

# Product Information Wheeled Excavator

## A 916 Compact

Litronic®

**Generation**

6

**Operating Weight**

16,000 – 18,300 kg

**Engine**

110 kW / 150 HP

Stage V

**Bucket Capacity**

0.17 – 0.87 m<sup>3</sup>



# LIEBHERR

## Performance

Compact, Flexible – Perfect Combination  
for Maximum Performance

## Economy

A Sound Investment – Optimum Economy  
and Environmentally Friendly

### Operating Weight

16,000 – 18,300 kg

### Engine

110 kW / 150 HP  
Stage V

### Bucket Capacity

0.17 – 0.87 m<sup>3</sup>



## 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



# Well Thought Out to the Last Detail





### Less is More

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



### Excellent Stability

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



### Emission Standards Stage V Engine with Liebherr SCRT Technology

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

# Convincing in Operation



## Performance

### Performance Without Compromise

The new machine concept of the A 916 Litronic Compact was developed for enhanced performance and flexibility. A powerful engine, finely tuned coordination of upper and under carriage, well designed equipment and counter weight give strength, stability and compactness and ultimately a machine that excels in all situations.

### Perfect Coordination of Hydraulics

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

## Economy

### Fast and Effective Work on the Construction Site

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

### Undercarriage Options and Attachments

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

## Reliability

### **Quality and Competence**

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

### **Safety**

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

### **Strong Undercarriage Concept**

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

## Comfort

### **Productive Working Environment**

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

### **Smooth Operation**

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

### **Radio with Hands-free Device**

The optional Liebherr radio is MP3-compatible, has a USB connection 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.

## Maintainability

### **Integral Maintenance Benefits**

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

### **Retrofitting with New Technologies**

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

### **Rapid Spare Parts Service**

Spare parts service is available for our dealers around the clock. By means of the electronic spare parts catalogue, you are able to place your orders quickly and reliably via the Liebherr online portal.

With online tracking, the current processing status of your order can be viewed at any time.

# Technical Data



## Diesel Engine

<b>Rating per ISO 9249</b>	110 kW (150 HP) at 1,800 RPM
<b>Model</b>	Liebherr D924
<b>Type</b>	4 cylinder in-line
Bore/Stroke	104/ 132 mm
Displacement	4.5 l
<b>Engine operation</b>	4-stroke diesel Common-Rail turbo-charged and after-cooled reduced emissions
<b>Air cleaner</b>	dry-type air cleaner with pre-cleaner, primary and safety elements
<b>Engine idling</b>	sensor controlled
<b>Electrical system</b>	
Voltage	24 V
Batteries	2 x 135 Ah/ 12 V
Alternator	three-phase current 24 V/ 140 A
<b>Stage V</b>	
Harmful emissions values	according to regulation (EU) 2016/1628
Emission control	Liebherr-SCRT technology
Fuel tank	250 l
Urea tank	46 l



## Cooling System

<b>Diesel engine</b>	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

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



## Hydraulic System

<b>Hydraulic pump</b>	Liebherr axial piston variable displacement pump
for equipment and travel drive	
Max. flow	250 l/min.
Max. pressure	350 bar
<b>Hydraulic pump regulation and control</b>	Liebherr-Synchron-Comfort-system (LSC) with electronic engine speed sensing regulation, pressure and flow compensation, torque controlled swing drive priority
<b>Hydraulic tank</b>	130 l
<b>Hydraulic system</b>	max. 300 l
<b>Hydraulic oil filter</b>	1 main return filter with integrated partial micro filtration (5 µm)
<b>MODE selection</b>	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
<b>Engine speed and performance setting</b>	stepless alignment of engine output and hydraulic power via engine speed
Option	Tool Control: 20 preadjustable pump flows and pressures for add-on attachments



## Swing Drive

<b>Drive</b>	Liebherr axial piston motor with integrated brake valve and torque control, Liebherr planetary reduction gear
<b>Swing ring</b>	Liebherr, sealed race ball bearing swing ring, internal teeth
<b>Swing speed</b>	0 – 10,0 RPM stepless
<b>Swing torque</b>	54 kNm
<b>Holding brake</b>	wet multi-disc (spring applied, pressure released)
<b>Option</b>	pedal controlled positioning swing brake slewing gear brake Comfort





## Operator's Cab

<b>Cab</b>	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
<b>Operator's seat Standard</b>	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
<b>Operator's seat Comfort (Option)</b>	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
<b>Operator's seat Premium (Option)</b>	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
<b>Control system</b>	joysticks with control consoles and swivel seat, folding left control console
<b>Operation and displays</b>	large high-resolution operating unit, self-explanatory, colour display with touchscreen, video-compatible, numerous setting, control and monitoring options, e.g. air conditioning control, fuel consumption, machine and attachment parameters
<b>Air-conditioning</b>	automatic air-conditioning, recirculated air function, fast de-icing and demisting at the press of a button, air vents can be operated via a menu; recirculated air and fresh air filters can be easily replaced and are accessible from the outside; heating-cooling unit, designed for extreme outside temperatures, sensors for solar radiation, inside and outside temperatures (country-dependent)
Refrigerant	R134a
Global warming potential	1,430
Quantity at 25 °C	1,300 g
CO <sub>2</sub> equivalent	1.859 t
<b>Vibration emission*</b>	
Hand/arm vibrations	< 2.5 m/s <sup>2</sup>
Whole-body vibrations	< 0.5 m/s <sup>2</sup>
Measuring inaccuracy	according with standard EN 12096:1997



## Undercarriage

<b>Drive</b>	oversized two speed power shift transmission with additional creeper speed, Liebherr axial piston motor with functional brake valve on both sides
<b>Pulling force</b>	95 kN
<b>Travel speed</b>	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)
<b>Driving operation</b>	automotive driving using accelerator pedal, cruise control function: storage of variable accelerator pedal positions, both off-road and on-road
<b>Axles</b>	manual or automatic hydraulically controlled front axle oscillation lock
<b>Service brake</b>	two circuit travel brake system with accumulator; wet and backlash-free disc brake
<b>Automatic digging brake</b>	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
<b>Holding brake</b>	wet multi-disc (spring applied, pressure released)
<b>Stabilization</b>	rear stabilizer blade (adjustable during travel for dozing) rear stabilizer blade + front outriggers rear outriggers + front stabilizer blade
<b>Option</b>	EW-undercarriage 2.75 m/9'



## Equipment

<b>Type</b>	high-strength steel plates at highly stressed points for the toughest requirements. Complex and stable mountings of equipment and cylinders
<b>Hydraulic cylinders</b>	Liebherr cylinders with special seal system
<b>Bearings</b>	sealed, low maintenance

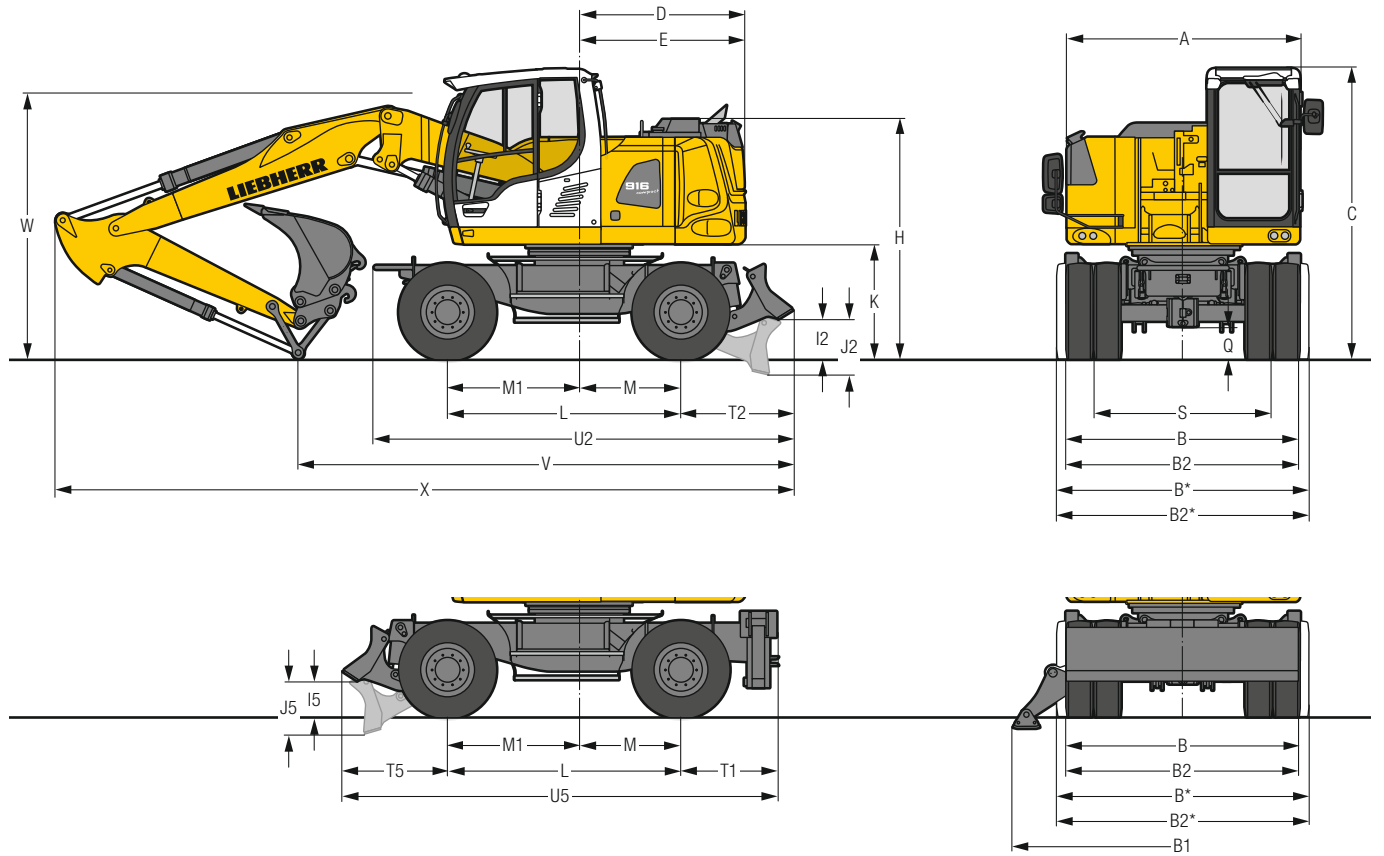


## Complete Machine

<b>Lubrication</b>	Liebherr central lubrication system for upper-carriage and equipment, automatically	
<b>Noise emission</b>		
ISO 6396	L <sub>PA</sub> (inside cab)	= 71 dB(A)
2000/14/EC	L <sub>WA</sub> (surround noise)	= 100 dB(A)

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

# Dimensions



	mm
A	2,525
B	2,550
B*	2,750
B1	3,695
B2	2,550
B2*	2,750
C	3,165
D	1,800
E	1,800
H	2,615
I2	425
I5	380
J2	605
J5	585
K	1,230
L	2,540
M	1,100
M1	1,440
Q	350
S	1,942/2,112
T1	1,047
T2	1,230
T5	1,153
U2	4,575
U5	4,740

\* EW-Undercarriage  
E = Tail radius  
Tyres 10.00-20

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

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

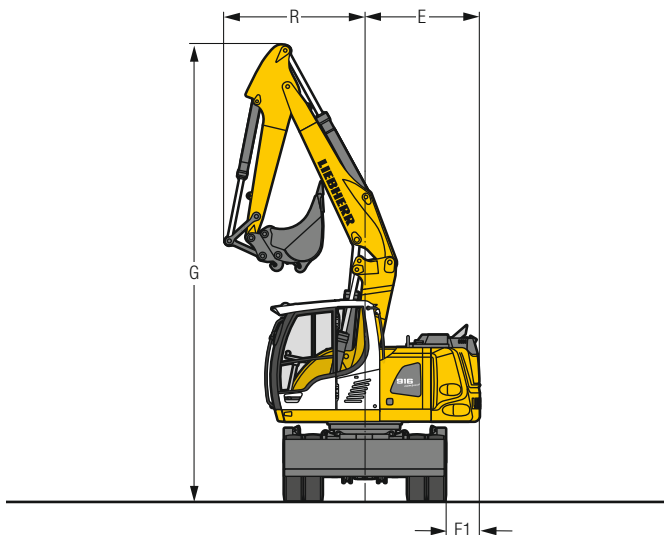
Dimensions are with equipment over steering axle

\* Equipment over digging axle for shorter transport dimensions

<sup>1)</sup> without backhoe bucket

<sup>2)</sup> tipping cylinder retracted

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



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

\* EW-Undercarriage



# Lift Capacities

## with Two-Piece Boom 4.85 m

### Stick 2.05 m

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

### Stick 2.25 m

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

### Stick 2.45 m

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

### Stick 2.65 m

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

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 attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. The values apply when the adjusting cylinder is in the optimal position. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity, or are limited by the permissible load of the load 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 4.85 m, EW-Undercarriage

### Stick 2.05 m

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

### Stick 2.25 m

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

### Stick 2.45 m

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

### Stick 2.65 m

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

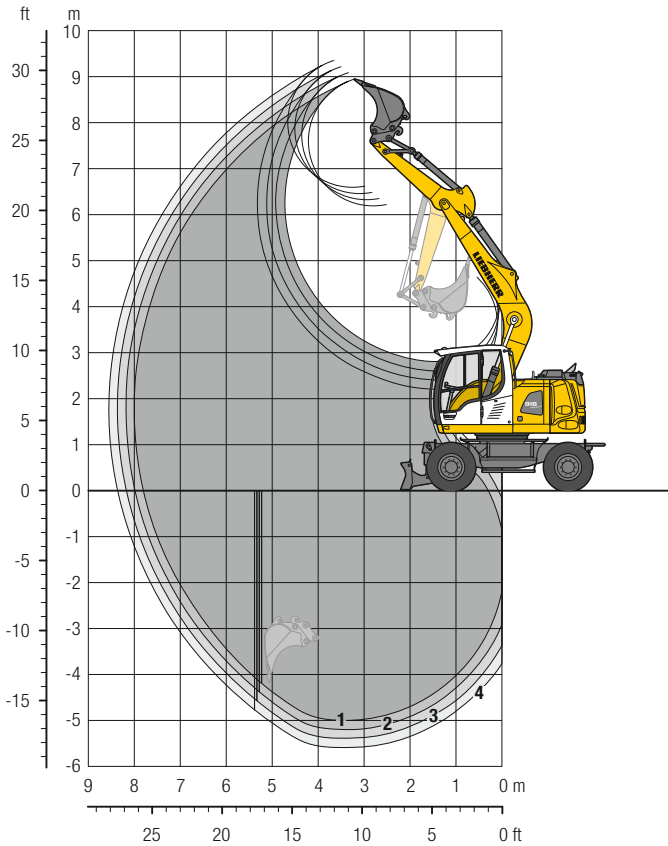
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

The lift capacities on the load lift hook of the Liebherr quick coupler SWA 33 without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. The values apply when the adjusting cylinder is in the optimal position. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity, or are limited by the permissible load of the load 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 4.60 m



### Digging Envelope

with quick coupler		1	2	3	4
Stick length	m	2.05	2.25	2.45	2.65
Max. digging depth	m	5.00	5.20	5.40	5.60
Max. reach at ground level	m	7.80	8.00	8.20	8.40
Max. dumping height	m	6.25	6.35	6.50	6.65
Max. teeth height	m	8.95	9.10	9.25	9.40
Min. equipment radius	m	1.86	1.88	1.90	1.92

### Digging Forces

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

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

### Operating Weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, mono boom 4.60 m, stick 2.25 m, quick coupler SWA 33 and bucket 850 mm / 0.50 m<sup>3</sup>.

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

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

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

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

<sup>1)</sup> comparable with SAE (heaped)

<sup>2)</sup> Bucket with teeth (also available in HD version) <sup>3)</sup> 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/m<sup>3</sup>, ■ = ≤ 1.5 t/m<sup>3</sup>, △ = ≤ 1.2 t/m<sup>3</sup>, – = not authorised

# Lift Capacities

## with Mono Boom 4.60 m

### Stick 2.05 m

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

### Stick 2.25 m

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

### Stick 2.45 m

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

### Stick 2.65 m

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

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

The lift capacities on the load lift hook of the Liebherr quick coupler SWA 33 without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity, or are limited by the permissible load of the load 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 4.60 m, EW-Undercarriage

### Stick 2.05 m

m	Undercarriage stabilized		3.0 m		4.5 m		6.0 m		7.5 m		m
	rear	front	rear	front	rear	front	rear	front	rear	front	
7.5	Blade	—	—	—	—	—	—	—	—	—	—
	Outriggers	Blade	—	—	—	—	—	—	—	—	—
6.0	Blade	—	—	—	3.6*	3.6*	—	—	—	—	2.1*
	Outriggers	Blade	—	—	3.6*	3.6*	—	—	—	—	2.1*
4.5	Blade	—	—	—	4.1*	4.1*	2.7	3.0*	—	—	2.1*
	Outriggers	Blade	—	—	4.1*	4.1*	3.0	3.0*	—	—	2.1*
3.0	Blade	—	7.3	7.7*	3.9	5.1*	2.6	4.0	—	—	2.2*
	Outriggers	Blade	7.7*	7.7*	4.4	5.1*	2.9	4.2*	—	—	2.2*
1.5	Blade	—	6.5	6.7*	3.7	5.9	2.5	3.8	—	—	2.0
	Outriggers	Blade	6.7*	6.7*	4.1	6.1*	2.8	4.6*	—	—	2.2
0	Blade	—	6.3	7.3*	3.5	5.7	2.4	3.7	—	—	2.0
	Outriggers	Blade	7.3*	7.3*	3.9	6.6*	2.7	4.8*	—	—	2.3
-1.5	Blade	—	7.3*	9.6*	3.1	6.4*	2.6	4.5*	—	—	2.6
	Outriggers	Blade	9.6*	9.6*	6.1	6.4*	4.0	4.5*	—	—	3.9
-3.0	Blade	—	6.4	7.7*	3.5	5.2*	—	—	—	—	3.2
	Outriggers	Blade	7.4	7.7*	4.0	5.2*	—	—	—	—	4.7*
-4.5	Blade	—	6.3	9.6*	3.4	5.6	2.3	3.7	—	—	2.3
	Outriggers	Blade	9.6*	9.6*	6.1	6.4*	4.0	4.5*	—	—	3.9

### Stick 2.25 m

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

### Stick 2.45 m

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

### Stick 2.65 m

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

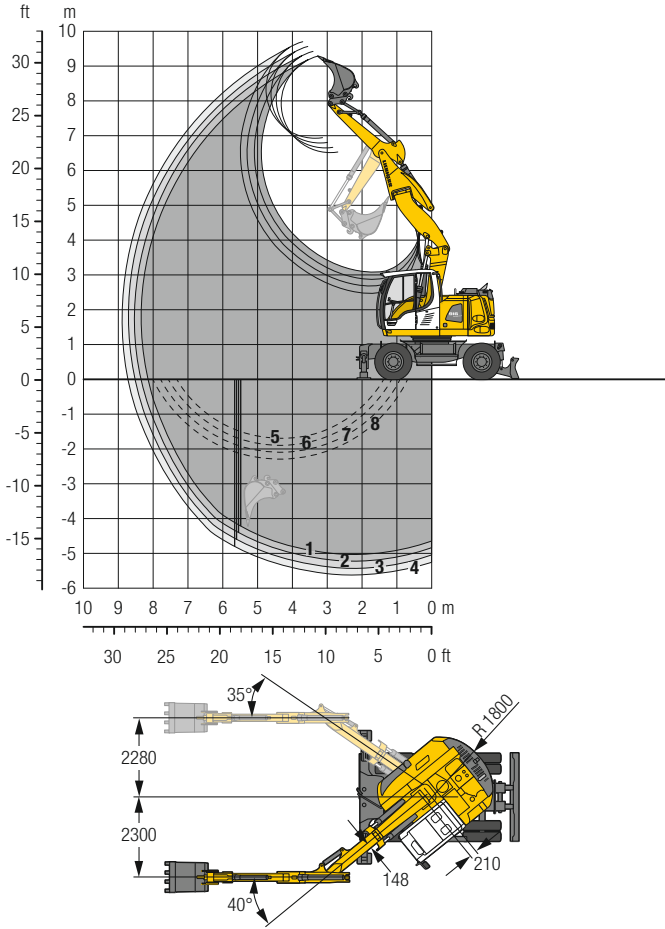
 **Height**
 **Can be slewed through 360°**
 **In longitudinal position of undercarriage**
 **Max. reach**
 \* Limited by hydr. capacity

The lift capacities on the load lift hook of the Liebherr quick coupler SWA 33 without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity, or are limited by the permissible load of the load 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 4.90 m



### Digging Envelope

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

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

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

### Digging Forces

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

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

### Operating Weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, offset two-piece boom 4.90 m, stick 2.25 m, quick coupler SWA 33 and bucket 850 mm/0.50 m<sup>3</sup>.

Undercarriage versions	Weight (kg)
A 916 Compact Litronic <sup>2</sup> with rear blade	16,800
A 916 Compact Litronic <sup>2</sup> with rear outriggers + front blade	17,900
A 916 Compact EW Litronic <sup>2</sup> with rear blade	16,900
A 916 Compact EW Litronic <sup>2</sup> with rear outriggers + front blade	17,900

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

Cutting width mm	Capacity ISO 745 <sup>1)</sup> m <sup>3</sup>	Weight kg	Stabilizers raised				Rear blade down				Rear outriggers + front blade down				EW Stabilizers raised				EW Rear blade down				EW Rear outriggers + front blade down			
			Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)			
			2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65
500 <sup>2)</sup>	0.28	250	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
550 <sup>2)</sup>	0.29	260	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
650 <sup>2)</sup>	0.36	290	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
850 <sup>2)</sup>	0.50	340	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050 <sup>2)</sup>	0.65	380	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,250 <sup>2)</sup>	0.80	430	■	△	△	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
500 <sup>3)</sup>	0.30	240	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
550 <sup>3)</sup>	0.31	250	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
650 <sup>3)</sup>	0.39	270	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
850 <sup>3)</sup>	0.53	320	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,050 <sup>3)</sup>	0.71	370	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1,250 <sup>3)</sup>	0.87	420	△	△	△	△	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

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

<sup>1)</sup> comparable with SAE (heaped)

<sup>2)</sup> Bucket with teeth (also available in HD version) <sup>3)</sup> Bucket with cutting edge (also available in HD-version)

Buckets with 500 mm cutting width with limited digging depth

Max. material weight ■ = ≤ 1.8 t/m<sup>3</sup>, ■ = ≤ 1.5 t/m<sup>3</sup>, △ = ≤ 1.2 t/m<sup>3</sup>, - = not authorised

# Lift Capacities

## with Offset Two-Piece Boom 4.90 m

### Stick 2.05 m

m	Undercarriage stabilized		3.0 m		4.5 m		6.0 m		7.5 m		m	
	rear	front	Can be slewed through 360°	In longitudinal position of undercarriage	Can be slewed through 360°	In longitudinal position of undercarriage	Can be slewed through 360°	In longitudinal position of undercarriage	Can be slewed through 360°	In longitudinal position of undercarriage		
7.5	Blade	—	—	—	—	—	—	—	—	—	2.3* 2.3*	4.2
	Outriggers	Blade	—	—	—	—	—	—	—	—	2.3* 2.3*	
6.0	Blade	—	—	—	3.9 4.1*	—	—	—	—	—	2.0* 2.0*	5.8
	Outriggers	Blade	—	—	4.1* 4.1*	—	—	—	—	—	2.0* 2.0*	
4.5	Blade	—	6.3* 6.3*	3.9 4.7*	2.4 3.9*	—	—	—	—	—	1.9 2.0*	6.7
	Outriggers	Blade	6.3* 6.3*	4.7* 4.7*	2.6 3.9*	—	—	—	—	—	2.0* 2.0*	
3.0	Blade	—	6.6 8.8*	3.7 5.5*	2.3 3.9	—	—	—	—	—	1.6 2.1*	7.2
	Outriggers	Blade	7.3 8.8*	4.1 5.5*	2.6 4.2*	—	—	—	—	—	1.8 2.1*	
1.5	Blade	—	6.4 9.4*	3.7 5.7	2.2 3.8	—	—	—	—	—	1.5 2.3*	7.3
	Outriggers	Blade	7.1* 9.4*	4.1 6.1*	2.5 4.5*	—	—	—	—	—	1.7 2.3*	
0	Blade	—	9.4* 9.4*	5.8 6.1*	3.9 4.5*	—	—	—	—	—	2.3* 2.3*	7.0
	Outriggers	Blade	6.4 10.1*	3.5 5.8	2.0 3.7	—	—	—	—	—	1.5 2.8	
-1.5	Blade	—	7.3 10.1*	3.9 6.3*	2.3 4.5*	—	—	—	—	—	1.7 2.8*	6.4
	Outriggers	Blade	10.1* 10.1*	5.9 6.3*	3.8 4.5*	—	—	—	—	—	2.8* 2.8*	
-3.0	Blade	—	5.9 10.3*	3.1 5.7*	1.9 3.5	—	—	—	—	—	1.6 3.1	5.3
	Outriggers	Blade	6.8 10.3*	3.5 6.5*	2.1 4.2*	—	—	—	—	—	1.9 3.5*	
-4.5	Blade	—	10.3* 10.3*	5.9 6.5*	3.6 4.2*	—	—	—	—	—	3.2 3.5*	6.4
	Outriggers	Blade	5.5 9.7*	2.9 5.1*	—	—	—	—	—	—	2.2 3.1*	

### Stick 2.25 m

m	Undercarriage stabilized		3.0 m		4.5 m		6.0 m		7.5 m		m	
	rear	front	Can be slewed through 360°	In longitudinal position of undercarriage	Can be slewed through 360°	In longitudinal position of undercarriage	Can be slewed through 360°	In longitudinal position of undercarriage	Can be slewed through 360°	In longitudinal position of undercarriage		
7.5	Blade	—	—	—	—	—	—	—	—	—	2.2* 2.2*	4.5
	Outriggers	Blade	—	—	—	—	—	—	—	—	2.2* 2.2*	
6.0	Blade	—	—	—	—	—	—	—	—	—	2.2* 2.2*	6.0
	Outriggers	Blade	—	—	—	—	—	—	—	—	2.2* 2.2*	
4.5	Blade	—	—	—	—	—	—	—	—	—	2.2* 2.2*	6.9
	Outriggers	Blade	—	—	—	—	—	—	—	—	2.2* 2.2*	
3.0	Blade	—	—	—	—	—	—	—	—	—	2.2* 2.2*	7.3
	Outriggers	Blade	—	—	—	—	—	—	—	—	2.2* 2.2*	
1.5	Blade	—	—	—	—	—	—	—	—	—	2.2* 2.2*	7.5
	Outriggers	Blade	—	—	—	—	—	—	—	—	2.2* 2.2*	
0	Blade	—	—	—	—	—	—	—	—	—	2.2* 2.2*	7.2
	Outriggers	Blade	—	—	—	—	—	—	—	—	2.2* 2.2*	
-1.5	Blade	—	—	—	—	—	—	—	—	—	2.2* 2.2*	6.7
	Outriggers	Blade	—	—	—	—	—	—	—	—	2.2* 2.2*	
-3.0	Blade	—	—	—	—	—	—	—	—	—	2.2* 2.2*	5.6
	Outriggers	Blade	—	—	—	—	—	—	—	—	2.2* 2.2*	
-4.5	Blade	—	—	—	—	—	—	—	—	—	2.2* 2.2*	6.7
	Outriggers	Blade	—	—	—	—	—	—	—	—	2.2* 2.2*	

### Stick 2.45 m

m	Undercarriage stabilized		3.0 m		4.5 m		6.0 m		7.5 m		m	
	rear	front	Can be slewed through 360°	In longitudinal position of undercarriage	Can be slewed through 360°	In longitudinal position of undercarriage	Can be slewed through 360°	In longitudinal position of undercarriage	Can be slewed through 360°	In longitudinal position of undercarriage		
7.5	Blade	—	—	—	—	—	—	—	—	—	1.9* 1.9*	4.8
	Outriggers	Blade	—	—	—	—	—	—	—	—	1.9* 1.9*	
6.0	Blade	—	—	—	—	—	—	—	—	—	1.9* 1.9*	6.3
	Outriggers	Blade	—	—	—	—	—	—	—	—	1.9* 1.9*	
4.5	Blade	—	—	—	—	—	—	—	—	—	1.9* 1.9*	7.1
	Outriggers	Blade	—	—	—	—	—	—	—	—	1.9* 1.9*	
3.0	Blade	—	—	—	—	—	—	—	—	—	1.9* 1.9*	7.5
	Outriggers	Blade	—	—	—	—	—	—	—	—	1.9* 1.9*	
1.5	Blade	—	—	—	—	—	—	—	—	—	1.9* 1.9*	7.6
	Outriggers	Blade	—	—	—	—	—	—	—	—	1.9* 1.9*	
0	Blade	—	—	—	—	—	—	—	—	—	1.9* 1.9*	7.4
	Outriggers	Blade	—	—	—	—	—	—	—	—	1.9* 1.9*	
-1.5	Blade	—	—	—	—	—	—	—	—	—	1.9* 1.9*	6.9
	Outriggers	Blade	—	—	—	—	—	—	—	—	1.9* 1.9*	
-3.0	Blade	—	—	—	—	—	—	—	—	—	1.9* 1.9*	5.9
	Outriggers	Blade	—	—	—	—	—	—	—	—	1.9* 1.9*	
-4.5	Blade	—	—	—	—	—	—	—	—	—	1.9* 1.9*	6.9
	Outriggers	Blade	—	—	—	—	—	—	—	—	1.9* 1.9*	

### Stick 2.65 m

m	Undercarriage stabilized		3.0 m		4.5 m		6.0 m		7.5 m		m	
	rear	front	Can be slewed through 360°	In longitudinal position of undercarriage	Can be slewed through 360°	In longitudinal position of undercarriage	Can be slewed through 360°	In longitudinal position of undercarriage	Can be slewed through 360°	In longitudinal position of undercarriage		
7.5	Blade	—	—	—	—	—	—	—	—	—	1.7* 1.7*	5.1
	Outriggers	Blade	—	—	—	—	—	—	—	—	1.7* 1.7*	
6.0	Blade	—	—	—	—	—	—	—	—	—	1.7* 1.7*	6.5
	Outriggers	Blade	—	—	—	—	—	—	—	—	1.7* 1.7*	
4.5	Blade	—	—	—	—	—	—	—	—	—	1.7* 1.7*	7.3
	Outriggers	Blade	—	—	—	—	—	—	—	—	1.7* 1.7*	
3.0	Blade	—	—	—	—	—	—	—	—	—	1.7* 1.7*	7.7
	Outriggers	Blade	—	—	—	—	—	—	—	—	1.7* 1.7*	
1.5	Blade	—	—	—	—	—	—	—	—	—	1.7* 1.7*	7.8
	Outriggers	Blade	—	—	—	—	—	—	—	—	1.7* 1.7*	
0	Blade	—	—	—	—	—	—	—	—	—	1.7* 1.7*	7.6
	Outriggers	Blade	—	—	—	—	—	—	—	—	1.7* 1.7*	
-1.5	Blade	—	—	—	—	—	—	—	—	—	1.7* 1.7*	7.1
	Outriggers	Blade	—	—	—	—	—	—	—	—	1.7* 1.7*	
-3.0	Blade	—	—	—	—	—	—	—	—	—	1.7* 1.7*	6.1
	Outriggers	Blade	—	—	—	—	—	—	—	—	1.7* 1.7*	
-4.5	Blade	—	—	—	—	—	—	—	—	—	1.7* 1.7*	2.9
	Outriggers	Blade	—	—	—	—	—	—	—	—	1.7* 1.7*	

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 attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. The values apply when the adjusting cylinder is in the optimal position. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity, or are limited by the permissible load of the load 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 4.90 m, EW-Undercarriage

### Stick 2.05 m

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

### Stick 2.25 m

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

### Stick 2.45 m

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

### Stick 2.65 m

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

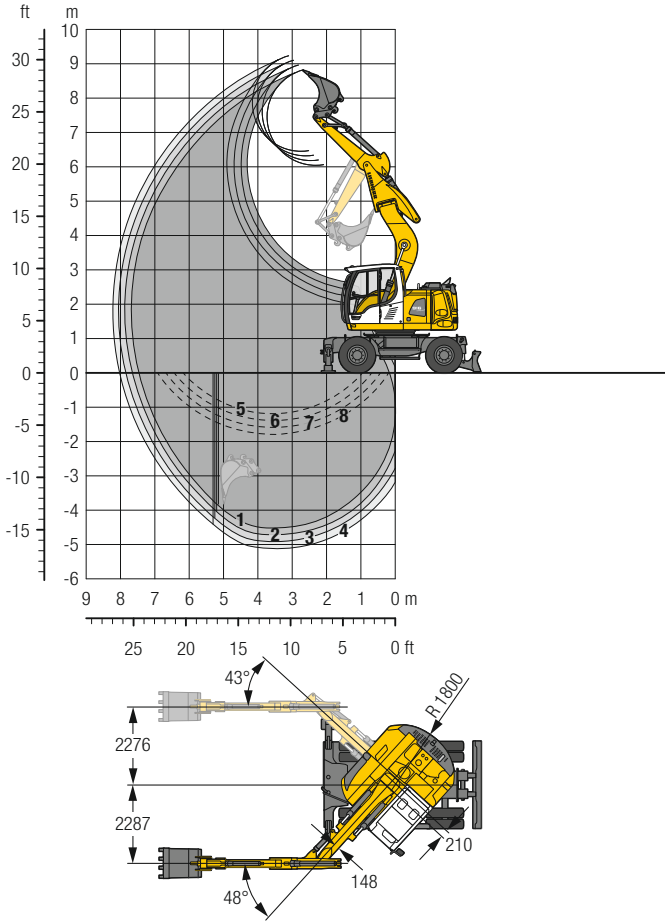
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

The lift capacities on the load lift hook of the Liebherr quick coupler SWA 33 without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. The values apply when the adjusting cylinder is in the optimal position. Indicated loads based on the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity, or are limited by the permissible load of the load 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 4.30 m



### Digging Envelope

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

- 1 with stick 2.05 m
- 2 with stick 2.25 m
- 3 with stick 2.45 m
- 4 with stick 2.65 m with set straight boom
- 5 with stick 2.05 m
- 6 with stick 2.25 m
- 7 with stick 2.45 m
- 8 with stick 2.65 m at max. equipment offset with vertical ditch walls

### Digging Forces

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

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

### Operating Weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, offset mono boom 4.30 m, stick 2.25 m, quick coupler SWA 33 and bucket 850 mm / 0.50 m<sup>3</sup>.

Undercarriage versions	Weight (kg)
A 916 Compact Litronic <sup>2</sup> with rear blade	16,300
A 916 Compact Litronic <sup>2</sup> with rear outriggers + front blade	17,300
A 916 Compact EW Litronic <sup>2</sup> with rear blade	16,300
A 916 Compact EW Litronic <sup>2</sup> with rear outriggers + front blade	17,400

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

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

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

<sup>1)</sup> comparable with SAE (heaped)

<sup>2)</sup> Bucket with teeth (also available in HD version)    <sup>3)</sup> Bucket with cutting edge (also available in HD-version)

Buckets with 500 mm cutting width with limited digging depth

Max. material weight ■ = ≤ 1.8 t/m<sup>3</sup>, ■ = ≤ 1.5 t/m<sup>3</sup>, △ = ≤ 1.2 t/m<sup>3</sup>, - = not authorised

# Lift Capacities

## with Offset Mono Boom 4.30 m

### Stick 2.05 m

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

### Stick 2.25 m

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

### Stick 2.45 m

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

### Stick 2.65 m

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

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

The lift capacities on the load lift hook of the Liebherr quick coupler SWA 33 without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity, or are limited by the permissible load of the load 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 4.30 m, EW-Undercarriage

### Stick 2.05 m

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

### Stick 2.25 m

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

### Stick 2.45 m

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

### Stick 2.65 m

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

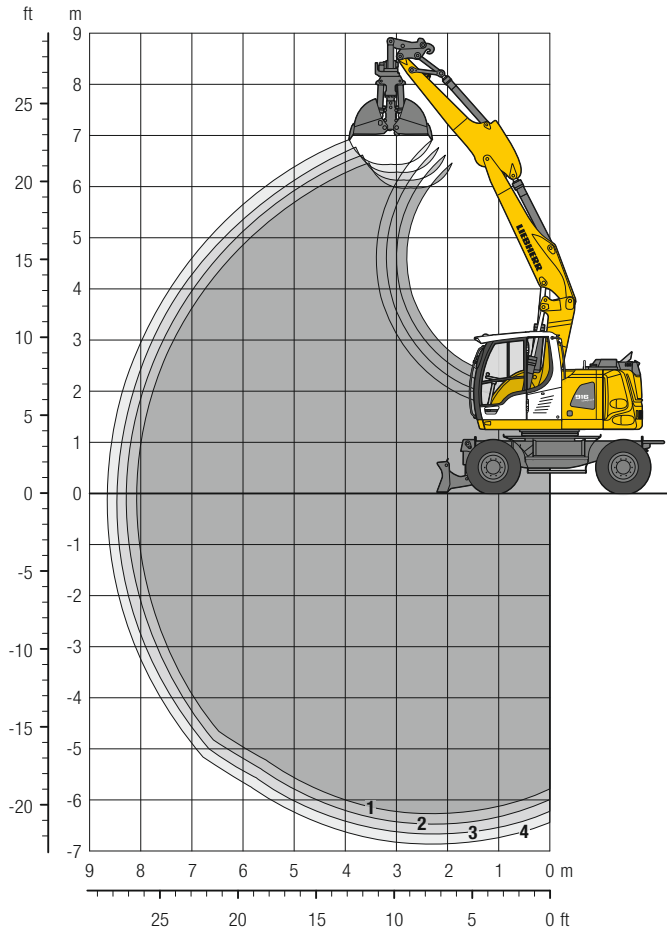
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach \* Limited by hydr. capacity

The lift capacities on the load lift hook of the Liebherr quick coupler SWA 33 without attachment are stated in metric tons (t) and are valid on a firm, level supporting surface with blocked oscillating axle. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the steering axle with the stabilizers raised and over the rigid axle with the stabilizers down. Indicated loads based on the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity, or are limited by the permissible load of the load 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 4.85 m



### Digging Envelope

with quick coupler		1	2	3	4
Stick length	m	2.05	2.25	2.45	2.65
Max. digging depth	m	6.30	6.50	6.70	6.90
Max. reach at ground level	m	8.10	8.30	8.50	8.70
Max. dumping height	m	6.00	6.15	6.30	6.45

### Clamshell Grab GM 8B

Max. tooth force	52 kN (5.3 t)
Max. torque of hydr. swivel	1.40 kNm

### Operating Weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, two-piece boom 4.85 m, stick 2.25 m, quick coupler SWA 33 and clamshell grab GM 8B/0.40 m<sup>3</sup> (800 mm without ejector).

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

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

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

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

<sup>1)</sup> without ejector

<sup>2)</sup> with ejector

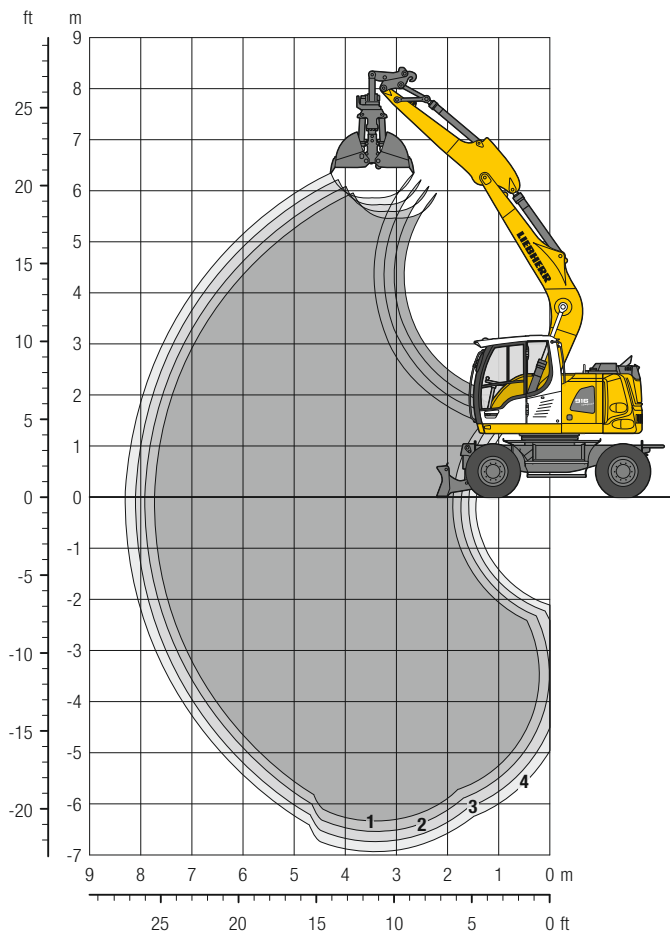
<sup>3)</sup> Shells for loose material

Max. material weight ■ = ≤ 1.8 t/m<sup>3</sup>, ■ = ≤ 1.5 t/m<sup>3</sup>, △ = ≤ 1.2 t/m<sup>3</sup>, - = not authorised



# Clamshell Grab

## with Mono Boom 4.60 m



### Digging Envelope

with quick coupler	1	2	3	4
Stick length	m 2.05	2.25	2.45	2.65
Max. digging depth	m 6.35	6.55	6.75	6.95
Max. reach at ground level	m 7.75	7.90	8.10	8.30
Max. dumping height	m 5.45	5.60	5.75	5.90

### Clamshell Grab GM 8B

Max. tooth force	52 kN (5.3 t)
Max. torque of hydr. swivel	1.40 kNm

### Operating Weight

The operating weight includes the basic machine with 8 tyres plus intermediate rings, mono boom 4.60 m, stick 2.25 m, quick coupler SWA 33 and clamshell grab GM 8B/0.40 m<sup>3</sup> (800 mm without ejector).

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

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

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

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

<sup>1)</sup> without ejector

<sup>2)</sup> with ejector

<sup>3)</sup> Shells for loose material

Max. material weight ■ = ≤ 1.8 t/m<sup>3</sup>, ■ = ≤ 1.5 t/m<sup>3</sup>, △ = ≤ 1.2 t/m<sup>3</sup>, - = not authorised

# Equipments

## Clamshell Grabs

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

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

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

<sup>1)</sup> without ejector

<sup>2)</sup> with ejector

<sup>3)</sup> Shells for loose material

Max. material weight ■ = ≤ 1.8 t/m<sup>3</sup>, ■ = ≤ 1.5 t/m<sup>3</sup>, △ = ≤ 1.2 t/m<sup>3</sup>, - = not authorised

# Equipments

## Ditch Cleaning Buckets/Tilt Buckets

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

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

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

Cutting width mm	Capacity ISO 7451 <sup>1)</sup> m <sup>3</sup>	Weight kg	Stabilizers raised				Rear blade down				Rear outriggers + front blade down				EW Stabilizers raised				EW Rear blade down				EW Rear outriggers + front blade down						
			Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)				Stick length (m)						
			2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65			
<b>Two-piece boom 4.85 m</b>																													
1,500 <sup>2)</sup>	0.60	660	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>Mono boom 4.60 m</b>																													
1,500 <sup>2)</sup>	0.60	660	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>Offset two-piece boom 4.90 m</b>																													
1,500 <sup>2)</sup>	0.60	660	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>Offset mono boom 4.30 m</b>																													
1,500 <sup>2)</sup>	0.60	660	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

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

<sup>1)</sup> comparable with SAE (heaped)

<sup>2)</sup> with 2 x 50° rotator

<sup>3)</sup> rigid ditch cleaning bucket

Max. material weight ■ = ≤ 1.8 t/m<sup>3</sup>, ■ = ≤ 1.5 t/m<sup>3</sup>, △ = ≤ 1.2 t/m<sup>3</sup>, – = not authorised

# Equipment

## Undercarriage

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

## Uppercarriage

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

## Hydraulic System

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

## Diesel Engine

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

## Operator's Cab

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



## Equipment

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



## Complete Machine

<b>Lubrication</b>	
Lubrication undercarriage, manually – decentralised (grease points)	•
Lubrication undercarriage, manually – centralised (one grease point)	+
Central lubrication system for uppercarriage and equipment, automatically (without quick coupler and connecting link) *	•
Central lubrication system, extension for quick coupler	+
Central lubrication system, extension for connecting link	+
<b>Special coating</b>	
Custom painting for attachments	+
Special coating, variants	+
<b>Monitoring</b>	
Rear view monitoring with camera	•
Side view monitoring with camera	•
Skyview 360° (side camera not available)	+
<b>Machine guidance system</b>	
Preparation	+

• = Standard, + = Option

\* = country-dependent

Options and / or special equipments, 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 then, the family business has steadily grown to a group of more than 130 companies with more than 46,000 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](http://www.liebherr.com)

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