.54	0.46	0.37

Undercarriage		LC with blade		
Pad width	mm	500	600	750
Weight	kg	21,250	21,500	21,900
Ground pressure	kg/cm²	0.58	0.49	0.40

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

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

* Indicated loads are based on ISO 10567, at maximum reach, and may be swung 360° on firm and even ground
[1] Standard bucket with teeth UNI-35-3
[2] HD bucket with teeth UNI-35-3
[3] Bucket for direct mounting or 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

Lift capacities

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

Stick 2.25 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m				m
NLC[1]	7.5									3.7*	3.7*	4.1
	6.0			4.8*	4.8*					3.1*	3.1*	5.7
	4.5	6.6*	6.6*	5.0	5.4*	3.2	4.9*			2.7	2.9*	6.6
	3.0			4.6	6.6*	3.0	5.3			2.3	3.0*	7.1
	1.5			4.3	7.7*	2.9	5.1			2.2	3.2*	7.2
	0	5.7*	5.7*	4.1	7.7	2.8	5.0			2.2	3.6*	7.0
	−1.5	7.4	10.4*	4.0	7.6	2.7	4.9			2.5	4.4	6.5
	−3.0	7.6	9.4*	4.1	6.7*					3.2	5.1*	5.5
NLC[1] Blade up	7.5									3.7*	3.7*	4.1
	6.0			4.8*	4.8*					3.1*	3.1*	5.7
	4.5	6.6*	6.6*	5.3	5.4*	3.4	4.9*			2.9	2.9*	6.6
	3.0			5.0	6.6*	3.3	5.3*			2.5	3.0*	7.1
	1.5			4.6	7.7*	3.1	5.2			2.4	3.2*	7.2
	0	5.7*	5.7*	4.4	7.8	3.0	5.1			2.4	3.6*	7.0
	−1.5	8.0	10.4*	4.4	7.8	3.0	5.0			2.7	4.4*	6.5
	−3.0	8.2	9.4*	4.5	6.7*					3.4	5.1*	5.5
NLC[1] Blade down	7.5									3.7*	3.7*	4.1
	6.0			4.8*	4.8*					3.1*	3.1*	5.7
	4.5	6.6*	6.6*	5.4*	5.4*	3.6	4.9*			2.9*	2.9*	6.6
	3.0			5.2	6.6*	3.4	5.3*			2.6	3.0*	7.1
	1.5			4.9	7.7*	3.3	5.8*			2.5	3.2*	7.2
	0	5.7*	5.7*	4.7	8.2*	3.2	6.0*			2.6	3.6*	7.0
	−1.5	8.5	10.4*	4.6	7.9*	3.1	5.8*			2.8	4.4*	6.5
	−3.0	8.7	9.4*	4.7	6.7*					3.6	5.1*	5.5
LC	7.5									3.7*	3.7*	4.1
	6.0			4.8*	4.8*					3.1*	3.1*	5.7
	4.5	6.6*	6.6*	5.4*	5.4*	3.7	4.9*			2.9*	2.9*	6.6
	3.0			5.4	6.6*	3.5	5.3*			2.7	3.0*	7.1
	1.5			5.0	7.7*	3.4	5.2			2.6	3.2*	7.2
	0	5.7*	5.7*	4.8	7.8	3.3	5.1			2.6	3.6*	7.0
	−1.5	9.0	10.4*	4.8	7.8	3.2	5.0			2.9	4.4*	6.5
	−3.0	9.2	9.4*	4.8	6.7*					3.7	5.1*	5.5
LC Blade up	7.5									3.7*	3.7*	4.1
	6.0			4.8*	4.8*					3.1*	3.1*	5.7
	4.5	6.6*	6.6*	5.4*	5.4*	4.0	4.9*			2.9*	2.9*	6.6
	3.0			5.8	6.6*	3.8	5.3*			3.0	3.0*	7.1
	1.5			5.5	7.7*	3.7	5.3			2.8	3.2*	7.2
	0	5.7*	5.7*	5.3	8.0	3.6	5.2			2.9	3.6*	7.0
	−1.5	9.8	10.4*	5.2	7.9*	3.5	5.1			3.2	4.4*	6.5
	−3.0	9.4*	9.4*	5.3	6.7*					4.0	5.1*	5.5
LC Blade down	7.5									3.7*	3.7*	4.1
	6.0			4.8*	4.8*					3.1*	3.1*	5.7
	4.5	6.6*	6.6*	5.4*	5.4*	4.2	4.9*			2.9*	2.9*	6.6
	3.0			6.2	6.6*	4.1	5.3*			3.0*	3.0*	7.1
	1.5			5.8	7.7*	3.9	5.8*			3.0	3.2*	7.2
	0	5.7*	5.7*	5.6	8.2*	3.8	6.0*			3.0	3.6*	7.0
	−1.5	10.4*	10.4*	5.6	7.9*	3.7	5.8*			3.4	4.4*	6.5
	−3.0	9.4*	9.4*	5.6	6.7*					4.3	5.1*	5.5

Stick 2.45 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m				m
NLC[1]	7.5									3.3*	3.3*	4.4
	6.0			4.6*	4.6*					2.8*	2.8*	6.0
	4.5			5.0	5.2*	3.2	4.7*			2.5	2.7*	6.8
	3.0	8.5	9.7*	4.6	6.4*	3.0	5.2*			2.2	2.7*	7.3
	1.5			4.3	7.6*	2.9	5.1			2.1	2.9*	7.4
	0	6.0*	6.0*	4.0	7.7	2.7	4.9			2.1	3.2*	7.2
	−1.5	7.3	10.0*	4.0	7.6	2.7	4.9			2.3	3.9*	6.7
	−3.0	7.5	9.7*	4.0	6.9*					2.9	5.0*	5.7
NLC[1] Blade up	7.5									3.3*	3.3*	4.4
	6.0			4.6*	4.6*					2.8*	2.8*	6.0
	4.5			5.2*	5.2*	3.4	4.7*			2.7*	2.7*	6.8
	3.0	9.2	9.7*	5.0	6.4*	3.3	5.2*			2.4	2.7*	7.3
	1.5			4.6	7.6*	3.1	5.2			2.3	2.9*	7.4
	0	6.0*	6.0*	4.4	7.8	3.0	5.0			2.3	3.2*	7.2
	−1.5	8.0	10.0*	4.3	7.7	3.0	5.0			2.6	3.9*	6.7
	−3.0	8.1	9.7*	4.4	6.9*					3.2	5.0*	5.7
NLC[1] Blade down	7.5									3.3*	3.3*	4.4
	6.0			4.6*	4.6*					2.8*	2.8*	6.0
	4.5			5.2*	5.2*	3.6	4.7*			2.7*	2.7*	6.8
	3.0	9.7	9.7*	5.2	6.4*	3.4	5.2*			2.5	2.7*	7.3
	1.5			4.9	7.6*	3.3	5.7*			2.4	2.9*	7.4
	0	6.0*	6.0*	4.6	8.2*	3.1	6.0*			2.4	3.2*	7.2
	−1.5	8.4	10.0*	4.6	8.0*	3.1	5.8*			2.7	3.9*	6.7
	−3.0	8.6	9.7*	4.6	6.9*					3.4	5.0*	5.7
LC	7.5									3.3*	3.3*	4.4
	6.0			4.6*	4.6*					2.8*	2.8*	6.0
	4.5			5.2*	5.2*	3.7	4.7*			2.7*	2.7*	6.8
	3.0	9.7*	9.7*	5.4	6.4*	3.5	5.2*			2.6	2.7*	7.3
	1.5			5.0	7.6*	3.4	5.2			2.5	2.9*	7.4
	0	6.0*	6.0*	4.8	7.8	3.2	5.0			2.5	3.2*	7.2
	−1.5	8.9	10.0*	4.7	7.7	3.2	5.0			2.8	3.9*	6.7
	−3.0	9.1	9.7*	4.8	6.9*					3.5	5.0*	5.7
LC Blade up	7.5									3.3*	3.3*	4.4
	6.0			4.6*	4.6*					2.8*	2.8*	6.0
	4.5			5.2*	5.2*	4.0	4.7*			2.7*	2.7*	6.8
	3.0	9.7*	9.7*	5.9	6.4*	3.8	5.2*			2.7*	2.7*	7.3
	1.5			5.5	7.6*	3.7	5.3			2.7	2.9*	7.4
	0	6.0*	6.0*	5.2	8.0	3.5	5.1			2.7	3.2*	7.2
	−1.5	9.7	10.0*	5.2	7.9	3.5	5.1			3.0	3.9*	6.7
	−3.0	9.7*	9.7*	5.2	6.9*					3.8	5.0*	5.7
LC Blade down	7.5									3.3*	3.3*	4.4
	6.0			4.6*	4.6*					2.8*	2.8*	6.0
	4.5			5.2*	5.2*	4.2	4.7*			2.7*	2.7*	6.8
	3.0	9.7*	9.7*	6.2	6.4*	4.1	5.2*			2.7*	2.7*	7.3
	1.5			5.8	7.6*	3.9	5.7*			2.9*	2.9*	7.4
	0	6.0*	6.0*	5.6	8.2*	3.8	6.0*			2.9	3.2*	7.2
	−1.5	10.0*	10.0*	5.5	8.0*	3.7	5.8*			3.2	3.9*	6.7
	−3.0	9.7*	9.7*	5.6	6.9*					4.0	5.0*	5.7

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

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads. Indicated loads are based on ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 230 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.
According to European Standard, EN 474-5: In the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic safety check valves on hoist cylinders and stick cylinder(s), when they are used for lifting operations which require the use of lifting accessories.
Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.
[1] Values are calculated with 500 mm wide track pads for the NLC-Undercarriage

Stick 2.65 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m				m
NLC[1]	**7.5**			3.7*	3.7*					2.9*	2.9*	**4.7**
	6.0			4.3*	4.3*	3.2	3.4*			2.5*	2.5*	**6.2**
	4.5			4.9*	4.9*	3.2	4.5*			2.4	2.4*	**7.0**
	3.0	8.6	9.1*	4.7	6.1*	3.0	5.0*			2.1	2.4*	**7.5**
	1.5			4.3	7.4*	2.9	5.1	2.1	3.4*	2.0	2.6*	**7.6**
	0	6.3*	6.3*	4.0	7.7	2.7	4.9			2.0	2.9*	**7.4**
	-1.5	7.2	9.6*	3.9	7.6	2.7	4.9			2.2	3.5*	**6.9**
	-3.0	7.4	10.1*	4.0	7.1*					2.7	4.8*	**6.0**
NLC[1] Blade up	**7.5**			3.7*	3.7*					2.9*	2.9*	**4.7**
	6.0			4.3*	4.3*	3.4*	3.4*			2.5*	2.5*	**6.2**
	4.5			4.9*	4.9*	3.4	4.5*			2.4*	2.4*	**7.0**
	3.0	9.1*	9.1*	5.0	6.1*	3.3	5.0*			2.3	2.4*	**7.5**
	1.5			4.6	7.4*	3.1	5.2	2.2	3.4*	2.2	2.6*	**7.6**
	0	6.3*	6.3*	4.4	7.8	3.0	5.0			2.2	2.9*	**7.4**
	-1.5	7.9	9.6*	4.3	7.7	2.9	4.9			2.4	3.5*	**6.9**
	-3.0	8.0	10.1*	4.3	7.1*					3.0	4.8*	**6.0**
NLC[1] Blade down	**7.5**			3.7*	3.7*					2.9*	2.9*	**4.7**
	6.0			4.3*	4.3*	3.4*	3.4*			2.5*	2.5*	**6.2**
	4.5			4.9*	4.9*	3.6	4.5*			2.4*	2.4*	**7.0**
	3.0	9.1*	9.1*	5.3	6.1*	3.4	5.0*			2.4	2.4*	**7.5**
	1.5			4.9	7.4*	3.3	5.6*	2.4	3.4*	2.3	2.6*	**7.6**
	0	6.3*	6.3*	4.6	8.1*	3.1	5.9*			2.3	2.9*	**7.4**
	-1.5	8.4	9.6*	4.5	8.0*	3.1	5.9*			2.6	3.5*	**6.9**
	-3.0	8.5	10.1*	4.6	7.1*					3.1	4.8*	**6.0**
LC	**7.5**			3.7*	3.7*					2.9*	2.9*	**4.7**
	6.0			4.3*	4.3*	3.4*	3.4*			2.5*	2.5*	**6.2**
	4.5			4.9*	4.9*	3.7	4.5*			2.4*	2.4*	**7.0**
	3.0	9.1*	9.1*	5.4	6.1*	3.5	5.0*			2.4*	2.4*	**7.5**
	1.5			5.0	7.4*	3.3	5.2	2.4	3.4*	2.4	2.6*	**7.6**
	0	6.3*	6.3*	4.8	7.8	3.2	5.0			2.4	2.9*	**7.4**
	-1.5	8.8	9.6*	4.7	7.7	3.2	5.0			2.6	3.5*	**6.9**
	-3.0	9.0	10.1*	4.7	7.1*					3.2	4.8*	**6.0**
LC Blade up	**7.5**			3.7*	3.7*					2.9*	2.9*	**4.7**
	6.0			4.3*	4.3*	3.4*	3.4*			2.5*	2.5*	**6.2**
	4.5			4.9*	4.9*	4.0	4.5*			2.4*	2.4*	**7.0**
	3.0	9.1*	9.1*	5.9	6.1*	3.8	5.0*			2.4*	2.4*	**7.5**
	1.5			5.5	7.4*	3.6	5.3	2.6	3.4*	2.6	2.6*	**7.6**
	0	6.3*	6.3*	5.2	8.0	3.5	5.1			2.6	2.9*	**7.4**
	-1.5	9.6*	9.6*	5.1	7.9	3.5	5.0			2.9	3.5*	**6.9**
	-3.0	9.8	10.1*	5.2	7.1*					3.5	4.8*	**6.0**
LC Blade down	**7.5**			3.7*	3.7*					2.9*	2.9*	**4.7**
	6.0			4.3*	4.3*	3.4*	3.4*			2.5*	2.5*	**6.2**
	4.5			4.9*	4.9*	4.2	4.5*			2.4*	2.4*	**7.0**
	3.0	9.1*	9.1*	6.1*	6.1*	4.1	5.0*			2.4*	2.4*	**7.5**
	1.5			5.8	7.4*	3.9	5.6*	2.8	3.4*	2.6*	2.6*	**7.6**
	0	6.3*	6.3*	5.6	8.1*	3.7	5.9*			2.8	2.9*	**7.4**
	-1.5	9.6*	9.6*	5.5	8.0*	3.7	5.9*			3.1	3.5*	**6.9**
	-3.0	10.1*	10.1*	5.5	7.1*					3.8	4.8*	**6.0**

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

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads. Indicated loads are based on ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 230 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.
According to European Standard, EN 474-5: In the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic safety check valves on hoist cylinders and stick cylinder(s), when they are used for lifting operations which require the use of lifting accessories.
Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.
[1] Values are calculated with 500 mm wide track pads for the NLC-Undercarriage

Lift capacities

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

Stick 2.25 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m				m
NLC[1]	7.5			4.7*	4.7*					3.7*	3.7*	4.7
	6.0			5.2	5.9*	3.2	4.2*			3.0	3.2*	6.1
	4.5	8.8*	8.8*	5.1	6.5*	3.3	5.4*			2.4	3.0*	7.0
	3.0	8.9	10.2*	5.0	7.5*	3.3	5.4			2.1	2.9*	7.4
	1.5	8.8	11.1*	5.0	8.0	3.2	5.4	2.1	3.7	2.0	3.1*	7.6
	0	8.8	12.6*	4.8	8.0	3.0	5.2			2.1	3.4*	7.4
	-1.5	8.4	13.1*	4.6	8.3	2.9	5.1			2.3	4.0*	6.9
	-3.0	8.3	13.2*	4.3	7.6*					2.9	3.8*	5.8
	-4.5											
NLC[1] Blade up	7.5			4.7*	4.7*					3.7*	3.7*	4.7
	6.0			5.5	5.9*	3.4	4.2*			3.2*	3.2*	6.1
	4.5	8.8*	8.8*	5.4	6.5*	3.5	5.4*			2.6	3.0*	7.0
	3.0	9.4	10.2*	5.3	7.5*	3.5	5.4			2.3	2.9*	7.4
	1.5	9.3	11.1*	5.3	8.1	3.4	5.4	2.3	3.7	2.2	3.1*	7.6
	0	9.4	12.6*	5.2	8.1	3.3	5.3			2.3	3.4*	7.4
	-1.5	9.1	13.1*	4.9	8.4	3.1	5.2			2.5	4.0*	6.9
	-3.0	8.9	13.2*	4.7	7.6*					3.2	3.8*	5.8
	-4.5											
NLC[1] Blade down	7.5			4.7*	4.7*					3.7*	3.7*	4.7
	6.0			5.8	5.9*	3.6	4.2*			3.2*	3.2*	6.1
	4.5	8.8*	8.8*	5.7	6.5*	3.7	5.4*			2.8	3.0*	7.0
	3.0	9.9	10.2*	5.5	7.5*	3.7	5.7*			2.5	2.9*	7.4
	1.5	9.7	11.1*	5.5	8.2*	3.6	6.0*	2.4	3.9*	2.3	3.1*	7.6
	0	9.9	12.6*	5.4	8.2*	3.4	6.1*			2.4	3.4*	7.4
	-1.5	9.6	13.1*	5.2	8.4*	3.3	6.0*			2.6	4.0*	6.9
	-3.0	9.4	13.2*	4.9	7.6*					3.4	3.8*	5.8
	-4.5											
LC	7.5			4.7*	4.7*					3.7*	3.7*	4.7
	6.0			5.9*	5.9*	3.7	4.2*			3.2*	3.2*	6.1
	4.5	8.8*	8.8*	5.8	6.5*	3.8	5.4*			2.8	3.0*	7.0
	3.0	10.2*	10.2*	5.7	7.5*	3.8	5.4			2.5	2.9*	7.4
	1.5	10.2	11.1*	5.6	8.1	3.7	5.4	2.4	3.7	2.4	3.1*	7.6
	0	10.3	12.6*	5.6	8.1	3.5	5.3			2.4	3.4*	7.4
	-1.5	10.1	13.1*	5.4	8.4	3.3	5.2			2.7	4.0*	6.9
	-3.0	10.0	13.2*	5.1	7.6*					3.5	3.8*	5.8
	-4.5											
LC Blade up	7.5			4.7*	4.7*					3.7*	3.7*	4.7
	6.0			5.9*	5.9*	4.0	4.2*			3.2*	3.2*	6.1
	4.5	8.8*	8.8*	6.2	6.5*	4.1	5.4*			3.0*	3.0*	7.0
	3.0	10.2*	10.2*	6.1	7.5*	4.1	5.5			2.7	2.9*	7.4
	1.5	10.8	11.1*	6.0	8.2*	4.0	5.5	2.7	3.8	2.6	3.1*	7.6
	0	11.0	12.6*	6.0	8.2	3.8	5.4			2.7	3.4*	7.4
	-1.5	10.9	13.1*	5.8	8.4	3.6	5.3			3.0	4.0*	6.9
	-3.0	10.8	13.2*	5.5	7.6*					3.8	3.8*	5.8
	-4.5											
LC Blade down	7.5			4.7*	4.7*					3.7*	3.7*	4.7
	6.0			5.9*	5.9*	4.2*	4.2*			3.2*	3.2*	6.1
	4.5	8.8*	8.8*	6.5*	6.5*	4.3	5.4*			3.0*	3.0*	7.0
	3.0	10.2*	10.2*	6.4	7.5*	4.3	5.7*			2.9	2.9*	7.4
	1.5	11.1*	11.1*	6.3	8.2*	4.2	6.0*	2.8	3.9*	2.8	3.1*	7.6
	0	11.6	12.6*	6.4	8.2*	4.0	6.1*			2.8	3.4*	7.4
	-1.5	11.8	13.1*	6.2	8.4*	3.9	6.0*			3.1	4.0*	6.9
	-3.0	11.6	13.2*	5.9	7.6*					3.8*	3.8*	5.8
	-4.5											

Stick 2.45 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m				m
NLC[1]	7.5			5.0*	5.0*					3.3*	3.3*	5.0
	6.0			5.2	5.7*	3.2	4.6*			2.8*	2.8*	6.4
	4.5	7.5*	7.5*	5.1	6.3*	3.3	5.3*			2.3	2.7*	7.2
	3.0	8.9	10.2*	5.0	7.3*	3.3	5.3	2.1	3.7	2.1	2.7*	7.6
	1.5	8.8*	11.1*	4.9	8.0	3.2	5.3	2.1	3.7	2.0	2.8*	7.8
	0	8.8	12.4*	4.8	8.0	3.0	5.3	2.0	3.6	2.0	3.0*	7.6
	-1.5	8.4	13.0*	4.6	8.2	2.9	5.1			2.2	3.5*	7.1
	-3.0	8.3	13.4*	4.3	8.0*	2.8	4.0*			2.7	3.5*	6.1
	-4.5											
NLC[1] Blade up	7.5			5.0*	5.0*					3.3*	3.3*	5.0
	6.0			5.6	5.7*	3.5	4.6*			2.8*	2.8*	6.4
	4.5	7.5*	7.5*	5.4	6.3*	3.6	5.3*			2.5	2.7*	7.2
	3.0	9.4	10.2*	5.3	7.3*	3.5	5.4	2.3	3.8	2.2	2.7*	7.6
	1.5	9.3	11.1*	5.2	8.1	3.4	5.4	2.3	3.7	2.1	2.8*	7.8
	0	9.4	12.4*	5.2	8.1	3.3	5.4	2.2	3.7	2.2	3.0*	7.6
	-1.5	9.0	13.0*	5.0	8.3	3.1	5.2			2.4	3.5*	7.1
	-3.0	9.0	13.4*	4.7	8.0*	3.0	4.0*			2.9	3.5*	6.1
	-4.5											
NLC[1] Blade down	7.5			5.0*	5.0*					3.3*	3.3*	5.0
	6.0			5.7*	5.7*	3.6	4.6*			2.8*	2.8*	6.4
	4.5	7.5*	7.5*	5.7	6.3*	3.7	5.3*			2.6	2.7*	7.2
	3.0	9.9	10.2*	5.5	7.3*	3.7	5.6*	2.4	3.8*	2.3	2.7*	7.6
	1.5	9.7	11.1*	5.5	8.1*	3.6	5.9*	2.4	4.7*	2.2	2.8*	7.8
	0	9.8	12.4*	5.4	8.2*	3.4	6.0*	2.3	4.0*	2.3	3.0*	7.6
	-1.5	9.6	13.0*	5.2	8.3*	3.3	6.0*			2.5	3.5*	7.1
	-3.0	9.5	13.4*	4.9	8.0*	3.2	4.0*			3.1	3.5*	6.1
	-4.5											
LC	7.5			5.0*	5.0*					3.3*	3.3*	5.0
	6.0			5.7*	5.7*	3.7	4.6*			2.8*	2.8*	6.4
	4.5	7.5*	7.5*	5.8	6.3*	3.8	5.3*			2.7*	2.7*	7.2
	3.0	10.2*	10.2*	5.7	7.3*	3.8	5.4	2.5	3.8	2.4	2.7*	7.6
	1.5	10.1	11.1*	5.6	8.1	3.7	5.4	2.4	3.7	2.3	2.8*	7.8
	0	10.2	12.4*	5.6	8.1	3.5	5.4	2.4	3.7	2.3	3.0*	7.6
	-1.5	10.1	13.0*	5.4	8.3	3.4	5.2			2.6	3.5*	7.1
	-3.0	10.0	13.4*	5.1	8.0*	3.3	4.0*			3.1	3.5*	6.1
	-4.5											
LC Blade up	7.5			5.0*	5.0*					3.3*	3.3*	5.0
	6.0			5.7*	5.7*	4.0	4.6*			2.8*	2.8*	6.4
	4.5	7.5*	7.5*	6.2	6.3*	4.1	5.3*			2.7*	2.7*	7.2
	3.0	10.2*	10.2*	6.0	7.3*	4.1	5.5	2.7	3.8*	2.6	2.7*	7.6
	1.5	10.8	11.1*	6.0	8.1*	4.0	5.5	2.7	3.8	2.5	2.8*	7.8
	0	10.9	12.4*	6.0	8.2	3.8	5.4	2.6	3.7	2.6	3.0*	7.6
	-1.5	10.9	13.0*	5.8	8.3	3.7	5.3			2.8	3.5*	7.1
	-3.0	10.8	13.4*	5.5	8.0*	3.6	4.0*			3.4	3.5*	6.1
	-4.5											
LC Blade down	7.5			5.0*	5.0*					3.3*	3.3*	5.0
	6.0			5.7*	5.7*	4.3	4.6*			2.8*	2.8*	6.4
	4.5	7.5*	7.5*	6.3*	6.3*	4.3	5.3*			2.7*	2.7*	7.2
	3.0	10.2*	10.2*	6.4	7.3*	4.3	5.6*	2.9	3.8*	2.7*	2.7*	7.6
	1.5	11.1*	11.1*	6.3	8.1*	4.2	5.9*	2.8	4.7*	2.7	2.8*	7.8
	0	11.5	12.4*	6.4	8.2*	4.1	6.0*	2.8	4.0*	2.7	3.0*	7.6
	-1.5	11.8	13.0*	6.2	8.3*	3.9	6.0*			3.0	3.5*	7.1
	-3.0	11.7	13.4*	5.9	8.0*	3.8	4.0*			3.5*	3.5*	6.1
	-4.5											

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

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads with adjusting cylinder in optimal position. Indicated loads are based on ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 230 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.
According to European Standard, EN 474-5: In the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic safety check valves on hoist cylinders and stick cylinder(s), when they are used for lifting operations which require the use of lifting accessories.
Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.
[1] Values are calculated with 500 mm wide track pads for the NLC-Undercarriage

Stick 2.65 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m				m
NLC[1]	7.5			4.9*	4.9*					3.0*	3.0*	5.3
	6.0			5.2	5.4*	3.3	4.6*			2.6*	2.6*	6.6
	4.5	6.2*	6.2*	5.1	6.1*	3.3	5.1*			2.2	2.4*	7.4
	3.0	8.9	10.1*	5.0	7.1*	3.3	5.3	2.2	3.7	2.0	2.4*	7.8
	1.5	8.7	11.0*	4.9	7.9	3.2	5.3	2.1	3.7	1.9	2.5*	8.0
	0	8.8	12.2*	4.8	7.9	3.1	5.3	2.0	3.6	1.9	2.7*	7.8
	-1.5	8.4	12.9*	4.6	8.1	2.9	5.1			2.1	3.2*	7.3
	-3.0	8.3	13.4*	4.3	8.1	2.8	4.6*			2.5	3.4*	6.4
	-4.5	8.1	8.7*							6.5	7.0*	3.4
NLC[1] Blade up	7.5			4.9*	4.9*					3.0*	3.0*	5.3
	6.0			5.4*	5.4*	3.5	4.6*			2.6*	2.6*	6.6
	4.5	6.2*	6.2*	5.4	6.1*	3.6	5.1*			2.4	2.4*	7.4
	3.0	9.4	10.1*	5.3	7.1*	3.6	5.4	2.3	3.8	2.1	2.4*	7.8
	1.5	9.2	11.0*	5.2	8.0*	3.5	5.4	2.3	3.7	2.0	2.5*	8.0
	0	9.3	12.2*	5.2	8.0	3.3	5.4	2.2	3.7	2.1	2.7*	7.8
	-1.5	9.0	12.9*	5.0	8.2	3.1	5.2			2.3	3.2*	7.3
	-3.0	8.9	13.4*	4.7	8.2	3.0	4.6*			2.7	3.4*	6.4
	-4.5	8.7*	8.7*							7.0	7.0*	3.4
NLC[1] Blade down	7.5			4.9*	4.9*					3.0*	3.0*	5.3
	6.0			5.4*	5.4*	3.7	4.6*			2.6*	2.6*	6.6
	4.5	6.2*	6.2*	5.7	6.1*	3.7	5.1*			2.4*	2.4*	7.4
	3.0	9.9	10.1*	5.5	7.1*	3.7	5.5*	2.5	4.4*	2.2	2.4*	7.8
	1.5	9.7	11.0*	5.4	8.0*	3.6	5.9*	2.4	4.7*	2.1	2.5*	8.0
	0	9.7	12.2*	5.4	8.1*	3.5	6.0*	2.3	4.5*	2.2	2.7*	7.8
	-1.5	9.6	12.9*	5.2	8.3*	3.3	6.1*			2.4	3.2*	7.3
	-3.0	9.4	13.4*	4.9	8.2*	3.2	4.6*			2.9	3.4*	6.4
	-4.5	8.7*	8.7*							7.0*	7.0*	3.4
LC	7.5			4.9*	4.9*					3.0*	3.0*	5.3
	6.0			5.4*	5.4*	3.8	4.6*			2.6*	2.6*	6.6
	4.5	6.2*	6.2*	5.8	6.1*	3.8	5.1*			2.4*	2.4*	7.4
	3.0	10.1*	10.1*	5.7	7.1*	3.8	5.4	2.5	3.8	2.3	2.4*	7.8
	1.5	10.1	11.0*	5.6	8.0*	3.7	5.4	2.5	3.7	2.2	2.5*	8.0
	0	10.2	12.2*	5.6	8.0	3.6	5.4	2.4	3.7	2.2	2.7*	7.8
	-1.5	10.1	12.9*	5.4	8.2	3.4	5.2			2.4	3.2*	7.3
	-3.0	10.0	13.4*	5.1	8.2	3.2	4.6*			2.9	3.4*	6.4
	-4.5	8.7*	8.7*							7.0*	7.0*	3.4
LC Blade up	7.5			4.9*	4.9*					3.0*	3.0*	5.3
	6.0			5.4*	5.4*	4.1	4.6*			2.6*	2.6*	6.6
	4.5	6.2*	6.2*	6.1*	6.1*	4.1	5.1*			2.4*	2.4*	7.4
	3.0	10.1*	10.1*	6.0	7.1*	4.1	5.5	2.7	3.9	2.4*	2.4*	7.8
	1.5	10.7	11.0*	5.9	8.0*	4.0	5.4	2.7	3.8	2.4	2.5*	8.0
	0	10.8	12.2*	6.0	8.1	3.8	5.5	2.6	3.7	2.4	2.7*	7.8
	-1.5	10.9	12.9*	5.8	8.2	3.7	5.3			2.7	3.2*	7.3
	-3.0	10.8	13.4*	5.5	8.2*	3.5	4.6*			3.2	3.4*	6.4
	-4.5	8.7*	8.7*							7.0*	7.0*	3.4
LC Blade down	7.5			4.9*	4.9*					3.0*	3.0*	5.3
	6.0			5.4*	5.4*	4.3	4.6*			2.6*	2.6*	6.6
	4.5	6.2*	6.2*	6.1*	6.1*	4.3	5.1*			2.4*	2.4*	7.4
	3.0	10.1*	10.1*	6.4	7.1*	4.3	5.5*	2.9	4.4*	2.4*	2.4*	7.8
	1.5	11.0*	11.0*	6.3	8.0*	4.2	5.9*	2.9	4.7*	2.5*	2.5*	8.0
	0	11.5	12.2*	6.3	8.1*	4.1	6.0*	2.8	4.5*	2.6	2.7*	7.8
	-1.5	11.8	12.9*	6.2	8.3*	3.9	6.1*			2.8	3.2*	7.3
	-3.0	11.7	13.4*	5.9	8.2*	3.8	4.6*			3.4	3.4*	6.4
	-4.5	8.7*	8.7*							7.0*	7.0*	3.4

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 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 230 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 4.90 m, counterweight 3.9 t and track pads 500 mm / 600 mm

Stick 2.25 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m				m
NLC[1]	7.5									3.4*	3.4*	3.8
	6.0			5.1	5.2*					2.9*	2.9*	5.6
	4.5	7.1*	7.1*	4.9	5.7*	3.0	5.0*			2.6	2.7*	6.5
	3.0	8.2	10.3*	4.5	6.7*	2.9	5.2			2.3	2.8*	7.0
	1.5			4.1	7.6*	2.7	5.0			2.1	3.0*	7.1
	0	6.9	6.9*	3.8	7.5	2.6	4.8			2.1	3.4*	6.9
	-1.5	7.0	10.5*	3.8	7.4	2.6	4.8			2.4	4.3*	6.3
	-3.0	7.2	8.1*	3.9	5.9*					3.1	4.6*	5.3
NLC[1] Blade up	7.5									3.4*	3.4*	3.8
	6.0			5.2*	5.2*					2.9*	2.9*	5.6
	4.5	7.1*	7.1*	5.3	5.7*	3.3	5.0*			2.7*	2.7*	6.5
	3.0	8.8	10.3*	4.8	6.7*	3.2	5.2			2.5	2.8*	7.0
	1.5			4.4	7.6*	3.0	5.0			2.3	3.0*	7.1
	0	6.9*	6.9*	4.2	7.6	2.8	4.9			2.4	3.4*	6.9
	-1.5	7.6	10.5*	4.1	7.4*	2.8	4.9			2.6	4.3*	6.3
	-3.0	7.8	8.1*	4.2	5.9*					3.4	4.6*	5.3
NLC[1] Blade down	7.5									3.4*	3.4*	3.8
	6.0			5.2*	5.2*					2.9*	2.9*	5.6
	4.5	7.1*	7.1*	5.5	5.7*	3.4	5.0*			2.7*	2.7*	6.5
	3.0	9.3	10.3*	5.1	6.7*	3.3	5.3*			2.6	2.8*	7.0
	1.5			4.7	7.6*	3.1	5.7*			2.4	3.0*	7.1
	0	6.9*	6.9*	4.4	7.9*	3.0	5.8*			2.5	3.4*	6.9
	-1.5	8.1	10.5*	4.4	7.4*	3.0	5.4*			2.8	4.3*	6.3
	-3.0	8.1*	8.1*	4.5	5.9*					3.6	4.6*	5.3
LC	7.5									3.4*	3.4*	3.8
	6.0			5.2*	5.2*					2.9*	2.9*	5.6
	4.5	7.1*	7.1*	5.7*	5.7*	3.5	5.0*			2.7*	2.7*	6.5
	3.0	9.9	10.3*	5.3	6.7*	3.4	5.2			2.7	2.8*	7.0
	1.5			4.8	7.6*	3.2	5.0			2.5	3.0*	7.1
	0	6.9*	6.9*	4.6	7.6	3.1	4.9			2.5	3.4*	6.9
	-1.5	8.6	10.5*	4.5	7.4*	3.1	4.9			2.8	4.3*	6.3
	-3.0	8.1*	8.1*	4.6	5.9*					3.7	4.6*	5.3
LC Blade up	7.5									3.4*	3.4*	3.8
	6.0			5.2*	5.2*					2.9*	2.9*	5.6
	4.5	7.1*	7.1*	5.7*	5.7*	3.8	5.0*			2.7*	2.7*	6.5
	3.0	10.3*	10.3*	5.7	6.7*	3.7	5.3*			2.8*	2.8*	7.0
	1.5			5.3	7.6*	3.5	5.1			2.7	3.0*	7.1
	0	6.9*	6.9*	5.0	7.8	3.4	5.0			2.8	3.4*	6.9
	-1.5	9.4	10.5*	5.0	7.4*	3.4	5.0			3.1	4.3*	6.3
	-3.0	8.1*	8.1*	5.1	5.9*					4.1	4.6*	5.3
LC Blade down	7.5									3.4*	3.4*	3.8
	6.0			5.2*	5.2*					2.9*	2.9*	5.6
	4.5	7.1*	7.1*	5.7*	5.7*	4.1	5.0*			2.7*	2.7*	6.5
	3.0	10.3*	10.3*	6.1	6.7*	3.9	5.3*			2.8*	2.8*	7.0
	1.5			5.6	7.6*	3.7	5.7*			2.9	3.0*	7.1
	0	6.9*	6.9*	5.4	7.9*	3.6	5.8*			3.0	3.4*	6.9
	-1.5	10.2	10.5*	5.3	7.4*	3.6	5.4*			3.3	4.3*	6.3
	-3.0	8.1*	8.1*	5.4	5.9*					4.3	4.6*	5.3

Stick 2.45 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m				m
NLC[1]	7.5									3.0*	3.0*	4.2
	6.0			4.9*	4.9*					2.6*	2.6*	5.8
	4.5	6.7*	6.7*	4.9	5.4*	3.1	4.8*			2.5*	2.5*	6.7
	3.0	8.4	9.8*	4.5	6.5*	2.9	5.2			2.2	2.5*	7.2
	1.5			4.1	7.5*	2.7	5.0			2.0	2.7*	7.3
	0	6.8	7.2*	3.8	7.5	2.6	4.8			2.0	3.0*	7.1
	-1.5	6.9	10.8*	3.7	7.4	2.5	4.7			2.3	3.8*	6.6
	-3.0	7.1	8.6*	3.8	6.1*					2.9	4.6*	5.6
NLC[1] Blade up	7.5									3.0*	3.0*	4.2
	6.0			4.9*	4.9*					2.6*	2.6*	5.8
	4.5	6.7*	6.7*	5.3	5.4*	3.3	4.8*			2.5*	2.5*	6.7
	3.0	9.0	9.8*	4.9	6.5*	3.2	5.2*			2.4	2.5*	7.2
	1.5			4.4	7.5*	3.0	5.0			2.2	2.7*	7.3
	0	7.2*	7.2*	4.2	7.6	2.8	4.9			2.3	3.0*	7.1
	-1.5	7.5	10.8*	4.1	7.5	2.8	4.8			2.5	3.8*	6.6
	-3.0	7.7	8.6*	4.2	6.1*					3.2	4.6*	5.6
NLC[1] Blade down	7.5									3.0*	3.0*	4.2
	6.0			4.9*	4.9*					2.6*	2.6*	5.8
	4.5	6.7*	6.7*	5.4*	5.4*	3.5	4.8*			2.5*	2.5*	6.7
	3.0	9.5	9.8*	5.1	6.5*	3.3	5.2*			2.5	2.5*	7.2
	1.5			4.7	7.5*	3.1	5.6*			2.3	2.7*	7.3
	0	7.2*	7.2*	4.4	7.9*	3.0	5.8*			2.4	3.0*	7.1
	-1.5	8.0	10.8*	4.3	7.5*	2.9	5.4*			2.6	3.8*	6.6
	-3.0	8.2	8.6*	4.4	6.1*					3.3	4.6*	5.6
LC	7.5									3.0*	3.0*	4.2
	6.0			4.9*	4.9*					2.6*	2.6*	5.8
	4.5	6.7*	6.7*	5.4*	5.4*	3.6	4.8*			2.5*	2.5*	6.7
	3.0	9.8*	9.8*	5.3	6.5*	3.4	5.2*			2.5*	2.5*	7.2
	1.5			4.8	7.5*	3.2	5.0			2.4	2.7*	7.3
	0	7.2*	7.2*	4.6	7.6	3.1	4.9			2.4	3.0*	7.1
	-1.5	8.5	10.8*	4.5	7.5	3.0	4.8			2.7	3.8*	6.6
	-3.0	8.6*	8.6*	4.6	6.1*					3.4	4.6*	5.6
LC Blade up	7.5									3.0*	3.0*	4.2
	6.0			4.9*	4.9*					2.6*	2.6*	5.8
	4.5	6.7*	6.7*	5.4*	5.4*	3.9	4.8*			2.5*	2.5*	6.7
	3.0	9.8*	9.8*	5.7	6.5*	3.7	5.2*			2.5*	2.5*	7.2
	1.5			5.3	7.5*	3.5	5.1			2.6	2.7*	7.3
	0	7.2*	7.2*	5.0	7.8	3.4	5.0			2.7	3.0*	7.1
	-1.5	9.3	10.8*	4.9	7.5*	3.3	4.9			3.0	3.8*	6.6
	-3.0	8.6*	8.6*	5.0	6.1*					3.8	4.6*	5.6
LC Blade down	7.5									3.0*	3.0*	4.2
	6.0			4.9*	4.9*					2.6*	2.6*	5.8
	4.5	6.7*	6.7*	5.4*	5.4*	4.1	4.8*			2.5*	2.5*	6.7
	3.0	9.8*	9.8*	6.1	6.5*	3.9	5.2*			2.5*	2.5*	7.2
	1.5			5.6	7.5*	3.7	5.6*			2.7*	2.7*	7.3
	0	7.2*	7.2*	5.4	7.9*	3.6	5.8*			2.9	3.0*	7.1
	-1.5	10.1	10.8*	5.3	7.5*	3.5	5.4*			3.2	3.8*	6.6
	-3.0	8.6*	8.6*	5.4	6.1*					4.0	4.6*	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 230 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.
According to European Standard, EN 474-5: In the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic safety check valves on hoist cylinders and stick cylinder(s), when they are used for lifting operations which require the use of lifting accessories.
Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.
[1] Values are calculated with 500 mm wide track pads for the NLC-Undercarriage

Stick 2.65 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m				m
NLC[1]	**7.5**			2.7*	2.7*					2.7*	2.7*	**4.5**
	6.0			4.7*	4.7*	2.4*	2.4*			2.3*	2.3*	**6.0**
	4.5			5.0	5.2*	3.1	4.7*			2.2*	2.2*	**6.9**
	3.0	8.5	9.2*	4.6	6.3*	2.9	5.1*			2.1	2.3*	**7.3**
	1.5	7.2*	7.2*	4.1	7.4*	2.7	5.0			1.9	2.4*	**7.5**
	0	6.8	7.4*	3.8	7.5	2.6	4.8			1.9	2.7*	**7.3**
	−1.5	6.8	10.7*	3.7	7.3	2.5	4.7			2.1	3.4*	**6.8**
	−3.0	7.0	9.0*	3.8	6.4*					2.7	4.5*	**5.8**
NLC[1] Blade up	**7.5**			2.7*	2.7*					2.7*	2.7*	**4.5**
	6.0			4.7*	4.7*	2.4*	2.4*			2.3*	2.3*	**6.0**
	4.5			5.2*	5.2*	3.3	4.7*			2.2*	2.2*	**6.9**
	3.0	9.2	9.2*	4.9	6.3*	3.2	5.1*			2.3	2.3*	**7.3**
	1.5	7.2*	7.2*	4.5	7.4*	3.0	5.0			2.1	2.4*	**7.5**
	0	7.4*	7.4*	4.2	7.6	2.8	4.9			2.1	2.7*	**7.3**
	−1.5	7.4	10.7*	4.1	7.5	2.8	4.8			2.4	3.4*	**6.8**
	−3.0	7.6	9.0*	4.1	6.4*					3.0	4.5*	**5.8**
NLC[1] Blade down	**7.5**			2.7*	2.7*					2.7*	2.7*	**4.5**
	6.0			4.7*	4.7*	2.4*	2.4*			2.3*	2.3*	**6.0**
	4.5			5.2*	5.2*	3.5	4.7*			2.2*	2.2*	**6.9**
	3.0	9.2*	9.2*	5.2	6.3*	3.3	5.1*			2.3*	2.3*	**7.3**
	1.5	7.2*	7.2*	4.7	7.4*	3.1	5.5*			2.2	2.4*	**7.5**
	0	7.4*	7.4*	4.4	7.9*	3.0	5.8*			2.3	2.7*	**7.3**
	−1.5	7.9	10.7*	4.3	7.6*	2.9	5.5*			2.5	3.4*	**6.8**
	−3.0	8.1	9.0*	4.4	6.4*					3.1	4.5*	**5.8**
LC	**7.5**			2.7*	2.7*					2.7*	2.7*	**4.5**
	6.0			4.7*	4.7*	2.4*	2.4*			2.3*	2.3*	**6.0**
	4.5			5.2*	5.2*	3.6	4.7*			2.2*	2.2*	**6.9**
	3.0	9.2*	9.2*	5.3	6.3*	3.4	5.1*			2.3*	2.3*	**7.3**
	1.5	7.2*	7.2*	4.9	7.4*	3.2	5.0			2.3	2.4*	**7.5**
	0	7.4*	7.4*	4.5	7.6	3.0	4.9			2.3	2.7*	**7.3**
	−1.5	8.4	10.7*	4.4	7.5	3.0	4.8			2.6	3.4*	**6.8**
	−3.0	8.6	9.0*	4.5	6.4*					3.2	4.5*	**5.8**
LC Blade up	**7.5**			2.7*	2.7*					2.7*	2.7*	**4.5**
	6.0			4.7*	4.7*	2.4*	2.4*			2.3*	2.3*	**6.0**
	4.5			5.2*	5.2*	3.9	4.7*			2.2*	2.2*	**6.9**
	3.0	9.2*	9.2*	5.8	6.3*	3.7	5.1*			2.3*	2.3*	**7.3**
	1.5	7.2*	7.2*	5.3	7.4*	3.5	5.1			2.4*	2.4*	**7.5**
	0	7.4*	7.4*	5.0	7.7	3.3	5.0			2.6	2.7*	**7.3**
	−1.5	9.2	10.7*	4.9	7.6*	3.3	4.9			2.8	3.4*	**6.8**
	−3.0	9.0*	9.0*	5.0	6.4*					3.5	4.5*	**5.8**
LC Blade down	**7.5**			2.7*	2.7*					2.7*	2.7*	**4.5**
	6.0			4.7*	4.7*	2.4*	2.4*			2.3*	2.3*	**6.0**
	4.5			5.2*	5.2*	4.1	4.7*			2.2*	2.2*	**6.9**
	3.0	9.2*	9.2*	6.2	6.3*	3.9	5.1*			2.3*	2.3*	**7.3**
	1.5	7.2*	7.2*	5.7	7.4*	3.7	5.5*			2.4*	2.4*	**7.5**
	0	7.4*	7.4*	5.4	7.9*	3.6	5.8*			2.7	2.7*	**7.3**
	−1.5	10.0	10.7*	5.2	7.6*	3.5	5.5*			3.0	3.4*	**6.8**
	−3.0	9.0*	9.0*	5.3	6.4*					3.8	4.5*	**5.8**

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 230 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 offset 5.00 m, counterweight 3.9 t and track pads 500 mm / 600 mm

Stick 2.25 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m				m
NLC[1]	7.5									3.5*	3.5*	4.3
	6.0			5.2	5.8*					2.9*	2.9*	5.8
	4.5	8.3*	8.3*	5.1	6.3*	3.1	5.3*			2.4	2.7*	6.7
	3.0	8.8	10.5*	5.0	7.1*	3.1	5.3			2.1	2.7*	7.2
	1.5	8.7	11.3*	4.9	7.8	3.0	5.3			2.0	2.9*	7.3
	0	8.7	12.4*	4.7	7.8	2.8	5.1			2.0	3.2*	7.1
	-1.5	8.3	12.7*	4.4	8.2	2.7	4.9			2.3	3.8*	6.6
	-3.0	8.0	12.4*	4.1	6.8*					3.0	3.8*	5.4
NLC[1] Blade up	7.5									3.5*	3.5*	4.3
	6.0			5.5	5.8*					2.9*	2.9*	5.8
	4.5	8.3*	8.3*	5.4	6.3*	3.4	5.3*			2.7	2.7*	6.7
	3.0	9.3	10.5*	5.3	7.1*	3.4	5.3			2.3	2.7*	7.2
	1.5	9.2	11.3*	5.2	7.8*	3.3	5.3			2.2	2.9*	7.3
	0	9.4	12.4*	5.1	7.9	3.1	5.2			2.2	3.2*	7.1
	-1.5	8.9	12.7*	4.7	8.2*	2.9	5.0			2.5	3.8*	6.6
	-3.0	8.6	12.4*	4.5	6.8*					3.3	3.8*	5.4
NLC[1] Blade down	7.5									3.5*	3.5*	4.3
	6.0			5.7	5.8*					2.9*	2.9*	5.8
	4.5	8.3*	8.3*	5.6	6.3*	3.5	5.3*			2.7*	2.7*	6.7
	3.0	9.7	10.5*	5.5	7.1*	3.5	5.5*			2.4	2.7*	7.2
	1.5	9.6	11.3*	5.4	7.8*	3.4	5.8*			2.3	2.9*	7.3
	0	9.8*	12.4*	5.3	7.9*	3.2	5.9*			2.3	3.2*	7.1
	-1.5	9.4	12.7*	5.0	8.2*	3.1	5.5*			2.6	3.8*	6.6
	-3.0	9.1	12.4*	4.7	6.8*					3.5	3.8*	5.4
LC	7.5									3.5*	3.5*	4.3
	6.0			5.8*	5.8*					2.9*	2.9*	5.8
	4.5	8.3*	8.3*	5.8	6.3*	3.6	5.3*			2.7*	2.7*	6.7
	3.0	10.1	10.5*	5.6	7.1*	3.6	5.3			2.5	2.7*	7.2
	1.5	10.0	11.3*	5.6	7.8*	3.5	5.3			2.4	2.9*	7.3
	0	10.2	12.4*	5.5	7.9	3.3	5.2			2.4	3.2*	7.1
	-1.5	10.0	12.7*	5.2	8.2*	3.2	5.0			2.7	3.8*	6.6
	-3.0	9.7	12.4*	4.9	6.8*					3.6	3.8*	5.4
LC Blade up	7.5									3.5*	3.5*	4.3
	6.0			5.8*	5.8*					2.9*	2.9*	5.8
	4.5	8.3*	8.3*	6.1	6.3*	3.9	5.3*			2.7*	2.7*	6.7
	3.0	10.5*	10.5*	6.0	7.1*	3.9	5.4			2.7*	2.7*	7.2
	1.5	10.6	11.3*	5.9	7.8*	3.8	5.4			2.6	2.9*	7.3
	0	10.8	12.4*	6.0	7.9*	3.6	5.3			2.7	3.2*	7.1
	-1.5	10.8	12.7*	5.6	8.2*	3.5	5.1			3.0	3.8*	6.6
	-3.0	10.5	12.4*	5.3	6.8*					3.8*	3.8*	5.4
LC Blade down	7.5									3.5*	3.5*	4.3
	6.0			5.8*	5.8*					2.9*	2.9*	5.8
	4.5	8.3*	8.3*	6.3*	6.3*	4.2	5.3*			2.7*	2.7*	6.7
	3.0	10.5*	10.5*	6.3	7.1*	4.2	5.5*			2.7*	2.7*	7.2
	1.5	11.2	11.3*	6.2	7.8*	4.0	5.8*			2.8	2.9*	7.3
	0	11.4	12.4*	6.4	7.9*	3.9	5.9*			2.8	3.2*	7.1
	-1.5	11.7	12.7*	6.0	8.2*	3.7	5.5*			3.2	3.8*	6.6
	-3.0	11.4	12.4*	5.7	6.8*					3.8*	3.8*	5.4

Stick 2.45 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m				m
NLC[1]	7.5			3.6*	3.6*					3.1*	3.1*	4.6
	6.0			5.2	5.6*	3.1	3.2*			2.6*	2.6*	6.1
	4.5	7.1*	7.1*	5.1	6.1*	3.2	5.1*			2.3	2.5*	6.9
	3.0	8.8	10.5*	5.0	7.0*	3.2	5.2			2.0	2.5*	7.4
	1.5	8.6	11.2*	4.9	7.7*	3.1	5.2	1.9	2.8*	1.9	2.6*	7.5
	0	8.8	12.3*	4.8	7.8	2.9	5.1			1.9	2.9*	7.3
	-1.5	8.3	12.6*	4.4	8.1*	2.7	4.9			2.1	3.4*	6.8
	-3.0	8.0	12.8*	4.1	7.3*					2.7	3.5*	5.8
NLC[1] Blade up	7.5			3.6*	3.6*					3.1*	3.1*	4.6
	6.0			5.5	5.6*	3.2*	3.2*			2.6*	2.6*	6.1
	4.5	7.1*	7.1*	5.4	6.1*	3.4	5.1*			2.5*	2.5*	6.9
	3.0	9.3	10.5*	5.3	7.0*	3.4	5.3			2.2	2.5*	7.4
	1.5	9.1*	11.2*	5.2	7.7*	3.3	5.3	2.1	2.8*	2.1	2.6*	7.5
	0	9.3	12.3*	5.1	7.8	3.1	5.2			2.1	2.9*	7.3
	-1.5	8.9	12.6*	4.8	8.1*	2.9	5.0			2.3	3.4*	6.8
	-3.0	8.7	12.8*	4.5	7.3*					3.0	3.5*	5.8
NLC[1] Blade down	7.5			3.6*	3.6*					3.1*	3.1*	4.6
	6.0			5.6*	5.6*	3.2*	3.2*			2.6*	2.6*	6.1
	4.5	7.1*	7.1*	5.6	6.1*	3.6	5.1*			2.5*	2.5*	6.9
	3.0	9.7	10.5*	5.5	7.0*	3.6	5.4*			2.3	2.5*	7.4
	1.5	9.5	11.2*	5.4	7.7*	3.5	5.7*	2.2	2.8*	2.2	2.6*	7.5
	0	9.7	12.3*	5.4	7.9*	3.3	5.8*			2.2	2.9*	7.3
	-1.5	9.4	12.6*	5.0	8.1*	3.1	5.7*			2.5	3.4*	6.8
	-3.0	9.2	12.8*	4.7	7.3*					3.1	3.5*	5.8
LC	7.5			3.6*	3.6*					3.1*	3.1*	4.6
	6.0			5.6*	5.6*	3.2*	3.2*			2.6*	2.6*	6.1
	4.5	7.1*	7.1*	5.8	6.1*	3.7	5.1*			2.5*	2.5*	6.9
	3.0	10.1	10.5*	5.6	7.0*	3.7	5.3			2.4	2.5*	7.4
	1.5	9.9	11.2*	5.6	7.7*	3.6	5.3	2.3	2.8*	2.3	2.6*	7.5
	0	10.1	12.3*	5.6	7.8	3.4	5.2			2.3	2.9*	7.3
	-1.5	10.0	12.6*	5.2	8.1*	3.2	5.0			2.5	3.4*	6.8
	-3.0	9.7	12.8*	4.9	7.3*					3.2	3.5*	5.8
LC Blade up	7.5			3.6*	3.6*					3.1*	3.1*	4.6
	6.0			5.6*	5.6*	3.2*	3.2*			2.6*	2.6*	6.1
	4.5	7.1*	7.1*	6.1*	6.1*	4.0	5.1*			2.5*	2.5*	6.9
	3.0	10.5*	10.5*	6.0	7.0*	4.0	5.4			2.5*	2.5*	7.4
	1.5	10.5	11.2*	5.9	7.7*	3.8	5.4	2.5	2.8*	2.5	2.6*	7.5
	0	10.7	12.3*	6.0	7.9*	3.7	5.3			2.5	2.9*	7.3
	-1.5	10.8	12.6*	5.6	8.1*	3.5	5.1			2.8	3.4*	6.8
	-3.0	10.5	12.8*	5.3	7.3*					3.5*	3.5*	5.8
LC Blade down	7.5			3.6*	3.6*					3.1*	3.1*	4.6
	6.0			5.6*	5.6*	3.2*	3.2*			2.6*	2.6*	6.1
	4.5	7.1*	7.1*	6.1*	6.1*	4.2	5.1*			2.5*	2.5*	6.9
	3.0	10.5*	10.5*	6.3	7.0*	4.2	5.4*			2.5*	2.5*	7.4
	1.5	11.1	11.2*	6.2	7.7*	4.1	5.7*	2.7	2.8*	2.6*	2.6*	7.5
	0	11.3	12.3*	6.3	7.9*	3.9	5.8*			2.7	2.9*	7.3
	-1.5	11.7	12.6*	6.0	8.1*	3.7	5.7*			3.0	3.4*	6.8
	-3.0	11.4	12.8*	5.7	7.3*					3.5*	3.5*	5.8

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 230 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.
According to European Standard, EN 474-5: In the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic safety check valves on hoist cylinders and stick cylinder(s), when they are used for lifting operations which require the use of lifting accessories.
Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.
[1] Values are calculated with 500 mm wide track pads for the NLC-Undercarriage

Stick 2.65 m

Under-carriage	m	3.0 m		4.5 m		6.0 m		7.5 m				m
NLC[1]	**7.5**			4.2*	4.2*					2.8*	2.8*	**4.9**
	6.0			5.2	5.4*	3.1	3.8*			2.4*	2.4*	**6.3**
	4.5	6.0*	6.0*	5.1	5.9*	3.2	5.0*			2.2	2.3*	**7.1**
	3.0	8.9	10.3*	4.9	6.8*	3.2	5.2	2.0	2.9*	1.9	2.2*	**7.6**
	1.5	8.6	11.2*	4.9	7.6*	3.1	5.2	1.9	3.5	1.8	2.3*	**7.7**
	0	8.7	12.1*	4.8	7.7	2.9	5.1	1.8	2.9*	1.8	2.6*	**7.5**
	−1.5	8.3	12.5*	4.5	8.0	2.7	4.9			2.0	3.0*	**7.0**
	−3.0	8.1	13.1*	4.1	7.7*	2.6	3.7*			2.5	3.4*	**6.1**
NLC[1] Blade up	**7.5**			4.2*	4.2*					2.8*	2.8*	**4.9**
	6.0			5.4*	5.4*	3.4	3.8*			2.4*	2.4*	**6.3**
	4.5	6.0*	6.0*	5.4	5.9*	3.5	5.0*			2.3*	2.3*	**7.1**
	3.0	9.4	10.3*	5.2	6.8*	3.5	5.3	2.2	2.9*	2.1	2.2*	**7.6**
	1.5	9.1	11.2*	5.2	7.6*	3.3	5.3	2.1	3.6	2.0	2.3*	**7.7**
	0	9.2	12.1*	5.1	7.8	3.2	5.2	2.0	2.9*	2.0	2.6*	**7.5**
	−1.5	8.9	12.5*	4.9	8.0	2.9	5.0			2.2	3.0*	**7.0**
	−3.0	8.7	13.1*	4.5	7.7*	2.8	3.7*			2.8	3.4*	**6.1**
NLC[1] Blade down	**7.5**			4.2*	4.2*					2.8*	2.8*	**4.9**
	6.0			5.4*	5.4*	3.5	3.8*			2.4*	2.4*	**6.3**
	4.5	6.0*	6.0*	5.6	5.9*	3.6	5.0*			2.3*	2.3*	**7.1**
	3.0	9.8	10.3*	5.4	6.8*	3.6	5.3*	2.3	2.9*	2.2	2.2*	**7.6**
	1.5	9.5	11.2*	5.4	7.6*	3.5	5.6*	2.2	4.0*	2.1	2.3*	**7.7**
	0	9.6	12.1*	5.4	7.8*	3.3	5.7*	2.1	2.9*	2.1	2.6*	**7.5**
	−1.5	9.4	12.5*	5.1	8.0*	3.1	5.8*			2.3	3.0*	**7.0**
	−3.0	9.2	13.1*	4.7	7.7*	3.0	3.7*			2.9	3.4*	**6.1**
LC	**7.5**			4.2*	4.2*					2.8*	2.8*	**4.9**
	6.0			5.4*	5.4*	3.6	3.8*			2.4*	2.4*	**6.3**
	4.5	6.0*	6.0*	5.8	5.9*	3.7	5.0*			2.3*	2.3*	**7.1**
	3.0	10.2	10.3*	5.6	6.8*	3.7	5.3	2.3	2.9*	2.2*	2.2*	**7.6**
	1.5	9.9	11.2*	5.5	7.6*	3.6	5.3	2.3	3.6	2.2	2.3*	**7.7**
	0	10.0	12.1*	5.6	7.8	3.4	5.2	2.2	2.9*	2.2	2.6*	**7.5**
	−1.5	10.0	12.5*	5.3	8.0	3.2	5.0			2.4	3.0*	**7.0**
	−3.0	9.8	13.1*	4.9	7.7*	3.1	3.7*			3.0	3.4*	**6.1**
LC Blade up	**7.5**			4.2*	4.2*					2.8*	2.8*	**4.9**
	6.0			5.4*	5.4*	3.8*	3.8*			2.4*	2.4*	**6.3**
	4.5	6.0*	6.0*	5.9*	5.9*	4.0	5.0*			2.3*	2.3*	**7.1**
	3.0	10.3*	10.3*	6.0	6.8*	4.0	5.3*	2.6	2.9*	2.2*	2.2*	**7.6**
	1.5	10.5	11.2*	5.9	7.6*	3.9	5.3	2.5	3.7	2.3*	2.3*	**7.7**
	0	10.6	12.1*	6.0	7.8*	3.7	5.3	2.4	2.9*	2.4	2.6*	**7.5**
	−1.5	10.8	12.5*	5.7	8.0*	3.5	5.1			2.7	3.0*	**7.0**
	−3.0	10.6	13.1*	5.3	7.7*	3.4	3.7*			3.3	3.4*	**6.1**
LC Blade down	**7.5**			4.2*	4.2*					2.8*	2.8*	**4.9**
	6.0			5.4*	5.4*	3.8*	3.8*			2.4*	2.4*	**6.3**
	4.5	6.0*	6.0*	5.9*	5.9*	4.2	5.0*			2.3*	2.3*	**7.1**
	3.0	10.3*	10.3*	6.3	6.8*	4.2	5.3*	2.7	2.9*	2.2*	2.2*	**7.6**
	1.5	11.1	11.2*	6.2	7.6*	4.1	5.6*	2.7	4.0*	2.3*	2.3*	**7.7**
	0	11.2	12.1*	6.2	7.8*	3.9	5.7*	2.6	2.9*	2.6*	2.6*	**7.5**
	−1.5	11.7	12.5*	6.1	8.0*	3.7	5.8*			2.8	3.0*	**7.0**
	−3.0	11.5	13.1*	5.7	7.7*	3.6	3.7*			3.4*	3.4*	**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 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 230 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.
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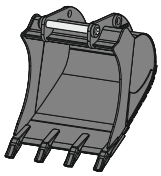
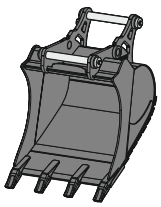
Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.
[1] Values are calculated with 500 mm wide track pads for the NLC-Undercarriage

Attachments



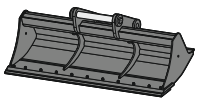
Backhoe bucket TL 03

Mounting		direct mounting, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, Oilquick OQ 60-5, Oilquick OQ 65, Oilquick OQ 70, Oilquick OQ 70/55, S 60 mechanical, S 65 mechanical, S 70 mechanical, S 70/55 mechanical							
Cutting width	mm	300[3) 4)]	400[3) 4)]	500[4)]	650	750	850	1,050	1,250
Capacity	m³	0.17[5)]	0.24[5)]	0.32	0.42	0.50	0.60	0.80	0.95
Weight[2)]	kg	270	290	295	375	395	435	510	555



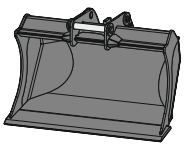
2in1 bucket HTL 03

Mounting		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink						
Cutting width	mm	300[1) 3)]	400[1) 3)]	500[2) 4)]	650[2)]	850[2)]	1,050[2)]	1,250[2)]
Capacity	m³	0.17	0.24	0.32	0.42	0.60	0.80	0.95
Weight	kg	280	290	413	450	510	584	628



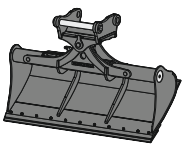
Ditch cleaning bucket GRL rigid 02

Mounting		direct mounting, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink		
Cutting width	mm	1,500	2,000	2,000
Capacity	m³	0.50	0.48	0.65
Weight[1)]	kg	362	351	385



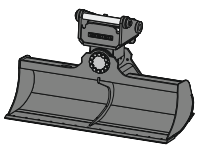
Grading bucket PL 03

Mounting		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, Oilquick OQ 65, Oilquick OQ 70, Oilquick OQ 70/55, S 65 mechanical, S 70 mechanical, S 70/55 mechanical	
Cutting width	mm	1,400	1,600
Capacity	m³	0.65	0.75
Weight[1)]	kg	350	390



Ditch cleaning bucket GRL 90

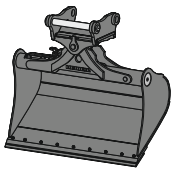
Mounting		direct mounting, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink										
Cutting width	mm	1,600	1,600	2,000	2,000	2,000	2,200	2,200	2,200	2,400	2,400	2,800
Capacity	m³	0.55	0.80	0.50	0.70	1.00	0.80	1.15	1.40	0.85	1.25	1.85
Weight[2)]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



Ditch cleaning bucket GRLM 20

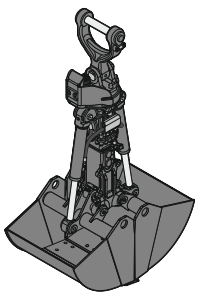
Mounting		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, Oilquick OQ 60-5, Oilquick OQ 65, Oilquick OQ 70, Oilquick OQ 70/55			
Cutting width	mm	1,600	1,800	2,000	2,200
Capacity	m³	0.55	0.65	0.70	0.80
Weight[1)]	kg	688	720	753	785
Tilt angle		2 x 50°	2 x 50°	2 x 50°	2 x 50°

[1)] based on an attachment in a standard design with SWA 33 Solidlink quick coupler mounting
[2)] based on an attachment in a standard design with SWA 48 Solidlink quick coupler mounting
[3)] limited digging depth due to mounting for SWA 33 quick coupler
[4)] limited digging depth due to mounting for SWA 48 quick coupler
[5)] reduced capacity with direct mounting



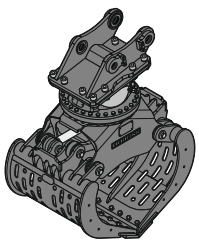
Tilt bucket SL 90

Mounting		direct mounting, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink						
Cutting width	mm	1,400	1,500	1,500	1,600	1,600	1,600	1,600
Capacity	m³	0.55	0.60	1.20	0.80	1.00	1.35	1.55
Weight[2)]	kg	715	738	970	820	890	970	1,030
Tilt angle		2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°



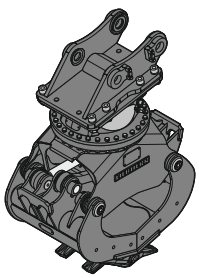
Clamshell grab GMZ 18

Mounting		direct mounting, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, Oilquick OQ 65, Oilquick OQ 70, Oilquick OQ 70/55			
Shell width	mm	320	400	600	800
Capacity[3)]	m³	0.17	0.22	0.30	0.40
Opening width	mm	1,462	1,462	1,392	1,392
Weight[4)]	kg	745	780	790	840



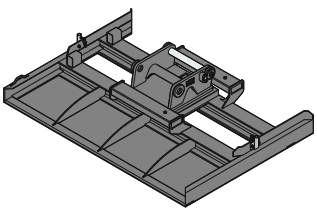
Sorting grab SG 20B

Mounting		direct mounting, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, Oilquick OQ 60-5, Oilquick OQ 65, Oilquick OQ 70, Oilquick OQ 70/55							
Shell type		perforated				closed			
Shell width	mm	800	1,000	1,200	1,400	800	1,000	1,200	1,400
Capacity	m³	0.40	0.50	0.60	0.70	0.40	0.50	0.60	0.70
Max. closing force	kN	40	40	40	40	40	40	40	40
Weight[5)]	kg	750	795	840	885	765	810	850	895



Sorting grab SG 20B with universal shell

Mounting		direct mounting, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, Oilquick OQ 60-5, Oilquick OQ 65, Oilquick OQ 70, Oilquick OQ 70/55
Shell width	mm	650
Capacity	m³	0.15
Max. closing force	kN	57
Weight[6)]	kg	831

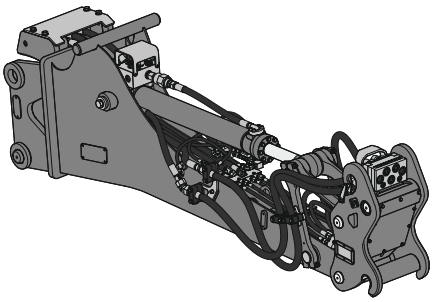


Grading beam PB 20

Mounting		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink
Cutting width	mm	2,500
Weight[1)]	kg	627

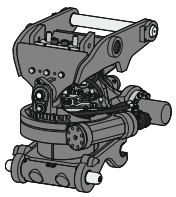
[1)] based on an attachment in a standard design with SWA 33 Solidlink quick coupler mounting
[2)] based on an attachment in a standard design with SWA 48 Solidlink quick coupler mounting
[3)] capacity specifications are theoretically determined values; fill level varies depending on the material being loaded
[4)] with HD suspension
[5)] with standard bolt-on cutting edge, without quick coupler mounting
[6)] with Liebherr teeth Z 35 C, without quick coupler mounting

Attachments



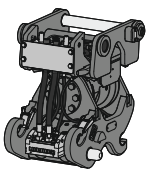
Stick extension LS 12

Mounting machine side		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 33 Solidlink-9, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, SWA 48 Solidlink-10	
Mounting attachment side		direct mounting, SWA 33 mechanical, SWA 33 mechanical Solidlink[2], SWA 33 hydraulic[4], SWA 33 Solidlink[3] [4] [5]	
Length	m	2.25	2.70
Weight[1]	kg	650	700



Tiltrotator TR 25

Mounting machine side		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink
Mounting attachment side		SWA 33 mechanical, SWA 33 hydraulic, SWA 48 mechanical, SWA 48 hydraulic
Weight[6]	kg	787
Rotation		360°
Tilt		2 x 50°



Tilt unit LiTiU 48[8] [9]

Mounting machine side		SWA 48 Solidlink
Mounting attachment side		SWA 48 hydraulic, SWA 48 Solidlink
Weight[7]	kg	740
Tilt		2 x 45°

[1] based on standard stick extension LS 12 with SWA 33 Solidlink quick coupler mountings on both sides (underside of stick extension and machine side mounting) and electric switchover
[2] attachment with high pressure circuit only possible with the manual switchover tipping cylinder or an extended hydraulic circuit on the carrier machine
[3] attachment with high pressure circuit only possible with the electric / manual switchover tipping cylinder or an extended hydraulic circuit on the carrier machine
[4] 14-pin signal contact strip is required, for example to control and monitor the hydraulic quick coupling system on the stick extension on the attachment side or to transfer electrical signals for the switchover
[5] to use different hydraulic circuits, either Solidlink 33-9 / Solidlink 48-10 is required on the machine side, or a switchover system using the equipment power socket, controlled via the carrier machine's signal contact strip
[6] based on standard tiltrotator TR 25 with SWA 48 Solidlink quick coupler mounting machine side and SWA 48 hydraulic quick coupler mounting on the underside tiltrotator
[7] based on standard tilt unit LiTiU 48 with SWA 48 Solidlink quick coupler mountings on both sides (underside of tilt unit and machine side quick coupler mounting)
[8] on the machine side, a 14-pin signal contact strip is always required; switching takes place between tilting the LiTiU and the grab rotation circle for the attachment
[9] on the machine side, the control unit for the second quick coupler is always required

Serial equipment

Undercarriage

Lashing eyes
Sprocket double-toothed
Track and carrier rollers, sealed and lifetime-lubricated

Uppercarriage

Anti-skid surfaces
Centralised lubrication system (automatic)
Engine hood with gas spring opening
Filters accessible from ground level
Front right rearview mirrors
Handrails
Hydraulic oil level, visible from ground level
Lockable fuel tank cap
Lockable service doors
Lockable storage box
Main switch, manual, lockable
Protection grid on radiator fan
Sound insulation
Swing drive gearbox oil level, visible from the cab
Swing-out fan
Windshield washer fluid tank

Hydraulic system

Filter with integrated fine filters
Hydraulic pressure measuring ports
Hydraulic tank shut-off valve
Liebherr Synchron Comfort System (LSC)
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
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
Stepless adjustable engine speed

Cab

7" 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
Coat hook
DEF consumption on touchscreen
DEF level on touchscreen
Electric socket in cab (12 V)
Electric socket in cab (24 V)
Emergency hammer
Fuel consumption on touchscreen
Fuel level on touchscreen
Impact resistant roof window
Interior lighting
Laminated right hand side window
LiDAT Plus (Liebherr data transfer system)*
Mechanical hour meter, visible from ground level
Rain hood over front window opening
Rearview mirror
Rear view monitoring camera
Rear window emergency exit
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
Storage nets
Storage spaces
Tiltable console left
Tinted windows
Visco-elastic damping
Windscreen wiper and washer
Work mode selector

Equipment

Boom cylinders regeneration
Pipe fracture safety valve for stick cylinder
Pipe fracture safety valves for boom cylinders
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 3 pieces	+
Dozer and stabilizer blade 2,500 mm	+
Dozer and stabilizer blade 2,600 mm	+
Dozer and stabilizer blade 2,850 mm	+
Dozer and stabilizer blade 3,000 mm	+
Reinforced cover and base plate for undercarriage centre section	+
Rubber track pads 600 mm	+
Special painting	+
Standard cover plate for undercarriage centre section	●
Steps	●
Steps wide	+
Track pads triple grouser 500 / 700 / 900 mm	+
Track pads triple grouser 600 mm	●
Tracks, sealed and greased	●
Undercarriage LC	+
Undercarriage NLC	+
Undercarriage storage compartment	+

Uppercarriage

Air pre-filter with cyclonical dust trap	+
Counterweight standard 3.9 t	●
Electric socket on uppercarriage (24 V)	+
Extended tool set including tool box	+
Flashing beacon on uppercarriage, rear, LED, 1 piece	+
Fuel anti-theft protection	+
Headlight on uppercarriage, lateral right, LED+, 1 piece	+[1]
Headlights on uppercarriage, front, halogen, 2 pieces, protections included	●[1]
Headlights on uppercarriage, front, LED+, 2 pieces, protections included	+[1]
Headlights on uppercarriage, rear, LED+, 2 pieces	+[1]
Pre-heating system for fuel	+
Reflective warning stickers	+
Reversible fan drive	+
Skyview 360°	+
Special painting	+
Tank refilling pump fuel	+
Tool set including storage case	●

Hydraulic system

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

Engine

Automatic engine shutdown after idling	+

Cab

2" seat belt with retractor	●
3" seat belt with retractor, orange colour	+
4-points seat belt	+
Acoustic travel alarm deactivatable	+
Attachment continuous operation system	+
Auxilary heater programmable	+
Bottom windscreen wiper	+
Cool box (12 V)	+
Dark tinted windows	+
Electronic immobiliser	+
Emergency stop in cab	+
FGPS front guard	+
Filter for hydraulic hammer return flow	+
Fire extinguisher	+
First-aid box	+
Flashing beacon on cab, LED, 1 piece	+
Footrest	+
FOPS top guard	+
Handrests elevated for joysticks	+
Headlights on cab, front, halogen, 2 pieces	●[1]
Headlights on cab, front, LED+, 2 pieces	+[1]
Headlights on cab roof, front, LED+, 2 pieces	+[1]
High pressure circuit switchable on pedals or mini-joystick	+
High pressure circuit with Tool Control (20 attachment adjustments on display)	+
Impact resistant one-piece windscreen	+
Lightbar on cab	+
Medium pressure circuit	+
Mini-joysticks proportional	+
Movement restriction for stick	+
Operator's seat Comfort	●
Operator's seat Premium	+
Overload warning system	+
Preparation for machine guidance system	+
Radio Comfort	+
Radio pre-installation	●
Retractable laminated two-piece windscreen	●
Right hand side view monitoring camera	●
Roof sun shield	+
Roof window wiper	+
Special painting	+
Sun visor	+
Switch between high pressure and bucket cylinder controls	+
Windscreen bottom protection grid	+

Equipment

Bucket cylinder rod protection	+
Centralised lubrication extended for connecting link	+
Centralised lubrication extended for quick coupler	+
Grapple hydraulic lines (bucket cylinder inactive)	+
Headlight guards on boom	+
Headlights on boom, halogen, 2 pieces	●[1]
Headlights on boom, LED+, 2 pieces	+[1]
Headlights on stick, right and left, LED+, 2 pieces, protections included	+[1]
Leak oil line for attachment	+
Liebherr bucket range	+
Liebherr tooth system	+
Load holding valve for bucket cylinder	+
Mono boom 5.00 m	+
Mono boom offset 4.90 m	+
Quick coupler SWA 33 hydraulic	+
Quick coupler SWA 33 mechanical	+
Quick coupler SWA 48 hydraulic	+
Quick coupler SWA 48 mechanical	+
Security for hoist cylinders	+
Solidlink electric signal plug	+
Solidlink for quick coupler SWA 33 hydraulic	+
Solidlink for quick coupler SWA 48 hydraulic	+
Special painting	+
Stick 2.25 m	+
Stick 2.45 m	+
Stick 2.65 m	+
Stick bottom protection	+
Tool Management	+
Two-piece boom 5.30 m	+
Two-piece boom offset 5.00 m	+
Working envelope height limitation	+

● = 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

Global and independent: more than 75 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 range includes the product segments earthmoving, material handling, deep foundation, 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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