

Wheeled Excavator

A 916

Litronic®

Operating Weight

16,400 – 18,400 kg

Engine

115 kW / 156 HP

Stage IV

Bucket Capacity

0.17 – 1.05 m³



LIEBHERR

Performance

Durably Stable Power,
Strength and Precision

Economy

A Sound Investment – Optimum Economy
and Environmentally Friendly

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0.17 – 1.05 m³



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



Performance



Durably Stable Power, Strength and Precision

Liebherr wheeled excavators tackle classic earthmoving, road or sewer construction and pipeline work with ease on a daily basis. Their everlasting power, speed and precision help make every site a success.

Maximum Performance

Versatile & strong

The new A 916 is a popular all-rounder machine, distinguished by tremendous work performance and stability. No matter whether in road construction, on large construction sites or in a restricted urban space – with 17 tonnes of operating weight, a powerful engine and superior coordination between the upper and undercarriage, the machine is able to work reliably anywhere.

A task-related range of different attachments and tools enables the A 916 wheeled excavator to adapt perfectly to its daily challenges. A custom solution to make your A 916 perfect.

Be faster

Many years of experience in the development and production of hydraulic excavators and systems enable us to harmonize the components perfectly. The result is available to every operator: Liebherr hydraulic excavators feature rapid, fluid movements combined with high precision. These properties are also available when simply driving the machine. The speed and precision of the machine can be adjusted using the MODE switch to suit a new task, which can also save fuel.



Constant power

- Powerful and robust construction machinery motor for continuous use at full load
- 4.5 l long-stroke engine for high torque and fuel-efficient work at low speeds
- Efficient turbo loader with intercooling – high output at low fuel consumption



Digging Force

- High digging and breakout force
- Continuously high digging performance even in tough ground
- More digging force for faster results

Precise Work

Working with Precision

The Liebherr joysticks enable the operator to intuitively and sensitively control the Liebherr hydraulic system to complete even the most challenging tasks quickly not just with reduced speed but also with maximum power output. Liebherr has been using an infinitely variable proportional controller with four axes for many years. The slim, ergonomically designed proportional sensors deliver additional functionality to the classic machine controller without having to reach for additional controls. Typical functions include high and medium pressure movements for tools, the control of height and sideways-adjustable booms as well as lowering the machine outrigger. The mini-joysticks can also be used optionally to steer the entire machine. Buttons on the joysticks, which the operator can configure, deliver additional convenience and functions.



Joystick Steering

- The optional joystick steering function enables the operator to steer the wheeled excavator using the mini-joystick
- Working and travelling movements can be executed simultaneously without having to move hands
- More efficient operation for greater productivity

Economy



A Sound Investment – Optimum Economy and Environmentally Friendly

Liebherr wheeled excavators are machines that combine high productivity with excellent levels of economy – and all this comes as standard from the factory. On request, the efficiency of each wheeled excavator can be boosted further with a Liebherr productive bucket, fuel-saving Liebherr hydraulic oil or a Liebherr quick coupling system, all of which provide more return from each operating hour.

Maximum Efficiency

Lowest fuel consumption in the field

Liebherr utilises its sturdy D924 four-cylinder in-line engine in the A 916 Litronic – for powerful, fuel-efficient and reliable results. The efficient in-line engine unleashes its power via high torque values at low speeds, thereby optimally utilising its speed range. The intelligent hydraulic system along with additional features such as the automatic engine shut-down and a controlled speed level increase efficiency even more whilst also protecting the material.

We would be happy to demonstrate our fuel-saving machine. Visit our website: www.m.encyplus.liebherr.com

Low maintenance SCR

The newly developed diesel engine protects the environment and its resources by reducing its emissions. Liebherr uses an innovative SCR-system (selective catalytic reduction), consisting of an SCR catalytic converter system and other components such as an injector and AdBlue® supply to achieve emissions stage IV. This reduces emissions of nitrogen oxides (NO_x) of over 90 percent, is maintenance free and designed for the life period of the machine. Depending on the requirements, a particle filter can also be installed.



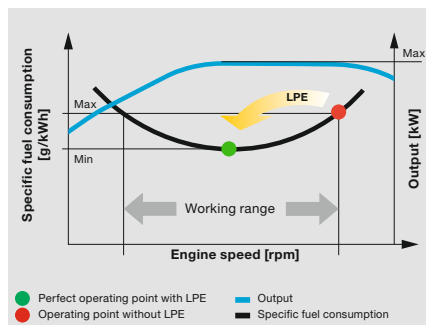
Increased Productivity

Faster, More Effective Site Operations

The A 916 packs plenty of power and delivers excellent productivity and economic advantages in operation. Great engine performance, high load capacity and reliable stability with a considerable reach deliver a massive operating radius. The benefit is a high speed, focused operation without frequent machine movements.

Efficient Management

LiDAT, Liebherr's own data transmission and positioning system, facilitates efficient management, monitoring and control of the entire fleet in terms of machinery data recording, data analysis, fleet management and service. All of the important machinery data can be viewed at any time on a web browser. LiDAT provides you comprehensive work deployment documentation, greater availability thanks to shorter downtimes, faster support from the manufacturer, quicker detection of strain/overload and subsequently a longer service life of the machine as well as greater planning efficiency.



High Resale Value

- High quality materials and quality workmanship ensure lengthy operation whilst retaining the highest possible value

Low Fuel Consumption Thanks to Intelligent Machine Control

- Liebherr-Power Efficiency (LPE) optimises the interaction of the drive components in terms of efficiency
- LPE enables machine operation in the area of the lowest specific fuel use for less consumption and greater efficiency with the same performance

Liebherr Quick Coupling System LIKUFIX

- Faster and safer changing of mechanical and hydraulic working tools from the operator's cabin
- Machine utilization increased to up to 90 % thanks to extended deployment options
- Visual and acoustic check of correct locking position of tool at quick coupling system by two proximity sensors

Reliability



Competence, Consistency, Innovation – Proven Experience

Reliability offers safety. Safety that significantly influences the success of a project. Whatever the weather, Liebherr stands for safety – with reliable construction machines and customer-oriented sales and service partners. This means a Liebherr construction machine is exactly what it should be: an investment that pays off.

High machine availability

Quality and Competence

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

Robust Construction

All the steel components are designed and manufactured by Liebherr. High strength steel sheets designed to withstand the harshest requirements guarantee high torsion resistance and excellent absorption of forces to ensure a long service life.

Greater safety

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, 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.

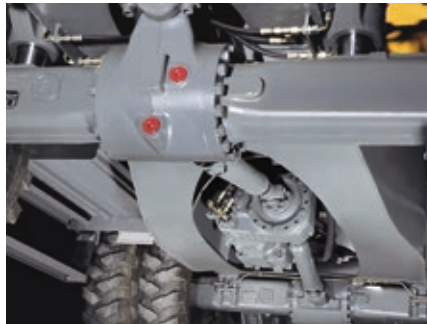
Maximum Stability

Various undercarriage versions with securely welded outriggers deliver safe footing, maximum stability and a long service life. The stabilizer blade as well as the outriggers have been designed for the toughest scenarios, allowing the machine to reliably carry out its work at full load.



All-round Visibility

- Skyview360° camera system for easy monitoring of the danger zones around the machine
- Less down time due to lower accident and damage risk
- Increased safety and flexibility in restricted spaces



Integral Travel Drive Protection

- The travel motor and gearbox are fully integrated in the robust undercarriage frame
- Best possible protection from debris, stones and soil in the event of unwanted ground contact
- Perfect off-road features and massive ground clearance



Liebherr Twin Tyres EM 22 Without Intermediate Ring

- Specially developed twin tyres for increased stability when not supported
- Long service life through increased wear resistance
- Best traction on soft and sandy terrain
- Unique in its class: The dimensions correspond to the 10-set twin tyres and do not exceed the permissible width

Comfort



Ergonomic Excellence – Superior Cabin Design for Operator Comfort and Wellbeing

The modern Liebherr cab with an air-suspension heated driver's seat and automatic air-conditioning ensures a pleasant atmosphere, thus offering the best conditions for healthy and productive work whilst allowing the driver to work with full concentration. The ergonomic control elements with touchscreen display also simplify the operation of the wheeled excavator. The extensive safety equipment includes the rollover protection system (ROPS) for the cab fitted as standard according to ISO 12117-2.

First-class Cab

Automatic Air Conditioning

Liebherr fits the A 916 with a standard automatic air conditioning system to ensure operator comfort. The temperature, fan setting and the various air vents at head, chest and foot levels can be adjusted through the intuitive operation of the touchscreen. The defrost/defog one-button function clears fogged up windows in the shortest possible time. The filter for the cab air can be changed easily and conveniently from outside.

Operator Seats

The Standard, Comfort and Premium operator's seat versions deliver maximum comfort. Even the standard operator seat offers an extensive range of features such as air suspension, seat heating, headrest, lumbar support and many more. A luxury which we believe every construction machine should provide.

Smooth Operation

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



Refuelling

- Using the optional refuelling pump, the machine can be refuelled directly from a fuel container
- An integral tank hose and an automatic shut off when the tank is full deliver greater comfort and short refuelling times
- Topping up – simple, quick and safe



Maximum Safety

- More convenient and safer entry and exit in and out of the cab thanks to added width from the folding arm console
- Three entry steps with standard anti-slip galvanised plates provide a boost to safety

Comfortable Operation

Radio with Hands-free Device

The optional Liebherr radio is MP3-compatible, has a USB connection and can be used as interface for the integral hands-free kit. If the machine operator connects his smartphone to the radio using Bluetooth, the touchscreen can be used to control phone calls. This means that all media, including the radio, MP3 or phone calls, are controlled using a central unit which provides greater clarity, simplicity and comfort.

Information Centre

The large touchscreen provides the operator with a fast, uncomplicated interface which delivers all the information required for working with the machine. A flat, intuitive menu system ensures that it can be readily understood so that the information centre can be used in a highly productive way.

Sliding two-piece Windscreen

The windscreen can be partially or fully slid into the roof to give an unrestricted view of the work area.



Intuitive Operation

- Display of the machine data and camera image on the 7-inch indicating unit with touchscreen and direct access via menu bar
- 20 user-programmable memory slots for working tools, which can be used for quickly and easily setting the oil pressure and oil flow at the push of a button when changing tools
- Rear and side area monitoring provide optimum visibility of the working area at all times; equipped as standard

Maintainability



Service Every Step of the Way – Simple, Fast and Reliable

Liebherr compact wheeled excavators are not only powerful, robust, precise and efficient, they also impress with the service-orientated machine design. Maintenance is performed quickly, simply and safely. This reduces maintenance costs and keeps machine downtimes to a minimum.

Simplified Maintenance Concept

Service-based Machine Design

The service-based machine design guarantees short servicing times, thus minimising maintenance costs due to the time it saves. All the maintenance points are easily accessible from the ground and easy to reach due to the large, wide-opening service doors. The enhanced service concept places the maintenance points close to each other and reduces their number to a minimum.

Hydraulic Oils with Added Value

Liebherr hydraulic oils achieve a service life of 6,000 operating hours plus. Instead of having defined change intervals, the results of the oil analysis (every 1,000 operating hours or after one year) determine when the oil needs to be changed. The unique Liebherr Hydraulic Plus oil can even achieve a service life of 8,000 operating hours plus at the same time reducing fuel consumption by up to 5%.

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.



Your Competent Service Partner

Remanufacturing

The Liebherr remanufacturing program offers cost-effective reconditioning of components to the highest quality standards. Various reconditioning levels available including replacement components and general overhaul or repair. The customer receives components with original part quality at a reduced cost.

Competent Advice and Service

Competent advice is a given at Liebherr. Experienced specialists provide advice for your specific requirements: application-oriented sales support, service agreements, cost effective repair alternatives, original parts management, as well as remote data transmission for machine planning and fleet management.

Lubrication During Operation

- Fully automatic central lubrication system for the attachment and swing ring
- Can be expanded to the connecting link and quick coupler
- Lubrication without interrupting work for higher productivity

Excellent Service Access

- Large, wide-opening service doors
- Engine oil, fuel, air and cab air filters are easily and safely accessible from the ground
- The oil level in the hydraulic tank can be checked from the cab
- Standard magnetic rod in the hydraulic tank as reliable service indicator

Rapid Spare Parts Service

- 24-hour delivery: Spare parts service is available for our dealers around the clock
- Electronic spare parts catalogue: Fast and reliable selection and ordering via the Liebherr online portal
- With online tracking, the current processing status of your order can be viewed at any time

Wheeled Excavator A 916 Litronic

Overview

Excellent Machine Concept for Maximum Reliability

- Robust design made of high strength steel
- Various welded outrigger versions available
- Load holding valves on all outriggers
- Liebherr hydraulic cylinders with standard pipe fracture safety devices for lifting and stick cylinders
- Overload warning device
- Roll-over protection system (ROPS)
- Electronic lift limitation (optional)
- Integral travel drive protection
- Liebherr twin tyres (optional)
- Skyview360° – Camerasystem

Superior Technology for Highest Economy

- Diesel engine with up to date emissions stage IV
- Emissions treatment system with SCR technology
- Liebherr-Power-Efficiency (LPE) – Liebherr's smart engine controller
- Load-sensing-control
- Liebherr quick coupling system LIKUFIX
- LiDAT – Liebherr's information system for the efficient management and evaluation of the fleet

Simplified Maintenance Concept for Maximum Productivity

- Service-enhanced machine structure with easy access to the maintenance points
- Fully automatic central lubrication system for uppercarriage, slewing ring and attachments
- Liebherr Hydraulic Plus – oil with an extended service life of up to 8,000 operating hours
- Highly qualified, experienced trained personnel provide competent care
- 24/7 Spare parts service with 24 hour deliveries





Ergonomic Operator's Work Station for Maximum Comfort

- High quality operator's seats in a range of versions
- Control console connected to the seat and ergonomic joysticks
- Folding control console, left
- Proportional control with 4-way mini-joystick
- Joystick steering (optional)
- Automatic air-conditioning system (optional)
- Information centre – 7" large colour touchscreen
- Rear and side monitor
- Convenient radio control with hands-free kit
- Tool Control for working tools
- LED headlights (optional)
- Large windows
- Sliding two-piece windscreen

Perfect Combination for Highest Possible Performance

- Powerful 4-cylinder in-line engine with Common-Rail injection system
- Liebherr hydraulic system for high digging and breakout forces with combined, fluid movements
- Flexible configuration of the machine with various attachment and tool versions and options
- Wide undercarriage measuring 2.75 m (optional)

Technical Data



Diesel Engine

Rating per ISO 9249	115 kW (156 HP) at 1,800 RPM
Model	Liebherr D924
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 IV	
Harmful emissions values	in accordance with 97/68/EG stage IV
Emission control	Liebherr-SCR technology
Option	Liebherr particle filter
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
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Hydraulic Controls

Power distribution	via control valves with integrated safety valves, simultaneous and independent actuation of chassis, swing drive and attachment
Servo circuit	
Attachment and swing	with hydraulic pilot control and proportional joystick levers
Chassis	electroproportional via foot pedal
Additional functions	via switch or electroproportional foot pedals
Proportional control	proportionally acting transmitters on the joysticks for additional hydraulic functions



Hydraulic System

Hydraulic pump	Liebherr axial piston variable displacement pump
for attachment and travel drive	
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
Hydraulic oil filter	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 preadjustable pump flows and pressures for add on tools



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



Operator's Cab

Cab	ROPS safety cab structure (roll-over protection system) with individual windscreens or featuring a slide-in subpart 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, sounddamping 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 re-adjustment), pneumatic low frequency suspension and active seat climatisation with active coal and ventilator
Control system	joysticks with control consoles and swivel seat, folding left control console
Operation and displays	large high-resolution operating unit, selfexplanatory, colour display with touchscreen, video-compatible, numerous setting, control and monitoring options, e.g. air conditioning control, fuel consumption, machine and tool 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)



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	127 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 or 30.0 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
Axes	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	stabilizing blade rear (adjustable during travel for dozing) 4 point outriggers stabilizing blade rear + 2 point outriggers front stabilizing blade front + 2 point outriggers rear
Option	EW-undercarriage 2.75 m/9'



Attachment

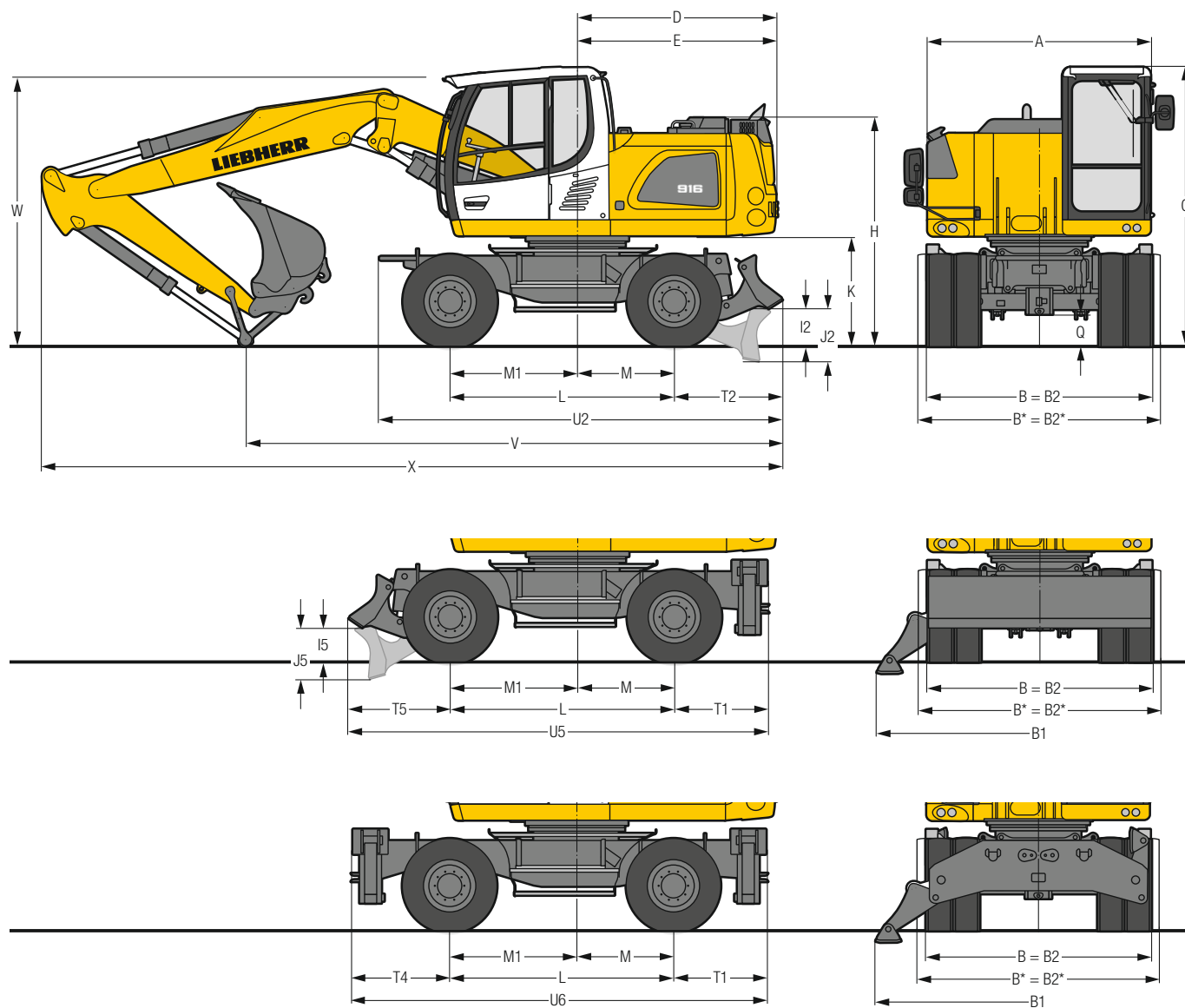
Type	high-strength steel plates at highlystressed points for the toughest requirements. Complex and stable mountings of attachment and cylinders
Hydraulic cylinders	Liebherr cylinders with special seal system as well as shock absorption
Bearings	sealed, low maintenance



Complete Machine

Lubrication	Liebherr central lubrication system for upper-carriage and attachment, automatically
Noise emission	
ISO 6396	L _{PA} (inside cab) = 71 dB(A)
2000/14/EC	L _{WA} (surround noise) = 100 dB(A)

Dimensions



	mm
A	2,525
B	2,550
B*	2,750
B1	3,695
B2	2,550
B2*	2,750
C	3,165
D	2,250
E	2,270
H	2,590
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
T4	1,097
T5	1,153
U2	4,575
U5	4,740
U6	4,685

* EW-Undercarriage

E = Tail radius

Tyres 10.00-20

	Stick	Two-piece boom 5.05 m			Mono boom 5.00 m		
		Stabilizer blade	Blade + 2 pt. outriggers	4 pt. outriggers	Stabilizer blade	Blade + 2 pt. outriggers	4 pt. outriggers
	m	mm	mm	mm	mm	mm	mm
V	2.25	6,100	6,000	6,000	5,900	5,800	5,800
	2.45	5,750	5,650	5,650	5,400	5,300	5,600*
	2.65	5,650	5,550	5,900*	5,150*	5,500*	5,500*
W	2.25	3,050	3,050	3,050	3,250	3,250	3,250
	2.45	3,000	3,000	3,000	3,100	3,100	3,100*
	2.65	3,100	3,100	3,100*	3,150*	3,150*	3,150*
X	2.25	8,400	8,350	8,350	8,400	8,300	8,300
	2.45	8,450	8,350	8,350	8,350	8,300	8,600*
	2.65	8,450	8,350	8,650*	8,300*	8,650*	8,600*

	Stick	Offset two-piece boom 5.00 m			Offset mono boom 4.90 m		
		Stabilizer blade	Blade + 2 pt. outriggers	4 pt. outriggers	Stabilizer blade	Blade + 2 pt. outriggers	4 pt. outriggers
	m	mm	mm	mm	mm	mm	mm
V	2.25	6,600	6,500	6,500	6,150	6,050	6,050
	2.45	6,050	5,950	5,950	5,650	5,550	5,850*
	2.65	—	—	—	5,200*	5,550*	5,500*
W	2.25	3,250	3,250	3,250	3,300	3,300	3,300
	2.45	3,200	3,200	3,200	3,150	3,150	3,150*
	2.65	—	—	—	3,050*	3,050*	3,050*
X	2.25	8,350	8,250	8,250	8,250	8,150	8,150
	2.45	8,350	8,300	8,300	8,300	8,200	8,500*
	2.65	—	—	—	8,200	8,550*	8,500*

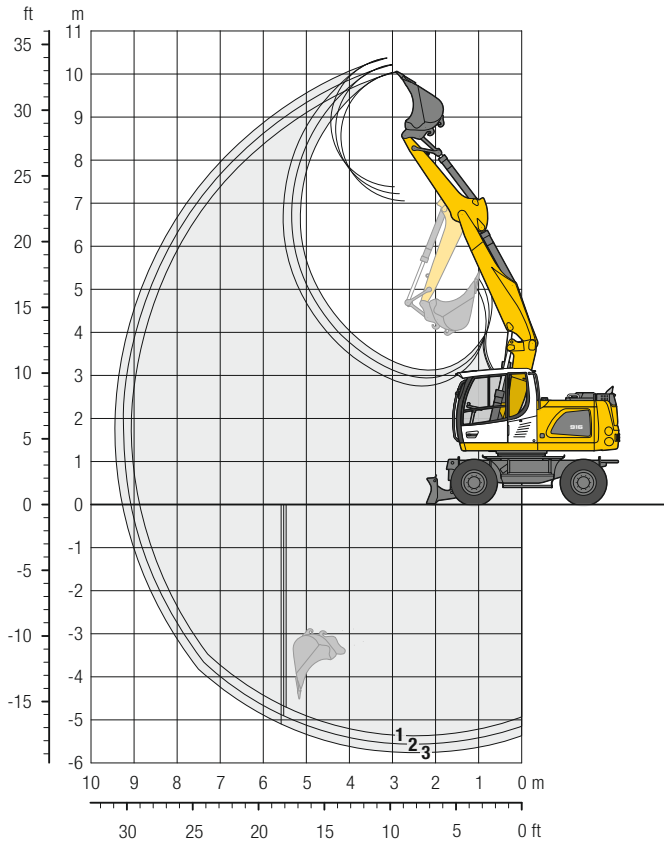
Dimensions are with attachment over steering axle

* Attachment over digging axle for shorter transport dimensions

W = Max. ground clearance including approx. 150 mm piping

Backhoe Bucket

with Two-Piece Boom 5.05 m



Digging Envelope

with quick coupler		1	2	3
Stick length	m	2.25	2.45	2.65
Max. digging depth	m	5.40	5.60	5.80
Max. reach at ground level	m	8.90	9.10	9.30
Max. dumping height	m	7.05	7.20	7.40
Max. teeth height	m	10.05	10.20	10.40
Min. attachment radius	m	2.61	2.68	2.75

Digging Forces

without quick coupler		1	2	3
Max. digging force (ISO 6015)	kN	70.2	65.7	61.8
	t	7.2	6.7	6.3
Max. breakout force (ISO 6015)	kN	86.2	86.2	86.2
	t	8.8	8.8	8.8

Max. breakout force with ripper bucket

114.0 kN (11.6 t)

Operating Weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, two-piece boom 5.05 m, stick 2.45 m, quick coupler SWA 33 and bucket 850 mm/0.60 m³.

Undercarriage versions	Weight (kg)
A 916 Litronic with stabilizer blade	16,700
A 916 Litronic with stabilizer blade + 2 pt. outriggers	17,600
A 916 Litronic with 4 pt. outriggers	17,800
A 916 EW Litronic with stabilizer blade	16,800
A 916 EW Litronic with stabilizer blade + 2 pt. outriggers	17,800

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

Cutting width mm	Capacity ISO 7451 ¹⁾ m ³	Weight kg	Stabilizers raised			Stabilizer blade down			Stabilizer blade + 2 pt. outriggers down			4 point outriggers down			EW Stabilizers raised			EW Stabilizer blade down			EW Stabilizer blade + 2 pt. outriggers down		
			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)		
			2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65
300 ²⁾	0.17	220	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400 ²⁾	0.24	250	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
500 ²⁾	0.30	290	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
650 ²⁾	0.42	350	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
850 ²⁾	0.60	400	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050 ²⁾	0.80	480	■	■	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,250 ²⁾	0.95	530	△	△	—	■	△	△	■	■	△	■	■	△	■	△	△	■	■	△	■	■	△
500 ³⁾	0.30	310	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
650 ³⁾	0.42	360	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
850 ³⁾	0.60	420	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050 ³⁾	0.80	500	■	△	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,250 ³⁾	0.95	550	△	△	—	■	△	△	■	■	△	■	■	△	■	△	△	■	■	△	■	■	△
500 ⁴⁾	0.32	280	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
650 ⁴⁾	0.45	330	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
850 ⁴⁾	0.65	380	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050 ⁴⁾	0.85	460	■	△	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,250 ⁴⁾	1.05	500	△	—	—	△	△	△	■	■	△	■	■	△	△	△	△	■	■	△	■	■	△

* 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 ³⁾ Bucket with teeth in HD-version ⁴⁾ 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 5.05 m

Stick 2.25 m

m	Undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	m
7.5	Stabilizers raised		3.0* 3.0*			2.0* 2.0*
	Stabilizer blade down		3.0* 3.0*			2.0* 2.0*
	Blade + 2 pt. outr. down		3.0* 3.0*			2.0* 2.0*
	4 pt. outriggers down		3.0* 3.0*			2.0* 2.0*
6.0	Stabilizers raised		3.8* 3.8*	2.6 2.8*		1.7* 1.7*
	Stabilizer blade down		3.8* 3.8*	2.8* 2.8*		1.7* 1.7*
	Blade + 2 pt. outr. down		3.8* 3.8*	2.8* 2.8*		1.7* 1.7*
	4 pt. outriggers down		3.8* 3.8*	2.8* 2.8*		1.7* 1.7*
4.5	Stabilizers raised	5.0* 5.0*	4.2 4.9*	2.7 4.1*		1.7* 1.7*
	Stabilizer blade down	5.0* 5.0*	4.6 4.9*	2.9 4.1*		1.7* 1.7*
	Blade + 2 pt. outr. down	5.0* 5.0*	4.9* 4.9*	4.1* 4.1*		1.7* 1.7*
	4 pt. outriggers down	5.0* 5.0*	4.9* 4.9*	4.1* 4.1*		1.7* 1.7*
3.0	Stabilizers raised	7.3 10.9*	4.1 6.4	2.6 4.2	1.7 2.4*	1.6 1.7*
	Stabilizer blade down	8.1 10.9*	4.5 6.8*	2.9 5.2*	1.9 2.4*	1.7* 1.7*
	Blade + 2 pt. outr. down	10.9* 10.9*	6.6 6.8*	4.3 5.2*	2.5* 2.5*	1.7* 1.7*
	4 pt. outriggers down	10.9* 10.9*	6.8* 6.8*	5.2 5.2*	2.5* 2.5*	1.7* 1.7*
1.5	Stabilizers raised	7.1 10.8*	4.0 6.3	2.5 4.1	1.6 2.8	1.5 1.8*
	Stabilizer blade down	7.9 10.8*	4.4 7.6*	2.8 5.6*	1.8 3.1*	1.7 1.8*
	Blade + 2 pt. outr. down	10.8* 10.8*	6.5 7.6*	4.2 5.6*	2.9 3.1*	1.8* 1.8*
	4 pt. outriggers down	10.8* 10.8*	7.6* 7.6*	5.2 5.6*	3.1* 3.1*	1.8* 1.8*
0	Stabilizers raised	6.9 11.9*	3.8 6.4	2.4 4.0	1.5 2.5*	1.5 2.1*
	Stabilizer blade down	7.8 11.9*	4.3 7.8*	2.6 5.6*	1.7 2.5*	1.7 2.1*
	Blade + 2 pt. outr. down	12.0* 12.0*	6.5 7.8*	4.1 5.6*	2.5* 2.5*	2.1* 2.1*
	4 pt. outriggers down	12.0* 12.0*	7.8 7.8*	5.1 5.6*	2.5* 2.5*	2.1* 2.1*
-1.5	Stabilizers raised	6.5 12.4	3.6 6.2	2.2 3.8		1.7 2.6*
	Stabilizer blade down	7.4 12.7*	4.0 7.9*	2.5 5.6*		1.9 2.6*
	Blade + 2 pt. outr. down	12.6 12.7*	6.4 7.9*	3.9 5.6*		2.6* 2.6*
	4 pt. outriggers down	12.7* 12.7*	7.9 7.9*	4.9 5.6*		2.6* 2.6*
-3.0	Stabilizers raised	6.3 12.4	3.3 5.9	2.1 3.5*		2.1 3.4*
	Stabilizer blade down	7.2 12.9*	3.7 7.4*	2.4 3.5*		2.4 3.4*
	Blade + 2 pt. outr. down	12.7 12.8*	6.1 7.4*	3.5* 3.5*		3.4* 3.4*
	4 pt. outriggers down	12.8* 12.8*	7.4* 7.4*	3.5* 3.5*		3.4* 3.4*
-4.5	Stabilizers raised					
	Stabilizer blade down					
	Blade + 2 pt. outr. down					
	4 pt. outriggers down					

Stick 2.45 m

m	Undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	m
7.5	Stabilizers raised		3.0* 3.0*			1.8* 1.8*
	Stabilizer blade down		3.0* 3.0*			1.8* 1.8*
	Blade + 2 pt. outr. down		3.0* 3.0*			1.8* 1.8*
	4 pt. outriggers down		3.0* 3.0*			1.8* 1.8*
6.0	Stabilizers raised		3.5* 3.5*	2.6 2.9*		1.6* 1.6*
	Stabilizer blade down		3.5* 3.5*	2.9* 2.9*		1.6* 1.6*
	Blade + 2 pt. outr. down		3.5* 3.5*	2.9* 2.9*		1.6* 1.6*
	4 pt. outriggers down		3.5* 3.5*	2.9* 2.9*		1.6* 1.6*
4.5	Stabilizers raised		4.2 4.4*	2.7 3.8*		1.5* 1.5*
	Stabilizer blade down		4.4* 4.4*	2.9 3.8*		1.5* 1.5*
	Blade + 2 pt. outr. down		4.4* 4.4*	3.8* 3.8*		1.5* 1.5*
	4 pt. outriggers down		4.4* 4.4*	3.8* 3.8*		1.5* 1.5*
3.0	Stabilizers raised	7.3 10.4*	4.1 6.4	2.7 4.2	1.7 2.8*	1.5 1.5*
	Stabilizer blade down	8.1 10.4*	4.5 6.6*	2.9 5.1*	1.9 2.8*	1.5* 1.5*
	Blade + 2 pt. outr. down	10.4* 10.4*	6.5 6.6*	4.3 5.1*	2.8* 2.8*	1.5* 1.5*
	4 pt. outriggers down	10.4* 10.4*	6.6* 6.6*	5.1* 5.1*	2.8* 2.8*	1.5* 1.5*
1.5	Stabilizers raised	7.1 10.7*	4.0 6.3	2.6 4.2	1.6 2.8	1.4 1.6*
	Stabilizer blade down	7.9 10.7*	4.4 7.5*	2.8 5.5*	1.8 3.5*	1.6 1.6*
	Blade + 2 pt. outr. down	10.7* 10.7*	6.4 7.5*	4.3 5.5*	2.9 3.5*	1.6* 1.6*
	4 pt. outriggers down	10.7* 10.7*	7.5* 7.5*	5.1 5.5*	3.5* 3.5*	1.6* 1.6*
0	Stabilizers raised	6.9 11.7*	3.8 6.3	2.4 4.0	1.5 2.7	1.4 1.8*
	Stabilizer blade down	7.8 11.7*	4.3 7.7*	2.7 5.6*	1.7 3.3*	1.6 1.8*
	Blade + 2 pt. outr. down	11.7* 11.7*	6.5 7.7*	4.1 5.6*	2.8 3.3*	1.8* 1.8*
	4 pt. outriggers down	11.7* 11.7*	7.7 7.7*	5.1 5.6*	3.3* 3.3*	1.8* 1.8*
-1.5	Stabilizers raised	6.5 12.3	3.6 6.3	2.2 3.8		1.6 2.3*
	Stabilizer blade down	7.4 12.6*	4.0 7.8*	2.5 5.6*		1.8 2.3*
	Blade + 2 pt. outr. down	12.5 12.6*	6.4 7.9*	3.9 5.6*		2.3* 2.3*
	4 pt. outriggers down	12.6* 12.6*	7.8 7.9*	4.9 5.6*		2.3* 2.3*
-3.0	Stabilizers raised	6.3 12.4	3.3 5.9	2.1 3.7		1.9 3.2*
	Stabilizer blade down	7.2 13.0*	3.7 7.6*	2.4 4.1*		2.2 3.2*
	Blade + 2 pt. outr. down	12.8 13.0*	6.1 7.6*	3.8 4.1*		3.2* 3.2*
	4 pt. outriggers down	13.0* 13.0*	7.6* 7.6*	4.1* 4.1*		3.2* 3.2*
-4.5	Stabilizers raised					
	Stabilizer blade down					
	Blade + 2 pt. outr. down					
	4 pt. outriggers down					

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

The lift capacities on the load lift hook of the Liebherr quick coupler SWA 33 without working tool 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 lift 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 lift hook and a lift capacity chart.

Lift Capacities

with Two-Piece Boom 5.05 m

Stick 2.65 m

m	Undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	m
7.5	Stabilizers raised		3.0*	3.0*		1.6*
	Stabilizer blade down		3.0*	3.0*		1.6*
	Blade + 2 pt. outr. down		3.0*	3.0*		1.6*
	4 pt. outriggers down		3.0*	3.0*		1.6*
6.0	Stabilizers raised		3.3*	3.3*	2.7	1.4*
	Stabilizer blade down		3.3*	3.3*	2.8*	1.4*
	Blade + 2 pt. outr. down		3.3*	3.3*	2.8*	1.4*
	4 pt. outriggers down		3.3*	3.3*	2.8*	1.4*
4.5	Stabilizers raised		3.9*	3.9*	1.7	1.4*
	Stabilizer blade down		3.9*	3.9*	1.9*	1.4*
	Blade + 2 pt. outr. down		3.9*	3.9*	1.9*	1.4*
	4 pt. outriggers down		3.9*	3.9*	1.9*	1.4*
3.0	Stabilizers raised	7.3	9.9*	4.0	6.4	1.4*
	Stabilizer blade down	8.1	9.9*	4.5	6.4*	1.4*
	Blade + 2 pt. outr. down	9.9*	9.9*	6.4*	6.4*	1.4*
	4 pt. outriggers down	9.9*	9.9*	6.4*	6.4*	1.4*
1.5	Stabilizers raised	7.1	10.6*	4.0	6.3	1.3
	Stabilizer blade down	7.8	10.6*	4.4	7.4*	1.5*
	Blade + 2 pt. outr. down	10.6*	10.6*	6.4	7.4*	1.5*
	4 pt. outriggers down	10.6*	10.6*	7.4*	7.4*	1.5*
0	Stabilizers raised	7.0	11.5*	3.8	6.3	1.4
	Stabilizer blade down	7.8	11.5*	4.3	7.7*	1.5*
	Blade + 2 pt. outr. down	11.5*	11.5*	6.4	7.7*	1.6*
	4 pt. outriggers down	11.5*	11.5*	7.7*	7.7*	1.6*
-1.5	Stabilizers raised	6.5	12.2	3.6	6.3	1.5
	Stabilizer blade down	7.4	12.5*	4.0	7.8*	1.7
	Blade + 2 pt. outr. down	12.4	12.5*	6.4	7.8*	2.0*
	4 pt. outriggers down	12.5*	12.5*	7.8	7.8*	2.0*
-3.0	Stabilizers raised	6.3	12.4	3.3	6.0	1.8
	Stabilizer blade down	7.2	13.0*	3.7	7.8*	2.1
	Blade + 2 pt. outr. down	12.8	13.0*	6.1	7.8*	2.8*
	4 pt. outriggers down	13.0*	13.0*	7.8*	7.8*	2.8*
-4.5	Stabilizers raised	6.1	8.5*			4.3
	Stabilizer blade down	7.0	8.5*			4.9
	Blade + 2 pt. outr. down	8.5*	8.5*			6.0*
	4 pt. outriggers down	8.5*	8.5*			6.0*

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

The lift capacities on the load lift hook of the Liebherr quick coupler SWA 33 without working tool 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 lift 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 lift hook and a lift capacity chart.

Lift Capacities

with Two-Piece Boom 5.05 m, EW-Undercarriage

Stick 2.25 m

m	Undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	Stick 2.25 m	m
7.5	Stabilizers raised Stabilizer blade down Blade + 2 pt. outr. down		3.0* 3.0*			2.0* 2.0*	5.1
6.0	Stabilizers raised Stabilizer blade down Blade + 2 pt. outr. down		3.8* 3.8*	2.8* 2.8*		1.7* 1.7*	6.5
4.5	Stabilizers raised Stabilizer blade down Blade + 2 pt. outr. down	5.0* 5.0*	4.6 4.9*	2.9 4.1*		1.7* 1.7*	7.3
3.0	Stabilizers raised Stabilizer blade down Blade + 2 pt. outr. down	8.1 10.9*	4.5 4.9	6.5 6.8*	2.9 3.2	1.7* 1.7*	7.7
1.5	Stabilizers raised Stabilizer blade down Blade + 2 pt. outr. down	7.9 10.8*	4.4 4.9	6.4 7.6*	2.8 3.1	1.7 1.8*	7.8
0	Stabilizers raised Stabilizer blade down Blade + 2 pt. outr. down	7.8 11.9*	4.3 4.8	6.4 7.8*	2.6 3.0	1.7 2.1*	7.6
-1.5	Stabilizers raised Stabilizer blade down Blade + 2 pt. outr. down	7.4 12.5	4.0 4.5	6.3 7.9*	2.5 2.8	1.9 2.1	7.0
-3.0	Stabilizers raised Stabilizer blade down Blade + 2 pt. outr. down	7.2 12.5	3.7 4.2	6.0 7.4*	2.4 2.7	2.4 2.7	6.0
-4.5	Stabilizers raised Stabilizer blade down Blade + 2 pt. outr. down						

Stick 2.45 m

m	Undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	Stick 2.45 m	m
7.5	Stabilizers raised Stabilizer blade down Blade + 2 pt. outr. down		3.0* 3.0*			1.8* 1.8*	5.4
6.0	Stabilizers raised Stabilizer blade down Blade + 2 pt. outr. down		3.5* 3.5*	2.9* 2.9*		1.6* 1.6*	6.7
4.5	Stabilizers raised Stabilizer blade down Blade + 2 pt. outr. down		4.4* 4.4*	2.9 3.8*		1.5* 1.5*	7.5
3.0	Stabilizers raised Stabilizer blade down Blade + 2 pt. outr. down	8.1 10.4*	4.5 4.9	6.5 6.6*	2.9 3.2	1.5* 1.5*	7.9
1.5	Stabilizers raised Stabilizer blade down Blade + 2 pt. outr. down	7.9 10.7*	4.4 4.8	6.4 7.5*	2.8 3.1	1.6 1.6*	8.0
0	Stabilizers raised Stabilizer blade down Blade + 2 pt. outr. down	7.8 11.7*	4.3 4.8	6.4 7.7*	2.7 3.0	1.6 1.8*	7.8
-1.5	Stabilizers raised Stabilizer blade down Blade + 2 pt. outr. down	7.4 12.4	4.0 4.5	6.3 7.8*	2.5 2.8	1.8 2.0	7.2
-3.0	Stabilizers raised Stabilizer blade down Blade + 2 pt. outr. down	7.2 12.6	3.7 4.2	6.0 7.6*	2.4 2.7	2.2 2.5	6.3
-4.5	Stabilizers raised Stabilizer blade down Blade + 2 pt. outr. down						

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












The lift capacities on the load lift hook of the Liebherr quick coupler SWA 33 without working tool 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 lift 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 lift hook and a lift capacity chart.

Lift Capacities

with Two-Piece Boom 5.05 m, EW-Undercarriage

Stick 2.65 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m				m
												
7.5	Stabilizers raised			3.0*	3.0*					1.6*	1.6*	5.7
	Stabilizer blade down			3.0*	3.0*					1.6*	1.6*	
	Blade + 2 pt. outr. down			3.0*	3.0*					1.6*	1.6*	
6.0	Stabilizers raised			3.3*	3.3*	2.8*	2.8*			1.4*	1.4*	6.9
	Stabilizer blade down			3.3*	3.3*	2.8*	2.8*			1.4*	1.4*	
	Blade + 2 pt. outr. down			3.3*	3.3*	2.8*	2.8*			1.4*	1.4*	
4.5	Stabilizers raised			3.9*	3.9*	3.0	3.6*	1.9*	1.9*	1.4*	1.4*	7.7
	Stabilizer blade down			3.9*	3.9*	3.2	3.6*	1.9*	1.9*	1.4*	1.4*	
	Blade + 2 pt. outr. down			3.9*	3.9*	3.6*	3.6*	1.9*	1.9*	1.4*	1.4*	
3.0	Stabilizers raised	8.1	9.9*	4.5	6.4*	2.9	4.2	1.9	2.9	1.4*	1.4*	8.1
	Stabilizer blade down	9.0	9.9*	4.9	6.4*	3.2	4.9*	2.1	2.9*	1.4*	1.4*	
	Blade + 2 pt. outr. down	9.9*	9.9*	6.4*	6.4*	4.5	4.9*	2.9*	2.9*	1.4*	1.4*	
1.5	Stabilizers raised	7.8	10.6*	4.4	6.3	2.8	4.2	1.8	2.8	1.5*	1.5*	8.2
	Stabilizer blade down	8.7	10.6*	4.8	7.4*	3.1	5.4*	2.1	3.6*	1.5*	1.5*	
	Blade + 2 pt. outr. down	10.6*	10.6*	6.7	7.4*	4.5	5.4*	3.0	3.6*	1.5*	1.5*	
0	Stabilizers raised	7.8	11.5*	4.3	6.3	2.7	4.1	1.7	2.7	1.5	1.6*	8.0
	Stabilizer blade down	8.7	11.5*	4.8	7.7*	3.0	5.5*	2.0	3.7*	1.6*	1.6*	
	Blade + 2 pt. outr. down	11.5*	11.5*	6.7	7.7*	4.3	5.5*	2.9	3.7*	1.6*	1.6*	
-1.5	Stabilizers raised	7.4	12.3	4.0	6.3	2.5	3.9			1.7	2.0*	7.5
	Stabilizer blade down	8.4	12.5*	4.5	7.8*	2.8	5.6*			1.9	2.0*	
	Blade + 2 pt. outr. down	12.5*	12.5*	6.8	7.8*	4.2	5.6*			2.0*	2.0*	
-3.0	Stabilizers raised	7.2	12.6	3.7	6.0	2.4	3.8			2.0	2.8*	6.5
	Stabilizer blade down	8.3	13.0*	4.2	7.8*	2.7	4.5*			2.3	2.8*	
	Blade + 2 pt. outr. down	13.0*	13.0*	6.5	7.8*	4.0	4.5*			2.8*	2.8*	
-4.5	Stabilizers raised	6.9	8.5*							4.9	6.0*	3.7
	Stabilizer blade down	8.0	8.5*							5.6	6.0*	
	Blade + 2 pt. outr. down	8.5*	8.5*							6.0*	6.0*	

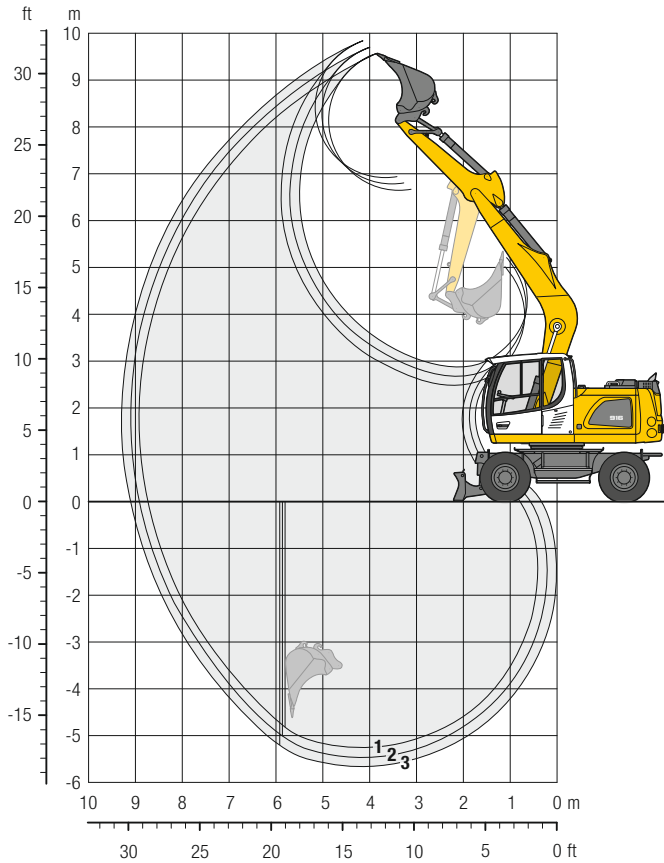
 **Height**  **Can be slewed through 360°**  **In longitudinal position of undercarriage**  **Max. reach** * Limited by hydr. capacity

The lift capacities on the load lift hook of the Liebherr quick coupler SWA 33 without working tool 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 lift 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 lift hook and a lift capacity chart.

Backhoe Bucket

with Mono Boom 5.00 m



Digging Envelope

with quick coupler		1	2	3
Stick length	m	2.25	2.45	2.65
Max. digging depth	m	5.25	5.45	5.65
Max. reach at ground level	m	8.75	8.95	9.15
Max. dumping height	m	6.65	6.80	6.95
Max. teeth height	m	9.55	9.70	9.85
Min. attachment radius	m	2.54	2.58	2.61

Digging Forces

without quick coupler		1	2	3
Max. digging force (ISO 6015)	kN	70.2	65.7	61.8
	t	7.2	6.7	6.3
Max. breakout force (ISO 6015)	kN	86.2	86.2	86.2
	t	8.8	8.8	8.8

Max. breakout force with ripper bucket

114.0 kN (11.6 t)

Operating Weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, mono boom 5.00 m, stick 2.45 m, quick coupler SWA 33 and bucket 850 mm / 0.60 m³.

Undercarriage versions	Weight (kg)
A 916 Litronic with stabilizer blade	16,400
A 916 Litronic with stabilizer blade + 2 pt. outriggers	17,400
A 916 Litronic with 4 pt. outriggers	17,600

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

Cutting width mm	Capacity ISO 7451 ¹⁾ m³	Weight kg	Stabilizers raised			Stabilizer blade down			Stabilizer blade + 2 pt. outriggers down			4 point outriggers down		
			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)		
			2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65
300 ²⁾	0.17	220	■	■	■	■	■	■	■	■	■	■	■	■
400 ²⁾	0.24	250	■	■	■	■	■	■	■	■	■	■	■	■
500 ²⁾	0.30	290	■	■	■	■	■	■	■	■	■	■	■	■
650 ²⁾	0.42	350	■	■	■	■	■	■	■	■	■	■	■	■
850 ²⁾	0.60	400	■	■	■	■	■	■	■	■	■	■	■	■
1,050 ²⁾	0.80	480	■	■	△	■	■	■	■	■	■	■	■	■
1,250 ²⁾	0.95	530	△	△	—	■	△	■	■	■	■	■	■	■
500 ³⁾	0.30	310	■	■	■	■	■	■	■	■	■	■	■	■
650 ³⁾	0.42	360	■	■	■	■	■	■	■	■	■	■	■	■
850 ³⁾	0.60	420	■	■	■	■	■	■	■	■	■	■	■	■
1,050 ³⁾	0.80	500	■	■	△	■	■	■	■	■	■	■	■	■
1,250 ³⁾	0.95	550	△	△	—	■	△	△	■	■	△	■	■	△
500 ⁴⁾	0.32	280	■	■	■	■	■	■	■	■	■	■	■	■
650 ⁴⁾	0.45	330	■	■	■	■	■	■	■	■	■	■	■	■
850 ⁴⁾	0.65	380	■	■	■	■	■	■	■	■	■	■	■	■
1,050 ⁴⁾	0.85	460	■	△	△	■	■	■	■	■	■	■	■	■
1,250 ⁴⁾	1.05	500	△	—	—	△	△	△	■	■	△	■	■	△

* 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 ³⁾ Bucket with teeth in HD-version ⁴⁾ 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 5.00 m

Stick 2.25 m

m	Undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	m
7.5	Stabilizers raised		2.5* 2.5*			1.9* 1.9*
	Stabilizer blade down		2.5* 2.5*			1.9* 1.9*
	Blade + 2 pt. outr. down		2.5* 2.5*			1.9* 1.9*
	4 pt. outriggers down		2.5* 2.5*			1.9* 1.9*
6.0	Stabilizers raised		3.8* 3.8*	2.3* 2.3*		1.7* 1.7*
	Stabilizer blade down		3.8* 3.8*	2.3* 2.3*		1.7* 1.7*
	Blade + 2 pt. outr. down		3.8* 3.8*	2.3* 2.3*		1.7* 1.7*
	4 pt. outriggers down		3.8* 3.8*	2.3* 2.3*		1.7* 1.7*
4.5	Stabilizers raised		4.0 4.6*	2.5 3.9*		1.7* 1.7*
	Stabilizer blade down		4.5 4.6*	2.8 3.9*		1.7* 1.7*
	Blade + 2 pt. outr. down		4.6* 4.6*	3.9* 3.9*		1.7* 1.7*
	4 pt. outriggers down		4.6* 4.6*	3.9* 3.9*		1.7* 1.7*
3.0	Stabilizers raised	6.6 9.3*	3.7 5.9*	2.4 4.0		1.7 1.7*
	Stabilizer blade down	7.5 9.3*	4.1 5.9*	2.7 4.7*		1.7* 1.7*
	Blade + 2 pt. outr. down	9.3* 9.3*	5.9* 5.9*	4.1 4.7*	1.7* 1.7*	1.7* 1.7*
	4 pt. outriggers down	9.3* 9.3*	5.9* 5.9*	4.7* 4.7*	1.7* 1.7*	1.7* 1.7*
1.5	Stabilizers raised	4.0* 4.0*	3.3 5.9	2.2 3.9	1.6 2.4*	1.6 1.9*
	Stabilizer blade down	4.0* 4.0*	3.7 7.1*	2.5 5.2*	1.8 2.4*	1.8 1.9*
	Blade + 2 pt. outr. down	4.0* 4.0*	6.1 7.1*	4.0 5.2*	2.4* 2.4*	1.9* 1.9*
	4 pt. outriggers down	4.0* 4.0*	7.1* 7.1*	5.0 5.2*	2.4* 2.4*	1.9* 1.9*
0	Stabilizers raised	5.3* 5.3*	3.1 5.7	2.1 3.7		1.6 2.2*
	Stabilizer blade down	5.3* 5.3*	3.5 7.7*	2.4 5.6*		1.8 2.2*
	Blade + 2 pt. outr. down	5.3* 5.3*	5.8 7.7*	3.8 5.6*		2.2* 2.2*
	4 pt. outriggers down	5.3* 5.3*	7.6 7.7*	4.8 5.6*		2.2* 2.2*
-1.5	Stabilizers raised	5.5 7.9*	3.0 5.6	2.0 3.7		1.7 2.9*
	Stabilizer blade down	6.3 7.9*	3.4 7.5*	2.3 5.5*		2.0 2.9*
	Blade + 2 pt. outr. down	7.9* 7.9*	5.7 7.5*	3.8 5.5*		2.9* 2.9*
	4 pt. outriggers down	7.9* 7.9*	7.5 7.5*	4.8 5.5*		2.9* 2.9*
-3.0	Stabilizers raised	5.6 9.4*	3.1 5.6			2.2 3.9
	Stabilizer blade down	6.5 9.4*	3.5 6.5*			2.5 4.7*
	Blade + 2 pt. outr. down	9.4* 9.4*	5.8 6.5*			4.0 4.7*
	4 pt. outriggers down	9.4* 9.4*	6.5* 6.5*			4.7* 4.7*
-4.5	Stabilizers raised					
	Stabilizer blade down					
	Blade + 2 pt. outr. down					
	4 pt. outriggers down					

Stick 2.45 m

m	Undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	m
7.5	Stabilizers raised		2.6* 2.6*			1.7* 1.7*
	Stabilizer blade down		2.6* 2.6*			1.7* 1.7*
	Blade + 2 pt. outr. down		2.6* 2.6*			1.7* 1.7*
	4 pt. outriggers down		2.6* 2.6*			1.7* 1.7*
6.0	Stabilizers raised			2.5* 2.5*		1.5* 1.5*
	Stabilizer blade down			2.5* 2.5*		1.5* 1.5*
	Blade + 2 pt. outr. down			2.5* 2.5*		1.5* 1.5*
	4 pt. outriggers down			2.5* 2.5*		1.5* 1.5*
4.5	Stabilizers raised		4.1 4.4*	2.5 3.7*		1.5* 1.5*
	Stabilizer blade down		4.4* 4.4*	2.8 3.7*		1.5* 1.5*
	Blade + 2 pt. outr. down		4.4* 4.4*	3.7* 3.7*		1.5* 1.5*
	4 pt. outriggers down		4.4* 4.4*	3.7* 3.7*		1.5* 1.5*
3.0	Stabilizers raised	6.7 8.7*	3.7 5.6*	2.4 4.0	1.6 2.2*	1.5* 1.5*
	Stabilizer blade down	7.6 8.7*	4.1 5.6*	2.7 4.5*	1.9 2.2*	1.5* 1.5*
	Blade + 2 pt. outr. down	8.7* 8.7*	5.6* 5.6*	4.1 4.5*	2.2* 2.2*	1.5* 1.5*
	4 pt. outriggers down	8.7* 8.7*	5.6* 5.6*	4.5* 4.5*	2.2* 2.2*	1.5* 1.5*
1.5	Stabilizers raised	4.7* 4.7*	3.3 5.9	2.2 3.8	1.6 2.8	1.5 1.7*
	Stabilizer blade down	4.7* 4.7*	3.7 6.9*	2.5 5.1*	1.8 2.9*	1.7 1.7*
	Blade + 2 pt. outr. down	4.7* 4.7*	6.1 6.9*	4.0 5.1*	2.8 2.9*	1.7* 1.7*
	4 pt. outriggers down	4.7* 4.7*	6.9* 6.9*	5.0 5.1*	2.9* 2.9*	1.7* 1.7*
0	Stabilizers raised	5.3* 5.3*	3.1 5.6	2.1 3.7	1.5 2.4*	1.5 2.0*
	Stabilizer blade down	5.3* 5.3*	3.5 7.6*	2.3 5.5*	1.7 2.4*	1.7 2.0*
	Blade + 2 pt. outr. down	5.3* 5.3*	5.8 7.6*	3.8 5.5*	2.4* 2.4*	2.0* 2.0*
	4 pt. outriggers down	5.3* 5.3*	7.5 7.6*	4.8 5.5*	2.4* 2.4*	2.0* 2.0*
-1.5	Stabilizers raised	5.4 7.6*	3.0 5.5	2.0 3.6		1.6 2.5*
	Stabilizer blade down	6.3 7.6*	3.4 7.5*	2.3 5.5*		1.8 2.5*
	Blade + 2 pt. outr. down	7.6* 7.6*	5.7 7.5*	3.7 5.5*		2.5* 2.5*
	4 pt. outriggers down	7.6* 7.6*	7.4 7.5*	4.7 5.5*		2.5* 2.5*
-3.0	Stabilizers raised	5.5 9.7*	3.0 5.6	2.0 3.7		2.0 3.6
	Stabilizer blade down	6.4 9.7*	3.4 6.7*	2.3 4.6*		2.3 3.9*
	Blade + 2 pt. outr. down	9.7* 9.7*	5.7 6.7*	3.8 4.6*		3.7 3.9*
	4 pt. outriggers down	9.7* 9.7*	6.7* 6.7*	4.6* 4.6*		3.9* 3.9*
-4.5	Stabilizers raised					
	Stabilizer blade down					
	Blade + 2 pt. outr. down					
	4 pt. outriggers down					

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

The lift capacities on the load lift hook of the Liebherr quick coupler SWA 33 without working tool 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 lift 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 lift hook and a lift capacity chart.

Lift Capacities

with Mono Boom 5.00 m

Stick 2.65 m

m	Undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	Max. reach	m
7.5	Stabilizers raised					1.6*	1.6*
	Stabilizer blade down					1.6*	1.6*
	Blade + 2 pt. outr. down					1.6*	1.6*
	4 pt. outriggers down					1.6*	1.6*
6.0	Stabilizers raised			2.6*	2.6*	1.4*	1.4*
	Stabilizer blade down			2.6*	2.6*	1.4*	1.4*
	Blade + 2 pt. outr. down			2.6*	2.6*	1.4*	1.4*
	4 pt. outriggers down			2.6*	2.6*	1.4*	1.4*
4.5	Stabilizers raised		4.0*	4.0*	2.6	3.5*	1.4*
	Stabilizer blade down		4.0*	4.0*	2.8	3.5*	1.4*
	Blade + 2 pt. outr. down		4.0*	4.0*	3.5*	3.5*	1.4*
	4 pt. outriggers down		4.0*	4.0*	3.5*	3.5*	1.4*
3.0	Stabilizers raised	6.9	8.1*	3.7	5.4*	2.4	4.1
	Stabilizer blade down	7.8	8.1*	4.2	5.4*	2.7	4.4*
	Blade + 2 pt. outr. down	8.1*	8.1*	5.4*	5.4*	4.2	4.4*
	4 pt. outriggers down	8.1*	8.1*	5.4*	5.4*	4.4*	4.4*
1.5	Stabilizers raised	5.5*	5.5*	3.3	5.9	2.2	3.8
	Stabilizer blade down	5.5*	5.5*	3.7	6.7*	2.5	5.0*
	Blade + 2 pt. outr. down	5.5*	5.5*	6.1	6.7*	3.9	5.0*
	4 pt. outriggers down	5.5*	5.5*	6.7*	6.7*	5.0	5.0*
0	Stabilizers raised	5.4*	5.4*	3.0	5.6	2.1	3.7
	Stabilizer blade down	5.4*	5.4*	3.5	7.5*	2.3	5.4*
	Blade + 2 pt. outr. down	5.4*	5.4*	5.8	7.5*	3.8	5.4*
	4 pt. outriggers down	5.4*	5.4*	7.5	7.5*	4.8	5.4*
-1.5	Stabilizers raised	5.4	7.3*	2.9	5.5	2.0	3.6
	Stabilizer blade down	6.2	7.3*	3.4	7.6*	2.3	5.5*
	Blade + 2 pt. outr. down	7.3*	7.3*	5.7	7.6*	3.7	5.5*
	4 pt. outriggers down	7.3*	7.3*	7.4	7.6*	4.7	5.5*
-3.0	Stabilizers raised	5.5	10.0*	3.0	5.5	2.0	3.6
	Stabilizer blade down	6.3	10.0*	3.4	6.8*	2.3	4.8*
	Blade + 2 pt. outr. down	10.0*	10.0*	5.7	6.8*	3.7	4.8*
	4 pt. outriggers down	10.0*	10.0*	6.8*	6.8*	4.7	4.8*
-4.5	Stabilizers raised			3.1	4.7*		
	Stabilizer blade down			3.6	4.7*		
	Blade + 2 pt. outr. down			4.7*	4.7*		
	4 pt. outriggers down			4.7*	4.7*		

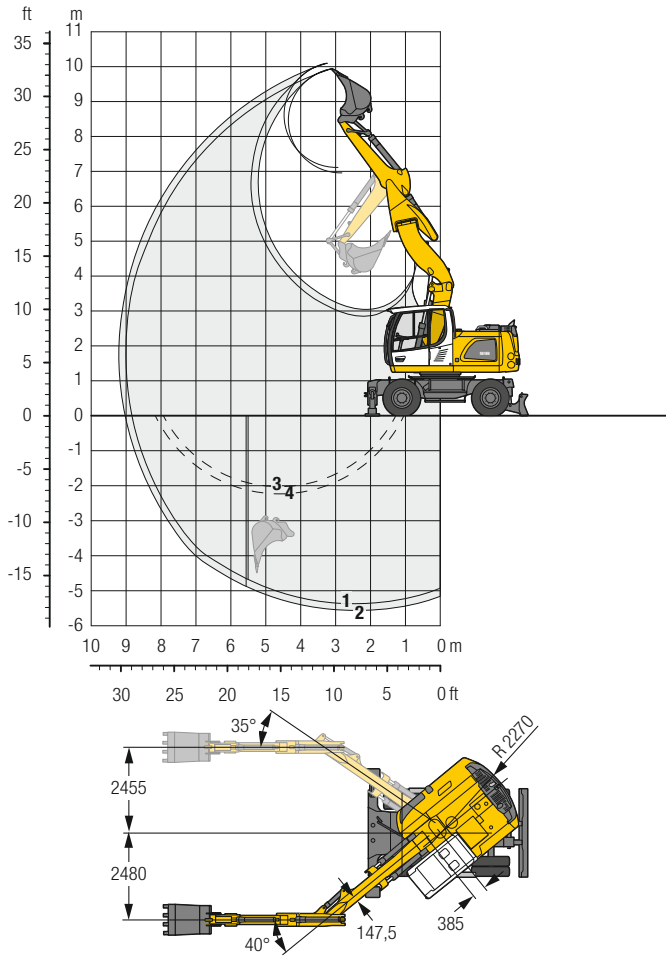
 **Height**
 **Can be slewed through 360°**
 **In longitudinal position of undercarriage**
 **Max. reach**
*** Limited by hydr. capacity**

The lift capacities on the load lift hook of the Liebherr quick coupler SWA 33 without working tool 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 lift 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 lift hook and a lift capacity chart.

Backhoe Bucket

with Offset Two-Piece Boom 5.00 m



Digging Envelope

with quick coupler	1	2
Stick length	m 2.25	2.45
Max. digging depth	m 5.40	5.60
Max. reach at ground level	m 8.85	9.05
Max. dumping height	m 6.95	7.10
Max. teeth height	m 9.95	10.10
Min. attachment radius	m 2.60	2.66

1 with stick 2.25 m

2 with stick 2.45 m

with set straight boom

3 with stick 2.25 m

4 with stick 2.45 m

at max. attachment offset
with vertical ditch walls

Digging Forces

without quick coupler	1	2
Max. digging force (ISO 6015)	kN 70.2	65.7
	t 7.2	6.7
Max. breakout force (ISO 6015)	kN 86.2	86.2
	t 8.8	8.8

Max. breakout force with ripper bucket

114.0 kN (11.6 t)

Operating Weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, offset two-piece boom 5.00 m, stick 2.45 m, quick coupler SWA 33 and bucket 850 mm/0.60 m³.

Undercarriage versions	Weight (kg)
A 916 Litronic with stabilizer blade	17,300
A 916 Litronic with stabilizer blade + 2 pt. outriggers	18,200
A 916 Litronic with 4 pt. outriggers	18,400
A 916 EW Litronic with stabilizer blade	17,400
A 916 EW Litronic with stabilizer blade + 2 pt. outriggers	18,400

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

Cutting width mm	Capacity ISO 7451 ¹⁾ m³	Weight kg	Stabilizers raised		Stabilizer blade down		Stabilizer blade + 2 pt. outriggers down		4 point outriggers down		EW Stabilizers raised		EW Stabilizer blade down		EW Stabilizer blade + 2 pt. outriggers down	
			Stick length (m)		Stick length (m)		Stick length (m)		Stick length (m)		Stick length (m)		Stick length (m)		Stick length (m)	
400 ²⁾	0.24	250	■	■	■	■	■	■	■	■	■	■	■	■	■	■
500 ²⁾	0.30	290	■	■	■	■	■	■	■	■	■	■	■	■	■	■
650 ²⁾	0.42	350	■	■	■	■	■	■	■	■	■	■	■	■	■	■
850 ²⁾	0.60	400	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050 ²⁾	0.80	480	△	△	■	■	■	■	■	■	■	■	■	■	■	■
1,250 ²⁾	0.95	530	—	—	△	△	■	■	■	■	△	△	■	■	■	■
850 ³⁾	0.60	420	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050 ³⁾	0.80	500	△	△	■	■	■	■	■	■	■	■	■	■	■	■
1,250 ³⁾	0.95	550	—	—	△	△	■	■	■	■	△	△	■	■	■	■
850 ⁴⁾	0.65	380	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050 ⁴⁾	0.85	460	△	△	■	△	■	■	■	■	■	△	■	■	■	■
1,250 ⁴⁾	1.05	500	—	—	△	—	■	△	■	△	△	—	■	△	■	△

* 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 ³⁾ Bucket with teeth in HD-version ⁴⁾ 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 Offset Two-Piece Boom 5.00 m

Stick 2.25 m

m	Undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	m
7.5	Stabilizers raised		2.8* 2.8*			1.8* 1.8*
	Stabilizer blade down		2.8* 2.8*			1.8* 1.8*
	Blade + 2 pt. outr. down		2.8* 2.8*			1.8* 1.8*
	4 pt. outriggers down		2.8* 2.8*			1.8* 1.8*
6.0	Stabilizers raised		3.8* 3.8*	2.5 2.6*		1.6* 1.6*
	Stabilizer blade down		3.8* 3.8*	2.6* 2.6*		1.6* 1.6*
	Blade + 2 pt. outr. down		3.8* 3.8*	2.6* 2.6*		1.6* 1.6*
	4 pt. outriggers down		3.8* 3.8*	2.6* 2.6*		1.6* 1.6*
4.5	Stabilizers raised	5.1* 5.1*	4.1 4.9*	2.6 4.0*		1.5* 1.5*
	Stabilizer blade down	5.1* 5.1*	4.6 4.9*	2.8 4.0*		1.5* 1.5*
	Blade + 2 pt. outr. down	5.1* 5.1*	4.9* 4.9*	4.0* 4.0*		1.5* 1.5*
	4 pt. outriggers down	5.1* 5.1*	4.9* 4.9*	4.0* 4.0*		1.5* 1.5*
3.0	Stabilizers raised	7.2 10.3*	4.0 6.3	2.5 4.1	1.5 2.1*	1.4 1.6*
	Stabilizer blade down	7.9 10.3*	4.4 6.5*	2.8 5.0*	1.7 2.1*	1.6* 1.6*
	Blade + 2 pt. outr. down	10.3* 10.3*	6.4 6.5*	4.2 5.0*	2.1* 2.1*	1.6* 1.6*
	4 pt. outriggers down	10.3* 10.3*	6.5* 6.5*	5.0* 5.0*	2.1* 2.1*	1.6* 1.6*
1.5	Stabilizers raised	6.9 10.5*	3.9 6.1	2.4 4.0	1.4 2.6	1.3 1.7*
	Stabilizer blade down	7.7 10.5*	4.3 7.2*	2.7 5.3*	1.6 2.8*	1.5 1.7*
	Blade + 2 pt. outr. down	10.5* 10.5*	6.3 7.2*	4.1 5.3*	2.7 2.8*	1.7* 1.7*
	4 pt. outriggers down	10.5* 10.5*	7.2* 7.2*	5.0 5.3*	2.8* 2.8*	1.7* 1.7*
0	Stabilizers raised	6.8 11.6*	3.7 6.2	2.2 3.8	1.3 2.0*	1.3 1.9*
	Stabilizer blade down	7.7 11.6*	4.2 7.4*	2.5 5.3*	1.6 2.0*	1.5 1.9*
	Blade + 2 pt. outr. down	11.6* 11.6*	6.3 7.4*	3.9 5.3*	2.0* 2.0*	1.9* 1.9*
	4 pt. outriggers down	11.6* 11.6*	7.4* 7.4*	5.0 5.3*	2.0* 2.0*	1.9* 1.9*
-1.5	Stabilizers raised	6.3 12.0	3.4 6.1	2.0 3.6		1.5 2.4*
	Stabilizer blade down	7.2 12.2*	3.9 7.6*	2.3 5.3*		1.7 2.4*
	Blade + 2 pt. outr. down	12.2 12.2*	6.2 7.6*	3.7 5.3*		2.4* 2.4*
	4 pt. outriggers down	12.2* 12.2*	7.6* 7.6*	4.8 5.3*		2.4* 2.4*
-3.0	Stabilizers raised	6.0 12.1	3.1 5.7			1.9 3.3*
	Stabilizer blade down	6.9 12.4*	3.5 7.0*			2.2 3.3*
	Blade + 2 pt. outr. down	12.4 12.4*	5.9 7.0*			3.3* 3.3*
	4 pt. outriggers down	12.4* 12.4*	7.0* 7.0*			3.3* 3.3*
-4.5	Stabilizers raised					
	Stabilizer blade down					
	Blade + 2 pt. outr. down					
	4 pt. outriggers down					

Stick 2.45 m

m	Undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	m
7.5	Stabilizers raised		2.9* 2.9*			1.6* 1.6*
	Stabilizer blade down		2.9* 2.9*			1.6* 1.6*
	Blade + 2 pt. outr. down		2.9* 2.9*			1.6* 1.6*
	4 pt. outriggers down		2.9* 2.9*			1.6* 1.6*
6.0	Stabilizers raised		3.5* 3.5*	2.5 2.7*		1.4* 1.4*
	Stabilizer blade down		3.5* 3.5*	2.7* 2.7*		1.4* 1.4*
	Blade + 2 pt. outr. down		3.5* 3.5*	2.7* 2.7*		1.4* 1.4*
	4 pt. outriggers down		3.5* 3.5*	2.7* 2.7*		1.4* 1.4*
4.5	Stabilizers raised		4.2 4.4*	2.6 3.8*		1.4* 1.4*
	Stabilizer blade down		4.4* 4.4*	2.9 3.8*		1.4* 1.4*
	Blade + 2 pt. outr. down		4.4* 4.4*	3.8* 3.8*		1.4* 1.4*
	4 pt. outriggers down		4.4* 4.4*	3.8* 3.8*		1.4* 1.4*
3.0	Stabilizers raised	7.2 9.8*	4.0 6.3	2.6 4.1	1.5 2.5*	1.4 1.4*
	Stabilizer blade down	7.9 9.8*	4.4 6.3*	2.8 4.9*	1.7 2.5*	1.4* 1.4*
	Blade + 2 pt. outr. down	9.8* 9.8*	6.3* 6.3*	4.2 4.9*	2.5* 2.5*	1.4* 1.4*
	4 pt. outriggers down	9.8* 9.8*	6.3* 6.3*	4.9* 4.9*	2.5* 2.5*	1.4* 1.4*
1.5	Stabilizers raised	6.9 10.4*	3.9 6.1	2.4 4.1	1.5 2.6	1.3 1.5*
	Stabilizer blade down	7.7 10.4*	4.3 7.1*	2.7 5.2*	1.7 3.2*	1.5 1.5*
	Blade + 2 pt. outr. down	10.4* 10.4*	6.2 7.1*	4.1 5.2*	2.7 3.2*	1.5* 1.5*
	4 pt. outriggers down	10.4* 10.4*	7.1* 7.1*	5.0 5.2*	3.2* 3.2*	1.5* 1.5*
0	Stabilizers raised	6.8 11.3*	3.7 6.2	2.2 3.9	1.4 2.5	1.3 1.7*
	Stabilizer blade down	7.7 11.3*	4.2 7.3*	2.5 5.3*	1.6 2.9*	1.5 1.7*
	Blade + 2 pt. outr. down	11.3* 11.3*	6.3 7.3*	4.0 5.3*	2.6 2.9*	1.7* 1.7*
	4 pt. outriggers down	11.3* 11.3*	7.3* 7.3*	5.0 5.3*	2.9* 2.9*	1.7* 1.7*
-1.5	Stabilizers raised	6.3 11.9	3.5 6.1	2.0 3.7		1.4 2.1*
	Stabilizer blade down	7.2 12.1*	3.9 7.5*	2.3 5.4*		1.6 2.1*
	Blade + 2 pt. outr. down	12.0 12.1*	6.3 7.5*	3.8 5.4*		2.1* 2.1*
	4 pt. outriggers down	12.1* 12.1*	7.5* 7.5*	4.8 5.4*		2.1* 2.1*
-3.0	Stabilizers raised	6.1 12.2	3.1 5.7	1.9 3.5		1.8 3.1*
	Stabilizer blade down	6.9 12.6*	3.5 7.3*	2.1 3.8*		2.0 3.1*
	Blade + 2 pt. outr. down	12.5 12.6*	5.9 7.3*	3.6 3.8*		3.1* 3.1*
	4 pt. outriggers down	12.6* 12.6*	7.3* 7.3*	3.8* 3.8*		3.1* 3.1*
-4.5	Stabilizers raised					
	Stabilizer blade down					
	Blade + 2 pt. outr. down					
	4 pt. outriggers down					

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

The lift capacities on the load lift hook of the Liebherr quick coupler SWA 33 without working tool 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 lift 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 lift hook and a lift capacity chart.

Lift Capacities

with Offset Two-Piece Boom 5.00 m, EW-Undercarriage

Stick 2.25 m

m	Undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	Max. reach	m
7.5	Stabilizers raised		2.8*	2.8*		1.8*	5.0
	Stabilizer blade down		2.8*	2.8*		1.8*	
	Blade + 2 pt. outr. down		2.8*	2.8*		1.8*	
6.0	Stabilizers raised		3.8*	3.8*	2.6*	1.6*	6.4
	Stabilizer blade down		3.8*	3.8*	2.6*	1.6*	
	Blade + 2 pt. outr. down		3.8*	3.8*	2.6*	1.6*	
4.5	Stabilizers raised	5.1*	5.1*	4.6	4.9*	1.5*	7.2
	Stabilizer blade down	5.1*	5.1*	4.9	4.9*	1.5*	
	Blade + 2 pt. outr. down	5.1*	5.1*	4.9*	4.9*	1.5*	
3.0	Stabilizers raised	7.9	10.3*	4.4	6.3	1.6*	7.6
	Stabilizer blade down	8.7	10.3*	4.8	6.5*	1.6*	
	Blade + 2 pt. outr. down	10.3*	10.3*	6.5*	6.5*	1.6*	
1.5	Stabilizers raised	7.7	10.5*	4.3*	6.2	1.5	7.7
	Stabilizer blade down	8.5	10.5*	4.7	7.2*	1.7*	
	Blade + 2 pt. outr. down	10.5*	10.5*	6.5	7.2*	1.7*	
0	Stabilizers raised	7.7	11.6*	4.2	6.3	1.5	7.5
	Stabilizer blade down	8.7	11.6*	4.7	7.4*	1.8	
	Blade + 2 pt. outr. down	11.6*	11.6*	6.6	7.4*	1.9*	
-1.5	Stabilizers raised	7.2	12.1	3.8	6.1	1.7	7.0
	Stabilizer blade down	8.2	12.2*	4.3	7.6*	2.0	
	Blade + 2 pt. outr. down	12.2*	12.2*	6.6	7.6*	2.4*	
-3.0	Stabilizers raised	6.9	12.2	3.5	5.8	2.2	6.0
	Stabilizer blade down	7.9	12.4*	4.0	7.0*	2.5	
	Blade + 2 pt. outr. down	12.4*	12.4*	6.3	7.0*	3.3*	
-4.5	Stabilizers raised						
	Stabilizer blade down						
	Blade + 2 pt. outr. down						

Stick 2.45 m

m	Undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	Max. reach	m
7.5	Stabilizers raised		2.9*	2.9*		1.6*	5.3
	Stabilizer blade down		2.9*	2.9*		1.6*	
	Blade + 2 pt. outr. down		2.9*	2.9*		1.6*	
6.0	Stabilizers raised		3.5*	3.5*	2.7*	1.4*	6.6
	Stabilizer blade down		3.5*	3.5*	2.7*	1.4*	
	Blade + 2 pt. outr. down		3.5*	3.5*	2.7*	1.4*	
4.5	Stabilizers raised		4.4*	4.4*	2.9	1.4*	7.4
	Stabilizer blade down		4.4*	4.4*	3.2	1.4*	
	Blade + 2 pt. outr. down		4.4*	4.4*	3.8*	1.4*	
3.0	Stabilizers raised	7.9	9.8*	4.4	6.3*	1.4*	7.8
	Stabilizer blade down	8.8	9.8*	4.8	6.3*	1.4*	
	Blade + 2 pt. outr. down	9.8*	9.8*	6.3*	6.3*	1.4*	
1.5	Stabilizers raised	7.6	10.4*	4.3	6.2	1.5	7.9
	Stabilizer blade down	8.5	10.4*	4.7	7.1*	1.5*	
	Blade + 2 pt. outr. down	10.4*	10.4*	6.5	7.1*	1.5*	
0	Stabilizers raised	7.7	11.3*	4.2	6.2	1.5	7.7
	Stabilizer blade down	8.6	11.3*	4.7	7.3*	1.7	
	Blade + 2 pt. outr. down	11.3*	11.3*	6.6	7.3*	1.7*	
-1.5	Stabilizers raised	7.2	12.0	3.9	6.2	1.6	7.2
	Stabilizer blade down	8.2	12.1*	4.4	7.5*	1.9	
	Blade + 2 pt. outr. down	12.1*	12.1*	6.7	7.5*	2.1*	
-3.0	Stabilizers raised	6.9	12.3	3.5	5.8	2.0	6.2
	Stabilizer blade down	8.0	12.6*	4.0	7.3*	2.3	
	Blade + 2 pt. outr. down	12.6*	12.6*	6.3	7.3*	3.1*	
-4.5	Stabilizers raised						
	Stabilizer blade down						
	Blade + 2 pt. outr. down						

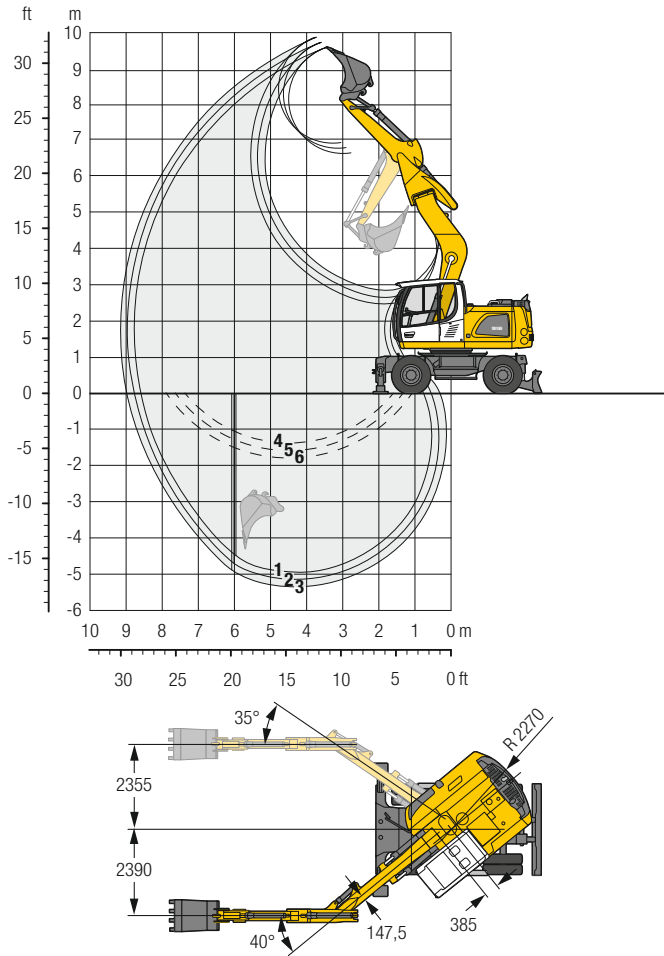
 **Height**  **Can be slewed through 360°**  **In longitudinal position of undercarriage**  **Max. reach** * **Limited by hydr. capacity**

The lift capacities on the load lift hook of the Liebherr quick coupler SWA 33 without working tool 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 lift 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 lift hook and a lift capacity chart.

Backhoe Bucket

with Offset Mono Boom 4.90 m



Digging Envelope

with quick coupler	1	2	3
Stick length	m 2.25	2.45	2.65
Max. digging depth	m 4.95	5.15	5.35
Max. reach at ground level	m 8.60	8.80	9.00
Max. dumping height	m 6.65	6.80	6.95
Max. teeth height	m 9.60	9.75	9.85
Min. attachment radius	m 2.25	2.28	2.32

- 1 with stick 2.25 m
2 with stick 2.45 m
3 with stick 2.65 m
with set straight boom
- 4 with stick 2.25 m
5 with stick 2.45 m
6 with stick 2.65 m
at max. attachment offset
with vertical ditch walls

Digging Forces

without quick coupler	1	2	3
Max. digging force (ISO 6015)	kN 70.2	65.7	61.8
	t 7.2	6.7	6.3
Max. breakout force (ISO 6015)	kN 86.2	86.2	86.2
	t 8.8	8.8	8.8

Max. breakout force with ripper bucket

114.0 kN (11.6 t)

Operating Weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, offset mono boom 4.90 m, stick 2.45 m, quick coupler SWA 33 and bucket 850 mm/0.60 m³.

Undercarriage versions	Weight (kg)
A 916 Litronic with stabilizer blade	16,900
A 916 Litronic with stabilizer blade + 2 pt. outriggers	17,800
A 916 Litronic with 4 pt. outriggers	18,000
A 916 EW Litronic with stabilizer blade	17,000
A 916 EW Litronic with stabilizer blade + 2 pt. outriggers	18,000

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

Cutting width mm	Capacity ISO 7451 ¹⁾ m ³	Weight kg	Stabilizers raised			Stabilizer blade down			Stabilizer blade + 2 pt. outriggers down			4 point outriggers down			EW Stabilizers raised			EW Stabilizer blade down			EW Stabilizer blade + 2 pt. outriggers down		
			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)		
			2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65
400 ²⁾	0.24	250	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
500 ²⁾	0.30	290	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
650 ²⁾	0.42	350	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
850 ²⁾	0.60	400	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050 ²⁾	0.80	480	■	△	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,250 ²⁾	0.95	530	△	—	—	△	■	△	■	■	△	■	■	△	△	■	△	■	■	△	■	■	△
850 ³⁾	0.60	420	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050 ³⁾	0.80	500	△	△	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,250 ³⁾	0.95	550	△	—	—	△	■	△	■	■	△	■	■	△	△	■	△	■	■	△	■	■	△
850 ⁴⁾	0.65	380	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050 ⁴⁾	0.85	460	△	△	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,250 ⁴⁾	1.05	500	—	—	—	△	△	△	■	△	△	■	△	△	△	△	△	■	△	△	■	△	△

* 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 ³⁾ Bucket with teeth in HD-version ⁴⁾ 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 Offset Mono Boom 4.90 m

Stick 2.25 m

m	Undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	m
7.5	Stabilizers raised		1.8* 1.8*			1.8* 1.8*
	Stabilizer blade down		1.8* 1.8*			1.8* 1.8*
	Blade + 2 pt. outr. down		1.8* 1.8*			1.8* 1.8*
	4 pt. outriggers down		1.8* 1.8*			1.8* 1.8*
6.0	Stabilizers raised		3.6* 3.6*	1.7* 1.7*		1.6* 1.6*
	Stabilizer blade down		3.6* 3.6*	1.7* 1.7*		1.6* 1.6*
	Blade + 2 pt. outr. down		3.6* 3.6*	1.7* 1.7*		1.6* 1.6*
	4 pt. outriggers down		3.6* 3.6*	1.7* 1.7*		1.6* 1.6*
4.5	Stabilizers raised		4.0 4.9*	2.4 3.6*		1.5* 1.5*
	Stabilizer blade down		4.4 4.9*	2.7 3.6*		1.5* 1.5*
	Blade + 2 pt. outr. down		4.9* 4.9*	3.6* 3.6*		1.5* 1.5*
	4 pt. outriggers down		4.9* 4.9*	3.6* 3.6*		1.5* 1.5*
3.0	Stabilizers raised	6.4 9.3*	3.5 6.0*	2.3 3.9		1.6 1.6*
	Stabilizer blade down	7.3 9.3*	4.0 6.0*	2.5 4.7*		1.6* 1.6*
	Blade + 2 pt. outr. down	9.3* 9.3*	6.0* 6.0*	4.0 4.7*		1.6* 1.6*
	4 pt. outriggers down	9.3* 9.3*	6.0* 6.0*	4.7* 4.7*		1.6* 1.6*
1.5	Stabilizers raised	5.2* 5.2*	3.1 5.7	2.1 3.7		1.5 1.8*
	Stabilizer blade down	5.2* 5.2*	3.5 7.0*	2.3 5.2*		1.7 1.8*
	Blade + 2 pt. outr. down	5.2* 5.2*	5.9 7.0*	3.8 5.2*		1.8* 1.8*
	4 pt. outriggers down	5.2* 5.2*	7.0* 7.0*	4.8 5.2*		1.8* 1.8*
0	Stabilizers raised	5.0 6.0*	2.8 5.4	1.9 3.5		1.5 2.1*
	Stabilizer blade down	5.8 6.0*	3.2 7.4*	2.2 5.4*		1.7 2.1*
	Blade + 2 pt. outr. down	6.0* 6.0*	5.6 7.4*	3.6 5.4*		2.1* 2.1*
	4 pt. outriggers down	6.0* 6.0*	7.3 7.4*	4.7 5.4*		2.1* 2.1*
-1.5	Stabilizers raised	5.0 8.6*	2.8 5.3	1.9 3.5		1.6 2.8*
	Stabilizer blade down	5.9 8.6*	3.2 7.1*	2.1 5.1*		1.9 2.8*
	Blade + 2 pt. outr. down	8.6* 8.6*	5.5 7.1*	3.6 5.1*		2.8* 2.8*
	4 pt. outriggers down	8.6* 8.6*	7.1* 7.1*	4.6 5.1*		2.8* 2.8*
-3.0	Stabilizers raised	5.2 8.2*	2.8 5.4			2.1 3.9
	Stabilizer blade down	6.1 8.2*	3.2 5.8*			2.4 4.4*
	Blade + 2 pt. outr. down	8.2* 8.2*	5.6 5.8*			4.0 4.4*
	4 pt. outriggers down	8.2* 8.2*	5.8* 5.8*			4.4* 4.4*
-4.5	Stabilizers raised					
	Stabilizer blade down					
	Blade + 2 pt. outr. down					
	4 pt. outriggers down					

Stick 2.45 m

m	Undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	m
7.5	Stabilizers raised		2.2* 2.2*			1.6* 1.6*
	Stabilizer blade down		2.2* 2.2*			1.6* 1.6*
	Blade + 2 pt. outr. down		2.2* 2.2*			1.6* 1.6*
	4 pt. outriggers down		2.2* 2.2*			1.6* 1.6*
6.0	Stabilizers raised		3.4* 3.4*	2.1* 2.1*		1.4* 1.4*
	Stabilizer blade down		3.4* 3.4*	2.1* 2.1*		1.4* 1.4*
	Blade + 2 pt. outr. down		3.4* 3.4*	2.1* 2.1*		1.4* 1.4*
	4 pt. outriggers down		3.4* 3.4*	2.1* 2.1*		1.4* 1.4*
4.5	Stabilizers raised		4.0 4.4*	2.5 3.5*		1.4* 1.4*
	Stabilizer blade down		4.4* 4.4*	2.7 3.5*		1.4* 1.4*
	Blade + 2 pt. outr. down		4.4* 4.4*	3.5* 3.5*		1.4* 1.4*
	4 pt. outriggers down		4.4* 4.4*	3.5* 3.5*		1.4* 1.4*
3.0	Stabilizers raised	6.6 8.8*	3.6 5.8*	2.3 3.9	1.5 1.6*	1.4* 1.4*
	Stabilizer blade down	7.5 8.8*	4.0 5.8*	2.5 4.6*	1.6* 1.6*	1.4* 1.4*
	Blade + 2 pt. outr. down	8.8* 8.8*	5.8* 5.8*	4.0 4.6*	1.6* 1.6*	1.4* 1.4*
	4 pt. outriggers down	8.8* 8.8*	5.8* 5.8*	4.6* 4.6*	1.6* 1.6*	1.4* 1.4*
1.5	Stabilizers raised	5.3 5.9*	3.1 5.7	2.1 3.7	1.4 2.2*	1.4 1.6*
	Stabilizer blade down	5.9* 5.9*	3.5 6.9*	2.3 5.1*	1.6 2.2*	1.6* 1.6*
	Blade + 2 pt. outr. down	5.9* 5.9*	5.9 6.9*	3.8 5.1*	2.2* 2.2*	1.6* 1.6*
	4 pt. outriggers down	5.9* 5.9*	6.9* 6.9*	4.8 5.1*	2.2* 2.2*	1.6* 1.6*
0	Stabilizers raised	5.0 6.1*	2.8 5.4	1.9 3.5		1.4 1.9*
	Stabilizer blade down	5.8 6.1*	3.2 7.4*	2.2 5.3*		1.6 1.9*
	Blade + 2 pt. outr. down	6.1* 6.1*	5.6 7.4*	3.6 5.3*		1.9* 1.9*
	4 pt. outriggers down	6.1* 6.1*	7.3 7.4*	4.7 5.3*		1.9* 1.9*
-1.5	Stabilizers raised	5.0 8.2*	2.7 5.3	1.8 3.5		1.5 2.4*
	Stabilizer blade down	5.8 8.2*	3.1 7.1*	2.1 5.1*		1.7 2.4*
	Blade + 2 pt. outr. down	8.2* 8.2*	5.4 7.1*	3.6 5.1*		2.4* 2.4*
	4 pt. outriggers down	8.2* 8.2*	7.1* 7.1*	4.6 5.1*		2.4* 2.4*
-3.0	Stabilizers raised	5.1 8.6*	2.8 5.3			1.9 3.6
	Stabilizer blade down	6.0 8.6*	3.2 6.0*			2.2 4.0*
	Blade + 2 pt. outr. down	8.6* 8.6*	5.5 6.0*			3.7 4.0*
	4 pt. outriggers down	8.6* 8.6*	6.0* 6.0*			4.0* 4.0*
-4.5	Stabilizers raised					
	Stabilizer blade down					
	Blade + 2 pt. outr. down					
	4 pt. outriggers down					

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

The lift capacities on the load lift hook of the Liebherr quick coupler SWA 33 without working tool 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 lift 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 lift hook and a lift capacity chart.

Lift Capacities

with Offset Mono Boom 4.90 m

Stick 2.65 m

m	Undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	m
7.5	Stabilizers raised		2.3*	2.3*		1.4*
	Stabilizer blade down		2.3*	2.3*		1.4*
	Blade + 2 pt. outr. down		2.3*	2.3*		1.4*
	4 pt. outriggers down		2.3*	2.3*		1.4*
6.0	Stabilizers raised		3.2*	3.2*	2.2*	1.3*
	Stabilizer blade down		3.2*	3.2*	2.2*	1.3*
	Blade + 2 pt. outr. down		3.2*	3.2*	2.2*	1.3*
	4 pt. outriggers down		3.2*	3.2*	2.2*	1.3*
4.5	Stabilizers raised		4.0*	4.0*	2.5	1.2*
	Stabilizer blade down		4.0*	4.0*	3.3*	1.2*
	Blade + 2 pt. outr. down		4.0*	4.0*	3.3*	1.2*
	4 pt. outriggers down		4.0*	4.0*	3.3*	1.2*
3.0	Stabilizers raised	6.8	8.2*	3.6	5.6*	2.3
	Stabilizer blade down	7.7	8.2*	4.1	5.6*	2.6
	Blade + 2 pt. outr. down	8.2*	8.2*	5.6*	5.6*	4.1
	4 pt. outriggers down	8.2*	8.2*	5.6*	5.6*	4.5*
1.5	Stabilizers raised	5.4	6.8*	3.1	5.8	2.0
	Stabilizer blade down	6.3	6.8*	3.6	6.7*	2.3
	Blade + 2 pt. outr. down	6.8*	6.8*	5.9	6.7*	3.8
	4 pt. outriggers down	6.8*	6.8*	6.7*	6.7*	4.8
0	Stabilizers raised	4.9	6.1*	2.8	5.4	1.9
	Stabilizer blade down	5.8	6.1*	3.2	7.3*	2.1
	Blade + 2 pt. outr. down	6.1*	6.1*	5.5	7.3*	3.6
	4 pt. outriggers down	6.1*	6.1*	7.3	7.3*	4.6
-1.5	Stabilizers raised	4.9	7.9*	2.7	5.2	1.8
	Stabilizer blade down	5.7	7.9*	3.1	7.2*	2.1
	Blade + 2 pt. outr. down	7.9*	7.9*	5.4	7.2*	3.5
	4 pt. outriggers down	7.9*	7.9*	7.1	7.2*	4.5
-3.0	Stabilizers raised	5.0	8.9*	2.7	5.3	1.8
	Stabilizer blade down	5.9	8.9*	3.1	6.2*	2.1
	Blade + 2 pt. outr. down	8.9*	8.9*	5.4	6.2*	3.6
	4 pt. outriggers down	8.9*	8.9*	6.2*	6.2*	4.3*
-4.5	Stabilizers raised					
	Stabilizer blade down					
	Blade + 2 pt. outr. down					
	4 pt. outriggers down					

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

The lift capacities on the load lift hook of the Liebherr quick coupler SWA 33 without working tool 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 lift 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 lift hook and a lift capacity chart.

Lift Capacities

with Offset Mono Boom 4.90 m, EW-Undercarriage

Stick 2.25 m

m	Undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	m
7.5	Stabilizers raised		1.8* 1.8*			1.8* 1.8*
	Stabilizer blade down		1.8* 1.8*			1.8* 1.8*
	Blade + 2 pt. outr. down		1.8* 1.8*			1.8* 1.8*
6.0	Stabilizers raised		3.6* 3.6*	1.7* 1.7*		1.6* 1.6*
	Stabilizer blade down		3.6* 3.6*	1.7* 1.7*		1.6* 1.6*
	Blade + 2 pt. outr. down		3.6* 3.6*	1.7* 1.7*		1.6* 1.6*
4.5	Stabilizers raised		4.4 4.9*	2.7 3.6*		1.5* 1.5*
	Stabilizer blade down		4.9* 4.9*	3.0 3.6*		1.5* 1.5*
	Blade + 2 pt. outr. down		4.9* 4.9*	3.6* 3.6*		1.5* 1.5*
3.0	Stabilizers raised	7.3 9.3*	4.0 6.0*	2.5 4.0		1.6* 1.6*
	Stabilizer blade down	8.4 9.3*	4.5 6.0*	2.8 4.7*		1.6* 1.6*
	Blade + 2 pt. outr. down	9.3* 9.3*	6.0* 6.0*	4.3 4.7*		1.6* 1.6*
1.5	Stabilizers raised	5.2* 5.2*	3.5 5.8	2.3 3.8		1.7 1.8*
	Stabilizer blade down	5.2* 5.2*	4.0 7.0*	2.6 5.2*		1.8* 1.8*
	Blade + 2 pt. outr. down	5.2* 5.2*	6.2 7.0*	4.0 5.2*		1.8* 1.8*
0	Stabilizers raised	5.8 6.0*	3.2 5.5	2.2 3.6		1.7 2.1*
	Stabilizer blade down	6.0* 6.0*	3.7 7.4*	2.5 5.4*		1.9 2.1*
	Blade + 2 pt. outr. down	6.0* 6.0*	5.9 7.4*	3.9 5.4*		2.1* 2.1*
-1.5	Stabilizers raised	5.9 8.6*	3.2 5.4	2.1 3.5		1.9 2.8*
	Stabilizer blade down	6.9 8.6*	3.6 7.1*	2.4 5.1*		2.1 2.8*
	Blade + 2 pt. outr. down	8.6* 8.6*	5.8 7.1*	3.8 5.1*		2.8* 2.8*
-3.0	Stabilizers raised	6.1 8.2*	3.2 5.5			2.4 4.0
	Stabilizer blade down	7.1 8.2*	3.7 5.8*			2.7 4.4*
	Blade + 2 pt. outr. down	8.2* 8.2*	5.8* 5.8*			4.3 4.4*
-4.5	Stabilizers raised					
	Stabilizer blade down					
	Blade + 2 pt. outr. down					

Stick 2.45 m

m	Undercarriage	3.0 m	4.5 m	6.0 m	7.5 m	m
7.5	Stabilizers raised		2.2* 2.2*			1.6* 1.6*
	Stabilizer blade down		2.2* 2.2*			1.6* 1.6*
	Blade + 2 pt. outr. down		2.2* 2.2*			1.6* 1.6*
6.0	Stabilizers raised		3.4* 3.4*	2.1* 2.1*		1.4* 1.4*
	Stabilizer blade down		3.4* 3.4*	2.1* 2.1*		1.4* 1.4*
	Blade + 2 pt. outr. down		3.4* 3.4*	2.1* 2.1*		1.4* 1.4*
4.5	Stabilizers raised		4.4* 4.4*	2.7 3.5*		1.4* 1.4*
	Stabilizer blade down		4.4* 4.4*	3.1 3.5*		1.4* 1.4*
	Blade + 2 pt. outr. down		4.4* 4.4*	3.5* 3.5*		1.4* 1.4*
3.0	Stabilizers raised	7.5 8.8*	4.0 5.8*	2.5 4.0	1.6* 1.6*	1.4* 1.4*
	Stabilizer blade down	8.6 8.8*	4.5 5.8*	2.9 4.6*	1.6* 1.6*	1.4* 1.4*
	Blade + 2 pt. outr. down	8.8* 8.8*	5.8* 5.8*	4.3 4.6*	1.6* 1.6*	1.4* 1.4*
1.5	Stabilizers raised	5.9* 5.9*	3.5 5.8	2.3 3.8	1.6 2.2*	1.6* 1.6*
	Stabilizer blade down	5.9* 5.9*	4.0 6.9*	2.6 5.1*	1.9 2.2*	1.6* 1.6*
	Blade + 2 pt. outr. down	5.9* 5.9*	6.3 6.9*	4.0 5.1*	2.2* 2.2*	1.6* 1.6*
0	Stabilizers raised	5.8 6.1*	3.2 5.5	2.2 3.6		1.6 1.9*
	Stabilizer blade down	6.1* 6.1*	3.7 7.4*	2.5 5.3*		1.8 1.9*
	Blade + 2 pt. outr. down	6.1* 6.1*	5.9 7.4*	3.9 5.3*		1.9* 1.9*
-1.5	Stabilizers raised	5.8 8.2*	3.1 5.3	2.1 3.5		1.7 2.4*
	Stabilizer blade down	6.8 8.2*	3.6 7.1*	2.4 5.1*		2.0 2.4*
	Blade + 2 pt. outr. down	8.2* 8.2*	5.8 7.1*	3.8 5.1*		2.4* 2.4*
-3.0	Stabilizers raised	6.0 8.6*	3.2 5.4			2.2 3.7
	Stabilizer blade down	7.0 8.6*	3.7 6.0*			2.5 4.0*
	Blade + 2 pt. outr. down	8.6* 8.6*	5.9 6.0*			4.0 4.0*
-4.5	Stabilizers raised					
	Stabilizer blade down					
	Blade + 2 pt. outr. down					

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







The lift capacities on the load lift hook of the Liebherr quick coupler SWA 33 without working tool 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 lift 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 lift hook and a lift capacity chart.

Lift Capacities

with Offset Mono Boom 4.90 m, EW-Undercarriage

Stick 2.65 m

												
	m	Undercarriage										m
7.5	Stabilizers raised			2.3*	2.3*					1.4*	1.4*	5.1
	Stabilizer blade down			2.3*	2.3*					1.4*	1.4*	
	Blade + 2 pt. outr. down			2.3*	2.3*					1.4*	1.4*	
6.0	Stabilizers raised			3.2*	3.2*	2.2*	2.2*			1.3*	1.3*	6.5
	Stabilizer blade down			3.2*	3.2*	2.2*	2.2*			1.3*	1.3*	
	Blade + 2 pt. outr. down			3.2*	3.2*	2.2*	2.2*			1.3*	1.3*	
4.5	Stabilizers raised			4.0*	4.0*	2.8	3.3*			1.2*	1.2*	7.3
	Stabilizer blade down			4.0*	4.0*	3.1	3.3*			1.2*	1.2*	
	Blade + 2 pt. outr. down			4.0*	4.0*	3.3*	3.3*			1.2*	1.2*	
3.0	Stabilizers raised	7.7	8.2*	4.0	5.6*	2.6	4.0	1.7	2.0*	1.3*	1.3*	7.7
	Stabilizer blade down	8.2*	8.2*	4.5	5.6*	2.9	4.5*	2.0	2.0*	1.3*	1.3*	
	Blade + 2 pt. outr. down	8.2*	8.2*	5.6*	5.6*	4.3	4.5*	2.0*	2.0*	1.3*	1.3*	
1.5	Stabilizers raised	6.3	6.8*	3.5	5.8	2.3	3.8	1.6	2.6*	1.4*	1.4*	7.8
	Stabilizer blade down	6.8*	6.8*	4.0	6.7*	2.6	5.0*	1.8	2.6*	1.4*	1.4*	
	Blade + 2 pt. outr. down	6.8*	6.8*	6.3	6.7*	4.0	5.0*	2.6*	2.6*	1.4*	1.4*	
0	Stabilizers raised	5.8	6.1*	3.2	5.4	2.1	3.6	1.5	2.2*	1.5	1.7*	7.6
	Stabilizer blade down	6.1*	6.1*	3.7	7.3*	2.5	5.3*	1.8	2.2*	1.7*	1.7*	
	Blade + 2 pt. outr. down	6.1*	6.1*	5.9	7.3*	3.8	5.3*	2.2*	2.2*	1.7*	1.7*	
-1.5	Stabilizers raised	5.7	7.9*	3.1	5.3	2.1	3.5			1.6	2.1*	7.1
	Stabilizer blade down	6.7	7.9*	3.6	7.2*	2.4	5.2*			1.9	2.1*	
	Blade + 2 pt. outr. down	7.9*	7.9*	5.8	7.2*	3.8	5.2*			2.1*	2.1*	
-3.0	Stabilizers raised	5.9	8.9*	3.1	5.4	2.1	3.5			2.1	3.3*	6.1
	Stabilizer blade down	6.9	8.9*	3.6	6.2*	2.4	4.3*			2.4	3.3*	
	Blade + 2 pt. outr. down	8.9*	8.9*	5.8	6.2*	3.8	4.3*			3.3*	3.3*	
-4.5	Stabilizers raised											
	Stabilizer blade down											
	Blade + 2 pt. outr. down											

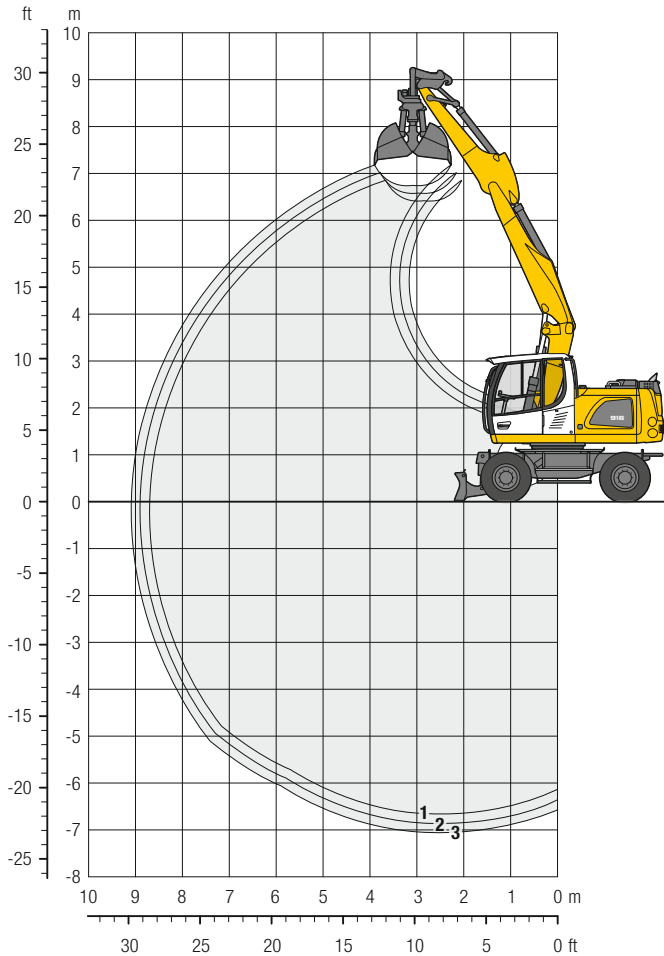
 **Height**  **Can be slewed through 360°**  **In longitudinal position of undercarriage**  **Max. reach** * Limited by hydr. capacity

The lift capacities on the load lift hook of the Liebherr quick coupler SWA 33 without working tool 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 lift 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 lift hook and a lift capacity chart.

Clamshell Grab

with Two-Piece Boom 5.05 m



Digging Envelope

with quick coupler	1	2	3
Stick length	m 2.25	2.45	2.65
Max. digging depth	m 6.70	6.90	7.10
Max. reach at ground level	m 8.70	8.90	9.10
Max. dumping height	m 6.40	6.60	6.75

Clamshell Grab GM 10B

Max. tooth force	73 kN (7.4 t)
Max. torque of hydr. swivel	1.76 kNm

Operating Weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, two-piece boom 5.05 m, stick 2.45 m, quick coupler SWA 33 and clamshell grab GM 10B/0.45 m³ (800 mm without ejector).

Undercarriage versions	Weight (kg)
A 916 Litronic with stabilizer blade	17,200
A 916 Litronic with stabilizer blade + 2 pt. outriggers	18,100
A 916 Litronic with 4 pt. outriggers	18,300
A 916 EW Litronic with stabilizer blade	17,300
A 916 EW Litronic with stabilizer blade + 2 pt. outriggers	18,300

Clamshell Grab GM 10B Machine stability per ISO 10567* (75% of tipping capacity)

Width of clamshells mm	Capacity m ³	Weight kg	Stabilizers raised			Stabilizer blade down			Stabilizer blade + 2 pt. outriggers down			4 point outriggers down			EW Stabilizers raised			EW Stabilizer blade down			EW Stabilizer blade + 2 pt. outriggers down		
			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)		
			2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65
320 ¹⁾	0.17	840	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400 ¹⁾	0.22	880	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
600 ¹⁾	0.35	960	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
800 ¹⁾	0.45	1,010	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,000 ¹⁾	0.60	1,070	△	△	—	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
320 ²⁾	0.17	890	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400 ²⁾	0.22	940	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
600 ²⁾	0.35	1,060	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
800 ²⁾	0.45	1,150	■	■	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

* 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

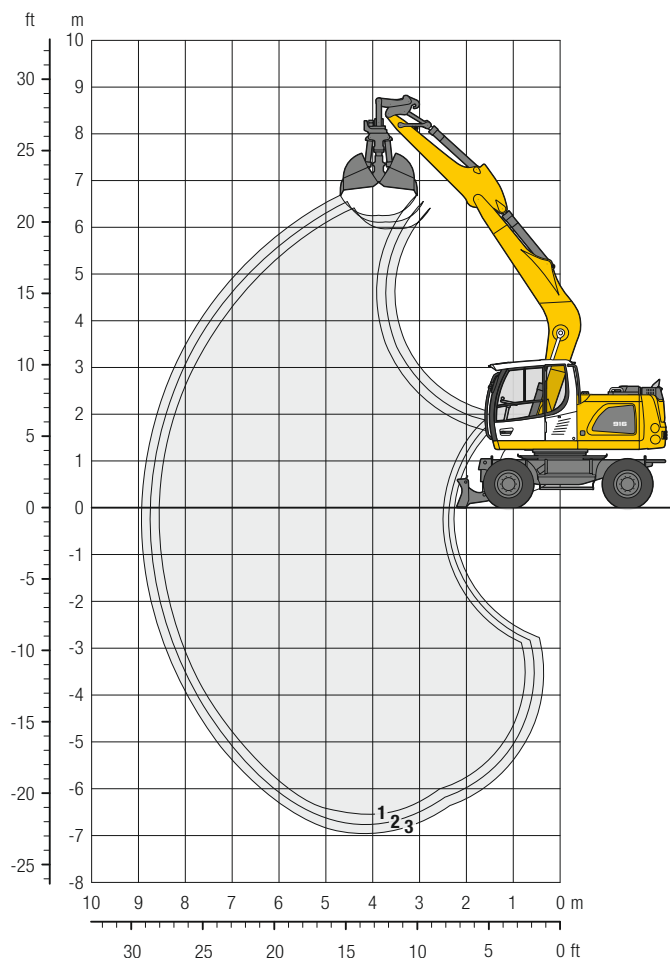
¹⁾ without ejector

²⁾ with ejector

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

Clamshell Grab

with Mono Boom 5.00 m



Digging Envelope

with quick coupler	1	2	3
Stick length	m 2.25	2.45	2.65
Max. digging depth	m 6.55	6.75	6.95
Max. reach at ground level	m 8.60	8.80	9.00
Max. dumping height	m 5.95	6.10	6.25

Clamshell Grab GM 10B

Max. tooth force	73 kN (7.4 t)
Max. torque of hydr. swivel	1.76 kNm

Operating Weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, mono boom 5.00 m, stick 2.45 m, quick coupler SWA 33 and clamshell grab GM 10B/0.45 m³ (800 mm without ejector).

Undercarriage versions	Weight (kg)
A 916 Litronic with stabilizer blade	16,900
A 916 Litronic with stabilizer blade + 2 pt. outriggers	17,900
A 916 Litronic with 4 pt. outriggers	18,100

Clamshell Grab GM 10B Machine stability per ISO 10567* (75% of tipping capacity)

Width of clamshells mm	Capacity m ³	Weight kg	Stabilizers raised			Stabilizer blade down			Stabilizer blade + 2 pt. outriggers down			4 point outriggers down		
			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)		
			2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65
320 ¹⁾	0.17	840	■	■	■	■	■	■	■	■	■	■	■	■
400 ¹⁾	0.22	880	■	■	■	■	■	■	■	■	■	■	■	■
600 ¹⁾	0.35	960	■	■	■	■	■	■	■	■	■	■	■	■
800 ¹⁾	0.45	1,010	■	■	■	■	■	■	■	■	■	■	■	■
1,000 ¹⁾	0.60	1,070	△	△	△	■	■	■	■	■	■	■	■	■
320 ²⁾	0.17	890	■	■	■	■	■	■	■	■	■	■	■	■
400 ²⁾	0.22	940	■	■	■	■	■	■	■	■	■	■	■	■
600 ²⁾	0.35	1,060	■	■	■	■	■	■	■	■	■	■	■	■
800 ²⁾	0.45	1,150	■	■	△	■	■	■	■	■	■	■	■	■

* 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

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

Attachments

Clamshell Grabs

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

Width of clamshells mm	Capacity m³	Weight kg	Stabilizers raised			Stabilizer blade down			Stabilizer blade + 2 pt. outriggers down			4 point outriggers down			EW Stabilizers raised			EW Stabilizer blade down			EW Stabilizer blade + 2 pt. outriggers down			
			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			
2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	
Two-piece boom 5.05 m																								
320 ¹⁾	0.17	815	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
400 ¹⁾	0.22	860	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
600 ¹⁾	0.30	850	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
800 ¹⁾	0.40	900	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
1,000 ¹⁾³⁾	0.80	1,000	—	—	—	△	△	△	■	■	■	△	■	■	△	△	△	△	■	■	△	■	■	△
320 ²⁾	0.17	870	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
400 ²⁾	0.22	920	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
600 ²⁾	0.30	940	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
800 ²⁾	0.40	1,010	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Mono boom 5.00 m																								
320 ¹⁾	0.17	815	■	■	■	■	■	■	■	■	■	■	■	■	—	—	—	—	—	—	—	—	—	
400 ¹⁾	0.22	860	■	■	■	■	■	■	■	■	■	■	■	■	—	—	—	—	—	—	—	—	—	
600 ¹⁾	0.30	850	■	■	■	■	■	■	■	■	■	■	■	■	—	—	—	—	—	—	—	—	—	
800 ¹⁾	0.40	900	■	■	■	■	■	■	■	■	■	■	■	■	—	—	—	—	—	—	—	—	—	
1,000 ¹⁾³⁾	0.80	1,000	—	—	—	△	△	△	■	■	■	△	■	■	△	—	—	—	—	—	—	—	—	
320 ²⁾	0.17	870	■	■	■	■	■	■	■	■	■	■	■	■	—	—	—	—	—	—	—	—	—	
400 ²⁾	0.22	920	■	■	■	■	■	■	■	■	■	■	■	■	—	—	—	—	—	—	—	—	—	
600 ²⁾	0.30	940	■	■	■	■	■	■	■	■	■	■	■	■	—	—	—	—	—	—	—	—	—	
800 ²⁾	0.40	1,010	■	■	■	■	■	■	■	■	■	■	■	■	—	—	—	—	—	—	—	—	—	
Offset two-piece boom 5.00 m																								
320 ¹⁾	0.17	815	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	
400 ¹⁾	0.22	860	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	
600 ¹⁾	0.30	850	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	
800 ¹⁾	0.40	900	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	
1,000 ¹⁾³⁾	0.80	1,000	—	—	—	—	—	—	■	△	—	■	△	—	—	—	—	■	△	—	■	△	—	
320 ²⁾	0.17	870	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	
400 ²⁾	0.22	920	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	
600 ²⁾	0.30	940	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	
800 ²⁾	0.40	1,010	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	
Offset mono boom 4.90 m																								
320 ¹⁾	0.17	815	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
400 ¹⁾	0.22	860	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
600 ¹⁾	0.30	850	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
800 ¹⁾	0.40	900	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
1,000 ¹⁾³⁾	0.80	1,000	—	—	—	△	△	—	■	△	—	■	△	—	△	△	—	■	△	—	■	△	—	
320 ²⁾	0.17	870	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
400 ²⁾	0.22	920	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
600 ²⁾	0.30	940	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
800 ²⁾	0.40	1,010	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	

* 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

Attachments

Clamshell Grabs

Clamshell Grab GM 10B Machine stability per ISO 10567* (75 % of tipping capacity)

Width of clamshells mm	Capacity m³	Weight kg	Stabilizers raised			Stabilizer blade down			Stabilizer blade + 2 pt. outriggers down			4 point outriggers down			EW Stabilizers raised			EW Stabilizer blade down			EW Stabilizer blade + 2 pt. outriggers down		
			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)		
			2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65
Offset two-piece boom 5.00 m																							
320 ¹⁾	0.17	840	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—
400 ¹⁾	0.22	880	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—
600 ¹⁾	0.35	960	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—
800 ¹⁾	0.45	1,010	■	△	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—
1,000 ¹⁾	0.60	1,070	—	—	—	△	△	—	■	■	—	■	■	—	△	△	—	■	■	—	■	■	—
320 ²⁾	0.17	890	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—
400 ²⁾	0.22	940	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—
600 ²⁾	0.35	1,060	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—
800 ²⁾	0.45	1,150	△	—	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—
Offset mono boom 4.90 m																							
320 ¹⁾	0.17	840	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400 ¹⁾	0.22	880	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
600 ¹⁾	0.35	960	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
800 ¹⁾	0.45	1,010	■	■	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,000 ¹⁾	0.60	1,070	△	—	—	■	■	△	■	■	△	■	■	△	■	■	△	■	■	△	■	■	△
320 ²⁾	0.17	890	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
400 ²⁾	0.22	940	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
600 ²⁾	0.35	1,060	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
800 ²⁾	0.45	1,150	■	△	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

* 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

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

Attachments

Ditch Cleaning Buckets

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

Cutting width mm	Capacity ISO 7451 ¹⁾ m ³	Weight kg	Stabilizers raised			Stabilizer blade down			Stabilizer blade + 2 pt. outriggers down			4 point outriggers down			EW Stabilizers raised			EW Stabilizer blade down			EW Stabilizer blade + 2 pt. outriggers down		
			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)		
			2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65
Two-piece boom 5.05 m																							
1,500 ³⁾	0.50	370	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,600 ²⁾	0.55	650	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,600 ²⁾	0.80	780	△	△	—	■	△	△	■	■	△	■	■	△	■	△	△	■	■	△	■	■	△
2,000 ²⁾	0.50	670	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000 ³⁾	0.48	360	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000 ²⁾	0.70	790	■	△	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Mono boom 5.00 m																							
1,500 ³⁾	0.50	370	■	■	■	■	■	■	■	■	■	■	■	■	—	—	—	—	—	—	—	—	—
1,600 ²⁾	0.55	650	■	■	■	■	■	■	■	■	■	■	■	■	—	—	—	—	—	—	—	—	—
1,600 ²⁾	0.80	780	△	△	—	■	■	■	■	■	■	■	■	■	—	—	—	—	—	—	—	—	—
2,000 ²⁾	0.50	670	■	■	■	■	■	■	■	■	■	■	■	■	—	—	—	—	—	—	—	—	—
2,000 ³⁾	0.48	360	■	■	■	■	■	■	■	■	■	■	■	■	—	—	—	—	—	—	—	—	—
2,000 ²⁾	0.70	790	■	△	△	■	■	■	■	■	■	■	■	■	—	—	—	—	—	—	—	—	—
Offset two-piece boom 5.00 m																							
1,500 ³⁾	0.50	370	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—
1,600 ²⁾	0.55	650	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—
1,600 ²⁾	0.80	780	—	—	—	△	△	—	■	■	—	■	■	—	△	△	—	■	■	—	■	■	—
2,000 ²⁾	0.50	670	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—
2,000 ³⁾	0.48	360	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—	■	■	—
2,000 ²⁾	0.70	790	△	—	—	■	△	—	■	■	—	■	■	—	■	△	—	■	■	—	■	■	—
Offset mono boom 4.90 m																							
1,500 ³⁾	0.50	370	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,600 ²⁾	0.55	650	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,600 ²⁾	0.80	780	△	—	—	■	■	△	■	■	△	■	■	△	△	■	△	■	■	△	■	■	△
2,000 ²⁾	0.50	670	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000 ³⁾	0.48	360	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2,000 ²⁾	0.70	790	△	△	—	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

* 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

Attachments

Tilt Buckets

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

Cutting width mm	Capacity ISO 7451 ¹⁾ m ³	Weight kg	Stabilizers raised			Stabilizer blade down			Stabilizer blade + 2 pt. outriggers down			4 point outriggers down			EW Stabilizers raised			EW Stabilizer blade down			EW Stabilizer blade + 2 pt. outriggers down		
			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)			Stick length (m)		
			2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65	2.25	2.45	2.65
Two-piece boom 5.05 m																							
1,500 ²⁾	0.60	660	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,600 ²⁾	0.80	740	△	△	–	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Mono boom 5.00 m																							
1,500 ²⁾	0.60	660	■	■	■	■	■	■	■	■	■	■	■	■	–	–	–	–	–	–	–	–	–
1,600 ²⁾	0.80	740	△	△	△	■	■	■	■	■	■	■	■	■	–	–	–	–	–	–	–	–	–
Offset two-piece boom 5.00 m																							
1,500 ²⁾	0.60	660	■	■	–	■	■	–	■	■	–	■	■	–	■	■	–	■	■	–	■	■	–
1,600 ²⁾	0.80	740	–	–	–	△	△	–	■	■	–	■	■	–	△	△	–	■	■	–	■	■	–
Offset mono boom 4.90 m																							
1,500 ²⁾	0.60	660	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,600 ²⁾	0.80	740	△	–	–	■	■	△	■	■	△	■	■	△	■	■	△	■	■	△	■	■	△

* 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

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

Equipment

Undercarriage

Dual-circuit braking system	•
4 point outriggers, outriggers rear and front	+
Stabilizer blade rear	+
Stabilizer blade front, outriggers rear	+
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	•
Outriggers front, stabilizer blade rear	+
Tyres, variants	+
Protection for piston rods, stabilizer cylinder	+
Speeder**	+
Storage compartment left – lockable	•
Storage compartment right – lockable	+
Undercarriage EW 2.75 m/9'	+
Tool equipment, extended	+

Upperchassis

Upperchassis right side light, 1 piece, LED	+
Upperchassis rear light, 2 pieces, LED	+
Refuelling system with filling pump	+
Main battery switch for electrical system	•
Engine hood with gas spring	•
Warning beacon on upperchassis, LED	+
Service doors, lockable	•

Hydraulic System

Shut-off valve between hydraulic tank and pump(s)	•
Pressure test fittings	•
Accumulator for controlled lowering of the attachment 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 1 and tipping cylinder	+
Switchover high pressure circuit 1 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	+
Preheating engine oil	+

Operator's Cab

Storage compartment	•
Stabilizer, proportional control on left joystick	•
Cab lights rear, LED	+
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 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	•
Dome light	•
Joystick steering	+
Coat hook	•
Automatic air conditioning	•
Fuel consumption indicator	•
Electric cooler	+
Steering wheel, wide version (cost-neutral option)	+
Steering column adjustable horizontally	•
LiDAT, vehicle fleet management	•
Emergency exit rear window	•
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)	+
Warning beacon on cab, LED	+
All tinted windows	•
Windscreen wiper, roof	+
Windshield wiper, entire windscreen	•
Door with sliding window	•
Top guard	+
Front guard, adjustable	+
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	•



Attachment

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	+
Security for hoist cylinder for hydraulic tools	+
Load holding valve bucket cylinder	+
Load lug on stick	+
Leak oil line, additional for working tools	+
Liebherr ditch cleaning bucket	+
Liebherr quick coupler, hydraulic or mechanical	+
Liebherr tilt bucket	+
Liebherr tilt rotator	+
Liebherr sorting grab	+
Liebherr backhoe bucket	+
Liebherr tooth system	+
Liebherr clamshell grab	+
Medium pressure circuit incl. lines	+
Mono boom	+
Pipe fracture safety valves hoist cylinders	•
Pipe fracture safety valve stick cylinder	•
Return line, pressureless (in high pressure circuit option included)	+
Hose quick coupling at end of stick	•
Quick coupling system LIKUFIX	+
Protection for piston rod, bucket cylinder	+
Protection for bottom side of stick	+
Tool Control, 20 tool adjustments selectable over the display	+
Overload warning device	•
Two-piece boom	+
Offset two-piece boom	+



Complete Machine

Lubrication	
Lubrication undercarriage, manually – decentralised (grease points)	•
Lubrication undercarriage, manually – centralised (one grease point)	+
Central lubrication system for uppercarriage and attachment, automatically (without quick coupler and connecting link) *	•
Central lubrication system, extension for quick coupler	+
Central lubrication system, extension for connecting link	+
Special coating	
Custom painting for tools	+
Special coating, variants	+
Monitoring	
Rear view monitoring with camera	•
Side view monitoring with camera	•
Skyview 360°	+

• = Standard, + = Option

* = country-dependent, ** = depending upon the country partially only 25 km/h permitted

Options and/or special attachments, 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 of Companies



Wide Product Range

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

Exceptional Customer Benefit

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

State-of-the-art Technology

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

Worldwide and Independent

Hans Liebherr founded the Liebherr family company in 1949. Since that time, the enterprise has steadily grown to a group of more than 130 companies with over 41,000 employees located on all continents. The corporate headquarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.

www.liebherr.com