A 916 Compact Litronic

LIEBHERR

Wheeled excavator

Generation
6

Operating weight
16,000–18,300 kg

Engine
110 kW / 150 HP
Stage V
Tier 4 Final

Bucket capacity
0.17–0.87 m³

Performance

Compact, flexible – perfect combination
for maximum performance

Economy

A sound investment – optimum economy
and environmentally friendly

Reliability

Competence, consistency, innovation –
proven experience

Comfort

Ergonomic excellence – superior cabin design for
operator comfort and wellbeing

Maintainability

Service every step of the way –
simple, fast and reliable

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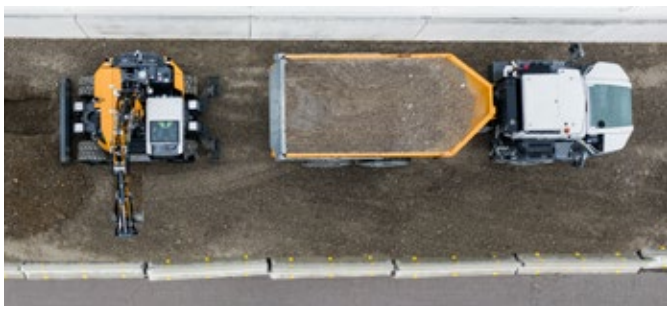
Well thought out to the last detail



Less is more
- Extended range of possible applications due to a short tail swing radius of only 1.80 m
- Greater safety for man and machine

Excellent stability
- Heavy counterweight for more stability at maximum outreach
- Use of bigger tools for more productivity
- Undercarriage varieties with welded supports for heavy duty work situations

Engine with Liebherr SCRT Technology
- 4 cylinder high performance in-line engine with Common-Rail injection system and efficient turbo charger
- Intelligent, highly efficient engine control unit and ideal torque progression for optimized output

Convincing in operation

Performance

Performance without compromise
The new machine concept of the A 916 Litronic Compact was developed for enhanced performance and flexibility. A powerful engine, finely tuned coordination of upper and under carriage, well designed equipment and counter weight give strength, stability and compactness and ultimately a machine that excels in all situations.

Perfect coordination of hydraulics
Many years of experience in the development and production of hydraulic excavators and systems allow us to harmonize the components perfectly. As a result, Liebherr hydraulic excavators feature rapid, fluid movements combined with high precision.

Economy

Fast and effective work on the construction site
The A 916 Compact Litronic wheeled excavator is a real power pack that ensures versatility and productivity. A high performance engine guarantees fast acceleration, high speed and maximum handling capacity – optimum features for any construction site.

Undercarriage options and attachments
To ensure maximum versatility and productivity of its construction machines, Liebherr offers a broad range of undercarriage versions, equipment and attachments suitable for a wide variety of applications. Furthermore, the hydraulic excavators can also be equipped with the Liebherr Solidlink hydraulic quick coupling system. The combination of a hydraulic Liebherr quick coupling system with the Solidlink coupling block permits fast safe changing of mechanical and hydraulic working tools from the operator's cabin. This boosts productivity on average by 30 %.

Reliability

Quality and competence
Our product experience, our understanding of technical design and feedback from customers, along with sales and service, form the basis for the use of pioneering ideas and have always been an integral part of our recipe for success. In addition, Liebherr has been delivering great production depth and system solutions for decades. Key components such as electronic components, slewing ring, slewing drive and hydraulic cylinders are developed and manufactured in-house. Our great production depth guarantees the highest quality possible and allows the components to be coordinated perfectly.

Safety
In addition to the performance and economy of a wheeled excavator, the other main focus is on the safety of personnel and the machine. A wide range of equipment such as pipe fracture safety devices on lifting and stick cylinders, load holding valves on outriggers, optional lift limitation in height, overload warning device, roll-over protection system (ROPS) and the emergency exit through the rear window deliver maximum safety for every job.

Strong undercarriage concept
All drive components are integrated or protected by a robust steel frame to protect them from damage.

Comfort

Productive working environment
The spacious Liebherr cab offers plenty of room for long working days and ensures the best platform for all-round visibility thanks to large window areas and narrow bars. All gear levers and control panels are located within reach and fit the ergonomic concept of the operator's cab perfectly. The temperature, fan setting and the standard automatic air-conditioning's head, chest and foot level air vents can be adjusted with ease using touchscreen control.

Smooth operation
The use of visco-elastic mounts, good noise insulation and modern, smooth Liebherr diesel engines minimise noise emissions and vibrations.

Radio with hands-free device
The optional Liebherr radio is MP3-compatible, has a USB connection, can receive digital radio (DAB+ depending on country) and can be used as interface for the integral hands-free kit. If a smartphone is connected using Bluetooth, phone calls can also be controlled via the touchscreen. This means that all media are controlled using a central unit which provides greater clarity, simplicity and comfort.

Maintainability

Integral maintenance benefits
Completing maintenance work helps keep the machine fully functional. Maintenance work does, however, mean machine down times which must be minimised. Automatic central lubrication systems for attachment and the uppercarriage as well as optional systems for the undercarriage, quick coupling system and working tools not only make it easier to observe the recommended lubrication intervals and ensure a long service life for the components, but also increase the productivity of the machine.

Retrofitting with new technologies
New emission standards, amended safety regulations or different areas of deployment – the demands on your machine can change as years go by. Protective grilles, additional filter systems and options for hydraulics are just a small selection from the Liebherr retrofit program with which we offer you an effective way to modify or retrofit your machine.

Rapid spare parts service
Spare parts service is available for our dealers around the clock. By means of the electronic spare parts catalogue, you are able to place your orders quickly and reliable via the Liebherr online portal. With online tracking, the current processing status of your order can be viewed at any time.

Technical data

Diesel engine

Rating per ISO 9249	110 kW (150 HP) at 1,800 RPM
Model	D924 – FPT motor designed for Liebherr
Type	4 cylinder in-line
Bore / Stroke	104 / 132 mm
Displacement	4.5 l
Engine operation	4-stroke diesel Common-Rail Turbo-charged and after-cooled Reduced emissions
Air cleaner	Dry-type air cleaner with pre-cleaner, primary and safety elements
Engine idling	Sensor controlled
Electrical system	
Voltage	24 V
Batteries	2 x 135 Ah / 12 V
Alternator	Three-phase current 28 V / 140 A
Stage V	
Harmful emissions values	According to regulation (EU) 2016/1628
Emission control	Liebherr-SCRT technology
Fuel tank	250 l
Urea tank	46 l
Tier 4 Final	
Harmful emissions values	In accordance with 40CFR1039 (EPA) / 13CCR (CARB)
Emission control	Liebherr-SCR technology
Fuel tank	250 l
Urea tank	46 l

Cooling system

Diesel 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

Hydraulic controls

Power distribution	Via control valves with integrated safety valves, simultaneous and independent actuation of chassis, swing drive and equipment
Servo circuit	
Equipment and swing	With hydraulic pilot control and proportional joystick levers
Chassis	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	
For equipment and travel drive	Liebherr axial piston variable displacement 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)
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
P+ (Power-Plus)	Mode for highest performance and for very heavy duty applications, suitable for continuous operation
Engine speed and performance setting	Stepless alignment 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, Liebherr planetary reduction gear
Swing ring	Liebherr, sealed race ball bearing swing ring, internal teeth
Swing speed	0–10.0 RPM stepless
Swing torque	54 kNm
Holding brake	Wet multi-disc (spring applied, pressure released)
Option	Pedal controlled positioning swing brake Slewing gear brake Comfort

Cab

Cab	ROPS safety cab structure (roll-over protection system) with individual windscreens or featuring a slide-in sub-part under the ceiling, work 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 armrests, 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	Joysticks with control consoles and swivel seat, folding left control console
Operation and displays	Large high-resolution operating unit, self-explanatory, 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 (country-dependent)
Refrigerant	R134a
Global warming potential	1,430
Quantity at 25 °C	1,300 g
CO_2 equivalent	1.859 t
Vibration emission*	
Hand / arm vibrations	< 2.5 m/s²
Whole-body vibrations	< 0.5 m/s²
Measuring inaccuracy	According with standard EN 12096:1997

Undercarriage

Drive	Oversized two speed power shift transmission with additional creeper speed, Liebherr axial piston motor with functional brake valve on both sides
Pulling force	95 kN
Travel speed	0– 3.5 km/h stepless (creeper speed off-road) 0– 7.0 km/h stepless (off-road) 0–13.0 km/h stepless (creeper speed on-road) 0–20.0 km/h stepless (road travel) 0–max. 25.0, 30.0 or 37.0 km/h Speeder (option)
Driving operation	Automotive driving using accelerator pedal, cruise control function: storage of variable accelerator pedal positions, both off-road and on-road
Axles	Manual or automatic hydraulically controlled front axle oscillation lock
Service brake	Two circuit travel brake system with accumulator; wet and backlash-free disc brake
Automatic digging brake	Works automatically when driving off (accelerator pedal actuation) and when the machine is stationary (engagement); the digging brake engages automatically – can be coupled with automatic swing axle lock
Holding brake	Wet multi-disc (spring applied, pressure released)
Stabilization	Rear stabilizer blade (adjustable during travel for dozing) Rear stabilizer blade + front outriggers Rear outriggers + front stabilizer blade
Option	EW undercarriage 2.75 m / 9'

Equipment

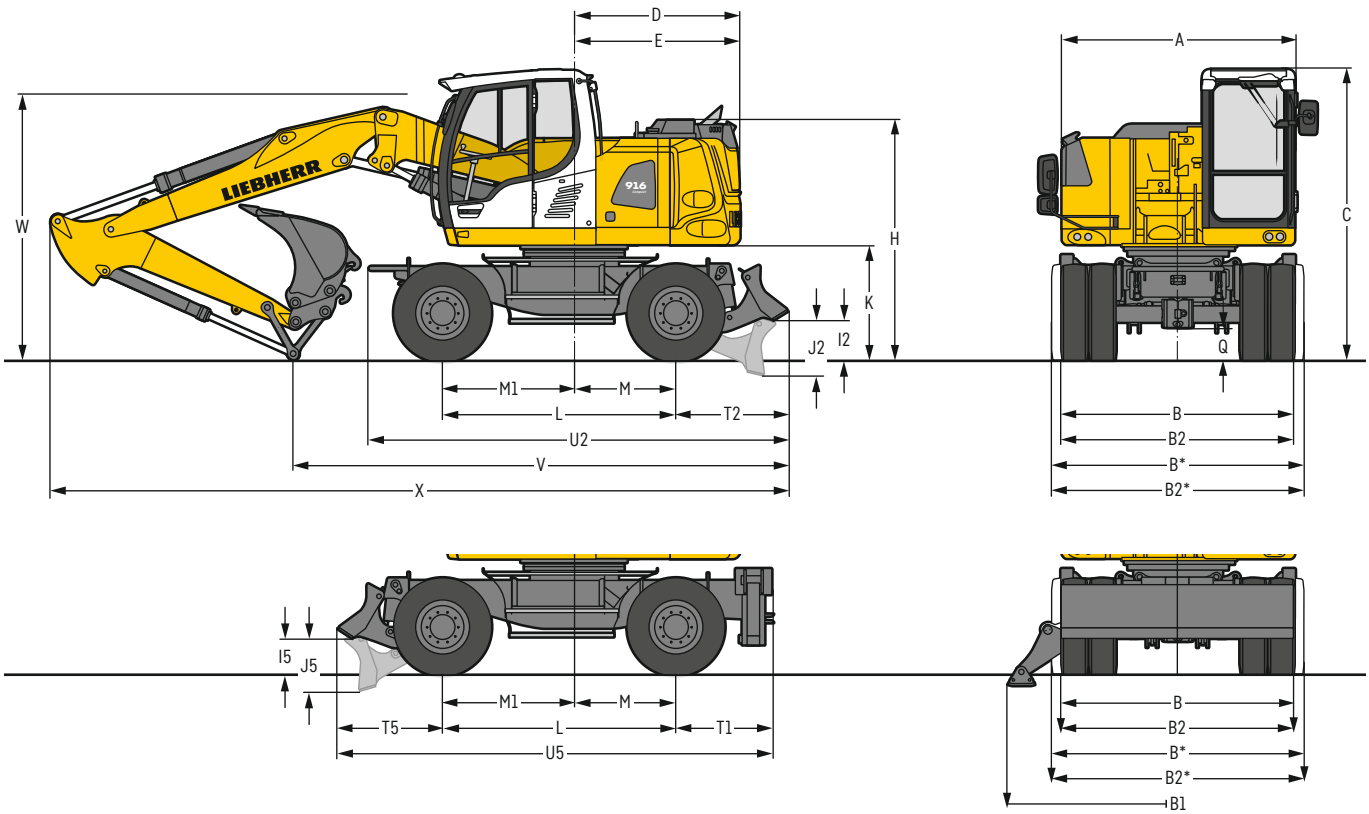
Type	High-strength steel plates at highly-stressed points for the toughest requirements. Complex and stable mountings of equipment and cylinders
Hydraulic cylinders	Liebherr cylinders with special sealing and guide system and, depending on cylinder type, shock absorption
Bearings	Sealed, low maintenance

Complete machine

Lubrication	Liebherr central lubrication system for uppercarriage and equipment, automatically
Noise emission	
ISO 6396	71 dB(A) = L_{pA} (inside cab)
2000/14/EC	100 dB(A) = L_{WA} (surround noise)

* for risk assessment according to 2002/44/EC see ISO/TR 25398:2006

Dimensions



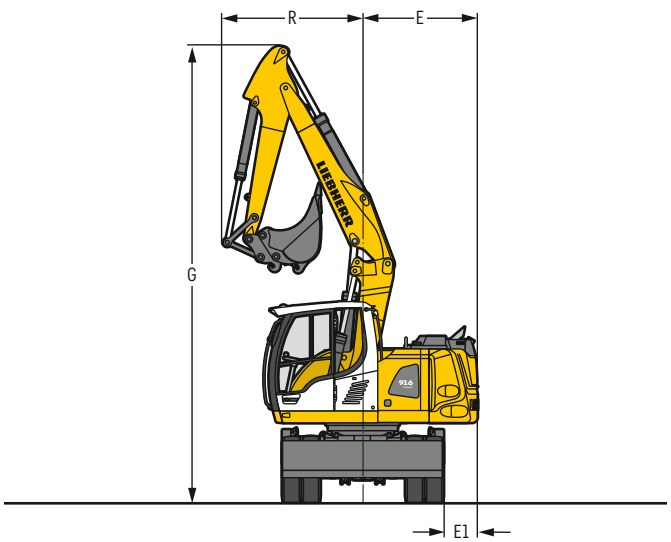
	mm
A	2,525
B	2,550
B*	2,750
B1	3,695
B2	2,550
B2*	2,750
C	3,165
D	1,800
E	1,800
H	2,615
I2	425
I5	380
J2	605
J5	585
K	1,230
L	2,540
M	1,100
M1	1,440
Q	350
T1	1,047
T2	1,230
T5	1,153
U2	4,575
U5	4,740

* EW undercarriage
E = Tail radius
Tyres 10.00-20

	Stick	Two-piece boom 4.85 m		Mono boom 4.60 m	
		Rear blade	Rear outriggers + front blade	Rear blade	Rear outriggers + front blade
	m	mm	mm	mm	mm
V	2.05	5,750	5,600	5,250	5,550*
	2.25	5,500	5,350	4,850*	5,200*
	2.45	5,050	5,300*	5,250*	5,600*
	2.65	5,100*	5,450*	5,650[1) 2)]	5,950*[1) 2)]
W	2.05	2,950	2,950	3,000	3,000*
	2.25	2,950	2,950	2,900*	2,900*
	2.45	2,800	2,800*	3,250*	3,250*
	2.65	3,050*	3,050*	3,150[1)]	3,150*[1)]
X	2.05	8,100	7,900	7,800	8,050*
	2.25	8,050	7,900	7,700*	8,050*
	2.45	8,050	8,350*	7,750	8,100*
	2.65	8,000*	8,350*	7,900[1)]	8,100*[1)]

	Stick	Offset two-piece boom 4.90 m		Offset mono boom 4.30 m	
		Rear blade	Rear outriggers + front blade	Rear blade	Rear outriggers + front blade
	m	mm	mm	mm	mm
V	2.05	6,250	6,100	5,650	5,900*
	2.25	5,750	5,600	5,300*	5,650*
	2.45	5,400	5,700*	5,600[1) 2)]	5,850*[1) 2)]
	2.65	4,950*	5,300*	5,550[1) 2)]	5,850*[1) 2)]
W	2.05	3,200	3,200	3,300	3,300*
	2.25	3,150	3,150	3,300*	3,300*
	2.45	3,100	3,100*	3,150[1)]	3,150*[1)]
	2.65	3,050*	3,050*	3,300[1)]	3,300*[1)]
X	2.05	8,100	7,950	7,550	7,800*
	2.25	8,100	7,950	7,400*	7,750*
	2.45	8,150	8,400*	7,550[1)]	7,850*[1)]
	2.65	8,050*	8,400*	7,550[1)]	7,800*[1)]

Dimensions are with equipment over steering axle
* Equipment over digging axle for shorter transport dimensions
[1)] without backhoe bucket
[2)] tipping cylinder retracted
W = Max. ground clearance including approx. 150 mm piping

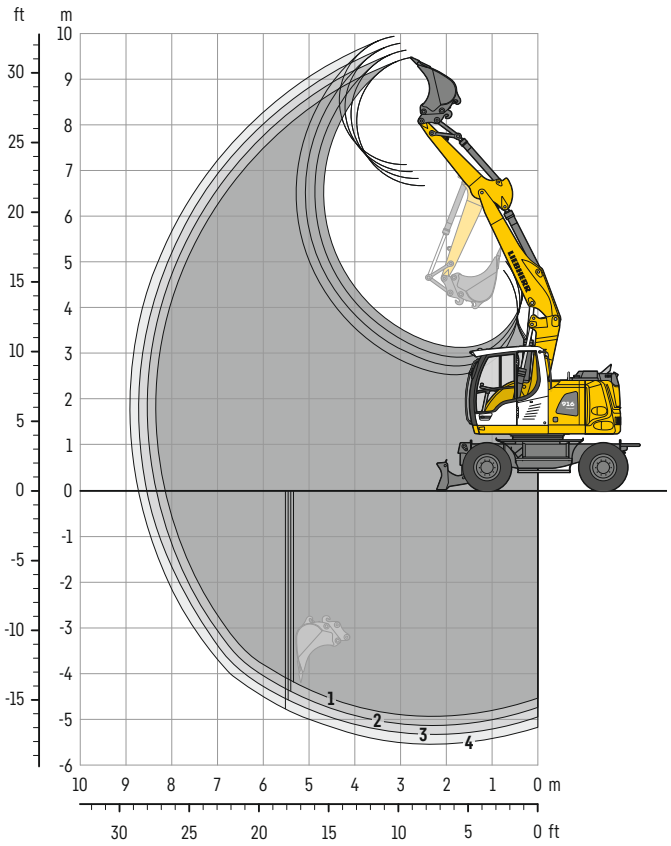


Boom	Stick m	G mm	R mm	E mm	E1 mm
Two-piece boom	2.05	7,190	2,120	1,800	520 / 435*
Two-piece boom	2.25	7,190	2,165	1,800	520 / 435*
Two-piece boom	2.45	7,200	2,215	1,800	520 / 435*
Two-piece boom	2.65	7,200	2,260	1,800	520 / 435*

* EW undercarriage

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
Max. digging depth	m	4.95	5.15	5.35	5.55
Max. reach at ground level	m	8.15	8.35	8.55	8.75
Max. dumping height	m	6.70	6.85	7.00	7.15
Max. teeth height	m	9.50	9.65	9.80	9.95
Min. equipment radius	m	2.12	2.17	2.22	2.26

Digging forces

without quick coupler		1	2	3	4
Max. digging force (ISO 6015)	kN	73.7	68.8	64.5	60.7
	t	7.5	7.0	6.6	6.2
Max. breakout force (ISO 6015)	kN	85.1	85.1	85.1	85.1
	t	8.7	8.7	8.7	8.7

Max. breakout force with ripper bucket 124.1 kN (12.6 t)

Operating weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, two-piece boom 4.85 m, stick 2.25 m, quick coupler SWA 33 and bucket 850 mm / 0.50 m³.

Undercarriage versions	Weight (kg)
A 916 Compact Litronic with rear blade	16,300
A 916 Compact Litronic with rear outriggers + front blade	17,300
A 916 Compact EW Litronic with rear blade	16,400
A 916 Compact EW Litronic with rear outriggers + front blade	17,400

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

Cutting width	Capacity ISO 7451[1]	Weight	Stabilizers raised				Rear blade down				Rear outriggers + front blade down				EW Stabilizers raised				EW Rear blade down				EW Rear outriggers + front blade down			
			Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)			
mm	m³	kg	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	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65
300[2]	0.17	220	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400[2]	0.24	250	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
500[2]	0.28	250	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
550[2]	0.29	260	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
650[2]	0.36	290	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
850[2]	0.50	340	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050[2]	0.65	380	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,250[2]	0.80	430	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
300[3]	0.18	210	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400[3]	0.26	240	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
500[3]	0.30	240	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
550[3]	0.31	250	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
650[3]	0.39	270	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
850[3]	0.53	320	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050[3]	0.71	370	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,250[3]	0.87	420	■	■	△	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

* Indicated loads are based on ISO 10567 and do not exceed 75 % of tipping or 87 % of hydraulic capacity, max. stick length without quick coupler, lifted 360° on firm with blocked oscillating axle

[1] comparable with SAE (heaped)

[2] Bucket with teeth (also available in HD version)

[3] Bucket with cutting edge (also available in HD version)

Buckets up to 500 mm cutting width with limited digging depth

Max. material weight ■ = ≤ 1.8 t/m³, ■ = ≤ 1.5 t/m³, △ = ≤ 1.2 t/m³, – = not authorised

Lift capacities

with two-piece boom 4.85 m

Stick 2.05 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–									2.4*	2.4*	
7.5	Blade	–									2.4*	2.4*	4.2
	Outriggers	Blade									2.4*	2.4*	
	–	–			3.9	4.1*					2.1*	2.1*	
6.0	Blade	–			4.1*	4.1*					2.1*	2.1*	5.9
	Outriggers	Blade			4.2*	4.2*					2.1*	2.1*	
	–	–	5.9*	5.9*	3.9	5.1*	2.5	4.0*			2.0	2.1*	
4.5	Blade	–	5.9*	5.9*	4.3	5.1*	2.7	4.0*			2.1*	2.1*	6.7
	Outriggers	Blade	5.9*	5.9*	5.1*	5.1*	4.0*	4.0*			2.1*	2.1*	
	–	–	6.8	9.3*	3.8	5.9*	2.4	4.0			1.7	2.1*	
3.0	Blade	–	7.5	9.3*	4.2	5.9*	2.7	4.5*			1.9	2.1*	7.2
	Outriggers	Blade	9.3*	9.3*	5.9*	5.9*	4.1	4.5*			2.1*	2.1*	
	–	–	6.7	9.9*	3.8	6.0	2.3	4.0			1.6	2.3*	
1.5	Blade	–	7.4	9.9*	4.2	6.5*	2.6	4.8*			1.8	2.3*	7.3
	Outriggers	Blade	9.9*	9.9*	6.1	6.5*	4.1	4.8*			2.3*	2.3*	
	–	–	6.5	10.6*	3.6	6.0	2.2	3.8			1.7	2.7*	
0	Blade	–	7.4	10.6*	4.0	6.6*	2.5	4.8*			1.9	2.7*	7.1
	Outriggers	Blade	10.6*	10.6*	6.1	6.6*	3.9	4.8*			2.7*	2.7*	
	–	–	6.2	10.8*	3.3	5.9	2.1	3.7			1.9	3.3	
−1.5	Blade	–	7.0	10.8*	3.7	6.8*	2.4	4.4*			2.1	3.6*	6.5
	Outriggers	Blade	10.8*	10.8*	6.1	6.8*	3.8	4.4*			3.4	3.6*	
	–	–	5.9	9.9*	3.2	5.3*					2.4	3.1*	
−3.0	Blade	–	6.7	9.9*	3.6	5.3*					2.7	3.1*	5.4
	Outriggers	Blade	9.9*	9.9*	5.3*	5.3*					3.1*	3.1*	

Stick 2.25 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–									2.2*	2.2*	
7.5	Blade	–									2.2*	2.2*	4.6
	Outriggers	Blade									2.2*	2.2*	
	–	–			3.9*	3.9*	2.2*	2.2*			1.9*	1.9*	
6.0	Blade	–			3.9*	3.9*	2.2*	2.2*			1.9*	1.9*	6.1
	Outriggers	Blade			3.9*	3.9*	2.2*	2.2*			1.9*	1.9*	
	–	–			3.9	4.9*	2.5	3.9*			1.9*	1.9*	
4.5	Blade	–			4.3	4.9*	2.7	3.9*			1.9*	1.9*	6.9
	Outriggers	Blade			4.9*	4.9*	3.9*	3.9*			1.9*	1.9*	
	–	–	6.8	8.9*	3.8	5.7*	2.5	4.0			1.6	1.9*	
3.0	Blade	–	7.5	8.9*	4.2	5.7*	2.7	4.4*			1.8	1.9*	7.4
	Outriggers	Blade	8.9*	8.9*	5.7*	5.7*	4.1	4.4*			1.9*	1.9*	
	–	–	6.6	9.8*	3.8	6.0	2.4	4.0			1.6	2.1*	
1.5	Blade	–	7.4	9.8*	4.1	6.5*	2.6	4.7*			1.8	2.1*	7.5
	Outriggers	Blade	9.8*	9.8*	6.1	6.5*	4.1	4.7*			2.1*	2.1*	
	–	–	6.5	10.5*	3.6	6.0	2.2	3.8			1.6	2.4*	
0	Blade	–	7.4	10.5*	4.0	6.6*	2.5	4.8*			1.8	2.4*	7.3
	Outriggers	Blade	10.5*	10.5*	6.1	6.6*	3.9	4.8*			2.4*	2.4*	
	–	–	6.2	10.8*	3.3	5.9	2.1	3.7			1.8	3.1	
−1.5	Blade	–	7.0	10.8*	3.8	6.7*	2.4	4.6*			2.0	3.1*	6.7
	Outriggers	Blade	10.8*	10.8*	6.1	6.7*	3.8	4.6*			3.1*	3.1*	
	–	–	5.9	10.4*	3.1	5.7					2.2	3.0*	
−3.0	Blade	–	6.7	10.4*	3.6	5.7*					2.5	3.0*	5.7
	Outriggers	Blade	10.4*	10.4*	5.7*	5.7*					3.0*	3.0*	

Stick 2.45 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–			2.7*	2.7*					2.0*	2.0*	
7.5	Blade	–			2.7*	2.7*					2.0*	2.0*	4.9
	Outriggers	Blade			2.7*	2.7*					2.0*	2.0*	
	–	–			3.6*	3.6*	2.5	2.5*			1.8*	1.8*	
6.0	Blade	–			3.6*	3.6*	2.5*	2.5*			1.8*	1.8*	6.3
	Outriggers	Blade			3.6*	3.6*	2.5*	2.5*			1.8*	1.8*	
	–	–			3.9	4.4*	2.5	3.7*			1.7*	1.7*	
4.5	Blade	–			4.3	4.4*	2.8	3.7*			1.7*	1.7*	7.2
	Outriggers	Blade			4.4*	4.4*	3.7*	3.7*			1.7*	1.7*	
	–	–	6.8	8.5*	3.8	5.6*	2.5	4.0	1.6	2.1*	1.6	1.7*	
3.0	Blade	–	7.5	8.5*	4.2	5.6*	2.7	4.4*	1.8	2.1*	1.7*	1.7*	7.6
	Outriggers	Blade	8.5*	8.5*	5.6*	5.6*	4.1	4.4*	2.1*	2.1*	1.7*	1.7*	
	–	–	6.6	9.7*	3.7	5.9	2.4	4.0	1.6	2.7*	1.5	1.9*	
1.5	Blade	–	7.3	9.7*	4.1	6.3*	2.7	4.7*	1.8	2.7*	1.7	1.9*	7.7
	Outriggers	Blade	9.7*	9.7*	6.0	6.3*	4.1	4.7*	2.7*	2.7*	1.9*	1.9*	
	–	–	6.5	10.4*	3.6	5.9	2.2	3.8			1.5	2.2*	
0	Blade	–	7.4	10.4*	4.0	6.6*	2.5	4.7*			1.7	2.2*	7.5
	Outriggers	Blade	10.4*	10.4*	6.1	6.6*	3.9	4.7*			2.2*	2.2*	
	–	–	6.2	10.7*	3.4	6.0	2.1	3.7			1.7	2.7*	
−1.5	Blade	–	7.0	10.7*	3.8	6.7*	2.4	4.7*			1.9	2.7*	6.9
	Outriggers	Blade	10.7*	10.7*	6.1	6.7*	3.8	4.7*			2.7*	2.7*	
	–	–	5.9	10.7*	3.1	5.7					2.1	3.0*	
−3.0	Blade	–	6.8	10.7*	3.5	6.1*					2.3	3.0*	5.9
	Outriggers	Blade	10.7*	10.7*	5.9	6.1*					3.0*	3.0*	

Stick 2.65 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–			2.8*	2.8*					1.8*	1.8*	
7.5	Blade	–			2.8*	2.8*					1.8*	1.8*	5.2
	Outriggers	Blade			2.8*	2.8*					1.8*	1.8*	
	–	–			3.4*	3.4*	2.5	2.6*			1.6*	1.6*	
6.0	Blade	–			3.4*	3.4*	2.6*	2.6*			1.6*	1.6*	6.6
	Outriggers	Blade			3.4*	3.4*	2.6*	2.6*			1.6*	1.6*	
	–	–			3.9	4.0*	2.5	3.5*			1.6*	1.6*	
4.5	Blade	–			4.0*	4.0*	2.8	3.5*			1.6*	1.6*	7.4
	Outriggers	Blade			4.0*	4.0*	3.6*	3.6*			1.6*	1.6*	
	–	–	6.8	8.1*	3.8	5.4*	2.5	4.0	1.6	2.4*	1.5	1.6*	
3.0	Blade	–	7.5	8.1*	4.2	5.4*	2.8	4.3*	1.8	2.4*	1.6*	1.6*	7.8
	Outriggers	Blade	8.1*	8.1*	5.4*	5.4*	4.1	4.3*	2.4*	2.4*	1.6*	1.6*	
	–	–	6.6*	9.6*	3.7	5.9	2.4	4.0	1.6	2.7	1.4	1.7*	
1.5	Blade	–	7.3	9.6*	4.1	6.2*	2.7	4.6*	1.8	3.0*	1.6	1.7*	7.9
	Outriggers	Blade	9.6*	9.6*	6.0	6.2*	4.0	4.6*	2.8	3.0*	1.7*	1.7*	
	–	–	6.6	10.2*	3.6	5.9	2.3	3.9	1.5	2.6	1.4	2.0*	
0	Blade	–	7.3	10.2*	4.1	6.5*	2.5	4.7*	1.7	2.8*	1.6	2.0*	7.7
	Outriggers	Blade	10.2*	10.2*	6.0	6.5*	4.0	4.7*	2.7	2.8*	2.0*	2.0*	
	–	–	6.2	10.6*	3.4	6.0	2.1	3.7			1.6	2.4*	
−1.5	Blade	–	7.0	10.6*	3.8	6.6*	2.4	4.7*			1.8	2.4*	7.1
	Outriggers	Blade	10.6*	10.6*	6.1	6.6*	3.8	4.7*			2.4*	2.4*	
	–	–	5.9	10.9*	3.1	5.7	2.0	3.4*			1.9	3.0*	
−3.0	Blade	–	6.8	10.9*	3.5	6.4*	2.3	3.4*			2.2	3.0*	6.2
	Outriggers	Blade	10.9*	10.9*	5.9	6.3*	3.4*	3.4*			3.0*	3.0*	

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

The lift capacities on the load hook of the Liebherr quick coupler SWA 33 without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (± 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. The values apply when the adjusting cylinder is in the optimal position. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity, or are limited by the permissible load of the load hook on the quick coupler (max. 5 t). Without the quick coupler, lift capacities will increase by up to 110 kg.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

Lift capacities

with two-piece boom 4.85 m, EW undercarriage

Stick 2.05 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–									2.4*	2.4*	
7.5	Blade	–									2.4*	2.4*	4.2
	Outriggers	Blade									2.4*	2.4*	
	–	–			4.1*	4.1*					2.1*	2.1*	
6.0	Blade	–			4.1*	4.1*					2.1*	2.1*	5.9
	Outriggers	Blade			4.2*	4.2*					2.1*	2.1*	
	–	–	5.9*	5.9*	4.3	5.1*	2.7	4.0*			2.1*	2.1*	
4.5	Blade	–	5.9*	5.9*	4.7	5.1*	3.0	4.0*			2.1*	2.1*	6.7
	Outriggers	Blade	5.9*	5.9*	5.1*	5.1*	4.0*	4.0*			2.1*	2.1*	
	–	–	7.5	9.3*	4.2	5.9*	2.7	4.1			1.9	2.1*	
3.0	Blade	–	8.3	9.3*	4.6	5.9*	3.0	4.5*			2.1*	2.1*	7.2
	Outriggers	Blade	9.3*	9.3*	5.9*	5.9*	4.3	4.5*			2.1*	2.1*	
	–	–	7.4	9.9*	4.2	6.0	2.6	4.0			1.8	2.3*	
1.5	Blade	–	8.2	9.9*	4.6	6.5*	2.9	4.8*			2.1	2.3*	7.3
	Outriggers	Blade	9.9*	9.9*	6.4	6.5*	4.2	4.8*			2.3*	2.3*	
	–	–	7.3	10.6*	4.0	6.1	2.5	3.9			1.9	2.7*	
0	Blade	–	8.3	10.6*	4.5	6.6*	2.8	4.8*			2.1	2.7*	7.1
	Outriggers	Blade	10.6*	10.6*	6.4	6.6*	4.1	4.8*			2.7*	2.7*	
	–	–	7.0	10.8*	3.7	5.9	2.4	3.7			2.1	3.3	
−1.5	Blade	–	8.0	10.8*	4.2	6.8*	2.6	4.4*			2.4	3.6*	6.5
	Outriggers	Blade	10.8*	10.8*	6.4	6.8*	4.0	4.4*			3.6	3.6*	
	–	–	6.7	9.9*	3.5	5.3*					2.7	3.1*	
−3.0	Blade	–	7.7	9.9*	4.0	5.3*					3.1*	3.1*	5.4
	Outriggers	Blade	9.9*	9.9*	5.3*	5.3*					3.1*	3.1*	

Stick 2.25 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–			2.4*	2.4*					2.2*	2.2*	
7.5	Blade	–			2.4*	2.4*					2.2*	2.2*	4.6
	Outriggers	Blade			2.4*	2.4*					2.2*	2.2*	
	–	–			3.9*	3.9*	2.2*	2.2*			1.9*	1.9*	
6.0	Blade	–			3.9*	3.9*	2.2*	2.2*			1.9*	1.9*	6.1
	Outriggers	Blade			3.9*	3.9*	2.2*	2.2*			1.9*	1.9*	
	–	–			4.3	4.9*	2.7	3.9*			1.9*	1.9*	
4.5	Blade	–			4.7	4.9*	3.0	3.9*			1.9*	1.9*	6.9
	Outriggers	Blade			4.9*	4.9*	3.9*	3.9*			1.9*	1.9*	
	–	–	7.5	8.9*	4.2	5.7*	2.7	4.0			1.8	1.9*	
3.0	Blade	–	8.3	8.9*	4.6	5.7*	3.0	4.4*			1.9*	1.9*	7.4
	Outriggers	Blade	8.9*	8.9*	5.7*	5.7*	4.3	4.4*			1.9*	1.9*	
	–	–	7.3	9.8*	4.1	6.0	2.6	4.0			1.7	2.1*	
1.5	Blade	–	8.2	9.8*	4.5	6.5*	2.9	4.7*			2.0	2.1*	7.5
	Outriggers	Blade	9.8*	9.8*	6.3	6.5*	4.3	4.7*			2.1*	2.1*	
	–	–	7.4	10.5*	4.0	6.0	2.5	3.9			1.8	2.4*	
0	Blade	–	8.2	10.5*	4.5	6.6*	2.8	4.8*			2.0	2.4*	7.3
	Outriggers	Blade	10.5*	10.5*	6.3	6.6*	4.1	4.8*			2.4*	2.4*	
	–	–	7.0	10.8*	3.7	6.0	2.3	3.7			2.0	3.1*	
−1.5	Blade	–	8.0	10.8*	4.2	6.7*	2.6	4.6*			2.2	3.1*	6.7
	Outriggers	Blade	10.8*	10.8*	6.4	6.7*	4.0	4.6*			3.1*	3.1*	
	–	–	6.7	10.4*	3.5	5.7*					2.5	3.0*	
−3.0	Blade	–	7.7	10.4*	4.0	5.7*					2.8	3.0*	5.7
	Outriggers	Blade	10.4*	10.4*	5.7*	5.7*					3.0*	3.0*	

Stick 2.45 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–			2.7*	2.7*					2.0*	2.0*	
7.5	Blade	–			2.7*	2.7*					2.0*	2.0*	4.9
	Outriggers	Blade			2.7*	2.7*					2.0*	2.0*	
	–	–			3.6*	3.6*	2.5*	2.5*			1.8*	1.8*	
6.0	Blade	–			3.6*	3.6*	2.5*	2.5*			1.8*	1.8*	6.3
	Outriggers	Blade			3.6*	3.6*	2.5*	2.5*			1.8*	1.8*	
	–	–			4.3	4.4*	2.8	3.7*			1.7*	1.7*	
4.5	Blade	–			4.4*	4.4*	3.0	3.7*			1.7*	1.7*	7.2
	Outriggers	Blade			4.4*	4.4*	3.7*	3.7*			1.7*	1.7*	
	–	–	7.5	8.5*	4.2	5.6*	2.7	4.0	1.8	2.1*	1.7*	1.7*	
3.0	Blade	–	8.3	8.5*	4.6	5.6*	3.0	4.4*	2.0	2.1*	1.7*	1.7*	7.6
	Outriggers	Blade	8.5*	8.5*	5.6*	5.6*	4.3	4.4*	2.1*	2.1*	1.7*	1.7*	
	–	–	7.3	9.7*	4.1	6.0	2.6	4.0	1.7	2.7*	1.7	1.9*	
1.5	Blade	–	8.1	9.7*	4.5	6.3*	2.9	4.7*	2.0	2.7*	1.9	1.9*	7.7
	Outriggers	Blade	9.7*	9.7*	6.3	6.3*	4.2	4.7*	2.7*	2.7*	1.9*	1.9*	
	–	–	7.3	10.4*	4.0	6.0	2.5	3.9			1.7	2.2*	
0	Blade	–	8.2*	10.4*	4.5	6.6*	2.8	4.7*			1.9	2.2*	7.5
	Outriggers	Blade	10.4*	10.4*	6.3	6.6*	4.1	4.7*			2.2*	2.2*	
	–	–	7.0	10.7*	3.8	6.0	2.3	3.7			1.9	2.7*	
−1.5	Blade	–	8.0	10.7*	4.2	6.7*	2.6	4.7*			2.1	2.7*	6.9
	Outriggers	Blade	10.7*	10.7*	6.4	6.7*	4.0	4.7*			2.7*	2.7*	
	–	–	6.7	10.7*	3.5	5.7					2.3	3.0*	
−3.0	Blade	–	7.7	10.7*	4.0	6.1*					2.6	3.0*	5.9
	Outriggers	Blade	10.7*	10.7*	6.1*	6.1*					3.0*	3.0*	

Stick 2.65 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–			2.8*	2.8*					1.8*	1.8*	
7.5	Blade	–			2.8*	2.8*					1.8*	1.8*	5.2
	Outriggers	Blade			2.8*	2.8*					1.8*	1.8*	
	–	–			3.4*	3.4*	2.6*	2.6*			1.6*	1.6*	
6.0	Blade	–			3.4*	3.4*	2.6*	2.6*			1.6*	1.6*	6.6
	Outriggers	Blade			3.4*	3.4*	2.6*	2.6*			1.6*	1.6*	
	–	–			4.0*	4.0*	2.8	3.5*			1.6*	1.6*	
4.5	Blade	–			4.0*	4.0*	3.1	3.5*			1.6*	1.6*	7.4
	Outriggers	Blade			4.0*	4.0*	3.6*	3.6*			1.6*	1.6*	
	–	–	7.5	8.1*	4.1	5.4*	2.7	4.0	1.8	2.4*	1.6*	1.6*	
3.0	Blade	–	8.1*	8.1*	4.6	5.4*	3.0	4.3*	2.0	2.4*	1.6*	1.6*	7.8
	Outriggers	Blade	8.1*	8.1*	5.4*	5.4*	4.2	4.3*	2.4*	2.4*	1.6*	1.6*	
	–	–	7.3	9.6*	4.1	5.9	2.7	4.0	1.7	2.7	1.6	1.7*	
1.5	Blade	–	8.1	9.6*	4.5	6.2*	3.0	4.6*	2.0	3.0*	1.7*	1.7*	7.9
	Outriggers	Blade	9.6*	9.6*	6.2*	6.2*	4.2	4.6*	2.9	3.0*	1.7*	1.7*	
	–	–	7.3	10.2*	4.0	5.9	2.5	3.9	1.7	2.7	1.6	2.0*	
0	Blade	–	8.1	10.2*	4.5	6.5*	2.8	4.7*	1.9	2.8*	1.8	2.0*	7.7
	Outriggers	Blade	10.2*	10.2*	6.3	6.5*	4.1	4.7*	2.8*	2.8*	2.0*	2.0*	
	–	–	7.0	10.6*	3.8	6.0	2.4	3.7			1.8	2.4*	
−1.5	Blade	–	8.0	10.6*	4.3	6.6*	2.7	4.7*			2.0	2.4*	7.1
	Outriggers	Blade	10.6*	10.6*	6.4	6.6*	4.0	4.7*			2.4*	2.4*	
	–	–	6.8	10.9*	3.5	5.7	2.3	3.4*			2.2	3.0*	
−3.0	Blade	–	7.8	10.9*	4.0	6.4*	2.6	3.4*			2.5	3.0*	6.2
	Outriggers	Blade	10.9*	10.9*	6.2	6.3*	3.4*	3.4*			3.0*	3.0*	

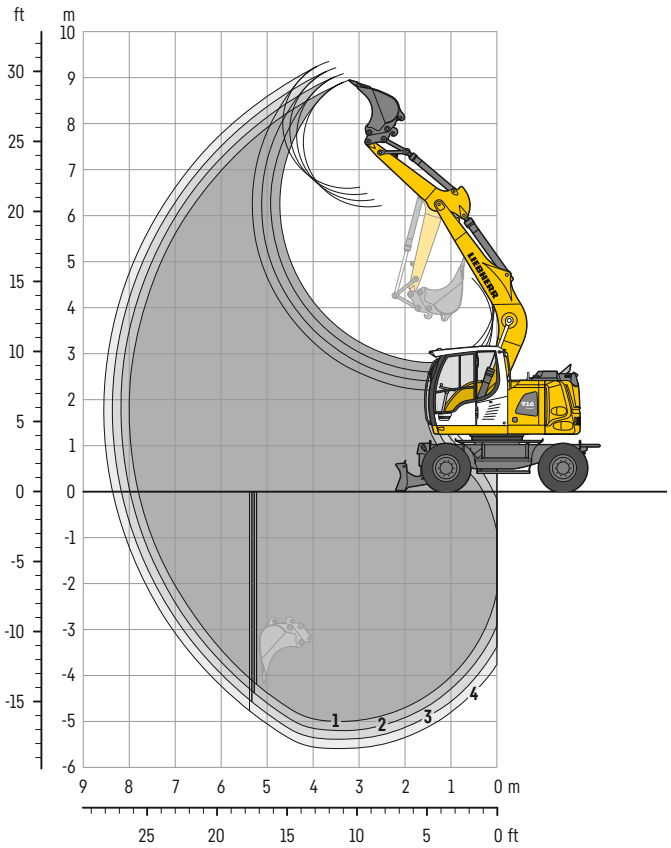
Height **Can be slewed through 360°** **In longitudinal position of undercarriage** **Max. reach** *** Limited by hydr. capacity**

The lift capacities on the load hook of the Liebherr quick coupler SWA 33 without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (± 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. The values apply when the adjusting cylinder is in the optimal position. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity, or are limited by the permissible load of the load hook on the quick coupler (max. 5 t). Without the quick coupler, lift capacities will increase by up to 110 kg.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

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
Max. digging depth	m	5.00	5.20	5.40	5.60
Max. reach at ground level	m	7.80	8.00	8.20	8.40
Max. dumping height	m	6.25	6.35	6.50	6.65
Max. teeth height	m	8.95	9.10	9.25	9.40
Min. equipment radius	m	1.86	1.88	1.90	1.92

Digging forces

without quick coupler		1	2	3	4
Max. digging force (ISO 6015)	kN	73.7	68.8	64.5	60.7
	t	7.5	7.0	6.6	6.2
Max. breakout force (ISO 6015)	kN	85.1	85.1	85.1	85.1
	t	8.7	8.7	8.7	8.7

Max. breakout force with ripper bucket 124.1 kN (12.6 t)

Operating weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, mono boom 4.60 m, stick 2.25 m, quick coupler SWA 33 and bucket 850 mm / 0.50 m³.

Undercarriage versions	Weight (kg)
A 916 Compact Litronic with rear blade	16,000
A 916 Compact Litronic with rear outriggers + front blade	17,000
A 916 Compact EW Litronic with rear blade	16,000
A 916 Compact EW Litronic with rear outriggers + front blade	17,100

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

Cutting width	Capacity ISO 7451[1]	Weight	Stabilizers raised				Rear blade down				Rear outriggers + front blade down				EW Stabilizers raised				EW Rear blade down				EW Rear outriggers + front blade down			
			Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)			
mm	m³	kg	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	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65
300[2]	0.17	220	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400[2]	0.24	250	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
500[2]	0.28	250	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
550[2]	0.29	260	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
650[2]	0.36	290	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
850[2]	0.50	340	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050[2]	0.65	380	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,250[2]	0.80	430	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
300[3]	0.18	210	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400[3]	0.26	240	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
500[3]	0.30	240	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
550[3]	0.31	250	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
650[3]	0.39	270	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
850[3]	0.53	320	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050[3]	0.71	370	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,250[3]	0.87	420	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

* Indicated loads are based on ISO 10567 and do not exceed 75 % of tipping or 87 % of hydraulic capacity, max. stick length without quick coupler, lifted 360° on firm with blocked oscillating axle

[1] comparable with SAE (heaped)

[2] Bucket with teeth (also available in HD version)

[3] Bucket with cutting edge (also available in HD version)

Buckets up to 500 mm cutting width with limited digging depth

Max. material weight ■ = ≤ 1.8 t/m³, ■ = ≤ 1.5 t/m³, △ = ≤ 1.2 t/m³, – = not authorised

Lift capacities

with mono boom 4.60 m

Stick 2.05 m

m	Undercarriage stabilized		3.0 m		4.5 m		6.0 m		7.5 m				m
	rear	front											
	–	–									2.2*	2.2*	
7.5	Blade	–									2.2*	2.2*	3.9
	Outriggers	Blade									2.2*	2.2*	
	–	–			3.6*	3.6*					2.1*	2.1*	
6.0	Blade	–			3.6*	3.6*					2.1*	2.1*	5.3
	Outriggers	Blade			3.6*	3.6*					2.1*	2.1*	
	–	–			3.8	4.1*	2.4	3.0*			2.1*	2.1*	
4.5	Blade	–			4.1*	4.1*	2.7	3.0*			2.1*	2.1*	6.3
	Outriggers	Blade			4.1*	4.1*	3.0*	3.0*			2.1*	2.1*	
	–	–	6.4	7.7*	3.5	5.1*	2.3	3.9			1.9	2.2*	
3.0	Blade	–	7.3	7.7*	4.0	5.1*	2.6	4.2*			2.1	2.2*	6.8
	Outriggers	Blade	7.7*	7.7*	5.1*	5.1*	4.0	4.2*			2.2*	2.2*	
	–	–	5.7	6.7*	3.3	5.8	2.2	3.8			1.8	2.5*	
1.5	Blade	–	6.5	6.7*	3.7	6.1*	2.5	4.6*			2.0	2.5*	6.9
	Outriggers	Blade	6.7*	6.7*	6.0	6.1*	3.9	4.6*			2.5*	2.5*	
	–	–	5.5	7.3*	3.1	5.6	2.1	3.7			1.8	3.0*	
0	Blade	–	6.3	7.3*	3.5	6.6*	2.4	4.8*			2.1	3.0*	6.7
	Outriggers	Blade	7.3*	7.3*	5.8	6.6*	3.8	4.8*			3.0*	3.0*	
	–	–	5.5	9.6*	3.1	5.6	2.1	3.7			2.1	3.7	
–1.5	Blade	–	6.3	9.6*	3.5	6.4*	2.4	4.5*			2.3	4.3*	6.0
	Outriggers	Blade	9.6*	9.6*	5.7	6.4*	3.8	4.5*			3.8	4.3*	
	–	–	5.6	7.7*	3.1	5.2*					2.8	4.7*	
–3.0	Blade	–	6.5	7.7*	3.5	5.2*					3.2	4.7*	4.8
	Outriggers	Blade	7.7*	7.7*	5.2*	5.2*					4.7*	4.7*	
	–	–											
–4.5	Blade	–											
	Outriggers	Blade											

Stick 2.25 m

m	Undercarriage stabilized		3.0 m		4.5 m		6.0 m		7.5 m				m
	rear	front											
	–	–									2.2*	2.2*	
7.5	Blade	–									2.2*	2.2*	3.9
	Outriggers	Blade									2.2*	2.2*	
	–	–			3.5*	3.5*					1.9*	1.9*	
6.0	Blade	–			3.5*	3.5*					1.9*	1.9*	5.6
	Outriggers	Blade			3.5*	3.5*					1.9*	1.9*	
	–	–			3.8	3.9*	2.4	3.2*			1.9*	1.9*	
4.5	Blade	–			3.9*	3.9*	2.7	3.2*			1.9*	1.9*	6.5
	Outriggers	Blade			3.9*	3.9*	3.2*	3.2*			1.9*	1.9*	
	–	–	6.5	7.2*	3.6	4.9*	2.3	3.9			1.8	2.0*	
3.0	Blade	–	7.2*	7.2*	4.0	4.9*	2.6	4.0*			2.0*	2.0*	7.0
	Outriggers	Blade	7.2*	7.2*	4.9*	4.9*	4.0	4.0*			2.0*	2.0*	
	–	–	5.7	7.6*	3.3	5.8	2.2	3.8			1.7	2.2*	
1.5	Blade	–	6.6	7.6*	3.7	6.0*	2.5	4.5*			1.9	2.2*	7.1
	Outriggers	Blade	7.6*	7.6*	6.0	6.0*	3.9	4.5*			2.2*	2.2*	
	–	–	5.5	7.3*	3.1	5.6	2.1	3.7			1.7	2.7*	
0	Blade	–	6.3	7.3*	3.5	6.6*	2.4	4.8*			2.0	2.7*	6.9
	Outriggers	Blade	7.3*	7.3*	5.8	6.6*	3.8	4.8*			2.7*	2.7*	
	–	–	5.5	9.8*	3.0	5.5	2.1	3.7			2.0	3.5	
–1.5	Blade	–	6.3	9.8*	3.4	6.5*	2.3	4.6*			2.2	3.7*	6.2
	Outriggers	Blade	9.8*	9.8*	5.7	6.5*	3.7	4.6*			3.5	3.7*	
	–	–	5.6	8.0*	3.1	5.4*					2.6	4.6*	
–3.0	Blade	–	6.4	8.0*	3.5	5.4*					2.9	4.6*	5.1
	Outriggers	Blade	8.0*	8.0*	5.4*	5.4*					4.6*	4.6*	
	–	–											
–4.5	Blade	–											
	Outriggers	Blade											

Stick 2.45 m

m	Undercarriage stabilized		3.0 m		4.5 m		6.0 m		7.5 m				m
	rear	front											
	–	–									2.0*	2.0*	
7.5	Blade	–									2.0*	2.0*	4.2
	Outriggers	Blade									2.0*	2.0*	
	–	–			3.2*	3.2*					1.7*	1.7*	
6.0	Blade	–			3.2*	3.2*					1.7*	1.7*	5.8
	Outriggers	Blade			3.2*	3.2*					1.7*	1.7*	
	–	–			3.7*	3.7*	2.4	3.2*			1.7*	1.7*	
4.5	Blade	–			3.7*	3.7*	2.7	3.2*			1.7*	1.7*	6.7
	Outriggers	Blade			3.7*	3.7*	3.2*	3.2*			1.7*	1.7*	
	–	–	6.6	6.7*	3.6	4.7*	2.3	3.9*			1.7	1.8*	
3.0	Blade	–	6.7*	6.7*	4.0	4.7*	2.6	3.9*			1.8*	1.8*	7.2
	Outriggers	Blade	6.7*	6.7*	4.7*	4.7*	3.9*	3.9*			1.8*	1.8*	
	–	–	5.8	8.8*	3.3	5.8*	2.2	3.8			1.6	2.0*	
1.5	Blade	–	6.6	8.8*	3.7	5.8*	2.5	4.4*			1.8	2.0*	7.3
	Outriggers	Blade	8.7*	8.7*	5.8*	5.8*	3.9	4.4*			2.0*	2.0*	
	–	–	5.4	7.4*	3.1	5.6	2.1	3.7			1.7	2.4*	
0	Blade	–	6.3	7.4*	3.5	6.5*	2.3	4.7*			1.9	2.4*	7.1
	Outriggers	Blade	7.4*	7.4*	5.8	6.5*	3.8	4.7*			2.4*	2.4*	
	–	–	5.4	9.5*	3.0	5.5	2.0	3.6			1.8	3.2*	
–1.5	Blade	–	6.2	9.5*	3.4	6.5*	2.3	4.6*			2.1	3.2*	6.5
	Outriggers	Blade	9.5*	9.5*	5.7	6.5*	3.7	4.6*			3.2*	3.2*	
	–	–	5.5	8.3*	3.0	5.5					2.4	4.3	
–3.0	Blade	–	6.3	8.3*	3.4	5.6*					2.7	4.4*	5.4
	Outriggers	Blade	8.3*	8.3*	5.6*	5.6*					4.4	4.4*	
	–	–											
–4.5	Blade	–											
	Outriggers	Blade											

Stick 2.65 m

m	Undercarriage stabilized		3.0 m		4.5 m		6.0 m		7.5 m				m
	rear	front											
	–	–			1.9*	1.9*					1.8*	1.8*	
7.5	Blade	–			1.9*	1.9*					1.8*	1.8*	4.6
	Outriggers	Blade			1.9*	1.9*					1.8*	1.8*	
	–	–			3.0*	3.0*	1.8*	1.8*			1.6*	1.6*	
6.0	Blade	–			3.0*	3.0*	1.8*	1.8*			1.6*	1.6*	6.1
	Outriggers	Blade			3.0*	3.0*	1.8*	1.8*			1.6*	1.6*	
	–	–			3.4*	3.4*	2.4	3.1*			1.6*	1.6*	
4.5	Blade	–			3.4*	3.4*	2.7	3.1*			1.6*	1.6*	6.9
	Outriggers	Blade			3.4*	3.4*	3.1*	3.1*			1.6*	1.6*	
	–	–	6.2*	6.2*	3.6	4.5*	2.3	3.8*			1.6*	1.6*	
3.0	Blade	–	6.2*	6.2*	4.0	4.5*	2.6	3.8*			1.6*	1.6*	7.4
	Outriggers	Blade	6.2*	6.2*	4.5*	4.5*	3.8*	3.8*			1.6*	1.6*	
	–	–	5.8	9.4*	3.3	5.7*	2.2	3.8			1.6	1.8*	
1.5	Blade	–	6.7	9.4*	3.7	5.7*	2.4	4.3*			1.8	1.8*	7.5
	Outriggers	Blade	9.4*	9.4*	5.7*	5.7*	3.9	4.3*			1.8*	1.8*	
	–	–	5.4	7.5*	3.1	5.6	2.1	3.7			1.6	2.1*	
0	Blade	–	6.3	7.5*	3.5	6.4*	2.3	4.7*			1.8	2.1*	7.3
	Outriggers	Blade	7.5*	7.5*	5.7	6.4*	3.8	4.7*			2.1*	2.1*	
	–	–	5.4	9.2*	3.0	5.5	2.0	3.6			1.7	2.8*	
–1.5	Blade	–	6.2	9.2*	3.4	6.5*	2.3	4.7*			2.0	2.8*	6.7
	Outriggers	Blade	9.2*	9.2*	5.6	6.5*	3.7	4.7*			2.8*	2.8*	
	–	–	5.4	8.6*	3.0	5.5					2.2	4.0	
–3.0	Blade	–	6.3	8.6*	3.4	5.7*					2.5	4.3*	5.6
	Outriggers	Blade	8.6*	8.6*	5.7	5.7*					4.1	4.3*	
	–	–	5.5*	5.5*							4.1	4.4*	
–4.5	Blade	–	5.5*	5.5*							4.4*	4.4*	3.7
	Outriggers	Blade	5.5*	5.5*							4.4*	4.4*	

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

The lift capacities on the load hook of the Liebherr quick coupler SWA 33 without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (± 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity, or are limited by the permissible load of the load hook on the quick coupler (max. 5 t). Without the quick coupler, lift capacities will increase by up to 110 kg.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

Lift capacities

with mono boom 4.60 m, EW undercarriage

Stick 2.05 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–									2.2*	2.2*	
7.5	Blade	–									2.2*	2.2*	3.9
	Outriggers	Blade									2.2*	2.2*	
	–	–			3.6*	3.6*					1.9*	1.9*	
6.0	Blade	–			3.6*	3.6*					1.9*	1.9*	5.6
	Outriggers	Blade			3.6*	3.6*					1.9*	1.9*	
	–	–			3.9*	3.9*	2.7	3.2*			1.9*	1.9*	
4.5	Blade	–			3.9*	3.9*	3.0	3.2*			1.9*	1.9*	6.5
	Outriggers	Blade			3.9*	3.9*	3.2*	3.2*			1.9*	1.9*	
	–	–	7.2*	7.2*	4.0	4.9*	2.6	4.0			2.0*	2.0*	
3.0	Blade	–	7.2*	7.2*	4.4	4.9*	2.9	4.0*			2.0*	2.0*	7.0
	Outriggers	Blade	7.2*	7.2*	4.9*	4.9*	4.0*	4.0*			2.0*	2.0*	
	–	–	6.5	7.6*	3.7	5.9	2.4	3.8			1.9	2.2*	
1.5	Blade	–	7.5	7.6*	4.1	6.0*	2.7	4.5*			2.2	2.2*	7.1
	Outriggers	Blade	7.6*	7.6*	6.0*	6.0*	4.1	4.5*			2.2*	2.2*	
	–	–	6.3	7.3*	3.5	5.7	2.3	3.7			2.0	2.7*	
0	Blade	–	7.2	7.3*	3.9	6.6*	2.6	4.8*			2.2	2.7*	6.9
	Outriggers	Blade	7.3*	7.3*	6.1	6.6*	4.0	4.8*			2.7*	2.7*	
	–	–	6.2	9.8*	3.4	5.6	2.3	3.7			2.2	3.5	
–1.5	Blade	–	7.2	9.8*	3.9	6.5*	2.6	4.6*			2.5	3.7*	6.2
	Outriggers	Blade	9.8*	9.8*	6.0	6.5*	3.9	4.6*			3.7*	3.7*	
	–	–	6.4	8.0*	3.5	5.4*					2.9	4.6*	
–3.0	Blade	–	7.3	8.0*	3.9	5.4*					3.3	4.6*	5.1
	Outriggers	Blade	8.0*	8.0*	5.4*	5.4*					4.6*	4.6*	
	–	–											
–4.5	Blade	–											
	Outriggers	Blade											

Stick 2.25 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–									2.2*	2.2*	
7.5	Blade	–									2.2*	2.2*	3.9
	Outriggers	Blade									2.2*	2.2*	
	–	–			3.5*	3.5*					1.9*	1.9*	
6.0	Blade	–			3.5*	3.5*					1.9*	1.9*	5.6
	Outriggers	Blade			3.5*	3.5*					1.9*	1.9*	
	–	–			3.9*	3.9*	2.7	3.2*			1.9*	1.9*	
4.5	Blade	–			3.9*	3.9*	3.0	3.2*			1.9*	1.9*	6.5
	Outriggers	Blade			3.9*	3.9*	3.2*	3.2*			1.9*	1.9*	
	–	–	7.2*	7.2*	4.0	4.9*	2.6	4.0			2.0*	2.0*	
3.0	Blade	–	7.2*	7.2*	4.4	4.9*	2.9	4.0*			2.0*	2.0*	7.0
	Outriggers	Blade	7.2*	7.2*	4.9*	4.9*	4.0*	4.0*			2.0*	2.0*	
	–	–	6.5	7.6*	3.7	5.9	2.4	3.8			1.9	2.2*	
1.5	Blade	–	7.5	7.6*	4.1	6.0*	2.7	4.5*			2.2	2.2*	7.1
	Outriggers	Blade	7.6*	7.6*	6.0*	6.0*	4.1	4.5*			2.2*	2.2*	
	–	–	6.3	7.3*	3.5	5.7	2.3	3.7			2.0	2.7*	
0	Blade	–	7.2	7.3*	3.9	6.6*	2.6	4.8*			2.2	2.7*	6.9
	Outriggers	Blade	7.3*	7.3*	6.1	6.6*	4.0	4.8*			2.7*	2.7*	
	–	–	6.2	9.8*	3.4	5.6	2.3	3.7			2.2	3.5	
–1.5	Blade	–	7.2	9.8*	3.9	6.5*	2.6	4.6*			2.5	3.7*	6.2
	Outriggers	Blade	9.8*	9.8*	6.0	6.5*	3.9	4.6*			3.7*	3.7*	
	–	–	6.4	8.0*	3.5	5.4*					2.9	4.6*	
–3.0	Blade	–	7.3	8.0*	3.9	5.4*					3.3	4.6*	5.1
	Outriggers	Blade	8.0*	8.0*	5.4*	5.4*					4.6*	4.6*	
	–	–											
–4.5	Blade	–											
	Outriggers	Blade											

Stick 2.45 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–									2.0*	2.0*	
7.5	Blade	–									2.0*	2.0*	4.2
	Outriggers	Blade									2.0*	2.0*	
	–	–			3.2*	3.2*					1.7*	1.7*	
6.0	Blade	–			3.2*	3.2*					1.7*	1.7*	5.8
	Outriggers	Blade			3.2*	3.2*					1.7*	1.7*	
	–	–			3.7*	3.7*	2.7	3.2*			1.7*	1.7*	
4.5	Blade	–			3.7*	3.7*	3.0	3.2*			1.7*	1.7*	6.7
	Outriggers	Blade			3.7*	3.7*	3.2*	3.2*			1.7*	1.7*	
	–	–	6.7*	6.7*	4.0	4.7*	2.6	3.9*			1.8*	1.8*	
3.0	Blade	–	6.7*	6.7*	4.4	4.7*	2.9	3.9*			1.8*	1.8*	7.2
	Outriggers	Blade	6.7*	6.7*	4.7*	4.7*	3.9*	3.9*			1.8*	1.8*	
	–	–	6.6	8.8*	3.7	5.8*	2.4	3.8			1.8	2.0*	
1.5	Blade	–	7.6	8.8*	4.1	5.8*	2.7	4.4*			2.0*	2.0*	7.3
	Outriggers	Blade	8.7*	8.7*	5.8*	5.8*	4.1	4.4*			2.0*	2.0*	
	–	–	6.2	7.4*	3.5	5.6	2.3	3.7			1.9	2.4*	
0	Blade	–	7.2	7.4*	3.9	6.5*	2.6	4.7*			2.1	2.4*	7.1
	Outriggers	Blade	7.4*	7.4*	6.1	6.5*	4.0	4.7*			2.4*	2.4*	
	–	–	6.2	9.5*	3.4	5.6	2.3	3.6			2.1	3.2*	
–1.5	Blade	–	7.1	9.5*	3.8	6.5*	2.6	4.6*			2.3	3.2*	6.5
	Outriggers	Blade	9.5*	9.5*	6.0	6.5*	3.9	4.6*			3.2*	3.2*	
	–	–	6.3	8.3*	3.4	5.6					2.7	4.3	
–3.0	Blade	–	7.3	8.3*	3.9	5.6*					3.0	4.4*	5.4
	Outriggers	Blade	8.3*	8.3*	5.6*	5.6*					4.4*	4.4*	
	–	–											
–4.5	Blade	–											
	Outriggers	Blade											

Stick 2.65 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–			1.9*	1.9*					1.8*	1.8*	
7.5	Blade	–			1.9*	1.9*					1.8*	1.8*	4.6
	Outriggers	Blade			1.9*	1.9*					1.8*	1.8*	
	–	–			3.0*	3.0*	1.8*	1.8*			1.6*	1.6*	
6.0	Blade	–			3.0*	3.0*	1.8*	1.8*			1.6*	1.6*	6.1
	Outriggers	Blade			3.0*	3.0*	1.8*	1.8*			1.6*	1.6*	
	–	–			3.4*	3.4*	2.7	3.1*			1.6*	1.6*	
4.5	Blade	–			3.4*	3.4*	3.0	3.1*			1.6*	1.6*	6.9
	Outriggers	Blade			3.4*	3.4*	3.1*	3.1*			1.6*	1.6*	
	–	–	6.2*	6.2*	4.0	4.5*	2.6	3.8*			1.6*	1.6*	
3.0	Blade	–	6.2*	6.2*	4.5*	4.5*	2.9	3.8*			1.6*	1.6*	7.4
	Outriggers	Blade	6.2*	6.2*	4.5*	4.5*	3.8*	3.8*			1.6*	1.6*	
	–	–	6.6	9.4*	3.7	5.7*	2.4	3.8			1.7	1.8*	
1.5	Blade	–	7.6	9.4*	4.1	5.7*	2.7	4.3*			1.8*	1.8*	7.5
	Outriggers	Blade	9.4*	9.4*	5.7*	5.7*	4.1	4.3*			1.8*	1.8*	
	–	–	6.2	7.5*	3.5	5.6	2.3	3.7			1.8	2.1*	
0	Blade	–	7.2	7.5*	3.9	6.4*	2.6	4.7*			2.0	2.1*	7.3
	Outriggers	Blade	7.5*	7.5*	6.1	6.4*	4.0	4.7*			2.1*	2.1*	
	–	–	6.1	9.2*	3.4	5.5	2.3	3.6			2.0	2.8*	
–1.5	Blade	–	7.1	9.2*	3.8	6.5*	2.6	4.7*			2.2	2.8*	6.7
	Outriggers	Blade	9.2*	9.2*	6.0	6.5*	3.9	4.7*			2.8*	2.8*	
	–	–	6.2	8.6*	3.4	5.5					2.5	4.0	
–3.0	Blade	–	7.2	8.6*	3.8	5.7*					2.8	4.3*	5.6
	Outriggers	Blade	8.6*	8.6*	5.7*	5.7*					4.3	4.3*	
	–	–	5.5*	5.5*							4.4*	4.4*	
–4.5	Blade	–	5.5*	5.5*							4.4*	4.4*	3.7
	Outriggers	Blade	5.5*	5.5*							4.4*	4.4*	

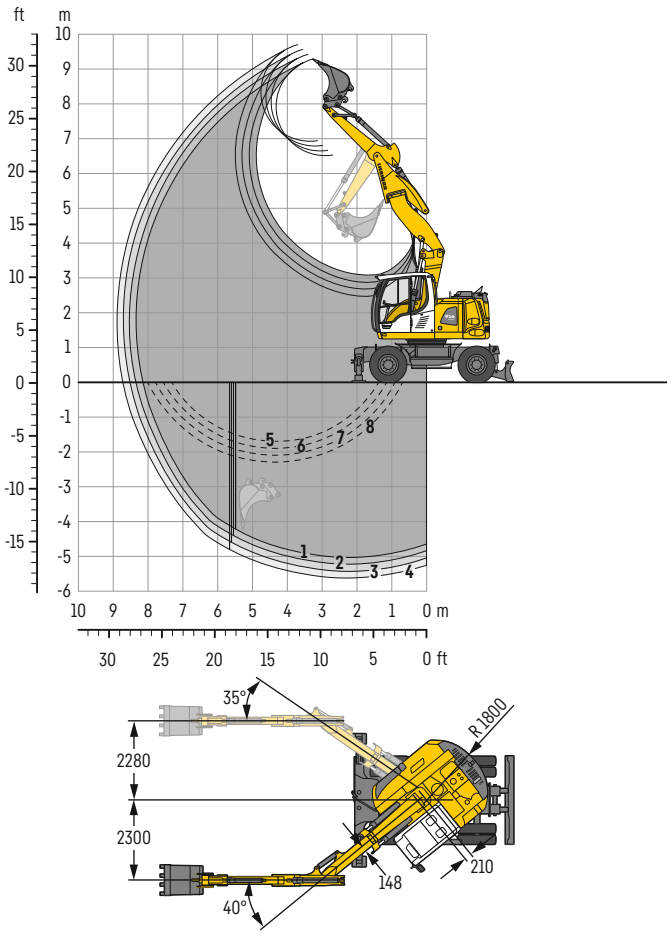
Height **Can be slewed through 360°** **In longitudinal position of undercarriage** **Max. reach** *** Limited by hydr. capacity**

The lift capacities on the load hook of the Liebherr quick coupler SWA 33 without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (± 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity, or are limited by the permissible load of the load hook on the quick coupler (max. 5 t). Without the quick coupler, lift capacities will increase by up to 110 kg.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

Backhoe bucket

with offset two-piece boom 4.90 m



Digging envelope

with quick coupler		1	2	3	4
Stick length	m	2.05	2.25	2.45	2.65
Max. digging depth	m	5.00	5.20	5.40	5.60
Max. reach at ground level	m	8.15	8.35	8.55	8.75
Max. dumping height	m	6.55	6.70	6.80	6.95
Max. teeth height	m	9.30	9.45	9.60	9.70
Min. equipment radius	m	2.12	2.15	2.18	2.21

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

Digging forces

without quick coupler		1	2	3	4
Max. digging force (ISO 6015)	kN	73.7	68.8	64.5	60.7
	t	7.5	7.0	6.6	6.2
Max. breakout force (ISO 6015)	kN	85.1	85.1	85.1	85.1
	t	8.7	8.7	8.7	8.7

Max. breakout force with ripper bucket 124.1 kN (12.6 t)

Operating weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, offset two-piece boom 4.90 m, stick 2.25 m, quick coupler SWA 33 and bucket 850 mm / 0.50 m³.

Undercarriage versions	Weight (kg)
A 916 Compact Litronic with rear blade	16,800
A 916 Compact Litronic with rear outriggers + front blade	17,900
A 916 Compact EW Litronic with rear blade	16,900
A 916 Compact EW Litronic with rear outriggers + front blade	17,900

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

Cutting width	Capacity ISO 7451[1]	Weight	Stabilizers raised				Rear blade down				Rear outriggers + front blade down				EW Stabilizers raised				EW Rear blade down				EW Rear outriggers + front blade down			
			Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)			
mm	m³	kg	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	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65
500[2]	0.28	250	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
550[2]	0.29	260	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
650[2]	0.36	290	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
850[2]	0.50	340	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050[2]	0.65	380	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,250[2]	0.80	430	■	△	△	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
500[3]	0.30	240	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
550[3]	0.31	250	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
650[3]	0.39	270	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
850[3]	0.53	320	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050[3]	0.71	370	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,250[3]	0.87	420	△	△	△	△	■	■	■	△	■	■	■	■	■	■	■	△	■	■	■	■	■	■	■	■

* Indicated loads are based on ISO 10567 and do not exceed 75 % of tipping or 87 % of hydraulic capacity, max. stick length without quick coupler, lifted 360° on firm with blocked oscillating axle
[1] comparable with SAE (heaped)
[2] Bucket with teeth (also available in HD version)
[3] Bucket with cutting edge (also available in HD version)
Buckets with 500 mm cutting width with limited digging depth

Max. material weight ■ = ≤ 1.8 t/m³, ■ = ≤ 1.5 t/m³, △ = ≤ 1.2 t/m³, – = not authorised

Lift capacities

with offset two-piece boom 4.90 m

Stick 2.05 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–									2.3*	2.3*	
7.5	Blade	–									2.3*	2.3*	4.2
	Outriggers	Blade									2.3*	2.3*	
	–	–			3.9	4.1*					2.0*	2.0*	
6.0	Blade	–			4.1*	4.1*					2.0*	2.0*	5.8
	Outriggers	Blade			4.1*	4.1*					2.0*	2.0*	
	–	–	6.3*	6.3*	3.9	4.7*	2.4	3.9*			1.9	2.0*	
4.5	Blade	–	6.3*	6.3*	4.2	4.7*	2.6	3.9*			2.0*	2.0*	6.7
	Outriggers	Blade	6.3*	6.3*	4.7*	4.7*	3.9*	3.9*			2.0*	2.0*	
	–	–	6.6	8.8*	3.7	5.5*	2.3	3.9			1.6	2.1*	
3.0	Blade	–	7.3	8.8*	4.1	5.5*	2.6	4.2*			1.8	2.1*	7.2
	Outriggers	Blade	8.8*	8.8*	5.5*	5.5*	4.0	4.2*			2.1*	2.1*	
	–	–	6.4	9.4*	3.7	5.7	2.2	3.8			1.5	2.3*	
1.5	Blade	–	7.1*	9.4*	4.1	6.1*	2.5	4.5*			1.7	2.3*	7.3
	Outriggers	Blade	9.4*	9.4*	5.8	6.1*	3.9	4.5*			2.3*	2.3*	
	–	–	6.4	10.1*	3.5	5.8	2.0	3.7			1.5	2.8	
0	Blade	–	7.3	10.1*	3.9	6.3*	2.3	4.5*			1.7	2.8*	7.0
	Outriggers	Blade	10.1*	10.1*	5.9	6.3*	3.8	4.5*			2.8*	2.8*	
	–	–	5.9	10.3*	3.1	5.7	1.9	3.5			1.6	3.1	
-1.5	Blade	–	6.8	10.3*	3.5	6.5*	2.1	4.2*			1.9	3.5*	6.4
	Outriggers	Blade	10.3*	10.3*	5.9	6.5*	3.6	4.2*			3.2	3.5*	
	–	–	5.5	9.7*	2.9	5.1*					2.2	3.1*	
-3.0	Blade	–	6.4	9.7*	3.3	5.1*					2.5	3.1*	5.3
	Outriggers	Blade	9.6*	9.6*	5.1*	5.1*					3.1*	3.1*	
	–	–											
-4.5	Blade	–											
	Outriggers	Blade											

Stick 2.25 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–			2.2*	2.2*					2.1*	2.1*	
7.5	Blade	–			2.2*	2.2*					2.1*	2.1*	4.5
	Outriggers	Blade			2.2*	2.2*					2.1*	2.1*	
	–	–			3.8*	3.8*	2.0*	2.0*			1.9*	1.9*	
6.0	Blade	–			3.8*	3.8*	2.0*	2.0*			1.9*	1.9*	6.0
	Outriggers	Blade			3.8*	3.8*	2.0*	2.0*			1.9*	1.9*	
	–	–			3.9	4.6*	2.4	3.8*			1.8	1.8*	
4.5	Blade	–			4.2	4.6*	2.7	3.8*			1.8*	1.8*	6.9
	Outriggers	Blade			4.6*	4.6*	3.8*	3.8*			1.8*	1.8*	
	–	–	6.6	8.4*	3.7	5.4*	2.4	3.9			1.5	1.9*	
3.0	Blade	–	7.3	8.4*	4.1	5.4*	2.6	4.2*			1.7	1.9*	7.3
	Outriggers	Blade	8.4*	8.4*	5.4*	5.4*	4.0	4.2*			1.9*	1.9*	
	–	–	6.4	9.3*	3.7	5.7	2.3	3.9			1.4	2.1*	
1.5	Blade	–	7.1	9.3*	4.0	6.0*	2.5	4.4*			1.6	2.1*	7.5
	Outriggers	Blade	9.3*	9.3*	5.8	6.0*	4.0	4.4*			2.1*	2.1*	
	–	–	6.4	10.0*	3.5	5.8	2.1	3.7			1.4	2.5*	
0	Blade	–	7.2	10.0*	4.0	6.2*	2.3	4.5*			1.6	2.5*	7.2
	Outriggers	Blade	10.0*	10.0*	5.9	6.2*	3.8	4.5*			2.5*	2.5*	
	–	–	6.0	10.3*	3.1	5.8	1.9	3.5			1.6	3.0	
-1.5	Blade	–	6.8	10.3*	3.6	6.4*	2.2	4.4*			1.8	3.3*	6.7
	Outriggers	Blade	10.3*	10.3*	5.9	6.4*	3.6	4.4*			3.0	3.3*	
	–	–	5.5	10.1*	2.9	5.5					2.0	3.1*	
-3.0	Blade	–	6.4	10.1*	3.3	5.5*					2.3	3.1*	5.6
	Outriggers	Blade	10.1*	10.1*	5.5*	5.5*					3.1*	3.1*	
	–	–											
-4.5	Blade	–											
	Outriggers	Blade											

Stick 2.45 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–			2.5*	2.5*					1.9*	1.9*	
7.5	Blade	–			2.5*	2.5*					1.9*	1.9*	4.8
	Outriggers	Blade			2.5*	2.5*					1.9*	1.9*	
	–	–			3.6*	3.6*	2.3*	2.3*			1.7*	1.7*	
6.0	Blade	–			3.6*	3.6*	2.3*	2.3*			1.7*	1.7*	6.3
	Outriggers	Blade			3.6*	3.6*	2.3*	2.3*			1.7*	1.7*	
	–	–			3.9	4.4*	2.4	3.7*			1.7*	1.7*	
4.5	Blade	–			4.2	4.4*	2.7	3.7*			1.7*	1.7*	7.1
	Outriggers	Blade			4.4*	4.4*	3.7*	3.7*			1.7*	1.7*	
	–	–	6.6	8.0*	3.7	5.2*	2.4	3.9	1.5	1.9*	1.4	1.7*	
3.0	Blade	–	7.3	8.0*	4.1	5.2*	2.7	4.1*	1.7	1.9*	1.6	1.7*	7.5
	Outriggers	Blade	8.0*	8.0*	5.2*	5.2*	4.0	4.1*	1.9*	1.9*	1.7*	1.7*	
	–	–	6.4	9.2*	3.6	5.7	2.3	3.8	1.4	2.5*	1.3	1.9*	
1.5	Blade	–	7.1	9.2*	4.0	5.9*	2.6	4.4*	1.6	2.5*	1.5	1.9*	7.6
	Outriggers	Blade	9.2*	9.2*	5.8	5.9*	3.9	4.4*	2.5*	2.5*	1.9*	1.9*	
	–	–	6.4	9.8*	3.5	5.7	2.1	3.7			1.3	2.2*	
0	Blade	–	7.1	9.8*	4.0	6.2*	2.4	4.4*			1.5	2.2*	7.4
	Outriggers	Blade	9.8*	9.8*	5.8	6.2*	3.8	4.4*			2.2*	2.2*	
	–	–	6.0	10.2*	3.2	5.8	1.9	3.5			1.5	2.8	
-1.5	Blade	–	6.8	10.2*	3.6	6.3*	2.2	4.5*			1.7	2.8*	6.9
	Outriggers	Blade	10.2*	10.2*	6.0	6.3*	3.6	4.4*			2.8*	2.8*	
	–	–	5.6	10.4*	2.9	5.5					1.9	3.0*	
-3.0	Blade	–	6.4	10.4*	3.3	5.9*					2.1	3.0*	5.9
	Outriggers	Blade	10.4*	10.4*	5.6	5.9*					3.0*	3.0*	
	–	–											
-4.5	Blade	–											
	Outriggers	Blade											

Stick 2.65 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–			2.6*	2.6*					1.7*	1.7*	
7.5	Blade	–			2.6*	2.6*					1.7*	1.7*	5.1
	Outriggers	Blade			2.6*	2.6*					1.7*	1.7*	
	–	–					2.4	2.5*			1.5*	1.5*	
6.0	Blade	–					2.5*	2.5*			1.5*	1.5*	6.5
	Outriggers	Blade					2.5*	2.5*			1.5*	1.5*	
	–	–			3.9	4.1*	2.5	3.5*			1.5*	1.5*	
4.5	Blade	–			4.1*	4.1*	2.7	3.5*			1.5*	1.5*	7.3
	Outriggers	Blade			4.1*	4.1*	3.5*	3.5*			1.5*	1.5*	
	–	–	6.6	7.6*	3.7	5.0*	2.4	3.9	1.5	2.3*	1.4	1.6*	
3.0	Blade	–	7.3	7.6*	4.1	5.0*	2.7	4.0*	1.7	2.3*	1.6	1.6*	7.7
	Outriggers	Blade	7.6*	7.6*	5.1*	5.1*	3.9	4.0*	2.3*	2.3*	1.6*	1.6*	
	–	–	6.4	9.1*	3.6	5.7	2.3	3.8	1.4	2.6	1.3	1.7*	
1.5	Blade	–	7.1	9.1*	4.0	5.8*	2.6	4.3*	1.6	2.9*	1.5	1.7*	7.8
	Outriggers	Blade	9.1*	9.1*	5.8	5.8*	3.9	4.3*	2.6	2.9*	1.7*	1.7*	
	–	–	6.4	9.7*	3.6	5.7	2.1	3.7	1.3	2.5	1.3	2.0*	
0	Blade	–	7.1	9.7*	4.0	6.1*	2.4	4.4*	1.5	2.6*	1.5	2.0*	7.6
	Outriggers	Blade	9.7*	9.7*	5.8	6.1*	3.8	4.4*	2.6	2.6*	2.0*	2.0*	
	–	–	6.0	10.1*	3.3	5.9	1.9	3.5			1.4	2.5*	
-1.5	Blade	–	6.8	10.1*	3.7	6.2*	2.2	4.5*			1.6	2.5*	7.1
	Outriggers	Blade	10.1*	10.1*	6.0	6.2*	3.6	4.5*			2.5*	2.5*	
	–	–	5.6	10.5*	2.9	5.5	1.8	3.2*			1.7	3.0*	
-3.0	Blade	–	6.5	10.5*	3.3	6.1*	2.0	3.2*			2.0	3.0*	6.1
	Outriggers	Blade	10.5*	10.5*	5.6	6.1*	3.2*	3.2*			3.0*	3.0*	
	–	–									5.7	6.1*	
-4.5	Blade	–									6.1*	6.1*	2.9
	Outriggers	Blade									6.2*	6.2*	

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

The lift capacities on the load hook of the Liebherr quick coupler SWA 33 without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (± 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. The values apply when the adjusting cylinder is in the optimal position. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity, or are limited by the permissible load of the load hook on the quick coupler (max. 5 t). Without the quick coupler, lift capacities will increase by up to 110 kg.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

Lift capacities

with offset two-piece boom 4.90 m, EW undercarriage

Stick 2.05 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–									2.3*	2.3*	
7.5	Blade	–									2.3*	2.3*	4.2
	Outriggers	Blade									2.3*	2.3*	
	–	–			4.1*	4.1*					2.0*	2.0*	
6.0	Blade	–			4.1*	4.1*					2.0*	2.0*	5.8
	Outriggers	Blade			4.1*	4.1*					2.0*	2.0*	
	–	–	6.3*	6.3*	4.2	4.7*	2.6	3.9*			2.0*	2.0*	
4.5	Blade	–	6.3*	6.3*	4.6	4.7*	2.9	3.9*			2.0*	2.0*	6.7
	Outriggers	Blade	6.3*	6.3*	4.7*	4.7*	3.9*	3.9*			2.0*	2.0*	
	–	–	7.3	8.8*	4.1	5.5*	2.6	3.9			1.8	2.1*	
3.0	Blade	–	8.0*	8.8*	4.5	5.5*	2.9	4.2*			2.0	2.1*	7.2
	Outriggers	Blade	8.8*	8.8*	5.5*	5.5*	4.1	4.2*			2.1*	2.1*	
	–	–	7.1	9.4*	4.0	5.8	2.5	3.9			1.7	2.3*	
1.5	Blade	–	7.9	9.4*	4.4	6.1*	2.8	4.5*			1.9	2.3*	7.3
	Outriggers	Blade	9.4*	9.4*	6.1	6.1*	4.1	4.5*			2.3*	2.3*	
	–	–	7.2	10.1*	3.9	5.8	2.3	3.7			1.7	2.8	
0	Blade	–	8.0	10.1*	4.4	6.3*	2.6	4.5*			1.9	2.8*	7.0
	Outriggers	Blade	10.1*	10.1*	6.1	6.3*	4.0	4.5*			2.8*	2.8*	
	–	–	6.8	10.3*	3.5	5.8	2.1	3.5			1.9	3.1	
–1.5	Blade	–	7.8	10.3*	4.0	6.5*	2.4	4.2*			2.2	3.5*	6.4
	Outriggers	Blade	10.3*	10.3*	6.2	6.5*	3.8	4.2*			3.4	3.5*	
	–	–	6.3	9.7*	3.3	5.1*					2.5	3.1*	
–3.0	Blade	–	7.3	9.7*	3.7	5.1*					2.8	3.1*	5.3
	Outriggers	Blade	9.6*	9.6*	5.1*	5.1*					3.1*	3.1*	
	–	–											
–4.5	Blade	–											
	Outriggers	Blade											

Stick 2.25 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–			2.2*	2.2*					2.1*	2.1*	
7.5	Blade	–			2.2*	2.2*					2.1*	2.1*	4.5
	Outriggers	Blade			2.2*	2.2*					2.1*	2.1*	
	–	–			3.8*	3.8*	2.0*	2.0*			1.9*	1.9*	
6.0	Blade	–			3.8*	3.8*	2.0*	2.0*			1.9*	1.9*	6.0
	Outriggers	Blade			3.8*	3.8*	2.0*	2.0*			1.9*	1.9*	
	–	–			4.2	4.6*	2.7	3.8*			1.8*	1.8*	
4.5	Blade	–			4.6*	4.6*	3.0	3.8*			1.8*	1.8*	6.9
	Outriggers	Blade			4.6*	4.6*	3.8*	3.8*			1.8*	1.8*	
	–	–	7.3	8.4*	4.1	5.4*	2.6	3.9			1.7	1.9*	
3.0	Blade	–	8.1	8.4*	4.5	5.4*	2.9	4.2*			1.9*	1.9*	7.3
	Outriggers	Blade	8.4*	8.4*	5.4*	5.4*	4.1	4.2*			1.9*	1.9*	
	–	–	7.1	9.3*	4.0	5.7	2.5	3.9			1.6	2.1*	
1.5	Blade	–	7.9	9.3*	4.4	6.0*	2.8	4.4*			1.8	2.1*	7.5
	Outriggers	Blade	9.3*	9.3*	6.0	6.0*	4.1	4.4*			2.1*	2.1*	
	–	–	7.2	10.0*	3.9	5.8	2.3	3.7			1.6	2.5*	
0	Blade	–	8.0	10.0*	4.4	6.2*	2.6	4.5*			1.8	2.5*	7.2
	Outriggers	Blade	10.0*	10.0*	6.1	6.2*	4.0	4.5*			2.5*	2.5*	
	–	–	6.8	10.3*	3.5	5.8	2.1	3.5			1.8	3.0	
–1.5	Blade	–	7.8	10.3*	4.0	6.4*	2.4	4.4*			2.0	3.3*	6.7
	Outriggers	Blade	10.3*	10.3*	6.3	6.4*	3.8	4.4*			3.2	3.3*	
	–	–	6.3	10.1*	3.3	5.5					2.3	3.1*	
–3.0	Blade	–	7.3	10.1*	3.7	5.5*					2.6	3.1*	5.6
	Outriggers	Blade	10.1*	10.1*	5.5*	5.5*					3.1*	3.1*	
	–	–											
–4.5	Blade	–											
	Outriggers	Blade											

Stick 2.45 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–			2.5*	2.5*					1.9*	1.9*	
7.5	Blade	–			2.5*	2.5*					1.9*	1.9*	4.8
	Outriggers	Blade			2.5*	2.5*					1.9*	1.9*	
	–	–			3.6*	3.6*	2.3*	2.3*			1.7*	1.7*	
6.0	Blade	–			3.6*	3.6*	2.3*	2.3*			1.7*	1.7*	6.3
	Outriggers	Blade			3.6*	3.6*	2.3*	2.3*			1.7*	1.7*	
	–	–			4.2	4.4*	2.7	3.7*			1.7*	1.7*	
4.5	Blade	–			4.4*	4.4*	3.0	3.7*			1.7*	1.7*	7.1
	Outriggers	Blade			4.4*	4.4*	3.7*	3.7*			1.7*	1.7*	
	–	–	7.3	8.0*	4.1	5.2*	2.7	3.9	1.6	1.9*	1.6	1.7*	
3.0	Blade	–	8.0*	8.0*	4.5	5.2*	3.0	4.1*	1.9	1.9*	1.7*	1.7*	7.5
	Outriggers	Blade	8.0*	8.0*	5.2*	5.2*	4.1*	4.1*	1.9*	1.9*	1.7*	1.7*	
	–	–	7.1	9.2*	4.0	5.7	2.5	3.9	1.6	2.5*	1.5	1.9*	
1.5	Blade	–	7.8	9.2*	4.4	5.9*	2.8	4.4*	1.8	2.5*	1.7	1.9*	7.6
	Outriggers	Blade	9.2*	9.2*	5.9*	5.9*	4.1	4.4*	2.5*	2.5*	1.9*	1.9*	
	–	–	7.1	9.8*	4.0	5.7	2.4	3.7			1.5	2.2*	
0	Blade	–	7.9	9.8*	4.4	6.2*	2.7	4.4*			1.7	2.2*	7.4
	Outriggers	Blade	9.8*	9.8*	6.0	6.2*	4.0	4.4*			2.2*	2.2*	
	–	–	6.8	10.2*	3.6	5.9	2.1	3.6			1.7	2.8	
–1.5	Blade	–	7.8	10.2*	4.1	6.3*	2.5	4.5*			1.9	2.8*	6.9
	Outriggers	Blade	10.2*	10.2*	6.2	6.3*	3.8	4.4*			2.8*	2.8*	
	–	–	6.4	10.4*	3.3	5.5					2.1	3.0*	
–3.0	Blade	–	7.4	10.4*	3.7	5.9*					2.4	3.0*	5.9
	Outriggers	Blade	10.4*	10.4*	5.9*	5.9*					3.0*	3.0*	
	–	–											
–4.5	Blade	–											
	Outriggers	Blade											

Stick 2.65 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–			2.6*	2.6*					1.7*	1.7*	
7.5	Blade	–			2.6*	2.6*					1.7*	1.7*	5.1
	Outriggers	Blade			2.6*	2.6*					1.7*	1.7*	
	–	–					2.5*	2.5*			1.5*	1.5*	
6.0	Blade	–					2.5*	2.5*			1.5*	1.5*	6.5
	Outriggers	Blade					2.5*	2.5*			1.5*	1.5*	
	–	–			4.1*	4.1*	2.7	3.5*			1.5*	1.5*	
4.5	Blade	–			4.1*	4.1*	3.0	3.5*			1.5*	1.5*	7.3
	Outriggers	Blade			4.1*	4.1*	3.5*	3.5*			1.5*	1.5*	
	–	–	7.3	7.6*	4.1	5.0*	2.7	3.9	1.7	2.3*	1.6	1.6*	
3.0	Blade	–	7.6*	7.6*	4.5	5.0*	3.0	4.0*	1.9	2.3*	1.6*	1.6*	7.7
	Outriggers	Blade	7.6*	7.6*	5.1*	5.1*	4.0*	4.0*	2.3*	2.3*	1.6*	1.6*	
	–	–	7.0	9.1*	4.0	5.7	2.6	3.8	1.6	2.6	1.4	1.7*	
1.5	Blade	–	7.8	9.1*	4.3	5.8*	2.9	4.3*	1.8	2.9*	1.7	1.7*	7.8
	Outriggers	Blade	9.1*	9.1*	5.8*	5.8*	4.0	4.3*	2.8	2.9*	1.7*	1.7*	
	–	–	7.1	9.7*	4.0	5.7	2.4	3.8	1.5	2.5	1.4	2.0*	
0	Blade	–	7.8	9.7*	4.4	6.1*	2.7	4.4*	1.7	2.6*	1.7	2.0*	7.6
	Outriggers	Blade	9.7*	9.7*	6.0	6.1*	4.0	4.4*	2.6*	2.6*	2.0*	2.0*	
	–	–	6.8	10.1*	3.7	5.9	2.2	3.6			1.6	2.5*	
–1.5	Blade	–	7.8	10.1*	4.1	6.2*	2.5	4.5*			1.8	2.5*	7.1
	Outriggers	Blade	10.1*	10.1*	6.2	6.2*	3.8	4.5*			2.5*	2.5*	
	–	–	6.4	10.5*	3.3	5.5	2.0	3.2*			2.0	3.0*	
–3.0	Blade	–	7.4	10.5*	3.7	6.1*	2.3	3.2*			2.3	3.0*	6.1
	Outriggers	Blade	10.5*	10.5*	6.0	6.1*	3.2*	3.2*			3.0*	3.0*	
	–	–									6.1*	6.1*	
–4.5	Blade	–									6.1*	6.1*	2.9
	Outriggers	Blade									6.2*	6.2*	

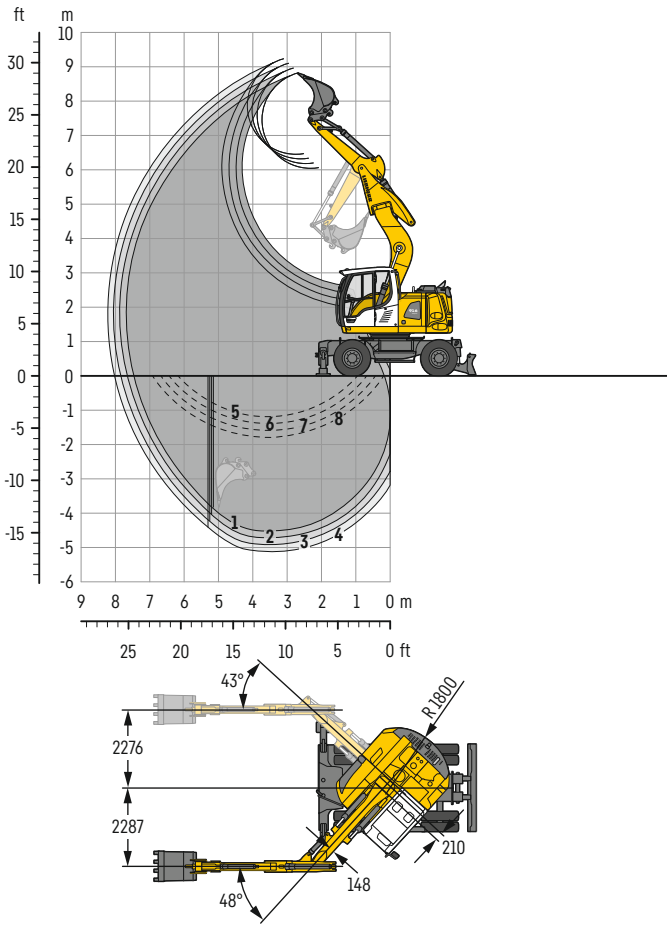
Height **Can be slewed through 360°** **In longitudinal position of undercarriage** **Max. reach** *** Limited by hydr. capacity**

The lift capacities on the load hook of the Liebherr quick coupler SWA 33 without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (± 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. The values apply when the adjusting cylinder is in the optimal position. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity, or are limited by the permissible load of the load hook on the quick coupler (max. 5 t). Without the quick coupler, lift capacities will increase by up to 110 kg.

In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

Backhoe bucket

with offset mono boom 4.30 m



Digging envelope

with quick coupler		1	2	3	4
Stick length	m	2.05	2.25	2.45	2.65
Max. digging depth	m	4.55	4.75	4.95	5.15
Max. reach at ground level	m	7.45	7.65	7.85	8.05
Max. dumping height	m	6.05	6.20	6.35	6.50
Max. teeth height	m	8.80	8.95	9.10	9.25
Min. equipment radius	m	1.51	1.53	1.56	1.59

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

Digging forces

without quick coupler		1	2	3	4
Max. digging force (ISO 6015)	kN	73.7	68.8	64.5	60.7
	t	7.5	7.0	6.6	6.2
Max. breakout force (ISO 6015)	kN	85.1	85.1	85.1	85.1
	t	8.7	8.7	8.7	8.7

Max. breakout force with ripper bucket 124.1 kN (12.6 t)

Operating weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, offset mono boom 4.30 m, stick 2.25 m, quick coupler SWA 33 and bucket 850 mm / 0.50 m³.

Undercarriage versions	Weight (kg)
A 916 Compact Litronic with rear blade	16,300
A 916 Compact Litronic with rear outriggers + front blade	17,300
A 916 Compact EW Litronic with rear blade	16,300
A 916 Compact EW Litronic with rear outriggers + front blade	17,400

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

Cutting width	Capacity ISO 7451[1]	Weight	Stabilizers raised				Rear blade down				Rear outriggers + front blade down				EW Stabilizers raised				EW Rear blade down				EW Rear outriggers + front blade down			
			Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)			
mm	m³	kg	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	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65
500[2]	0.28	250	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
550[2]	0.29	260	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
650[2]	0.36	290	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
850[2]	0.50	340	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050[2]	0.65	380	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,250[2]	0.80	430	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
500[3]	0.30	240	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
550[3]	0.31	250	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
650[3]	0.39	270	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
850[3]	0.53	320	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050[3]	0.71	370	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,250[3]	0.87	420	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

* Indicated loads are based on ISO 10567 and do not exceed 75 % of tipping or 87 % of hydraulic capacity, max. stick length without quick coupler, lifted 360° on firm with blocked oscillating axle
[1] comparable with SAE (heaped)
[2] Bucket with teeth (also available in HD version)
[3] Bucket with cutting edge (also available in HD version)
Buckets with 500 mm cutting width with limited digging depth

Max. material weight ■ = ≤ 1.8 t/m³, ■ = ≤ 1.5 t/m³, △ = ≤ 1.2 t/m³, – = not authorised

Lift capacities

with offset mono boom 4.30 m

Stick 2.05 m

m	Undercarriage stabilized		3.0 m		4.5 m		6.0 m		7.5 m				m
	rear	front											
	–	–											
7.5	Blade	–											
	Outriggers	Blade											
	–	–			2.9*	2.9*					2.1*	2.1*	
6.0	Blade	–			2.9*	2.9*					2.1*	2.1*	4.9
	Outriggers	Blade			2.9*	2.9*					2.1*	2.1*	
	–	–	5.1*	5.1*	3.8	4.5*					2.0*	2.0*	
4.5	Blade	–	5.1*	5.1*	4.2	4.5*					2.0*	2.0*	5.9
	Outriggers	Blade	5.1*	5.1*	4.5*	4.5*					2.0*	2.0*	
	–	–	6.5	7.7*	3.5	5.3*	2.3	3.8*			2.0	2.1*	
3.0	Blade	–	7.4	7.7*	3.9	5.3*	2.5	3.8*			2.1*	2.1*	6.4
	Outriggers	Blade	7.7*	7.7*	5.3*	5.3*	3.8*	3.8*			2.1*	2.1*	
	–	–	5.6	10.1*	3.2	5.8	2.1	3.7			1.9	2.4*	
1.5	Blade	–	6.5	10.1*	3.6	6.2*	2.4	4.6*			2.1	2.4*	6.6
	Outriggers	Blade	10.1*	10.1*	5.9	6.2*	3.8	4.6*			2.4*	2.4*	
	–	–	5.3	9.4*	3.0	5.5	2.0	3.6			1.9	3.1*	
0	Blade	–	6.1	9.4*	3.4	6.5*	2.3	4.7*			2.1	3.1*	6.3
	Outriggers	Blade	9.4*	9.4*	5.7	6.5*	3.7	4.7*			3.1*	3.1*	
	–	–	5.3	9.0*	2.9	5.5					2.2	3.9	
–1.5	Blade	–	6.1	9.0*	3.3	6.0*					2.5	4.5*	5.6
	Outriggers	Blade	9.0*	9.0*	5.6	6.0*					4.0	4.5*	
	–	–	5.5	6.4*							3.2	4.5*	
–3.0	Blade	–	6.3	6.4*							3.6	4.5*	4.3
	Outriggers	Blade	6.4*	6.4*							4.5*	4.5*	

Stick 2.25 m

m	Undercarriage stabilized		3.0 m		4.5 m		6.0 m		7.5 m				m
	rear	front											
	–	–											
7.5	Blade	–											
	Outriggers	Blade											
	–	–			3.0*	3.0*					1.9*	1.9*	
6.0	Blade	–			3.0*	3.0*					1.9*	1.9*	5.2
	Outriggers	Blade			3.0*	3.0*					1.9*	1.9*	
	–	–			3.8	4.3*	2.2*	2.2*			1.8*	1.8*	
4.5	Blade	–			4.2	4.3*	2.2*	2.2*			1.8*	1.8*	6.1
	Outriggers	Blade			4.3*	4.3*	2.3*	2.3*			1.8*	1.8*	
	–	–	6.6	7.3*	3.5	5.1*	2.3	3.9			1.9	1.9*	
3.0	Blade	–	7.3*	7.3*	4.0	5.1*	2.5	3.9*			1.9*	1.9*	6.6
	Outriggers	Blade	7.3*	7.3*	5.1*	5.1*	3.9*	3.9*			1.9*	1.9*	
	–	–	5.7	9.9*	3.2	5.8	2.1	3.7			1.8	2.2*	
1.5	Blade	–	6.5	9.9*	3.6	6.1*	2.4	4.6*			2.0	2.2*	6.8
	Outriggers	Blade	9.9*	9.9*	5.9	6.1*	3.8	4.6*			2.2*	2.2*	
	–	–	5.3	9.5*	3.0	5.5	2.0	3.6			1.8	2.7*	
0	Blade	–	6.1	9.5*	3.4	6.5*	2.3	4.7*			2.0	2.7*	6.5
	Outriggers	Blade	9.5*	9.5*	5.7	6.5*	3.7	4.7*			2.7*	2.7*	
	–	–	5.2	9.3*	2.9	5.4					2.0	3.7	
–1.5	Blade	–	6.1	9.3*	3.3	6.1*					2.3	3.9*	5.9
	Outriggers	Blade	9.2*	9.2*	5.6	6.1*					3.8	3.9*	
	–	–	5.4	6.9*	3.0	4.6*					2.9	4.4*	
–3.0	Blade	–	6.2	6.9*	3.4	4.6*					3.3	4.4*	4.6
	Outriggers	Blade	6.9*	6.9*	4.6*	4.6*					4.4*	4.4*	

Stick 2.45 m

m	Undercarriage stabilized		3.0 m		4.5 m		6.0 m		7.5 m				m
	rear	front											
	–	–									2.0*	2.0*	
7.5	Blade	–									2.0*	2.0*	3.6
	Outriggers	Blade									2.0*	2.0*	
	–	–			3.0*	3.0*					1.7*	1.7*	
6.0	Blade	–			3.0*	3.0*					1.7*	1.7*	5.4
	Outriggers	Blade			3.0*	3.0*					1.7*	1.7*	
	–	–			3.8	4.0*	2.4	2.5*			1.7*	1.7*	
4.5	Blade	–			4.0*	4.0*	2.5*	2.5*			1.7*	1.7*	6.4
	Outriggers	Blade			4.0*	4.0*	2.5*	2.5*			1.7*	1.7*	
	–	–	6.7	6.8*	3.6	4.9*	2.3	3.9*			1.7*	1.7*	
3.0	Blade	–	6.8*	6.8*	4.0	4.9*	2.5	3.9*			1.7*	1.7*	6.8
	Outriggers	Blade	6.8*	6.8*	4.9*	4.9*	3.9*	3.9*			1.7*	1.7*	
	–	–	5.7	9.6*	3.2	5.8	2.1	3.7			1.7	1.9*	
1.5	Blade	–	6.6	9.6*	3.6	5.9*	2.4	4.5*			1.9	1.9*	6.9
	Outriggers	Blade	9.6*	9.6*	5.9*	5.9*	3.8	4.5*			1.9*	1.9*	
	–	–	5.3	9.6*	3.0	5.5	2.0	3.6			1.7	2.4*	
0	Blade	–	6.1	9.6*	3.4	6.4*	2.3	4.7*			1.9	2.4*	6.7
	Outriggers	Blade	9.6*	9.6*	5.7	6.4*	3.7	4.7*			2.4*	2.4*	
	–	–	5.2	9.5*	2.9	5.4	2.0	3.6			1.9	3.4*	
–1.5	Blade	–	6.0	9.5*	3.3	6.2*	2.2	4.0*			2.2	3.4*	6.1
	Outriggers	Blade	9.5*	9.5*	5.6	6.2*	3.7	4.0*			3.4*	3.4*	
	–	–	5.3	7.3*	2.9	4.8*					2.6	4.3*	
–3.0	Blade	–	6.1	7.3*	3.3	4.8*					3.0	4.3*	4.9
	Outriggers	Blade	7.3*	7.3*	4.8*	4.8*					4.3*	4.3*	

Stick 2.65 m

m	Undercarriage stabilized		3.0 m		4.5 m		6.0 m		7.5 m				m
	rear	front											
	–	–									1.8*	1.8*	
7.5	Blade	–									1.8*	1.8*	3.9
	Outriggers	Blade									1.8*	1.8*	
	–	–			2.9*	2.9*					1.6*	1.6*	
6.0	Blade	–			2.9*	2.9*					1.6*	1.6*	5.6
	Outriggers	Blade			2.9*	2.9*					1.6*	1.6*	
	–	–			3.7*	3.7*	2.4	2.6*			1.5*	1.5*	
4.5	Blade	–			3.7*	3.7*	2.6*	2.6*			1.5*	1.5*	6.6
	Outriggers	Blade			3.7*	3.7*	2.6*	2.6*			1.5*	1.5*	
	–	–	6.3*	6.3*	3.6	4.7*	2.3	3.8*			1.6*	1.6*	
3.0	Blade	–	6.3*	6.3*	4.0	4.7*	2.5	3.8*			1.6*	1.6*	7.0
	Outriggers	Blade	6.3*	6.3*	4.7*	4.7*	3.8*	3.8*			1.6*	1.6*	
	–	–	5.8	9.3*	3.2	5.8*	2.1	3.7			1.6	1.8*	
1.5	Blade	–	6.7	9.3*	3.7	5.8*	2.4	4.4*			1.8*	1.8*	7.1
	Outriggers	Blade	9.3*	9.3*	5.8*	5.8*	3.8	4.4*			1.8*	1.8*	
	–	–	5.3	9.7*	3.0	5.5	2.0	3.6			1.6	2.1*	
0	Blade	–	6.1	9.7*	3.4	6.4*	2.3	4.6*			1.8	2.1*	6.9
	Outriggers	Blade	9.7*	9.7*	5.7	6.4*	3.7	4.6*			2.1*	2.1*	
	–	–	5.1	9.6*	2.9	5.4	1.9	3.5			1.8	2.9*	
–1.5	Blade	–	6.0	9.6*	3.3	6.2*	2.2	4.4*			2.1	2.9*	6.3
	Outriggers	Blade	9.6*	9.6*	5.5	6.2*	3.6	4.4*			2.9*	2.9*	
	–	–	5.2	7.6*	2.9	5.1*					2.4	4.2*	
–3.0	Blade	–	6.1	7.6*	3.3	5.1*					2.7	4.2*	5.2
	Outriggers	Blade	7.6*	7.6*	5.1*	5.1*					4.2*	4.2*	

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

The lift capacities on the load hook of the Liebherr quick coupler SWA 33 without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (± 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity, or are limited by the permissible load of the load hook on the quick coupler (max. 5 t). Without the quick coupler, lift capacities will increase by up to 110 kg.
In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

Lift capacities

with offset mono boom 4.30 m, EW undercarriage

Stick 2.05 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–											
7.5	Blade	–											
	Outriggers	Blade											
	–	–			2.9*	2.9*					2.1*	2.1*	
6.0	Blade	–			2.9*	2.9*					2.1*	2.1*	4.9
	Outriggers	Blade			2.9*	2.9*					2.1*	2.1*	
	–	–	5.1*	5.1*	4.2	4.5*					2.0*	2.0*	
4.5	Blade	–	5.1*	5.1*	4.5*	4.5*					2.0*	2.0*	5.9
	Outriggers	Blade	5.1*	5.1*	4.5*	4.5*					2.0*	2.0*	
	–	–	7.3	7.7*	3.9	5.3*	2.5	3.8*			2.1*	2.1*	
3.0	Blade	–	7.7*	7.7*	4.4	5.3*	2.8	3.8*			2.1*	2.1*	6.4
	Outriggers	Blade	7.7*	7.7*	5.3*	5.3*	3.8*	3.8*			2.1*	2.1*	
	–	–	6.4	10.1*	3.6	5.8	2.4	3.8			2.1	2.4*	
1.5	Blade	–	7.4	10.1*	4.1	6.2*	2.7	4.6*			2.3	2.4*	6.6
	Outriggers	Blade	10.1*	10.1*	6.2*	6.2*	4.0	4.6*			2.4*	2.4*	
	–	–	6.1	9.4*	3.4	5.6	2.3	3.7			2.1	3.1*	
0	Blade	–	7.1	9.4*	3.8	6.5*	2.6	4.7*			2.4	3.1*	6.3
	Outriggers	Blade	9.4*	9.4*	6.0	6.5*	3.9	4.7*			3.1*	3.1*	
	–	–	6.1	9.0*	3.3	5.5					2.5	4.0	
–1.5	Blade	–	7.0	9.0*	3.8	6.0*					2.8	4.5*	5.6
	Outriggers	Blade	9.0*	9.0*	6.0	6.0*					4.3	4.5*	
	–	–	6.3	6.4*							3.6	4.5*	
–3.0	Blade	–	6.4*	6.4*							4.1	4.5*	4.3
	Outriggers	Blade	6.4*	6.4*							4.5*	4.5*	

Stick 2.25 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–											
7.5	Blade	–											
	Outriggers	Blade											
	–	–			3.0*	3.0*					1.9*	1.9*	
6.0	Blade	–			3.0*	3.0*					1.9*	1.9*	5.2
	Outriggers	Blade			3.0*	3.0*					1.9*	1.9*	
	–	–			4.2	4.3*	2.2*	2.2*			1.8*	1.8*	
4.5	Blade	–			4.3*	4.3*	2.2*	2.2*			1.8*	1.8*	6.1
	Outriggers	Blade			4.3*	4.3*	2.3*	2.3*			1.8*	1.8*	
	–	–	7.3*	7.3*	3.9	5.1*	2.5	3.9*			1.9*	1.9*	
3.0	Blade	–	7.3*	7.3*	4.4	5.1*	2.8	3.9*			1.9*	1.9*	6.6
	Outriggers	Blade	7.3*	7.3*	5.1*	5.1*	3.9*	3.9*			1.9*	1.9*	
	–	–	6.5	9.9*	3.6	5.8	2.4	3.8			2.0	2.2*	
1.5	Blade	–	7.5	9.9*	4.1	6.1*	2.7	4.6*			2.2*	2.2*	6.8
	Outriggers	Blade	9.9*	9.9*	6.1*	6.1*	4.0	4.6*			2.2*	2.2*	
	–	–	6.1	9.5*	3.4	5.6	2.3	3.6			2.0	2.7*	
0	Blade	–	7.0	9.5*	3.8	6.5*	2.6	4.7*			2.3	2.7*	6.5
	Outriggers	Blade	9.5*	9.5*	6.0	6.5*	3.9	4.7*			2.7*	2.7*	
	–	–	6.0	9.3*	3.3	5.5					2.3	3.7	
–1.5	Blade	–	7.0	9.3*	3.8	6.1*					2.6	3.9*	5.9
	Outriggers	Blade	9.2*	9.2*	5.9	6.1*					3.9*	3.9*	
	–	–	6.2	6.9*	3.4	4.6*					3.3	4.4*	
–3.0	Blade	–	6.9*	6.9*	3.8	4.6*					3.7	4.4*	4.6
	Outriggers	Blade	6.9*	6.9*	4.6*	4.6*					4.4*	4.4*	

Stick 2.45 m

m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–									2.0*	2.0*	
7.5	Blade	–									2.0*	2.0*	3.6
	Outriggers	Blade									2.0*	2.0*	
	–	–			3.0*	3.0*					1.7*	1.7*	
6.0	Blade	–			3.0*	3.0*					1.7*	1.7*	5.4
	Outriggers	Blade			3.0*	3.0*					1.7*	1.7*	
	–	–			4.0*	4.0*	2.5*	2.5*			1.7*	1.7*	
4.5	Blade	–			4.0*	4.0*	2.5*	2.5*			1.7*	1.7*	6.4
	Outriggers	Blade			4.0*	4.0*	2.5*	2.5*			1.7*	1.7*	
	–	–	6.8*	6.8*	4.0	4.9*	2.5	3.9*			1.7*	1.7*	
3.0	Blade	–	6.8*	6.8*	4.4	4.9*	2.8	3.9*			1.7*	1.7*	6.8
	Outriggers	Blade	6.8*	6.8*	4.9*	4.9*	3.9*	3.9*			1.7*	1.7*	
	–	–	6.5	9.6*	3.6	5.8	2.4	3.8			1.9	1.9*	
1.5	Blade	–	7.5	9.6*	4.1	5.9*	2.7	4.5*			1.9*	1.9*	6.9
	Outriggers	Blade	9.6*	9.6*	5.9*	5.9*	4.0	4.5*			1.9*	1.9*	
	–	–	6.1	9.6*	3.4	5.6	2.3	3.6			1.9	2.4*	
0	Blade	–	7.0	9.6*	3.8	6.4*	2.6	4.7*			2.2	2.4*	6.7
	Outriggers	Blade	9.6*	9.6*	6.0	6.4*	3.9	4.7*			2.4*	2.4*	
	–	–	6.0	9.5*	3.3	5.4	2.2	3.6			2.2	3.4*	
–1.5	Blade	–	6.9	9.5*	3.7	6.2*	2.5	4.0*			2.5	3.4*	6.1
	Outriggers	Blade	9.5*	9.5*	5.9	6.2*	3.9	4.0*			3.4*	3.4*	
	–	–	6.1	7.3*	3.3	4.8*					3.0	4.3*	
–3.0	Blade	–	7.1	7.3*	3.8	4.8*					3.4	4.3*	4.9
	Outriggers	Blade	7.3*	7.3*	4.8*	4.8*					4.3*	4.3*	

Stick 2.65 m

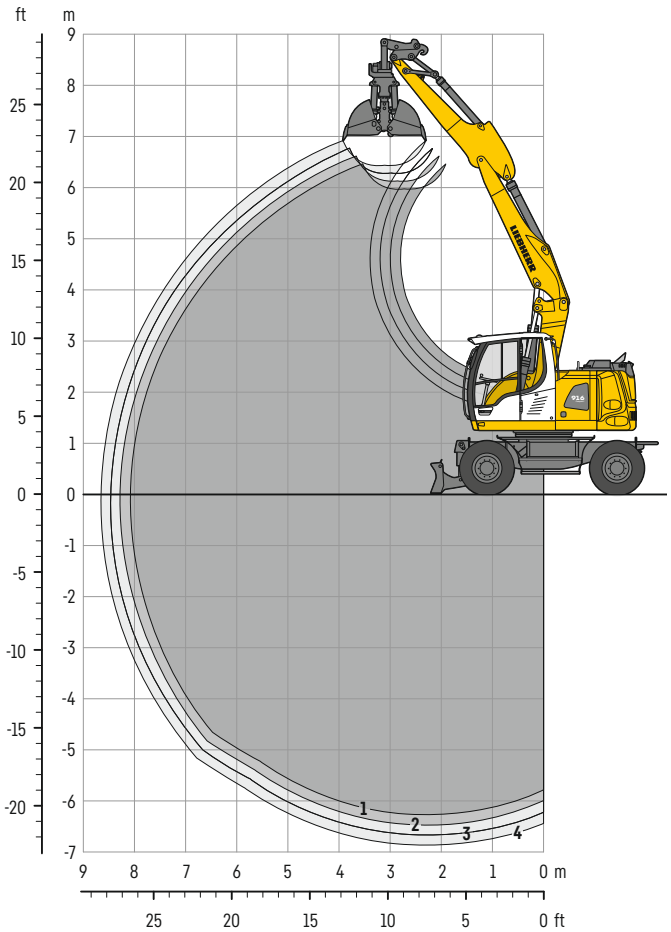
m	Undercarriage stabilized rear	front	3.0 m		4.5 m		6.0 m		7.5 m				m
	–	–									1.8*	1.8*	
7.5	Blade	–									1.8*	1.8*	3.9
	Outriggers	Blade									1.8*	1.8*	
	–	–			2.9*	2.9*					1.6*	1.6*	
6.0	Blade	–			2.9*	2.9*					1.6*	1.6*	5.6
	Outriggers	Blade			2.9*	2.9*					1.6*	1.6*	
	–	–			3.7*	3.7*	2.6*	2.6*			1.5*	1.5*	
4.5	Blade	–			3.7*	3.7*	2.6*	2.6*			1.5*	1.5*	6.6
	Outriggers	Blade			3.7*	3.7*	2.6*	2.6*			1.5*	1.5*	
	–	–	6.3*	6.3*	4.0	4.7*	2.5	3.8*			1.6*	1.6*	
3.0	Blade	–	6.3*	6.3*	4.5	4.7*	2.8	3.8*			1.6*	1.6*	7.0
	Outriggers	Blade	6.3*	6.3*	4.7*	4.7*	3.8*	3.8*			1.6*	1.6*	
	–	–	6.6	9.3*	3.6	5.8*	2.4	3.8			1.8*	1.8*	
1.5	Blade	–	7.6	9.3*	4.1	5.8*	2.7	4.4*			1.8*	1.8*	7.1
	Outriggers	Blade	9.3*	9.3*	5.8*	5.8*	4.0	4.4*			1.8*	1.8*	
	–	–	6.1	9.7*	3.4	5.6	2.2	3.6			1.8	2.1*	
0	Blade	–	7.0	9.7*	3.8	6.4*	2.5	4.6*			2.1	2.1*	6.9
	Outriggers	Blade	9.7*	9.7*	6.0	6.4*	3.9	4.6*			2.1*	2.1*	
	–	–	5.9	9.6*	3.2	5.4	2.2	3.6			2.0	2.9*	
–1.5	Blade	–	6.9	9.6*	3.7	6.2*	2.5	4.4*			2.3	2.9*	6.3
	Outriggers	Blade	9.6*	9.6*	5.9	6.2*	3.8	4.4*			2.9*	2.9*	
	–	–	6.0	7.6*	3.3	5.1*					2.7	4.2*	
–3.0	Blade	–	7.0	7.6*	3.7	5.1*					3.1	4.2*	5.2
	Outriggers	Blade	7.6*	7.6*	5.1*	5.1*					4.2*	4.2*	

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

The lift capacities on the load hook of the Liebherr quick coupler SWA 33 without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (± 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity, or are limited by the permissible load of the load hook on the quick coupler (max. 5 t). Without the quick coupler, lift capacities will increase by up to 110 kg.
In accordance with the harmonised European Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe fracture safety valves, an overload warning device, a load hook and a lift capacity chart.

Clamshell grab

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
Max. digging depth	m	6.30	6.50	6.70	6.90
Max. reach at ground level	m	8.10	8.30	8.50	8.70
Max. dumping height	m	6.00	6.15	6.30	6.45

Operating weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, two-piece boom 4.85 m, stick 2.25 m, quick coupler SWA 33 and clamshell grab GM 8B / 0.40 m³ (800 mm without ejector).

Undercarriage versions	Weight (kg)
A 916 Compact Litronic with rear blade	16,800
A 916 Compact Litronic with rear outriggers + front blade	17,800
A 916 Compact EW Litronic with rear blade	16,900
A 916 Compact EW Litronic with rear outriggers + front blade	17,900

Clamshell grabs GM 8B Machine stability per ISO 10567* (75 % of tipping capacity)

Width of clamshells	Capacity	Weight	Stabilizers raised				Rear blade down				Rear outriggers + front blade down				EW Stabilizers raised				EW Rear blade down				EW Rear outriggers + front blade down			
			Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)			
mm	m³	kg	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	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65
320[1]	0.17	830	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400[1]	0.22	870	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
600[1]	0.30	860	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
800[1]	0.40	910	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,000[1] [3]	0.80	1,010	△	–	–	–	■	△	△	△	■	■	■	■	■	△	△	△	■	■	■	■	■	■	■	■
320[2]	0.17	880	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400[2]	0.22	930	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
600[2]	0.30	950	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
800[2]	0.40	1,020	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

* Indicated loads are based on ISO 10567 and do not exceed 75 % of tipping or 87 % of hydraulic capacity, max. stick length without quick coupler, lifted 360° on firm with blocked oscillating axle

[1] without ejector

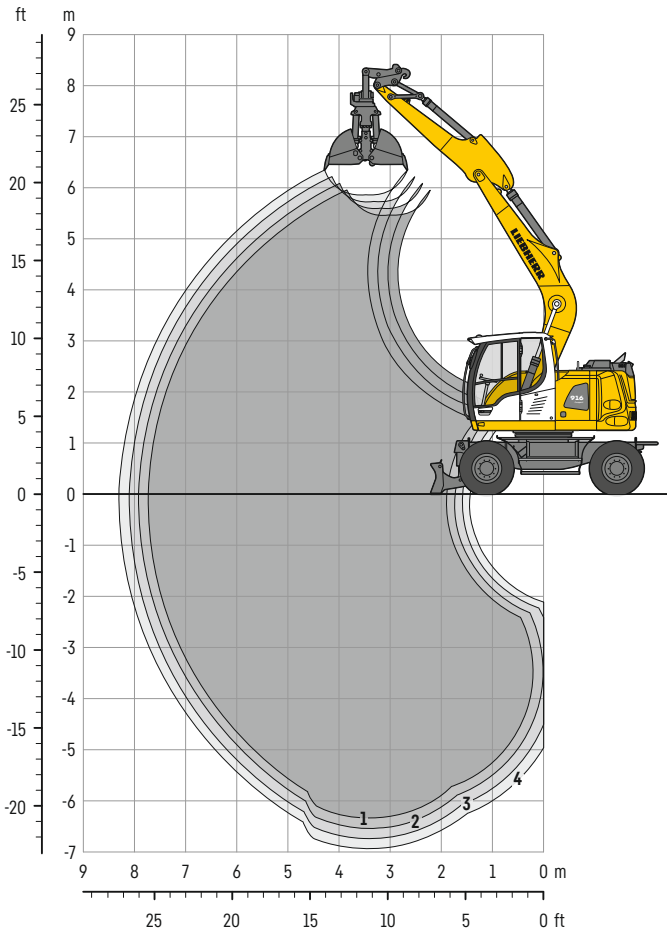
[2] with ejector

[3] Shells for loose material

Max. material weight ■ = ≤ 1.8 t/m³, ■ = ≤ 1.5 t/m³, △ = ≤ 1.2 t/m³, – = not authorised

Clamshell grab

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
Max. digging depth	m	6.35	6.55	6.75	6.95
Max. reach at ground level	m	7.75	7.90	8.10	8.30
Max. dumping height	m	5.45	5.60	5.75	5.90

Operating weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, mono boom 4.60 m, stick 2.25 m, quick coupler SWA 33 and clamshell grab GM 8B / 0.40 m³ (800 mm without ejector).

Undercarriage versions	Weight (kg)
A 916 Compact Litronic with rear blade	16,500
A 916 Compact Litronic with rear outriggers + front blade	17,500
A 916 Compact EW Litronic with rear blade	16,500
A 916 Compact EW Litronic with rear outriggers + front blade	17,600

Clamshell grabs GM 8B Machine stability per ISO 10567* (75 % of tipping capacity)

Width of clamshells	Capacity	Weight	Stabilizers raised				Rear blade down				Rear outriggers + front blade down				EW Stabilizers raised				EW Rear blade down				EW Rear outriggers + front blade down			
			Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)			
mm	m³	kg	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	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65
320[1]	0.17	830	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400[1]	0.22	870	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
600[1]	0.30	860	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
800[1]	0.40	910	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,000[1] [3]	0.80	1,010	△	△	△	-	■	■	■	■	■	■	■	■	■	■	△	■	■	■	■	■	■	■	■	■
320[2]	0.17	880	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400[2]	0.22	930	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
600[2]	0.30	950	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
800[2]	0.40	1,020	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

* Indicated loads are based on ISO 10567 and do not exceed 75 % of tipping or 87 % of hydraulic capacity, max. stick length without quick coupler, lifted 360° on firm with blocked oscillating axle

[1] without ejector

[2] with ejector

[3] Shells for loose material

Max. material weight ■ = ≤ 1.8 t/m³, ■ = ≤ 1.5 t/m³, △ = ≤ 1.2 t/m³, – = not authorised

Equipments

Clamshell grabs

Clamshell grabs GM 8B Machine stability per ISO 10567* (75 % of tipping capacity)

Width of clamshells	Capacity	Weight	Stabilizers raised				Rear blade down				Rear outriggers + front blade down				EW Stabilizers raised				EW Rear blade down				EW Rear outriggers + front blade down			
			Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)			
mm	m³	kg	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	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65
Offset two-piece boom 4.90 m																										
320[1]	0.17	830	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400[1]	0.22	870	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
600[1]	0.30	860	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
800[1]	0.40	910	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,000[1] [3]	0.80	1,010	–	–	–	–	△	–	–	–	■	■	■	■	△	–	–	–	■	△	△	△	■	■	■	■
320[2]	0.17	880	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400[2]	0.22	930	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
600[2]	0.30	950	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
800[2]	0.40	1,020	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Offset mono boom 4.30 m																										
320[1]	0.17	830	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400[1]	0.22	870	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
600[1]	0.30	860	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
800[1]	0.40	910	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,000[1] [3]	0.80	1,010	△	△	△	–	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
320[2]	0.17	880	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400[2]	0.22	930	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
600[2]	0.30	950	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
800[2]	0.40	1,020	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

* Indicated loads are based on ISO 10567 and do not exceed 75 % of tipping or 87 % of hydraulic capacity, max. stick length without quick coupler, lifted 360° on firm with blocked oscillating axle

[1] without ejector

[2] with ejector

[3] Shells for loose material

Max. material weight ■ = ≤ 1.8 t/m³, ■ = ≤ 1.5 t/m³, △ = ≤ 1.2 t/m³, – = not authorised

Equipments

Ditch cleaning buckets / tilt buckets

Ditch cleaning buckets Machine stability per ISO 10567* (75 % of tipping capacity)

Cutting width	Capacity ISO 7451[1]	Weight	Stabilizers raised				Rear blade down				Rear outriggers + front blade down				EW Stabilizers raised				EW Rear blade down				EW Rear outriggers + front blade down			
			Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)			
mm	m³	kg	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	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65
Two-piece boom 4.85 m																										
1,500[3]	0.50	360	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,600[2]	0.55	640	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000[2]	0.50	660	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000[3]	0.48	350	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000[3]	0.65	390	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Mono boom 4.60 m																										
1,500[3]	0.50	360	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,600[2]	0.55	640	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000[2]	0.50	660	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000[3]	0.48	350	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000[3]	0.65	390	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Offset two-piece boom 4.90 m																										
1,500[3]	0.50	360	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,600[2]	0.55	640	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000[2]	0.50	660	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000[3]	0.48	350	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000[3]	0.65	390	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Offset mono boom 4.30 m																										
1,500[3]	0.50	360	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,600[2]	0.55	640	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000[2]	0.50	660	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000[3]	0.48	350	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000[3]	0.65	390	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

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

Cutting width	Capacity ISO 7451[1]	Weight	Stabilizers raised				Rear blade down				Rear outriggers + front blade down				EW Stabilizers raised				EW Rear blade down				EW Rear outriggers + front blade down			
			Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)			
mm	m³	kg	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	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65
Two-piece boom 4.85 m																										
1,500[2]	0.60	660	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Mono boom 4.60 m																										
1,500[2]	0.60	660	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Offset two-piece boom 4.90 m																										
1,500[2]	0.60	660	■	■	■	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Offset mono boom 4.30 m																										
1,500[2]	0.60	660	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

* Indicated loads are based on ISO 10567 and do not exceed 75 % of tipping or 87 % of hydraulic capacity, max. stick length without quick coupler, lifted 360° on firm with blocked oscillating axle

[1] comparable with SAE (heaped)

[2] with 2 x 50° rotator

[3] rigid ditch cleaning bucket

Max. material weight ■ = ≤ 1.8 t/m³, ■ = ≤ 1.5 t/m³, △ = ≤ 1.2 t/m³, – = not authorised

Equipment

Undercarriage

Dual-circuit braking system	●
Rear stabilizer blade	+
Rear stabilizer blade + front outriggers	+
Lighting trailer coupling	+
Trailer coupling with bolt, automatic	+
Digging brake, automatic	●
Tyres (twin tyres) Liebherr EM 22 290/90-20	+
Tyres (twin tyres) Mitas EM 22	●
Individual control outriggers	+
Travel speed levels (four)	●
Tilt function of trailer, hydraulic	+
Mudguards (rear and front)	+
Load holding valve on each stabilization cylinder	●
Powershift transmission, semiautomatic	●
Parking brake, maintenance-free	●
Rear outriggers + front stabilizer blade	+
Tyres, variants	+
Protection for piston rods, stabilizer cylinder	+
Speeder	+
Storage compartment left	●
Storage compartment right	+
Undercarriage EW 2.75 m / 9'	+
Tool equipment, extended	+

Uppercarriage

Uppercarriage rear light, 2 pieces, LED	+
Uppercarriage right side light, 1 piece, LED	+
Refuelling system with filling pump	+
Main battery switch for electrical system	●
Engine hood with gas spring	●
Amber beacon, at uppercarriage, LED double flash	+
Service doors, lockable	●

Hydraulic system

Shut-off valve between hydraulic tank and pump(s)	●
Pressure test fittings	●
Accumulator for controlled lowering of the equipment with the engine shut down	●
Hydraulic oil filter with integrated microfilter	●
Liebherr hydraulic oil from –20 °C to +40 °C	●
Liebherr hydraulic oil, biologically degradable	+
Liebherr hydraulic oil, specially for warm or cold regions	+
Bypass filter	+
Switchover high pressure circuit and tipping cylinder	+
Switchover high pressure circuit and two-piece boom	+

Diesel engine

Fuel anti-theft device	+
Liebherr particle filter	●
Reversible fan drive, fully automatic	+
Automatic engine shut-down (time adjustable)	+
Preheating fuel	+
Preheating coolant*	+

Cab

Storage compartment	●
Stabilizer, proportional control on left joystick	●
Cab lights rear, halogen	+
Cab lights rear, LED	+
Cab lights front, halogen (above rain cover)	+
Cab lights front, halogen (under rain cover)	●
Cab lights front, LED (above rain cover)	+
Cab lights front, LED (under rain cover)	+
Exterior mirror, electrical adjustable, with heating	+
Mechanical hour meters, readable from outside the cab	●
Roof window made from impact-resistant laminated safety glass	●
Slewing gear brake Comfort, button on the left or right joystick	+
Operator's seat Standard	●
Operator's seat Comfort	+
Operator's seat Premium	+
Driving alarm (acoustic signal is emitted during travel, can be switched ON / OFF)	+
Fire extinguisher	+
Front screen made from impact-resistant laminated safety glass – not adjustable	+
Windscreen retractable (including upper part)	●
Intermittent windscreen wiper with wiper washer	●
Cruise control	●
Joystick steering	+
Joysticks Premium	+
Automatic air conditioning	●
Fuel consumption indicator	●
Electric cool box (12 V)	+
Steering wheel, wide version (cost-neutral option)	+
Steering column adjustable horizontally	●
LiDAT, vehicle fleet management	●
Positioning swing brake	+
Proportional control	●
Radio Comfort, control via display with handsfree set	+
Preparation for radio installation	●
Rain cover over front window opening	●
ROPS cab protection	●
Back-up alarm (acoustic signal is emitted traveling backward, can not be switched off)	+
Amber beacon, on cab, LED double flash	+
Tinted windows	●
Windscreen wiper, roof	+
Windshield wiper, entire windscreen	●
Door with sliding window	●
FOPS top guard	+
FGPS front guard	+
Right side window and windshield made from laminated safety glass	●
Sun visor	+
Sun blind	●
Auxiliary heating, adjustable (week time switch)	+
Left control console, folding	●
Electronic immobilizer	+
Cigarette lighter	●

Equipment

Boom lights, 2 pieces, halogen	●
Boom lights, 2 pieces, LED	+
Stick lights, 2 pieces, LED	+
Travel vibration damper	+
High pressure circuit incl. unpressurised return line and Tool Control	+
Electronic lift limitation	+
Hydraulic circuit, extended	+
Load holding valve tipping cylinder	+
Load lug on stick	+
Leak oil line, additional for attachments	+
Liebherr ditch cleaning bucket	+
Liebherr quick coupler, hydraulic or mechanical	+
Liebherr tilt bucket	+
Liebherr tiltrotator	+
Liebherr sorting grab	+
Liebherr backhoe bucket	+
Liebherr tooth system	+
Liebherr clamshell grab	+
Medium pressure circuit incl. lines	+
Mono boom	+
Offset mono boom	+
Pipe fracture safety valves hoist cylinders	●
Pipe fracture safety valve stick cylinder	●
Hose quick coupling at end of stick	●
Quick coupling system Solidlink	+
Protection for piston rod, tipping cylinder	+
Protection for bottom side of stick	+
Power socket on stick, 24 V / 10 A	+
Tool Control, 20 attachment adjustments selectable over the display	+
Overload warning device	●
Two-piece boom	+
Offset two-piece boom	+

Complete machine

Operating permit*	
General operating permit**	+
Individual operating permit	+
Machine guidance system	
Preparation	+
Lubrication	
Lubrication undercarriage, manually – decentralised (grease points)	●
Lubrication undercarriage, manually – centralised (one grease point)	+
Central lubrication system for uppercarriage and equipment, automatically (without quick coupler and connecting link)*	●
Centralised lubrication extended for quick coupler	+
Centralised lubrication extended for connecting link	+
Special coating	
Custom painting for attachments	+
Special coating, variants	+
Monitoring	
Rear view monitoring with camera	●
Side view monitoring with camera	●
Skyview 360° (side camera not available)	+

● = Standard, + = Option

* = country-dependent, ** = depending on configuration

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

The Liebherr Group

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

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

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

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

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