

R 914 Compact Litronic

LIEBHERR

Crawler Excavator



Generation
6

Engine
90 kW / 122 HP
Stage V

Operating weight
14,900 – 17,850 kg

Bucket capacity
0.32 – 0.80 m³

Experience the progress R 914 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

Compactness

- Short tail swing radius of 1.55 m for increased safety and flexibility on work sites
- The perfect machine for narrow sites – ideal for urban applications and on motorways

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





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
- Large choice of tools and teeth to suit all applications

Engine

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

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

Undercarriage

- Robust, reliable X-frame undercarriage, easy to secure thanks to its integrated eyelets
- Easy maintenance
- Several levelling blades available
- Optional rubber track pads for urban application
- Possibility to anchor the machine with the blade
- Maintenance-free travel gear and track rollers with lifetime lubrication

Technical data



Engine

Rating per ISO 9249	90 kW (122 HP) at 1,800 RPM
Model	Deutz TCD3.6L4
Type	4 cylinder in-line
Bore	98 mm
Stroke	120 mm
Displacement	3.6 l
Engine operation	4-stroke diesel Common-Rail injection system Turbo-charged and after-cooler Reduced emissions
Exhaust gas treatment	Stage V DOC + DPF + SCR Deutz
Air cleaner	Dry-type air cleaner with pre-cleaner, primary and safety elements
Fuel tank	175 l
Urea tank	20 l
Electrical system	
Voltage	24 V
Batteries	2 x 135 Ah / 12 V
Alternator	Three-phase current 28 V / 80 A
Engine idling	Sensor controlled



Cooling system

Engine	Water-cooled Compact cooling system consisting cooling unit for water, hydraulic oil and charge air with stepless thermostatically controlled fan, fans for radiator cleaning can be completely folded away
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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	With hydraulic pilot control and proportional joystick levers
Travel	Electro-proportional via foot pedal
Additional functions	Via switch or electro-proportional foot pedals
Proportional control	Proportionally acting transmitters on the joysticks for additional hydraulic functions



Hydraulic system

Hydraulic pump	Liebherr axial piston variable displacement pump
For equipment and travel drive	300 l/min.
Max. flow	350 bar
Max. pressure	Liebherr-Synchron-Comfort-system (LSC) with electronic engine speed sensing regulation, pressure and flow compensation, torque controlled swing drive priority
Hydraulic pump regulation and control	100 l
Hydraulic tank	max. 230 l
Hydraulic system	1 main return filter with integrated partial micro filtration (5 µm)
Filtration	
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
S (Sensitive)	Mode for precision work and lifting through very sensitive movements
E (Eco)	Mode for especially economical and environmentally friendly operation
P (Power)	Mode for high performance with low fuel consumption
Engine speed and performance setting	Stepless adjustment of engine output and hydraulic power via engine speed
Option	Tool Control: 20 pre-adjustable pump flows and pressures for add-on attachments



Swing drive

Drive	Liebherr axial piston motor with integrated brake valve and torque control
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) with individual windscreens or featuring a slide-in subpart under the ceiling, headlights integrated in the ceiling, a door with a sliding window (can be opened on both sides), large stowing and depositing possibilities, shock-absorbing suspension, sound damping insulating, tinted laminated safety glass, separate window shades for the sunroof window and windscreen
Operator's seat Standard	Air cushioned operator's seat with 3D-adjustable arm-rests, headrest, lap belt, seat heater, manual weight adjustment, adjustable seat cushion inclination and length and mechanical lumbar vertebrae support
Operator's seat Comfort (Option)	In addition to operator's seat standard: lockable horizontal suspension, automatic weight adjustment, adjustable suspension stiffness, pneumatic lumbar vertebrae support and passive seat climatisation with active coal
Operator's seat Premium (Option)	In addition to operator's seat comfort: active electronic weight adjustment (automatic readjustment), pneumatic low frequency suspension and active seat climatisation with active coal and ventilator
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 ground level. Heating-cooling unit, designed for extreme outside temperatures, sensors for solar radiation 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	70 dB(A) = L _{PA} (inside cab)
2000/14/EC	100 dB(A) = L _{WA} (surround noise)



Undercarriage

Drive	Liebherr compact planetary reduction gear with Liebherr axial piston motor per side of undercarriage
Transmission	Liebherr compact planetary reduction gear
Maximum travel speed	3,1 km/h low range 6,8 km/h high range
Drawbar pull on crawler	154 kN
Track components	B4, maintenance-free
Track rollers / Carrier rollers	8 / 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	High-strength steel plates at highly-stressed points for the toughest requirements. Complex and stable mountings of equipment and cylinders
Hydraulic cylinders	Liebherr cylinders with seal and guidance systems
Bearings	Sealed, low maintenance



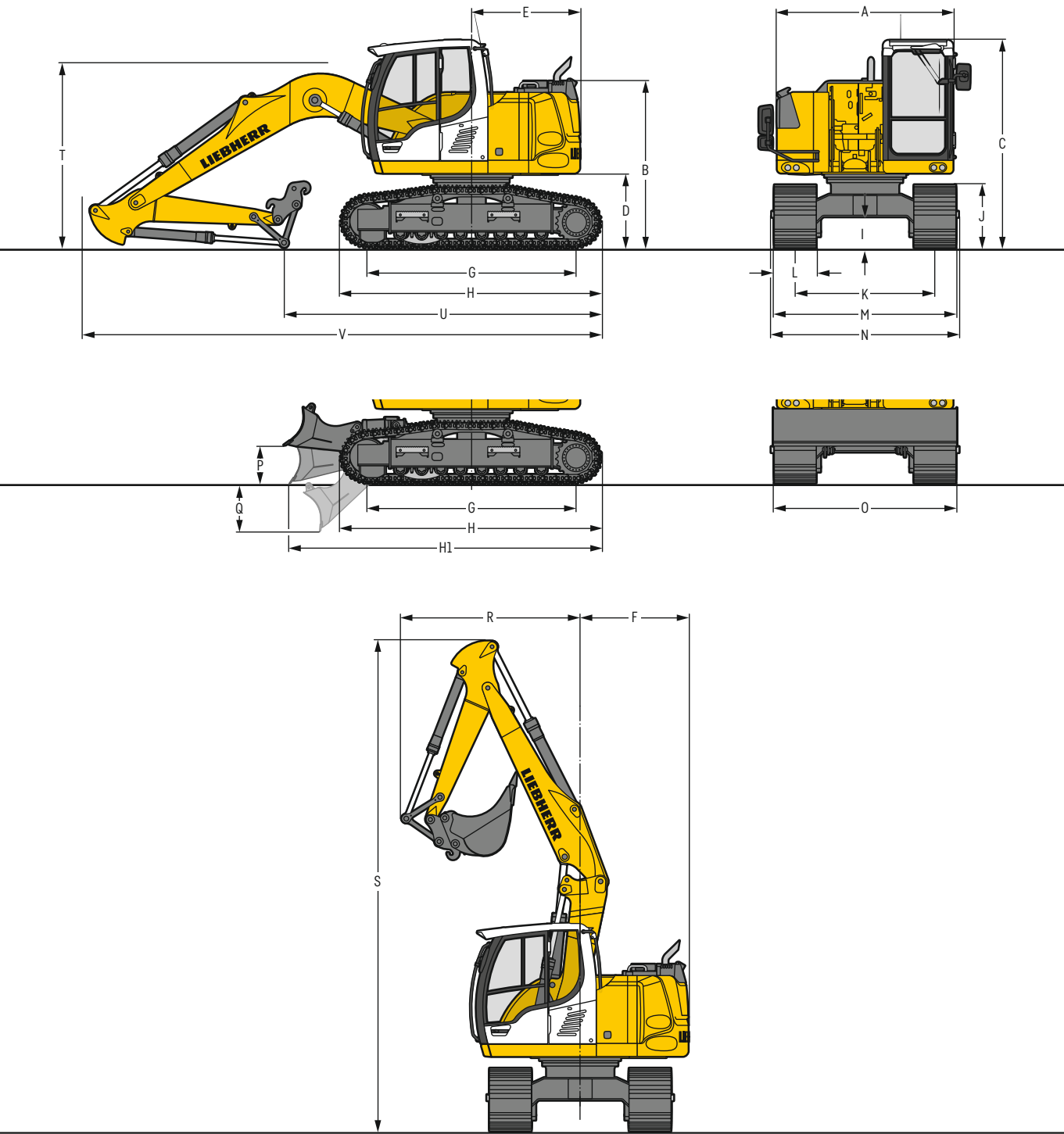
Complete machine

Lubrication	Liebherr central lubrication system for uppercarriage and equipment, automatically
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* 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



		S			mm	S with blade			mm
A	Uppercarriage width				2,525				2,525
B	Uppercarriage height				2,395				2,395
C	Cab height				2,980				2,980
D	Counterweight ground clearance				1,050				1,050
E	Rear-end length				1,550				1,550
F	Tail swing radius				1,550				1,550
G	Wheelbase				3,000				3,000
H	Undercarriage length				3,730				3,730
H1	Undercarriage length with blade				-				4,555
I	Undercarriage ground clearance				450				450
J	Track height				905				905
K	Track gauge				2,000				2,000
L	Track pad width			500 600 700				500 600 700	
M	Width over tracks		2,500 2,600 2,700					2,500 2,600 2,700	
N	Width over steps		2,480 2,480 2,680 ¹⁾					2,480 2,480 2,680 ¹⁾	
O	Blade width			-				2,500 2,600 2,700	
P	Max. blade height			-					550
Q	Max. blade depth			-					690

¹⁾ width with removable steps

		Stick length	Mono boom 4.60 m with quick coupler	Two-piece boom 4.85 m with quick coupler	Mono boom offset 4.30 m with quick coupler	Two-piece boom offset 4.90 m with quick coupler
		m	mm	mm	mm	mm
R	Front swing radius	2.05	2,400	2,550	2,400	2,950
		2.25	2,200	2,450	2,200	2,800
		2.45	2,050	2,300	2,050	2,700
		2.65	2,050	2,150	2,700	2,550
S	Height with boom up		6,800	7,050	6,600	7,050
T	Boom height	2.05	2,650	2,700	2,450	2,700
		2.25	2,700	2,750	2,450	2,750
		2.45	2,700	2,800	2,450	2,800
		2.65	2,750	2,850	2,500	2,850
U	Length on ground	2.05	4,550	5,100	6,550	5,000
		2.25	4,400	4,950	6,350	4,850
		2.45	4,200	4,800	6,200	4,700
		2.65	4,000	4,650	6,050	4,550
V	Overall length		7,450	7,800	7,150	7,800
	Bucket		0.50 m ³	0.50 m ³	0.50 m ³	0.50 m ³

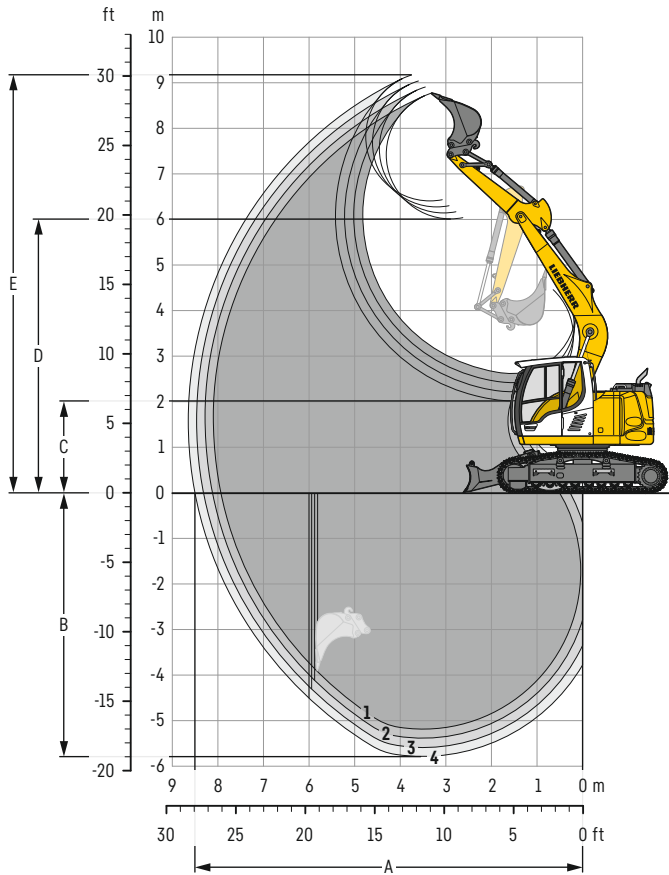
Transport dimensions

removable elements disassembled

		Mono boom 4.60 m mm			Two-piece boom 4.85 m mm			Mono boom offset 4.30 m mm			Two-piece boom offset 4.90 m mm		
Pad width		500	600	700	500	600	700	500	600	700	500	600	700
Transport width		2,525	2,600	2,700	2,525	2,600	2,700	2,525	2,600	2,700	2,525	2,600	2,700
	Undercarriage	S	S with blade	S	S with blade	S	S with blade	S	S with blade	S	S with blade		
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		
Transport length		7,450	8,300	7,800	8,650	7,150	8,000	7,800	8,650				
Transport height		2,980		2,980		2,980		2,980					

Backhoe bucket

with mono boom 4.60 m



Digging envelope

with quick coupler		1	2	3	4
Stick length	m	2.05	2.25	2.45	2.65
A Max. reach at ground level	m	7.95	8.15	8.30	8.50
B Max. digging depth	m	5.20	5.40	5.60	5.80
C Min. dumping height	m	2.60	2.40	2.20	2.00
D Max. dumping height	m	6.05	6.15	6.30	6.40
E Max. cutting height	m	8.75	8.90	9.05	9.15

Forces

without quick coupler		1	2	3	4
Stick digging force (ISO 6015)	kN	70	66	62	59
Bucket digging force (ISO 6015)	kN	89	89	89	89
Stick digging force (SAE J1179)	kN	68	64	60	57
Bucket digging force (SAE J1179)	kN	80	80	80	80

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 2.8t, mono boom 4.60m, stick 2.25 m, quick coupler SWA 33 and bucket 0.50 m³ (340 kg).

Undercarriage		S			
Pad width	mm	500	600	700	900
Weight	kg	14,900	15,100	15,350	15,750
Ground pressure	kg/cm ²	0.46	0.39	0.34	0.27

Undercarriage		S with blade			
Pad width	mm	500	600	700	900
Weight	kg	16,100	16,300	16,550	16,950
Ground pressure	kg/cm ²	0.49	0.42	0.36	0.29

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

	Cutting width mm	Capacity ISO 7451 m ³	Weight ³⁾ kg	Weight ⁴⁾ kg	S undercarriage (with track pads 600 mm)								S undercarriage with blade (with track pads 600 mm)							
					Stick length (m)								Stick length (m)							
					without quick coupler				with quick coupler				without quick coupler				with quick coupler			
					2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65
STD ¹⁾	500	0.32	230	250	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	550	0.29	250	260	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	650	0.36	270	290	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850	0.50	320	340	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050	0.65	360	380	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲
HD ²⁾	1,250	0.80	420	430	■	■	▲	■	■	▲	▲	■	▲	▲	▲	■	▲	▲	■	■
	500	0.32	260	280	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	550	0.29	280	290	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	650	0.36	300	320	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850	0.50	360	380	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050	0.65	420	430	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	0.80	480	490	■	▲	▲	■	■	▲	■	△	▲	▲	■	■	▲	▲	■	■

* 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

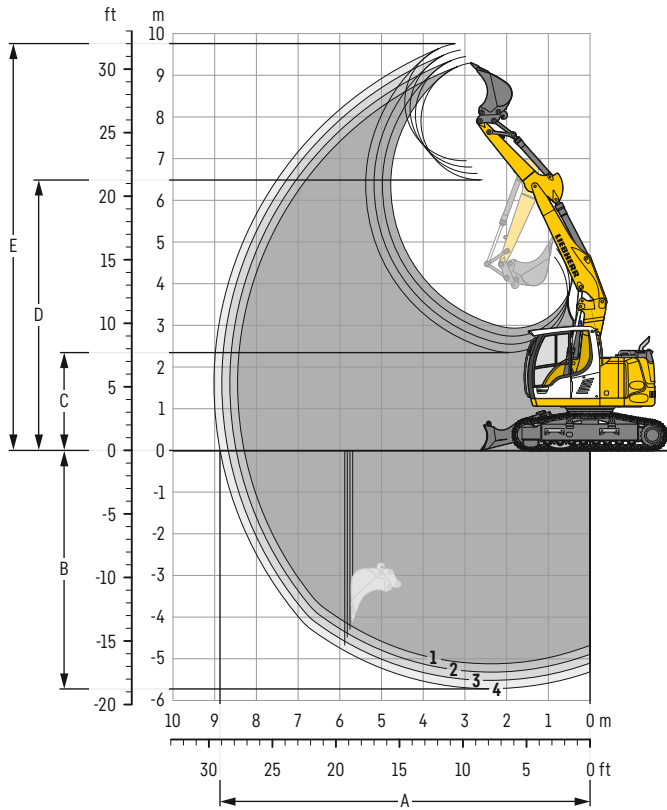
⁴⁾ Bucket for mounting to quick coupler

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

Backhoe bucket

with two-piece boom 4.85 m



Digging envelope

with quick coupler		1	2	3	4
Stick length	m	2.05	2.25	2.45	2.65
A Max. reach at ground level	m	8.30	8.50	8.70	8.90
B Max. digging depth	m	5.10	5.30	5.50	5.70
C Min. dumping height	m	2.95	2.75	2.55	2.35
D Max. dumping height	m	6.50	6.65	6.80	6.95
E Max. cutting height	m	9.30	9.45	9.60	9.75

Forces

without quick coupler		1	2	3	4
Stick digging force (ISO 6015)	kN	70	66	62	59
Bucket digging force (ISO 6015)	kN	89	89	89	89
Stick digging force (SAE J1179)	kN	68	64	60	57
Bucket digging force (SAE J1179)	kN	80	80	80	80

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 2.8t, two-piece boom 4.85 m, stick 2.25 m, quick coupler SWA 33 and bucket 0.50 m³ (340 kg).

Undercarriage	S				
Pad width	mm	500	600	700	900
Weight	kg	15,250	15,450	15,700	16,100
Ground pressure	kg/cm ²	0.47	0.40	0.35	0.28

Undercarriage		S with blade			
Pad width	mm	500	600	700	900
Weight	kg	16,450	16,650	16,900	17,300
Ground pressure	kg/cm²	0.50	0.43	0.37	0.30

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

	Cutting width mm	Capacity ISO 7451 m ³	Weight ³⁾ kg	Weight ⁴⁾ kg	S undercarriage (with track pads 600 mm)								S undercarriage with blade (with track pads 600 mm)							
					Stick length (m)								Stick length (m)							
					without quick coupler				with quick coupler				without quick coupler				with quick coupler			
					2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65
STD ¹⁾	500	0.32	230	250	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	550	0.29	250	260	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	650	0.36	270	290	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850	0.50	320	340	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050	0.65	360	380	▲	▲	■	■	▲	■	■	▲	▲	▲	▲	▲	▲	▲	▲	▲
HD ²⁾	1,250	0.80	420	430	▲	■	■	△	▲	■	△	△	▲	■	■	▲	■	■	▲	▲
	500	0.32	260	280	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	550	0.29	280	290	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	650	0.36	300	320	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850	0.50	360	380	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050	0.65	420	430	▲	▲	■	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	0.80	480	490	▲	■	△	△	■	△	△	△	▲	■	▲	▲	■	■	▲	■

* 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

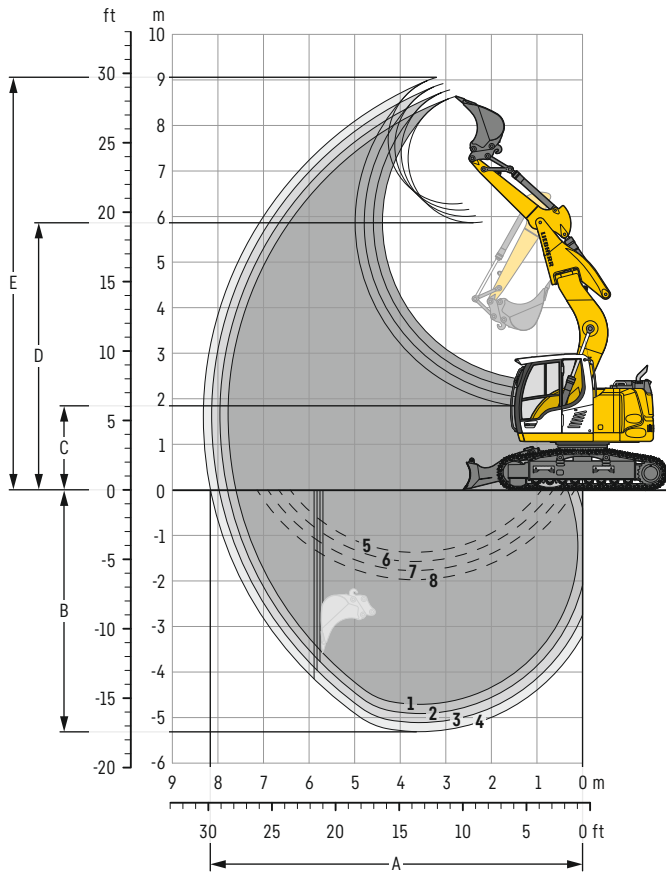
⁴⁾ Bucket for mounting to quick coupler

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

Backhoe bucket

with mono boom offset 4.30 m



Digging envelope

with quick coupler		1	2	3	4
Stick length	m	2.05	2.25	2.45	2.65
A Max. reach at ground level	m	7.60	7.80	8.00	8.15
B Max. digging depth	m	4.70	4.90	5.10	5.30
C Min. dumping height	m	2.40	2.20	2.00	1.80
D Max. dumping height	m	5.90	6.00	6.15	6.30
E Max. cutting height	m	8.65	8.80	8.90	9.05
F Max. offset right	m	2.37			
G Max. offset left	m	2.35			
H Max. offset angle right	°	48			
I Max. offset angle left	°	42.5			

1 with stick 2.05 m
 2 with stick 2.25 m
 3 with stick 2.45 m
 4 with stick 2.65 m
 with set straight boom

5 with stick 2.05 m
 6 with stick 2.25 m
 7 with stick 2.45 m
 8 with stick 2.65 m
 at max. equipment offset with vertical ditch walls

Forces

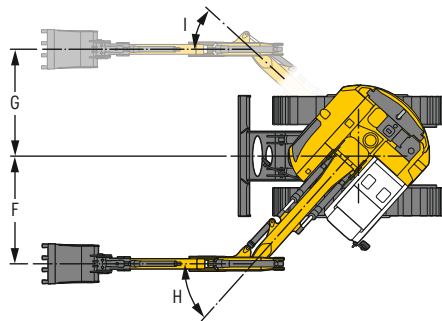
without quick coupler		1	2	3	4
Stick digging force (ISO 6015)	kN	70	66	62	59
Bucket digging force (ISO 6015)	kN	89	89	89	89
Stick digging force (SAE J1179)	kN	68	64	60	57
Bucket digging force (SAE J1179)	kN	80	80	80	80

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 2.8 t, mono boom offset 4.30 m, stick 2.25 m, quick coupler SWA 33 and bucket 0.50 m³ (340 kg).

Undercarriage		S			
Pad width	mm	500	600	700	900
Weight	kg	15,200	15,400	15,650	16,050
Ground pressure	kg/cm ²	0.47	0.40	0.35	0.28

Undercarriage	S with blade				
Pad width	mm	500	600	700	900
Weight	kg	16,400	16,600	16,850	17,250
Ground pressure	kg/cm ²	0.50	0.43	0.37	0.30



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

	Cutting width mm	Capacity ISO 7451 m ³	Weight ³⁾ kg	Weight ⁴⁾ kg	S undercarriage (with track pads 600 mm)								S undercarriage with blade (with track pads 600 mm)							
					Stick length (m)								Stick length (m)							
					without quick coupler				with quick coupler				without quick coupler				with quick coupler			
					2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65
STD ¹⁾	500	0.32	230	250	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	550	0.29	250	260	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	650	0.36	270	290	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850	0.50	320	340	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050	0.65	360	380	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	0.80	420	430	▲	■	■	▲	■	■	▲	■	▲	▲	▲	▲	▲	▲	▲	■
HD ²⁾	500	0.32	260	280	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	550	0.29	280	290	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	650	0.36	300	320	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850	0.50	360	380	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050	0.65	420	430	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,250	0.80	480	490	■	■	▲	■	■	▲	▲	■	▲	▲	▲	■	▲	▲	▲	■

* 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

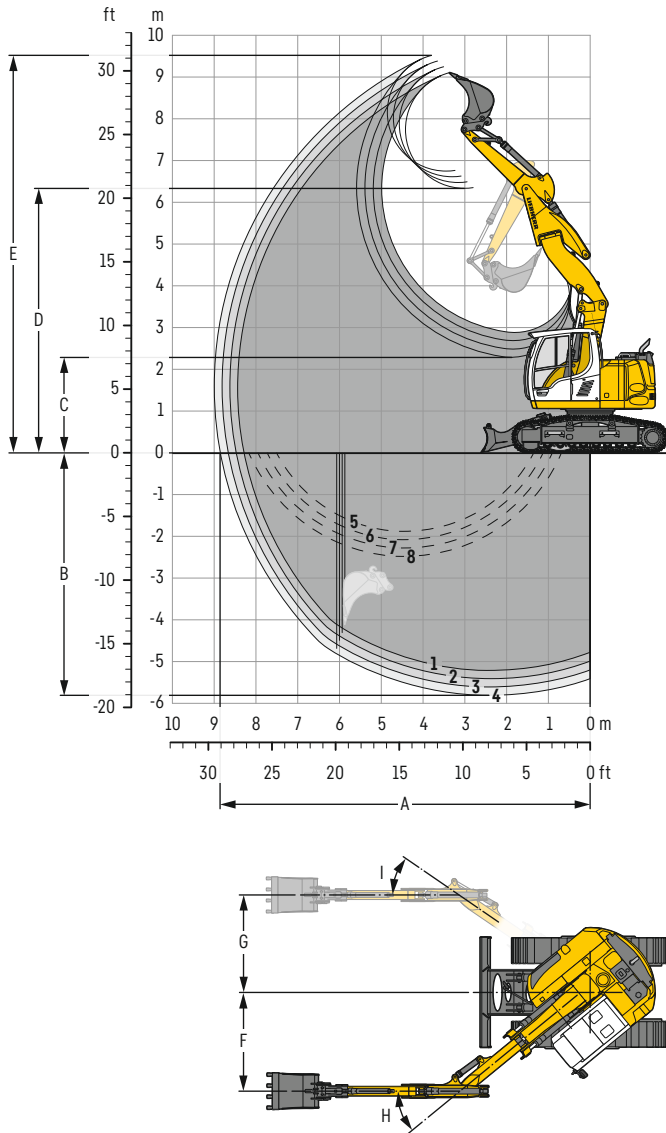
⁴⁾ Bucket for mounting to quick coupler

Other buckets available upon request

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

Backhoe bucket

with two-piece boom offset 4.90 m



Digging envelope

with quick coupler		1	2	3	4
Stick length	m	2.05	2.25	2.45	2.65
A Max. reach at ground level	m	8.25	8.45	8.65	8.85
B Max. digging depth	m	5.20	5.40	5.60	5.80
C Min. dumping height	m	2.90	2.70	2.50	2.30
D Max. dumping height	m	6.35	6.50	6.60	6.75
E Max. cutting height	m	9.10	9.25	9.40	9.50
F Max. offset right	m	2.37			
G Max. offset left	m	2.34			
H Max. offset angle right	°	39.5			
I Max. offset angle left	°	34.5			

1 with stick 2.05 m
 2 with stick 2.25 m
 3 with stick 2.45 m
 4 with stick 2.65 m
 with set straight boom

5 with stick 2.05 m
 6 with stick 2.25 m
 7 with stick 2.45 m
 8 with stick 2.65 m
 at max. equipment offset with vertical ditch walls

Forces

without quick coupler		1	2	3	4
Stick digging force (ISO 6015)	kN	70	66	62	59
Bucket digging force (ISO 6015)	kN	89	89	89	89
Stick digging force (SAE J1179)	kN	68	64	60	57
Bucket digging force (SAE J1179)	kN	80	80	80	80

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 2.8 t, two-piece boom offset 4.90 m, stick 2.25 m, quick coupler SWA 33 and bucket 0.50 m³ (340 kg).

Undercarriage		S			
Pad width	mm	500	600	700	900
Weight	kg	15,800	16,000	16,250	16,650
Ground pressure	kg/cm ²	0.49	0.41	0.36	0.29

Undercarriage		S with blade			
Pad width	mm	500	600	700	900
Weight	kg	17,000	17,200	17,450	17,850
Ground pressure	kg/cm ²	0.52	0.44	0.38	0.31

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

	Cutting width mm	Capacity ISO 7451 m ³	Weight ³⁾ kg	Weight ⁴⁾ kg	S undercarriage (with track pads 600 mm)								S undercarriage with blade (with track pads 600 mm)							
					Stick length (m)								Stick length (m)							
					without quick coupler				with quick coupler				without quick coupler				with quick coupler			
					2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65
STD ¹⁾	500	0.32	230	250	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	550	0.29	250	260	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	650	0.36	270	290	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850	0.50	320	340	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	1,050	0.65	360	380	■	■	▲	■	■	▲	■	△	▲	▲	▲	■	▲	▲	▲	■
HD ²⁾	1,250	0.80	420	430	■	△	△	△	△	△	△	—	■	▲	▲	■	▲	▲	■	△
	500	0.32	260	280	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	550	0.29	280	290	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	650	0.36	300	320	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	850	0.50	360	380	▲	▲	▲	▲	▲	▲	▲	■	▲	▲	▲	▲	▲	▲	▲	▲
	1,050	0.65	420	430	■	▲	▲	■	▲	▲	■	△	▲	▲	▲	■	▲	▲	■	■
	1,250	0.80	480	490	△	△	△	△	△	△	—	—	▲	▲	■	■	▲	■	■	△

* 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

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 4.60 m, counterweight 2.8 t and track pads 600 mm

Stick 2.05 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	Stick 2.05 m	Under-carriage
m	Stick 2.05 m	Stick 2.05 m	Stick 2.05 m	Stick 2.05 m	Stick 2.05 m	m
7.5					2.7*	2.7*
6.0					2.3	2.6*
4.5	5.2*	5.2*			2.0	2.6*
3.0	6.4	8.0*	2.3	3.5	1.8	2.8*
1.5		3.2	5.2	2.2	1.9	3.0
0	5.5	6.1*	3.1	5.1	2.1	3.4
-1.5	5.6	9.2*	3.0	5.0	2.9	4.5*
-3.0	5.7	7.2*	3.1	4.9*		
7.5					2.7*	2.7*
6.0					2.5	2.6*
4.5	5.2*	5.2*			2.2	2.6*
3.0	6.9	8.0*	3.8	5.3*	2.0	2.8*
1.5		3.5	5.3	2.4	2.1	3.0
0	6.0	6.1*	3.4	5.1	2.3	3.4
-1.5	6.0	9.2*	3.3	5.1	3.2	4.5*
-3.0	6.2	7.2*	3.4	4.9*		
7.5					2.7*	2.7*
6.0					2.6*	2.6*
4.5	5.2*	5.2*			2.3	2.6*
3.0	7.3	8.0*	4.0	5.3*	2.1	2.8*
1.5		3.7	6.2*	2.5	2.2	3.3*
0	6.1*	6.1*	3.6	6.6*	2.5	4.4*
-1.5	6.5	9.2*	3.5	6.3*	3.4	4.5*
-3.0	6.6	7.2*	3.6	4.9*		

Stick 2.25 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	Stick 2.25 m	Under-carriage
m	Stick 2.25 m	Stick 2.25 m	Stick 2.25 m	Stick 2.25 m	Stick 2.25 m	m
7.5					3.1*	3.1*
6.0					2.4*	2.4*
4.5	4.8*	4.8*			2.2	2.3*
3.0	6.5	7.6*	3.5	5.1*	1.9	2.3*
1.5	5.3*	5.3*	3.2	5.2	1.8	2.5*
0	5.5	6.3*	3.1	5.0	1.8	2.8
-1.5	5.5	9.4*	3.0	5.0	2.0	3.2
-3.0	5.6	7.6*	3.1	5.1	2.7	4.3
7.5					3.1*	3.1*
6.0					2.4*	2.4*
4.5	4.8*	4.8*			2.3*	2.3*
3.0	6.9	7.6*	3.8	5.1*	2.1	2.3*
1.5	5.3*	5.3*	3.5	5.3	1.9	2.5*
0	6.0	6.3*	3.3	5.1	2.0	2.9
-1.5	6.0	9.4*	3.3	5.1	2.2	3.3
-3.0	6.1	7.6*	3.4	5.1	2.9	4.4
7.5					3.1*	3.1*
6.0					2.4*	2.4*
4.5	4.8*	4.8*			2.3*	2.3*
3.0	7.4	7.6*	4.0	5.1*	2.2	2.3*
1.5	5.3*	5.3*	3.7	6.1*	2.0	2.5*
0	6.3*	6.3*	3.5	6.6*	2.1	2.9*
-1.5	6.4	9.4*	3.5	6.4*	2.3	3.8*
-3.0	6.6	7.6*	3.6	5.2*	3.1	4.4*

Stick 2.45 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	Stick 2.45 m	Under-carriage
m	Stick 2.45 m	Stick 2.45 m	Stick 2.45 m	Stick 2.45 m	Stick 2.45 m	m
7.5					2.7*	2.7*
6.0					2.2*	2.2*
4.5		3.7*	3.7*		2.1*	2.1*
3.0	6.6	7.1*	3.5	4.9*	1.8	2.1*
1.5	5.7	6.5*	3.2	5.2	1.7	2.3*
0	5.5	6.5*	3.0	5.0	1.7	2.6*
-1.5	5.4	9.6*	3.0	5.0	1.9	3.0
-3.0	5.6	7.9*	3.0	5.0	2.5	4.0
7.5					2.7*	2.7*
6.0					2.2*	2.2*
4.5		3.7*	3.7*		2.1*	2.1*
3.0	7.0	7.1*	3.8	4.9*	2.0	2.1*
1.5	6.2	6.5*	3.5	5.3	1.8	2.3*
0	6.0	6.5*	3.3	5.1	1.9	2.6*
-1.5	5.9	9.6*	3.3	5.0	2.1	3.1
-3.0	6.1	7.9*	3.3	5.1	2.7	4.1
7.5					2.7*	2.7*
6.0					2.2*	2.2*
4.5		3.7*	3.7*		2.1*	2.1*
3.0	7.1*	7.1*	4.0	4.9*	2.1	2.1*
1.5	6.5*	6.5*	3.7	6.0*	1.9	2.3*
0	6.4	6.5*	3.5	6.5*	2.0	2.6*
-1.5	6.4	9.6*	3.5	6.4*	2.2	3.3*
-3.0	6.5	7.9*	3.5	5.4*	2.9	4.3*

Stick 2.65 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	Stick 2.65 m	Under-carriage
m	Stick 2.65 m	Stick 2.65 m	Stick 2.65 m	Stick 2.65 m	Stick 2.65 m	m
7.5					2.4*	2.4*
6.0					2.0*	2.0*
4.5		3.5*	3.5*		1.9*	1.9*
3.0	6.6*	6.6*	3.5	4.7*	1.7	1.9*
1.5	5.8	7.8*	3.2	5.3	1.6	2.1*
0	5.4	6.6*	3.0	5.0	1.6	2.4*
-1.5	5.4	9.2*	3.0	4.9	1.8	2.9
-3.0	5.5	8.2*	3.0	5.0	2.3	3.7
7.5					2.4*	2.4*
6.0					2.0*	2.0*
4.5		3.5*	3.5*		1.9*	1.9*
3.0	6.6*	6.6*	3.8	4.7*	1.9	1.9*
1.5	6.3	7.8*	3.5	5.3	1.8	2.1*
0	5.9	6.6*	3.3	5.1	1.8	2.4*
-1.5	5.9	9.2*	3.2	5.0	2.0	2.9
-3.0	6.0	8.2*	3.3	5.0	2.5	3.8
7.5					2.4*	2.4*
6.0					2.0*	2.0*
4.5		3.5*	3.5*		1.9*	1.9*
3.0	6.6*	6.6*	4.0	4.7*	1.9	1.9*
1.5	6.7	7.8*	3.7	5.8*	1.9	2.1*
0	6.4	6.6*	3.5	6.5*	1.9	2.4*
-1.5	6.3	9.2*	3.4	6.4*	2.1	3.0*
-3.0	6.4	8.2*	3.5	5.6*	2.6	4.2*

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 186 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 4.85 m, counterweight 2.8 t and track pads 600 mm

Stick 2.05 m

Under-carriage	3.0m	4.5m	6.0m	7.5m	Stick 2.05 m	m
7.5					3.5* 3.5*	3.5
6.0					2.8* 2.8*	5.4
4.5	6.7* 6.7*	3.9 4.9*	2.4 3.6		2.1 2.6*	6.4
3.0	6.8 9.2*	3.8 5.6	2.4 3.6		1.8 2.6*	6.9
1.5	6.7 9.6*	3.8 5.6	2.3 3.5		1.7 2.7	7.0
0	6.5 10.5*	3.5 5.6	2.2 3.4		1.7 2.7	6.8
-1.5	6.2 10.7*	3.3 5.3	2.1 3.3		1.9 3.1	6.3
-3.0	6.0 9.3*	3.1 4.7*			2.7 3.4*	5.0
7.5					3.5* 3.5*	3.5
6.0					2.8* 2.8*	5.4
4.5	6.7* 6.7*	4.1 5.3*	2.5 3.7		2.3 2.6*	6.4
3.0	7.2 9.2*	4.1 5.7	2.5 3.7		2.0 2.6*	6.9
1.5	7.1 9.6*	4.1 5.6	2.5 3.6		1.8 2.7	7.0
0	7.0 10.5*	3.8 5.7	2.4 3.5		1.9 2.8	6.8
-1.5	6.7 10.7*	3.6 5.4	2.3 3.4		2.1 3.1	6.3
-3.0	6.5 9.3*	3.4 4.7*			2.9 3.4*	5.0
7.5					3.5* 3.5*	3.5
6.0					2.8* 2.8*	5.4
4.5	6.7* 6.7*	4.3 5.3*	2.7 4.3*		2.4 2.6*	6.4
3.0	7.6 9.2*	4.2 6.0*	2.7 4.7*		2.1 2.6*	6.9
1.5	7.5 9.6*	4.2 6.6*	2.6 4.8*		2.0 2.7*	7.0
0	7.5 10.5*	4.0 6.6*	2.5 4.9*		2.0 3.1*	6.8
-1.5	7.1 10.7*	3.8 6.8*	2.4 4.2*		2.2 3.5*	6.3
-3.0	6.9 9.3*	3.6 4.7*			3.1 3.4*	5.0

Stick 2.25 m

Under-carriage	3.0m	4.5m	6.0m	7.5m	Stick 2.25 m	m
7.5					3.1* 3.1*	3.9
6.0					2.5* 2.5*	5.6
4.5	5.6* 5.6*	3.9 4.6*	2.4 3.6		2.0 2.3*	6.6
3.0	6.8 9.1*	3.8 5.6	2.4 3.6		1.7 2.3*	7.1
1.5	6.7 9.5*	3.8 5.5	2.3 3.6		1.6 2.4*	7.2
0	6.5 10.4*	3.6 5.6	2.2 3.4		1.6 2.6	7.0
-1.5	6.2 10.6*	3.3 5.3	2.1 3.3		1.8 2.9	6.5
-3.0	6.0 9.9*	3.1 5.2			2.5 3.2*	5.3
7.5					3.1* 3.1*	3.9
6.0					2.5* 2.5*	5.6
4.5	5.6* 5.6*	4.1 5.1*	2.6 3.7		2.2 2.3*	6.6
3.0	7.2 9.1*	4.0 5.6	2.6 3.7		1.9 2.3*	7.1
1.5	7.1 9.5*	4.0 5.6	2.5 3.6		1.8 2.4*	7.2
0	7.0 10.4*	3.8 5.7	2.4 3.5		1.8 2.7	7.0
-1.5	6.7 10.6*	3.6 5.4	2.3 3.4		2.0 3.0	6.5
-3.0	6.5 9.9*	3.4 5.2			2.7 3.2*	5.3
7.5					3.1* 3.1*	3.9
6.0					2.5* 2.5*	5.6
4.5	5.6* 5.6*	4.3 5.1*	2.7 4.3*		2.3 2.3*	6.6
3.0	7.6 9.1*	4.2 5.9*	2.7 4.6*		2.0 2.3*	7.1
1.5	7.5 9.5*	4.2 6.5*	2.6 4.8*		1.9 2.4*	7.2
0	7.5 10.4*	4.0 6.6*	2.5 4.8*		1.9 2.7*	7.0
-1.5	7.1 10.6*	3.8 6.8*	2.4 4.4*		2.1 3.3*	6.5
-3.0	6.9 9.9*	3.6 5.3*			2.8 3.2*	5.3

Stick 2.45 m

Under-carriage	3.0m	4.5m	6.0m	7.5m	Stick 2.45 m	m
7.5					2.7* 2.7*	4.3
6.0					2.2* 2.2*	5.9
4.5	4.8* 4.8*	3.9 5.0*	2.4 3.7		1.9 2.1*	6.8
3.0	6.8 8.7*	3.8 5.6	2.4 3.6		1.6 2.1*	7.3
1.5	6.7 9.4*	3.8 5.5	2.3 3.6		1.5 2.2*	7.4
0	6.6 10.3*	3.6 5.6	2.2 3.4		1.6 2.5*	7.2
-1.5	6.2 10.5*	3.3 5.4	2.1 3.3		1.7 2.8	6.7
-3.0	6.0 10.3*	3.1 5.2			2.2 2.8*	5.7
7.5					2.7* 2.7*	4.3
6.0					2.2* 2.2*	5.9
4.5	4.8* 4.8*	4.1 5.0*	2.6 3.7		2.0 2.1*	6.8
3.0	7.2 8.7*	4.0 5.6	2.6 3.7		1.8 2.1*	7.3
1.5	7.1 9.4*	4.0 5.6	2.5 3.6		1.7 2.2*	7.4
0	7.1 10.3*	3.8 5.6	2.4 3.5		1.7 2.5*	7.2
-1.5	6.7 10.5*	3.6 5.4	2.3 3.4		1.9 2.8	6.7
-3.0	6.5 10.3*	3.4 5.2			2.4 2.8*	5.7
7.5					2.7* 2.7*	4.3
6.0					2.2* 2.2*	5.9
4.5	4.8* 4.8*	4.3 5.0*	2.7 4.2*		2.1* 2.1*	6.8
3.0	7.6 8.7*	4.2 5.7*	2.7 4.5*		1.9 2.1*	7.3
1.5	7.4 9.4*	4.2 6.4*	2.6 4.7*		1.8 2.2*	7.4
0	7.5 10.3*	4.1 6.5*	2.5 4.8*		1.8 2.5*	7.2
-1.5	7.1 10.5*	3.8 6.7*	2.4 4.6*		2.0 3.0*	6.7
-3.0	6.9 10.3*	3.6 5.8*			2.5 2.8*	5.7

Stick 2.65 m

Under-carriage	3.0m	4.5m	6.0m	7.5m	Stick 2.65 m	m
7.5					2.4* 2.4*	4.6
6.0					2.0* 2.0*	6.1
4.5					1.8 1.9*	7.0
3.0	6.8 8.4*	3.8 5.6	2.4 3.7		1.6 1.9*	7.5
1.5	6.6 9.4*	3.7 5.5	2.3 3.6	1.5 2.4	1.5 2.0*	7.6
0	6.6 10.1*	3.6 5.5	2.2 3.5		1.5 2.2*	7.4
-1.5	6.2 10.5*	3.4 5.4	2.1 3.3		1.6 2.6	6.9
-3.0	6.0 10.6*	3.1 5.1			2.0 2.8*	6.0
7.5					2.4* 2.4*	4.6
6.0					2.0* 2.0*	6.1
4.5					1.9* 1.9*	7.0
3.0	7.2 8.4*	4.0 5.6*	2.6 3.7		1.7 1.9*	7.5
1.5	7.0 9.4*	4.0 5.5	2.5 3.6	1.7 2.4	1.6 2.0*	7.6
0	7.1 10.1*	3.9 5.6	2.4 3.5		1.6 2.2*	7.4
-1.5	6.7 10.5*	3.6 5.5	2.3 3.4		1.8 2.6*	6.9
-3.0	6.5 10.6*	3.4 5.2			2.2 2.8*	6.0
7.5					2.4* 2.4*	4.6
6.0					2.0* 2.0*	6.1
4.5					1.9* 1.9*	7.0
3.0	7.6 8.4*	4.2 5.6*	2.7 4.4*		1.8 1.9*	7.5
1.5	7.4 9.4*	4.2 6.3*	2.7 4.7*	1.8 2.6*	1.7 2.0*	7.6
0	7.5 10.1*	4.1 6.5*	2.5 4.7*		1.7 2.2*	7.4
-1.5	7.1 10.5*	3.8 6.6*	2.4 4.7*		1.9 2.6*	6.9
-3.0	6.9 10.6*	3.6 6.1*			2.3 2.8*	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 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 186 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 offset 4.30 m, counterweight 2.8 t and track pads 600 mm

Stick 2.05 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m			
							m
7.5					2.7*	2.7*	4.5
6.0	5.0*	5.0*			2.5*	2.5*	5.6
4.5	5.7*	5.7*	3.7	4.8*	2.1	2.6*	6.2
3.0	6.5	8.1*	3.5	5.5	1.9	2.8*	6.4
1.5	5.6	7.8*	3.2	5.2	2.0	3.2	6.2
0	5.4	8.5*	3.0	5.0	2.3	3.7	5.5
-1.5	5.4	8.6*	3.0	5.0	3.3	4.1*	4.3
-3.0	5.6	5.9*					
7.5	5.0*	5.0*			2.7*	2.7*	4.5
6.0	5.7*	5.7*	4.0	4.8*	2.5*	2.5*	5.6
4.5	7.0	8.1*	3.7	5.6*	2.1	2.8*	6.2
3.0	6.1	7.8*	3.5	5.3	2.2	3.2	6.4
1.5	5.9	8.5*	3.3	5.1	2.5	3.7	6.2
0	5.9	8.6*	3.2	5.0	3.6	4.1*	5.5
-1.5	5.9*	5.9*					4.3
-3.0							
7.5	5.0*	5.0*			2.7*	2.7*	4.5
6.0	5.7*	5.7*	4.2	4.8*	2.5*	2.5*	5.6
4.5	7.4	8.1*	4.0	5.6*	2.2	2.8*	6.2
3.0	6.5	7.8*	3.7	6.3*	2.3	3.4*	6.4
1.5	6.3	8.5*	3.5	6.6*	2.6	4.5*	6.2
0	6.3	8.6*	3.4	5.9*	3.8	4.1*	5.5
-1.5	5.9*	5.9*					4.3
-3.0							

Stick 2.25 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m			
							m
7.5					2.4*	2.4*	4.7
6.0		3.2*	3.2*		2.3*	2.3*	5.8
4.5	5.3*	5.3*	3.7	4.6*	2.0	2.3*	6.4
3.0	6.6	7.7*	3.5	5.4*	1.9	2.5*	6.6
1.5	5.7	9.4*	3.2	5.2	1.9	3.0*	6.3
0	5.4	8.7*	3.0	5.0	2.1	3.5	5.7
-1.5	5.3	8.9*	2.9	4.9	3.0	4.1*	4.5
-3.0	5.5	6.4*	3.0	4.2*			
7.5		3.2*	3.2*		2.4*	2.4*	4.7
6.0		3.2*	3.2*		2.3*	2.3*	5.8
4.5	5.3*	5.3*	4.0	4.6*	2.2	2.3*	6.4
3.0	7.1	7.7*	3.8	5.4*	2.0	2.5*	6.6
1.5	6.2	9.4*	3.5	5.3	2.1	3.0*	6.3
0	5.8	8.7*	3.3	5.1	2.3	3.5	5.7
-1.5	5.8	8.9*	3.2	5.0	3.3	4.1*	4.5
-3.0	6.0	6.4*	3.3	4.2*			
7.5		3.2*	3.2*		2.4*	2.4*	4.7
6.0		3.2*	3.2*		2.3*	2.3*	5.8
4.5	5.3*	5.3*	4.2	4.6*	2.3	2.3*	6.4
3.0	7.5	7.7*	4.0	5.4*	2.1	2.5*	6.6
1.5	6.6	9.4*	3.7	6.2*	2.2	3.0*	6.3
0	6.3	8.7*	3.5	6.5*	2.5	4.0*	5.7
-1.5	6.3	8.9*	3.4	6.1*	3.5	4.1*	4.5
-3.0	6.4*	6.4*	3.5	4.2*			

Stick 2.45 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m			
							m
7.5					2.9*	2.9*	2.8
6.0					2.2*	2.2*	5.0
4.5	4.7*	4.7*	3.3*	3.3*	2.1*	2.1*	6.0
3.0	6.7	7.2*	3.5	5.2*	1.9	2.1*	6.6
1.5	5.7	9.7*	3.2	5.2	1.8	2.3*	6.7
0	5.3	8.8*	3.0	5.0	2.0	2.7*	6.5
-1.5	5.3	9.1*	2.9	4.9	2.0	3.3	5.9
-3.0	5.4	6.8*	3.0	4.6*	2.7	4.1*	4.8
7.5					2.9*	2.9*	2.8
6.0					2.2*	2.2*	5.0
4.5	4.7*	4.7*	4.0	4.4*	2.1*	2.1*	6.0
3.0	7.2	7.2*	3.8	5.2*	1.9	2.3*	6.7
1.5	6.2	9.7*	3.5	5.3	2.0	2.7*	6.5
0	5.8	8.8*	3.3	5.1	2.2	3.3	5.9
-1.5	5.8	9.1*	3.2	5.0	3.0	4.1*	4.8
-3.0	5.9	6.8*	3.3	4.6*			
7.5					2.9*	2.9*	2.8
6.0					2.2*	2.2*	5.0
4.5	4.7*	4.7*	4.3	4.4*	2.1*	2.1*	6.0
3.0	7.2*	7.2*	4.0	5.2*	2.0	2.3*	6.7
1.5	6.7	9.7*	3.7	6.1*	2.1	2.7*	6.5
0	6.2	8.8*	3.5	6.5*	2.3	3.5*	5.9
-1.5	6.2	9.1*	3.4	6.1*	3.2	4.1*	4.8
-3.0	6.4	6.8*	3.5	4.6*			

Stick 2.65 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m			
							m
7.5					2.5*	2.5*	3.3
6.0					2.0*	2.0*	5.2
4.5		3.3*	3.3*		1.9*	1.9*	6.2
3.0	6.8	6.8*	3.5	5.0*	1.8	1.9*	6.8
1.5	5.8	9.4*	3.2	5.3	1.7	2.1*	6.9
0	5.3	9.0*	3.0	5.0	1.7	2.4*	6.7
-1.5	5.2	9.3*	2.9	4.9	1.9	3.1	6.1
-3.0	5.4	7.2*	2.9	4.9*	2.5	4.1*	5.1
7.5					2.5*	2.5*	3.3
6.0					2.0*	2.0*	5.2
4.5		3.3*	3.3*		1.9*	1.9*	6.2
3.0	6.8*	6.8*	3.8	5.0*	1.9*	1.9*	6.8
1.5	6.3	9.4*	3.5	5.3	1.9	2.1*	6.9
0	5.8	9.0*	3.3	5.1	1.9	2.4*	6.7
-1.5	5.7	9.3*	3.2	4.9	2.1	3.1*	6.1
-3.0	5.9	7.2*	3.2	4.9*	2.8	4.1*	5.1
7.5					2.5*	2.5*	3.3
6.0					2.0*	2.0*	5.2
4.5		3.3*	3.3*		1.9*	1.9*	6.2
3.0	6.8*	6.8*	4.0	5.0*	1.9*	1.9*	6.8
1.5	6.7	9.4*	3.7	5.9*	2.0	2.1*	6.9
0	6.2	9.0*	3.5	6.5*	2.0	2.4*	6.7
-1.5	6.2	9.3*	3.4	6.2*	2.2	3.1*	6.1
-3.0	6.3	7.2*	3.4	4.9*	2.9	4.1*	5.1

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

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide track pads. Indicated loads are based on ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 186 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 offset 4.90 m, counterweight 2.8 t and track pads 600 mm

Stick 2.05 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	Stick 2.05 m	m
7.5					3.3* 3.3*	3.5
6.0					2.7* 2.7*	5.4
4.5	6.6* 6.6*	3.8 5.0*	2.2 3.5		2.0 2.5*	6.4
3.0	6.6 8.8*	3.7 5.4	2.2 3.5		1.6 2.5*	6.9
1.5	6.5 9.1*	3.7 5.4	2.1 3.4		1.5 2.5	7.0
0	6.4 9.9*	3.5 5.5	2.0 3.3		1.5 2.6	6.8
-1.5	6.0 10.2*	3.1 5.1	1.9 3.1		1.7 2.9	6.3
-3.0	5.6 9.2*	2.9 4.7*			2.3 3.0*	5.1
7.5					3.3* 3.3*	3.5
6.0					2.7* 2.7*	5.4
4.5	6.6* 6.6*	4.1 5.0*	2.4 3.6		2.1 2.5*	6.4
3.0	7.0 8.8*	4.0 5.5	2.4 3.6		1.8 2.5*	6.9
1.5	6.9 9.1*	4.0 5.4	2.3 3.5		1.7 2.6	7.0
0	6.9 9.9*	3.7 5.6	2.2 3.3		1.7 2.6	6.8
-1.5	6.5 10.2*	3.3 5.2	2.0 3.2		1.9 2.9	6.3
-3.0	6.1 9.2*	3.2 4.7*			2.6 3.0*	5.1
7.5					3.3* 3.3*	3.5
6.0					2.7* 2.7*	5.4
4.5	6.6* 6.6*	4.2 5.0*	2.6 4.2*		2.3 2.5*	6.4
3.0	7.4 8.8*	4.1 5.6*	2.6 4.4*		1.9 2.5*	6.9
1.5	7.3 9.1*	4.1 6.2*	2.5 4.5*		1.8 2.7*	7.0
0	7.4 9.9*	4.0 6.3*	2.3 4.6*		1.8 3.1*	6.8
-1.5	6.9 10.2*	3.6 6.5*	2.2 4.0*		2.0 3.4*	6.3
-3.0	6.6 9.2*	3.4 4.7*			2.7 3.0*	5.1

Stick 2.25 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	Stick 2.25 m	m
7.5					2.9* 2.9*	3.9
6.0					2.4* 2.4*	5.6
4.5	6.0* 6.0*	3.8 4.8*	2.3 3.6		1.9 2.3*	6.6
3.0	6.7 8.6*	3.7 5.4	2.3 3.6		1.6 2.3*	7.1
1.5	6.5 9.0*	3.7 5.3	2.2 3.5		1.4 2.4	7.2
0	6.5 9.8*	3.5 5.4	2.0 3.3		1.5 2.5	7.0
-1.5	6.0 10.1*	3.1 5.2	1.9 3.1		1.6 2.7	6.5
-3.0	5.6 9.7*	2.9 4.9			2.1 2.9*	5.5
7.5					2.9* 2.9*	3.9
6.0					2.4* 2.4*	5.6
4.5	6.0* 6.0*	4.1 4.8*	2.5 3.6		2.0 2.3*	6.6
3.0	7.0 8.6*	4.0 5.5	2.5 3.6		1.7 2.3*	7.1
1.5	6.9 9.0*	3.9 5.4	2.4 3.5		1.6 2.4*	7.2
0	7.0 9.8*	3.8 5.5	2.2 3.3		1.6 2.5	7.0
-1.5	6.5 10.1*	3.4 5.3	2.0 3.2		1.8 2.8	6.5
-3.0	6.1 9.7*	3.1 5.0			2.3 2.9*	5.5
7.5					2.9* 2.9*	3.9
6.0					2.4* 2.4*	5.6
4.5	6.0* 6.0*	4.2 4.8*	2.6 4.1*		2.2 2.3*	6.6
3.0	7.4 8.6*	4.1 5.5*	2.6 4.3*		1.8 2.3*	7.1
1.5	7.2 9.0*	4.1 6.1*	2.5 4.5*		1.7 2.4*	7.2
0	7.4 9.8*	4.0 6.2*	2.3 4.6*		1.7 2.8*	7.0
-1.5	7.0 10.1*	3.6 6.5*	2.2 4.2*		1.9 3.4*	6.5
-3.0	6.6 9.7*	3.4 5.2*			2.5 2.9*	5.5

Stick 2.45 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	Stick 2.45 m	m
7.5					2.6* 2.6*	4.2
6.0					2.2* 2.2*	5.9
4.5		3.8 4.6*	2.3 3.6		1.8 2.0*	6.8
3.0	6.7 8.2*	3.7 5.4*	2.3 3.6		1.5 2.1*	7.3
1.5	6.5 9.0*	3.7 5.3	2.2 3.5		1.4 2.2*	7.4
0	6.5 9.7*	3.5 5.4	2.0 3.3		1.4 2.3	7.2
-1.5	6.0 10.0*	3.2 5.2	1.9 3.1		1.5 2.6	6.7
-3.0	5.7 10.0*	2.9 4.9			1.9 2.9*	5.7
7.5					2.6* 2.6*	4.2
6.0					2.2* 2.2*	5.9
4.5		4.1 4.6*	2.5 3.6		1.9 2.0*	6.8
3.0	7.0 8.2*	3.9 5.4*	2.5 3.6		1.6 2.1*	7.3
1.5	6.9 9.0*	3.9 5.4	2.4 3.5		1.5 2.2*	7.4
0	6.9* 9.7*	3.8 5.4	2.2 3.4		1.5 2.4	7.2
-1.5	6.5 10.0*	3.4 5.3	2.1 3.2		1.7 2.6	6.7
-3.0	6.2 10.0*	3.1 5.0			2.1 2.9*	5.7
7.5					2.6* 2.6*	4.2
6.0					2.2* 2.2*	5.9
4.5		4.3 4.6*	2.7 4.0*		2.0* 2.0*	6.8
3.0	7.4 8.2*	4.1 5.4*	2.6 4.2*		1.7 2.1*	7.3
1.5	7.2 9.0*	4.1 6.0*	2.5 4.4*		1.6 2.2*	7.4
0	7.3 9.7*	4.0 6.2*	2.4 4.5*		1.6 2.5*	7.2
-1.5	7.0 10.0*	3.6 6.3*	2.2 4.4*		1.8 3.0*	6.7
-3.0	6.6 10.0*	3.4 5.6*			2.3 2.9*	5.7

Stick 2.65 m

Under-carriage	3.0 m	4.5 m	6.0 m	7.5 m	Stick 2.65 m	m
7.5		2.5* 2.5*			2.3* 2.3*	4.6
6.0		3.9* 3.9*	2.3 2.3*		1.9* 1.9*	6.1
4.5		3.8 4.5*	2.4 3.6		1.7 1.9*	7.0
3.0	6.7 7.9*	3.7 5.2*	2.4 3.6		1.4 1.9*	7.5
1.5	6.4 8.9*	3.6 5.3	2.3 3.5	1.3 2.3	1.3 2.0*	7.6
0	6.5 9.6*	3.5 5.3	2.1 3.3		1.3 2.2*	7.4
-1.5	6.0 9.9*	3.2 5.3	1.9 3.2		1.4 2.5	6.9
-3.0	5.7 10.3*	2.9 4.9			1.8 2.9*	6.0
7.5		2.5* 2.5*			2.3* 2.3*	4.6
6.0		3.9* 3.9*	2.3* 2.3*		1.9* 1.9*	6.1
4.5		4.1 4.5*	2.6 3.7		1.8 1.9*	7.0
3.0	7.1 7.9*	3.9 5.2*	2.5 3.6		1.6 1.9*	7.5
1.5	6.8 8.9*	3.9 5.3	2.4 3.6	1.5 2.3	1.5 2.0*	7.6
0	6.9 9.6*	3.8 5.4	2.3 3.4		1.5 2.2*	7.4
-1.5	6.5 9.9*	3.5 5.4	2.1 3.2		1.6 2.5	6.9
-3.0	6.2 10.3*	3.1 5.0			2.0 2.9*	6.0
7.5		2.5* 2.5*			2.3* 2.3*	4.6
6.0		3.9* 3.9*	2.3* 2.3*		1.9* 1.9*	6.1
4.5		4.3 4.5*	2.7 3.8*		1.9* 1.9*	7.0
3.0	7.4 7.9*	4.1 5.2*	2.7 4.1*		1.7 1.9*	7.5
1.5	7.2 8.9*	4.0 5.9*	2.6 4.4*	1.6 2.5*	1.6 2.0*	7.6
0	7.2 9.6*	4.0 6.1*	2.4 4.5*		1.6 2.2*	7.4
-1.5	7.0 9.9*	3.7 6.3*	2.2 4.5*		1.7 2.7*	6.9
-3.0	6.6 10.3*	3.4 5.9*			2.1 2.9*	6.0

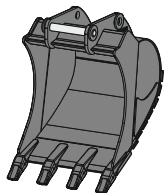
Height  Can be slewed through 360°  In longitudinal position of undercarriage  Max. reach * Limited by hydr. capacity

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 186 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.

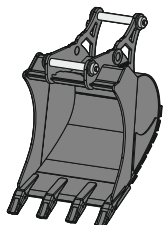
Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.

Attachments



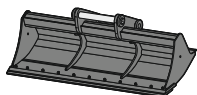
Backhoe bucket TL 02

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, S 60 mechanical, S 65 mechanical							
Cutting width	mm	300 ^{3) 4)}	400 ^{3) 4)}	500 ⁴⁾	550	650	850	1,050	1,250
Capacity	m ³	0.17 ⁵⁾	0.24 ⁵⁾	0.32 ⁵⁾	0.29	0.36	0.50	0.65	0.80
Weight ¹⁾	kg	225	245	250	260	285	335	380	430



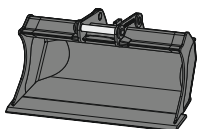
2in1 bucket HTL 02

Mounting		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink						
Cutting width	mm	300 ³⁾	400 ³⁾	500 ⁴⁾	650	850	1,050	1,250
Capacity	m ³	0.17	0.24	0.32	0.36	0.50	0.65	0.80
Weight ¹⁾	kg	284	291	287	321	371	416	465



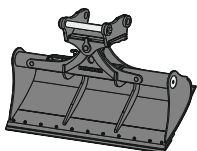
Ditch cleaning bucket GRL rigid 02

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	m ³	0.50		0.48			0.65	
Weight ¹⁾	kg	362		351			385	



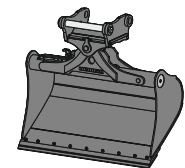
Grading bucket PL 02

Mounting		SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, Oilquick OQ 45-5, Oilquick OQ 60-5, Oilquick OQ 65, S 45 mechanical, S 60 mechanical, S 65 mechanical						
Cutting width	mm	1,400				1,600		
Capacity	m ³	0.40				0.50		
Weight ¹⁾	kg	280				310		



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°



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	m ³	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°

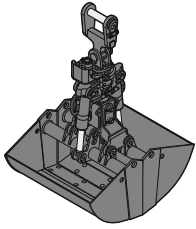
¹⁾ based on an attachment in a standard design with SWA 33 Solidlink quick coupler mounting

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



Clamshell grab

GM 05B Clamshell buckets

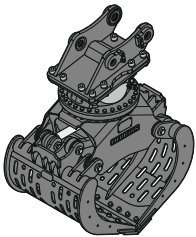
Mounting direct mounting, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, Oilquick OQ 45-5, Oilquick OQ 60-5

Shell width	mm	300	400	600	800	1,000
Capacity ¹⁾	m ³	0.10	0.13	0.20	0.27	0.34
Opening width	mm	1,217	1,217	1,217	1,217	1,217
Weight ²⁾	kg	480	515	545	585	660

GMZ 18 Clamshell buckets

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

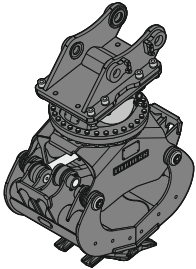
Shell width	mm	320	400	600	800
Capacity ¹⁾	m ³	0.17	0.22	0.30	0.40
Opening width	mm	1,462	1,462	1,392	1,392
Weight ³⁾	kg	745	780	790	840



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

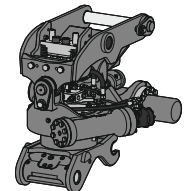
Shell type		perforated				closed			
Shell width	mm	800	1,000	1,200	1,400	800	1,000	1,200	1,400
Capacity	m ³	0.40	0.50	0.60	0.70	0.40	0.50	0.60	0.70
Max. closing force	kN	40	40	40	40	40	40	40	40
Weight ⁴⁾	kg	750	795	840	885	765	810	850	895



Sorting grab SG 20B with universal shell

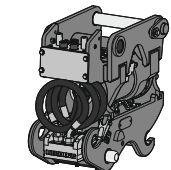
Mounting direct mounting, SWA 33 mechanical, SWA 33 hydraulic, SWA 33 Solidlink, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, Oilquick OQ 60-5, Oilquick OQ 65, Oilquick OQ 70, Oilquick OQ 70/55

Shell width	mm	650
Capacity	m ³	0.15
Max. closing force	kN	57
Weight ⁵⁾	kg	831



Tiltrotator TR 20B

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 641
Rotation	360°
Tilt	2 x 50°



Tilt unit LiTiU 33⁸⁾ 9)

Mounting machine side	SWA 33 Solidlink
Mounting attachment side	SWA 33 hydraulic, SWA 33 Solidlink
Weight ⁷⁾	kg 410
Tilt	2 x 50°

¹⁾ capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

²⁾ with standard suspension

³⁾ with HD suspension

⁴⁾ with standard bolt-on cutting edge, without quick coupler mounting

⁵⁾ with Liebherr teeth Z 35 C, without quick coupler mounting

⁶⁾ based on standard tiltrotator TR 20B with SWA 33 Solidlink quick coupler mounting machine side and SWA 33 hydraulic quick coupler mounting on the underside tiltrotator

⁷⁾ based on standard tilt unit LiTiU 33 with SWA 33 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
Undercarriage S



Uppercarriage

Centralised lubrication system (automatic)
Engine hood with gas spring opening
Filters accessible from ground level
Front right rearview mirrors
Hydraulic oil level, visible from ground level
Lockable fuel tank cap
Lockable service doors
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 + DPF + SCR
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 (12V)
Electric socket in cab (24V)
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
Shortcut buttons on joystick configurable
Storage nets
Storage spaces
Tilttable 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 2,700 mm	+
Rubber track pads 500 mm	+
Special painting	+
Steps	+
Steps wide	•
Track pads triple grouser 500 / 700 / 900 mm	+
Track pads triple grouser 600 mm	•
Tracks, sealed and greased, with track pads	•
Undercarriage storage compartment	+

Uppercarriage

Air pre-filter with cyclonical dust trap	+
Counterweight standard 2.8t	•
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	+[]
Headlights on uppercarriage, front, halogen, 2 pieces, protections included	•[]
Headlights on uppercarriage, front, LED+, 2 pieces, protections included	+[]
Headlights on uppercarriage, rear, LED+, 2 pieces	+[]
Pre-heating system for fuel	+
Reflective warning stickers	+
Reversible fan drive	+
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	+
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Equipment standard / option



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	+
Auxiliary heater programmable	+
Bottom windscreen wiper	+
Cool box (12 V)	+
Dark tinted windows	+
Emergency stop in cab	+
FGPS front guard	+
FGPS front guard tiltable	+
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	+
Keyed immobiliser	+
Lightbar on cab	+
Medium pressure circuit	+
Mini-joysticks proportional	●
Movement restriction for stick	+
Operator's seat Comfort	+
Operator's seat Premium	+
Operator's seat Standard	●
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	+
SuperFinish	+
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	+
Lifting eye on stick	+
Load holding valve for bucket cylinder	+
Mono boom 4.60 m	+
Mono boom offset 4.30 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 for quick coupler SWA 48	+
Solidlink for quick coupler SWA 33 hydraulic	+
Solidlink for quick coupler SWA 48 hydraulic	+
Special painting	+
Stick 2.05 m	+
Stick 2.25 m	+
Stick 2.45 m	+
Stick 2.65 m	+
Stick bottom protection	+
Tool Management	+
Two-piece boom 4.85 m	+
Two-piece boom offset 4.90 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.

Liebherr-France SAS

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