

# Crawler Excavator

**R 900 C**  
Litronic®

Operating weight: 20.000 - 21.600 kg  
Engine output: 95 kW / 129 hp  
Backhoe bucket capacity: 0,45 - 1,05 m<sup>3</sup>



# LIEBHERR



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## Performance

State-of-the-art technology and high-quality workmanship are the keys to the success of Liebherr crawler excavators. The R 900 C Litronic is compact and boasts outstanding stability – the perfect setup for effective operation. The Liebherr Syncron-Comfort system enables the machine to be operated sensitively, so that all work may be carried out efficiently and productively.

## Reliability

Experience is vital for innovative solutions. With over 50 years' experience manufacturing hydraulic excavators, Liebherr is constantly developing progressive solutions and setting new standards. Innovations are only taken to series production once they have passed a wide range of tests in rigorous practical applications.

## Comfort

All maintenance points on the superstructure are easy to access, enabling servicing work to be carried out quickly and easily. The driver's workplace is designed in accordance with the latest ergonomic know-how.

## Economy

Every day on construction sites around the world, Liebherr crawler excavators demonstrate their constant availability. Long service intervals and easily accessible components reduce operating costs.







#### Stable blade

- Radially-guided blade
- Optimum levelling properties
- Optional ripping edge on blade
- Various blade widths available
- Just two lubrication points
- Piston rod covers as standard





# Performance

State-of-the-art technology and high-quality workmanship are the keys to the success of Liebherr crawler excavators. The R 900 C Litronic is compact and boasts outstanding stability – the perfect setup for effective operation. The Liebherr Synchron-Comfort system enables the machine to be operated sensitively, even during overhanging movements, so that all work may be carried out efficiently and productively.

## A stable basis

### Stability

The R 900 C Litronic is extremely stable on all terrain and, with its optional blade, is suitable for a wide variety of tasks. For different types of application, a range of track pads is available for the crawler excavator's B55L track frame.

### Carrier rollers

Two carrier rollers and a track guide are fitted as standard to ensure a long lifespan. The sloping track-frame edges ensure excellent self-cleaning.

### Superior load capacities

The undercarriage's large footprint and an optimal centre of gravity ensure high load capacities and steady work.

## Optimum loading performance

### An uncompromising performance

Maximum output and maximum power are available at all times and without restriction, thereby guaranteeing excellent loading efficiency.

### High productivity

The Liebherr Litronic system controls the machine precisely, enabling maximum sensitivity and exacting operation in many fields of application.

### High bucket-filling factor

The excavation attachments manufactured by Liebherr are designed specifically for high filling factors. The bucket shape affords excellent penetration characteristics and guarantees above-average production.



### Litronic

- Increases the performance of the excavator
- Reduces fuel consumption
- Allows maximum sensitivity even during overhanging movements



### Robust undercarriage

- Long lifespan and high stability
- Two carrier rollers and a track guide fitted as standard
- Large track-frame components for a long lifespan. Large B60L track frame





#### Liebherr key technologies

- Decades of experience in developing, designing and manufacturing components
- Liebherr-built hydraulic pumps, transfer boxes, slewing gears and drives and electronic components
- Component assembly in Germany and Switzerland uses state-of-the-art production processes





# Reliability

Experience is vital for innovative solutions. With over 50 years' experience manufacturing hydraulic excavators, Liebherr is constantly developing progressive solutions and setting new standards. Innovations are only taken to series production once they have passed a wide range of tests in rigorous practical applications.

## Highest quality

### Liebherr components

Components such as the slewing ring, slewing gear drive, hydraulic rams and electronic parts are developed, tested and manufactured by Liebherr exclusively for the company's construction machines. Components, such as the slewing ring and slewing drive for instance, are harmonised with one another during the construction phase, resulting in consistently high quality.

### Large hydraulic system

The large system and tank capacity ensures consistently good oil characteristics throughout the entire replacement interval. The hydraulic components are subjected to less stress and thus have a longer lifetime.

## Dependable details

### Fuel filter

The Liebherr centrifugal fuel filtering system comes as standard and reliably filters out water and dirt particles.

### Long lifespan

The large-volume three-chamber exhaust gas system ensures the long lifetime of the exhaust system and of the engine. It furthermore guarantees low noise emissions.

### Magnetic rod

The standard magnetic rod in the hydraulics system increases the lifespan of the oil and serves as a reliable service indicator.

### One-stop shop

At Liebherr, customers can find everything from hydraulic excavators, through quick-change systems, add-on tools and oils from a one-stop shop, and all at Liebherr's proven quality.



### Liebherr hydraulic rams

- Optimised sizes for every machine
- High-quality pin rod surface coating
- Special sealing system for rods and rams
- Special sealed bushings for the pin support
- Travel limit damping at both ends of working rams



### Clean air

- Intake air is drawn from the cleanest area behind the ballast weight
- 96 % of all dust and water particles is filtered out by primary centrifugal filters (option)
- The result is a long engine lifespan and long filter-replacement intervals
- Dust is deposited out of the undercarriage





#### Handling – easy and efficient

- Simple, stepless power adjustment via digital control element
- Clear overview of all major machine parameters on the display







# Comfort

All maintenance points on the superstructure are easy to access, enabling servicing work to be carried out quickly and easily. The driver's workplace is designed in accordance with the latest ergonomic know-how.

## Integrated maintenance solutions

### Accessibility

The large engine compartment door enables easy access and safe, comfortable execution of tasks in the engine compartment; all maintenance points are within easy reach.

### Maintenance-friendly track frame

Carrier rollers, track rollers and chain-link connecting pins are lubricated for life. The lubrication cylinder of the track tensioning unit is protected to prevent the entry of dirt.

## Comfort in the workplace

### Large-area cab

Large glass panels and sloping edges ensure optimum visibility over the entire site, guaranteeing relaxed and efficient machine operation.

### Plenty of space

Numerous storage options and additional compartments mean that everything has its place.

### Pleasant working climate

Low speeds, sophisticated sound-proofing and optimised Liebherr hydraulic components combine to ensure extraordinarily low sound values, comparable with those of a modern car.

### LSC-System

With the Liebherr-Synchron-Comfort system, delicate or rapid work can be carried out easily according to the task setup, even during overhanging movements.

### A place for everything

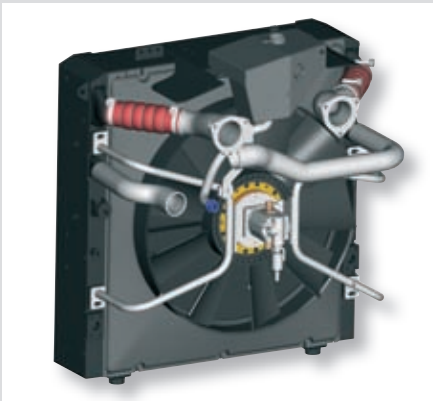
- Large open and closed storage trays
- Plenty of room for building site tools



### Low-maintenance

- Maintenance points easily accessible
- Large engine-compartment lid for accessible servicing





#### Intelligent cooling

- Thermostatically controlled cooling system – operates as and when required; reduces fuel consumption and noise levels
- Highly durable drive components
- Accelerated warm-up phase and cab temperature control
- Optional reversible fan for easy cleaning





# Economy

Every day on construction sites around the world, Liebherr crawler excavators demonstrate their constant availability. Long service intervals and easily accessible components reduce operating costs.

## Low operating costs

**Electronic engine-speed sensing control** The efficient transfer of engine power into hydraulic power equals an optimum utilisation of output. This results in a higher working speed and lower fuel consumption.

**Diversity of equipment** A hydraulically adjustable jib, an offset boom, a monoblock boom and an offset monoblock boom are available for the R 900 C Litronic for different applications.

## Future-proof and stable in value

**Customised services** Service personnel trained at the manufacturing plants themselves can provide you with customised services. Your direct line to Liebherr is ensured by the full integration of all service support locations in our own Liebherr logistics system. Electronic access to our worldwide spare parts management system means that replacement parts are available 98% of the time, around the clock.

**High resale value** Liebherr excavators are built using durable, high-quality materials and first-class workmanship for a long lifespan, thereby ensuring maximum value retention.

**Comprehensive range of services** Liebherr offers a range of individually customised services. With replacement components from the ReMan-, ReBuilt- and Repair ranges, Liebherr can provide the ideal solution, to approved manufacturer quality, for every requirement.



### Likufix

- Quick coupling system for hydraulic and mechanical special attachments
- All special attachments can be changed from the driver's cab
- Significant time savings compared to manual hydraulic hose connection



### Engine

- Water-cooled diesel engine with direct injection and turbocharger
- Large displacement of 6.4 l
- Engine speed of just 1,800 rpm during travel and operation
- High torque thanks to well-designed 4 cylinder technology



# Technical Data



## Engine

Rating per ISO 9249	95 kW (129 HP) at 1800 RPM
Model	Liebherr D 934 S according to level IIIA/Tier 3
Type	4 cylinder in-line
Bore/Stroke	122/136 mm
Displacement	6,4 l
Engine operation	4-stroke diesel unit pump system turbo-charged and after-cooled reduced emissions
Cooling system	water-cooled and integrated motor oil cooler
Air cleaner	dry-type air cleaner with pre-cleaner, primary and safety elements
Fuel tank	290 l
Engine idling	sensor controlled
Electrical system	
Voltage	24 V
Batteries	2 x 110 Ah/12 V
Alternator	three phase current 28 V/80 A
Option	Liebherr particle filter



## Hydraulic System

Hydraulic pump	Liebherr, variable displacement, swash-plate pump
Max. flow	300 l/min.
Max. hydr. pressure	350 bar
Hydraulic pump regulation and control	Liebherr-Synchron-Comfort-system (LSC) with electronic engine speed sensing regulation, pressure and flow compensation, load sensing and torque controlled swing drive priority
Hydraulic tank capacity	175 l
Hydraulic system capacity	max. 290 l
Filtration	one main return filter with integrated partial micro filtration (5 µm)
Cooling system	compact cooler, consisting of a water cooler, sandwiched with hydraulic oil cooler, fuel cooler and after-cooler cores and hydrostatically driven fan
Modes	can also be adjusted by the operator to adjust engine and hydraulic performance to match job conditions (Note: All modes provide full max. power)
LIFT	for precise lifting tasks
FINE	for precision work at high speed i.e. grading
ECO	for most economic performance at best environmental conditions
POWER	for max. output
Super-Finish	additional operator adjustable work speed function for further increased feathering. Applies to all modes and all control functions
RPM adjustment	stepless adjustment of engine output via rpm
Tool Control (Option)	ten preadjustable pump flows and pressures for add on tools



## Hydraulic Controls

Power distribution	via control valve with integrated safety valves, simultaneous and independent operation of travel drive, swing drive and work
Control type	
Attachment and swing	proportional via joystick levers
Travel	proportional via foot pedal
Additional functions	via switch and/or proportional foot pedals



## Swing Drive

Drive	Liebherr swashplate motor with torque control and integrated brake valve
Transmission	Liebherr compact planetary reduction gear
Swing ring	Liebherr sealed single race ball bearing swing ring, internal teeth
Swing speed	0 – 9,0 RPM stepless
Swing torque	42 kNm
Holding brake	wet discs (spring applied – pressure released)
Option	pedal controlled positioning brake



## Operator's Cab

Cab	resiliently mounted, sound insulated, tinted windows, front window stores overhead, door with sliding window
Operator's seat	fully adjustable, shockabsorbing suspension, adjustable to operator's weight and size, 6-way adjustable Liebherr seat
Joysticks	integrated into adjustable seat consoles
Monitoring	menu driven query of current operating conditions via the LCD display. Automatic monitoring, display, warning (acoustical and optical signal) and saving machine data, for example, engine overheating, low engine oil pressure or low hydraulic oil level
Air conditioning	standard air conditioning, combined cooler/heater, additional dust filter in fresh air/recirculated
Noise emission	
ISO 6396	$L_{pA}$ (inside cab) = 72 dB(A)
2000/14/EC	$L_{WA}$ (surround noise) = 99 dB(A)
Sound level in correspondence with "Blue Angel" guidelines.	



## Undercarriage

Drive	per side, Liebherr swashplate motor with automatic brake valves
Transmission	Liebherr planetary reduction gears
Travel speed	low range – 2,4 km/h high range – 5,0 km/h
Drawbar pull, max.	175 kN
Track components	B 60 L, maintenance-free
Track rollers/Carrier rollers	(16/4) 8/2 per side
Track pads	triple grouser
Chain tensioning	hydraulically
Brakes	wet multi discs (spring applied, pressure released)



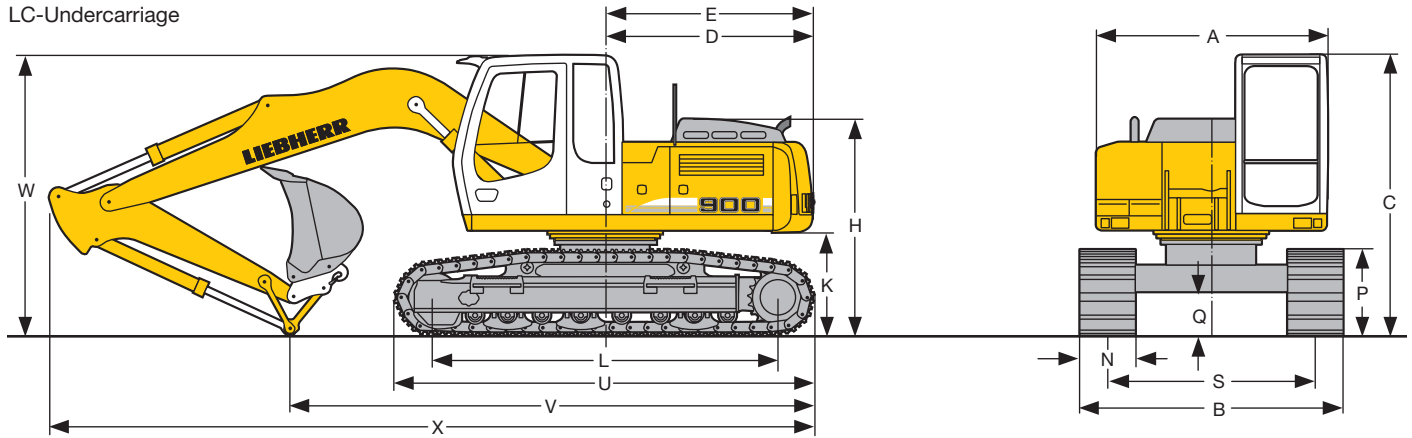
## Attachment

Hydraulic cylinders	Liebherr cylinders with special seal system. Shock absorption
Pivots	sealed, low maintenance
Lubrication	Liebherr semi-automatic central lubrication system
Bucket	standard equipped with 8 t safety hook for lifting
Option	Liebherr quick change adapter

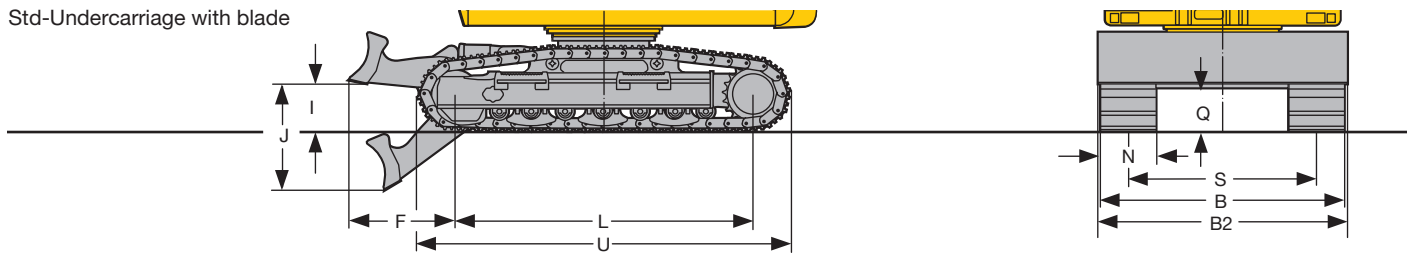


# Dimensions

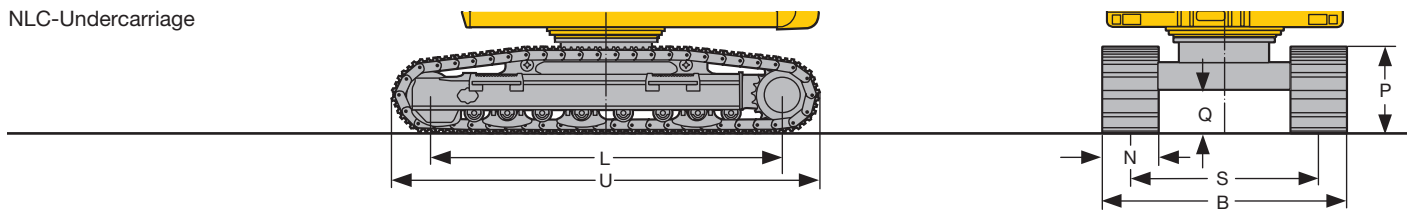
LC-Undercarriage



Std-Undercarriage with blade



NLC-Undercarriage



	LC	mm	Std	mm	NLC	mm
A		2550		2550		2550
C		3040		3040		3040
D		2260		2260		2260
E		2330		2330		2330
F		-		1135		-
H		2345		2345		2345
I		-		515		-
J		-		1130		-
K		1110		1110		1110

	LC	mm	Std	mm	NLC	mm
L		3750		3170		3750
P		925		925		925
Q		470		470		470
S		2250		2000		2000
U		4555		3975		4555
N	500	600	700	500	600	700
B	2750	2850	2950	2500	2600	2700
B2		-		2550	2650	2750

E = Tail radius

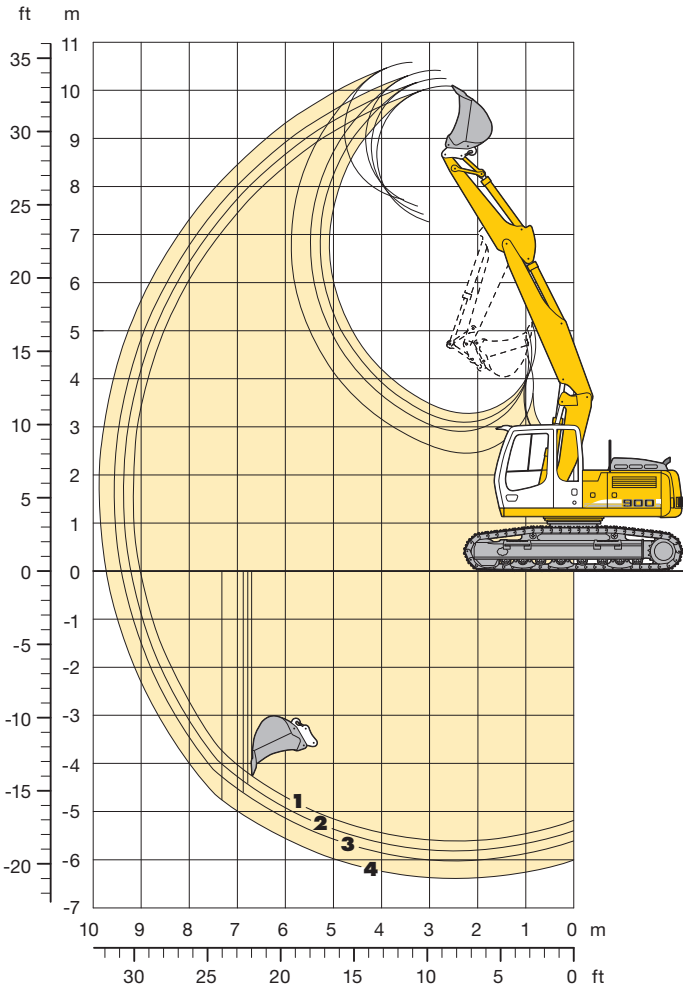
	Stick Length	Hydr. Adjustable Boom 3,60 m			Gooseneck Boom 5,00 m			Adjustable Up/Down Plus Offset 3,60 m			Adjustable Offset Boom 4,90 m		
		LC	Std with blade	NLC	LC	Std with blade	NLC	LC	Std with blade	NLC	LC	Std with blade	NLC
	m	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
V	2,25	6100	6100	6100	5700	5700	5700	6100	6100	6100	5800	5800	5800
	2,45	5950	5950	5950	5500	5500	5500	6000	6000	6000	5500	5500	5500
	2,65	5850	5850	5850	5350	5350	5350	5900	5900	5900	5150	5600*	5150
	3,05	5300	5800*	5300	4800	5300*	4800	5400	5850*	5400	4450	4900*	4450
W	2,25	2950	2950	2950	3050	3050	3050	2950	2950	2950	3050	3050	3050
	2,45	3000	3000	3000	3050	3050	3050	3000	3000	3000	3000	3000	3000
	2,65	3050	3050	3050	3100	3100	3100	3100	3100	3100	2900	2900*	2900
	3,05	3050	3050*	3050	3050	3050*	3050	3100	3100*	3100	2700	2700*	2700
X	2,25	8700	8700	8700	8450	8450	8450	8550	8550	8550	8350	8350	8350
	2,45	8650	8650	8650	8450	8450	8450	8650	8650	8650	8350	8350	8350
	2,65	8650	8650	8650	8450	8450	8450	8650	8650	8650	8350	8800*	8350
	3,05	8650	9100*	8650	8450	8900*	8450	8650	9050*	8650	8300	8750*	8300

\* Attachment over digging axle



# Backhoe Attachment

with Hydr. Adjustable Boom 3,60 m



## Digging Envelope with Quick Change Adapter

		1	2	3	4
Stick length	m	2,25	2,45	2,65	3,05
Max. digging depth	m	5,65	5,85	6,05	6,40
Max. reach at ground level	m	9,05	9,20	9,40	9,70
Max. dumping height	m	7,25	7,40	7,60	7,70
Max. teeth height	m	10,10	10,25	10,40	10,60
Min. attachment radius	m	2,70	2,80	2,85	2,75

## Digging Forces without Quick Change Adapter

		1	2	3	4
Max. digging force (ISO 6015)	kN	78,4	73,8	69,7	62,8
	t	8,0	7,5	7,1	6,4
Max. breakout force (ISO 6015)	kN	108,3	108,3	108,3	108,3
	t	11,0	11,0	11,0	11,0

Max. breakout force with ripper bucket 125,7 kN (12,8 t)  
 Max. possible digging force (stick 1,70 m) 100,6 kN (10,3 t)

## Operating Weight and Ground Pressure

Operating weight includes basic machine with triple grouser pads, hydr. adjustable boom 3,60 m, stick 2,25 m, quick change adapter 48 and bucket 1050 mm/0,80 m<sup>3</sup>.

Undercarriage	LC			Std with blade			NLC			
Pad width	mm	500	600	700	500	600	700	500	600	700
Weight	kg	20400	20700	20900	20600	20900	21000	20300	20600	20700
Ground pressure	kg/cm <sup>2</sup>	0,51	0,43	0,37	0,60	0,50	0,43	0,50	0,43	0,37

## 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	LC				Std with blade				NLC			
			Stick length (m)				Stick length (m)				Stick length (m)			
			2,25	2,45	2,65	3,05	2,25	2,45	2,65	3,05	2,25	2,45	2,65	3,05
650 <sup>2)</sup>	0,45	397	□	□	□	□	□	□	□	□	□	□	□	□
850 <sup>2)</sup>	0,60	433	□	□	□	□	□	□	□	□	□	□	□	□
1050 <sup>2)</sup>	0,80	512	□	□	□	△	□	□	△	□	□	□	□	△
1250 <sup>2)</sup>	0,95	556	□	△	△	■	□	△	△	■	□	△	△	■
650 <sup>3)</sup>	0,45	448	□	□	□	□	□	□	□	□	□	□	□	□
850 <sup>3)</sup>	0,60	498	□	□	□	□	□	□	□	□	□	□	□	□
1050 <sup>3)</sup>	0,80	587	□	□	△	■	□	△	△	■	□	□	△	■
1250 <sup>3)</sup>	0,95	645	□	△	■	▲	□	△	■	▲	□	△	■	▲
650 <sup>4)</sup>	0,45	380	□	□	□	□	□	□	□	□	□	□	□	□
850 <sup>4)</sup>	0,65	410	□	□	□	□	□	□	□	□	□	□	□	□
1050 <sup>4)</sup>	0,85	491	□	□	△	■	□	△	△	■	□	□	△	■
1250 <sup>4)</sup>	1,05	528	△	△	■	▲	△	△	■	▲	△	△	■	▲

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

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

<sup>2)</sup> Standard bucket <sup>3)</sup> HD-bucket <sup>4)</sup> Bucket with cutting lip

Max. material weight □ = ≤ 1,8 t/m<sup>3</sup>, △ = ≤ 1,5 t/m<sup>3</sup>, ■ = ≤ 1,2 t/m<sup>3</sup>, ▲ = -



# Lift Capacities

## with Hydr. Adjustable Boom 3,60 m

### Stick 2,25 m

m	Undercarriage	3,0 m		4,5 m		6,0 m		7,5 m		m
9,0	LC									
	Std with blade NLC									
7,5	LC			4,0*	4,0*				2,3*	2,3*
	Std with blade NLC			3,9*	3,9*				2,4*	2,4*
6,0	LC			4,7*	4,7*	3,8*	3,8*		2,1*	2,1*
	Std with blade NLC			4,7*	4,7*	3,8*	3,8*		2,1*	2,1*
4,5	LC	6,3*	6,3*	6,0*	6,0*	4,2	5,1*		2,0*	2,0*
	Std with blade NLC	6,3*	6,3*	6,0*	6,0*	4,1	5,1*		2,0*	2,0*
3,0	LC	11,3	11,5*	6,2*	7,3*	4,1	5,6*	2,8	3,8*	2,0*
	Std with blade NLC	11,0	11,5*	6,1	7,3*	4,1	5,6*	2,8	3,8*	2,0*
1,5	LC	10,7*	10,7*	6,0	8,2*	4,0	6,0*	2,7	4,7*	2,2*
	Std with blade NLC	10,8	10,9*	5,9*	8,2*	4,0	6,0*	2,7	4,7*	2,2*
0	LC	11,1	12,6*	6,1	8,4*	3,9	6,1*	2,7	4,6*	2,4*
	Std with blade NLC	10,8	12,6*	6,0	8,4*	3,9	6,1*	2,6	4,6*	2,4*
-1,5	LC	11,3	13,7*	6,0	8,5*	3,7	6,1*		2,7	3,0*
	Std with blade NLC	11,0	13,7*	5,9	8,5*	3,7	6,1*		2,7	3,0*
-3,0	LC	11,2	14,2*	5,7	8,4*	3,6	4,7*		3,3	3,6*
	Std mit Schild NLC	10,9	14,2*	5,6	8,5*	3,6	4,8*		3,2	3,6*
-4,5	LC								9,2*	9,2*
	Std with blade NLC	8,8*	8,8*						8,0*	8,0*

### Stick 2,45 m

m	Undercarriage	3,0 m		4,5 m		6,0 m		7,5 m		m
9,0	LC									
	Std with blade NLC									
7,5	LC			3,9*	3,9*				2,1*	2,1*
	Std with blade NLC			3,8*	3,8*				2,1*	2,1*
6,0	LC			4,3*	4,3*	3,8*	3,8*		1,9*	1,9*
	Std with blade NLC			4,3*	4,3*	3,7*	3,7*		1,9*	1,9*
4,5	LC			5,4*	5,4*	4,2	4,8*	2,5*	2,5*	1,8*
	Std with blade NLC			5,3*	5,3*	4,1	4,8*	2,5*	2,5*	1,8*
3,0	LC	11,3	11,4*	6,2	7,1*	4,1	5,5*	2,8	4,0*	1,8*
	Std with blade NLC	11,1	11,3*	6,1	7,1*	4,1	5,5*	2,8	3,9*	1,8*
1,5	LC	11,0*	11,0*	6,0	8,1*	4,1	5,9*	2,8	4,7*	2,0*
	Std with blade NLC	10,8	11,2*	5,9	8,1*	4,0	5,9*	2,7	4,7*	1,9*
0	LC	11,1	12,3*	6,1	8,4*	3,9	6,0*	2,7	4,6*	2,2*
	Std with blade NLC	10,9	12,3*	6,0	8,4*	3,9	6,0*	2,6	4,6*	2,2*
-1,5	LC	11,3	13,6*	6,0	8,5*	3,7	6,1*	2,6	2,8*	2,6*
	Std with blade NLC	11,0	13,6*	5,9	8,5*	3,7	6,1*	2,6	2,9*	2,5*
-3,0	LC	11,1	14,1*	5,7	8,5*	3,6	5,1*		3,1	3,6*
	Std mit Schild NLC	10,8	14,1*	5,6	8,5*	3,6	5,2*		3,0	3,5*
-4,5	LC								9,9*	9,9*
	Std with blade NLC	10,1*	10,1*						8,0*	8,0*

### Stick 2,65 m

m	Undercarriage	3,0 m		4,5 m		6,0 m		7,5 m		m
9,0	LC								2,6*	2,6*
	Std with blade NLC								2,6*	2,6*
7,5	LC			3,7*	3,7*				1,9*	1,9*
	Std with blade NLC			3,7*	3,7*				1,9*	1,9*
6,0	LC			4,0*	4,0*	3,6*	3,6*		1,7*	1,7*
	Std with blade NLC			3,9*	3,9*	3,6*	3,6*		1,7*	1,7*
4,5	LC			4,8*	4,8*	4,2	4,5*	2,8	2,9*	1,6*
	Std with blade NLC			4,7*	4,7*	4,1	4,4*	2,8	2,8*	1,6*
3,0	LC	10,8*	10,8*	6,2	6,9*	4,1	5,3*	2,8	4,0*	1,7*
	Std with blade NLC	10,7*	10,7*	6,1	6,9*	4,0	5,3*	2,8	4,0*	1,7*
1,5	LC	11,0*	11,0*	6,0	8,0*	4,1*	5,8*	2,8	4,6*	1,8*
	Std with blade NLC	10,8	11,1*	5,9	8,0*	4,0	5,8*	2,7	4,6*	1,8*
0	LC	10,9	11,9*	6,0	8,3*	4,0	6,0*	2,7	4,6*	2,0*
	Std with blade NLC	10,7*	11,8*	5,9	8,3*	3,9	6,0*	2,6	4,6*	2,0*
-1,5	LC	11,3	13,5*	6,0	8,4*	3,7	6,1*	2,6	4,0*	2,3*
	Std with blade NLC	11,0	13,5*	5,9	8,4*	3,7	6,1*	2,6	4,0*	2,3*
-3,0	LC	11,1	14,0*	5,7	8,6*	3,6	5,4*		2,9	3,1*
	Std mit Schild NLC	10,8	13,9*	5,6	8,6*	3,6	5,4*		2,9	3,1*
-4,5	LC								4,8*	4,8*
	Std with blade NLC	10,6	11,2*	5,4	5,7*				4,7*	4,7*

### Stick 3,05 m

m	Undercarriage	3,0 m		4,5 m		6,0 m		7,5 m		m
9,0	LC								2,0*	2,0*
	Std with blade NLC								2,0*	2,0*
7,5	LC					2,2*	2,2*		1,6*	1,6*
	Std with blade NLC					2,1*	2,1*		1,6*	1,6*
6,0	LC					3,2*	3,2*		1,4*	1,4*
	Std with blade NLC					3,2*	3,2*		1,4*	1,4*
4,5	LC			4,0*	4,0*	3,9*	3,9*	2,8*	2,8*	1,4*
	Std with blade NLC			4,0*	4,0*	3,9*	3,9*	2,8*	2,8*	1,4*
3,0	LC	9,7*	9,7*	6,2*	6,5*	4,1	5,1*	2,8	3,7*	1,4*
	Std with blade NLC	9,6*	9,6*	6,1	6,5*	4,0	5,1*	2,8	3,7*	1,4*
1,5	LC	11,0	11,2*	6,0	7,7*	4,1	5,7*	2,8	4,5*	1,5*
	Std with blade NLC	10,8	11,2*	5,9	7,7*	4,0	5,6*	2,7	4,5*	1,5*
0	LC	11,0	11,2*	6,0*	8,3*	3,9	5,9*	2,7	4,6*	1,7*
	Std with blade NLC	10,7	11,1*	5,9*	8,3*	3,9*	5,9*	2,6	4,6*	1,7*
-1,5	LC	11,2	13,1*	6,0	8,3*	3,8	6,0*	2,6	4,4*	2,0*
	Std with blade NLC	10,9	13,1*	5,9	8,3*	3,7	6,0*	2,6	4,4*	2,0*
-3,0	LC	11,0	13,7*	5,8	8,6*	3,6	5,8*		2,7	2,7*
	Std mit Schild NLC	10,8	13,7*	5,7	8,6*	3,6	5,8*		2,6	2,7*
-4,5	LC								4,8*	4,8*
	Std with blade NLC	10,5	12,7*	5,4	6,9*				3,8*	3,8*

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

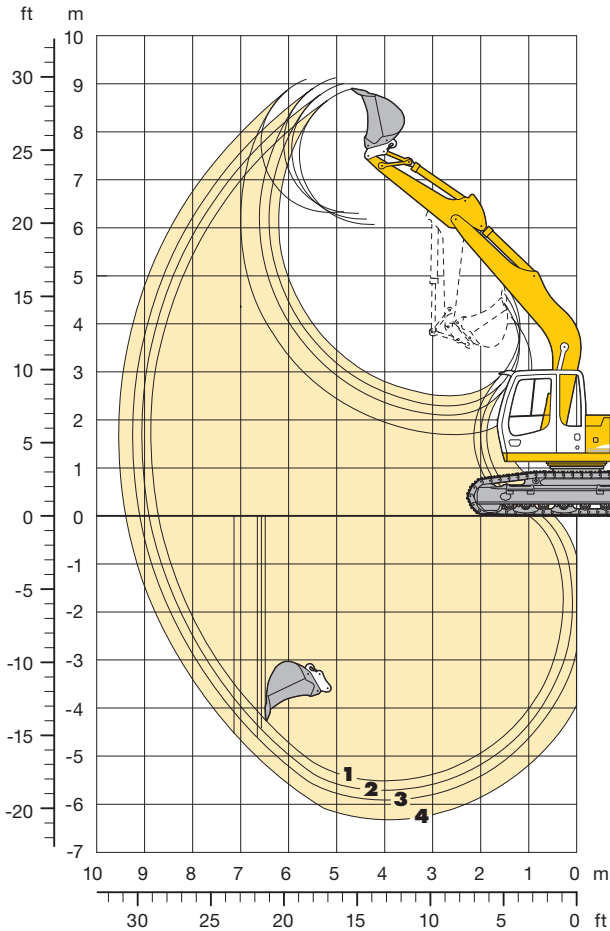
The lift capacities on the load hook of the Liebherr quick-change adapter 48 without grab attachment are stated in metric tons (t) and are valid on a firm, level supporting surface. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the stabilisers with the stabilisers down. The values apply to track pads measuring 600 mm in width when the adjusting cylinder is in the optimal position. Indicated loads comply with the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity, or are limited by the permissible load of the load hook on the quick-change adapter (max. 12 t). Without the quick-change adapter, lift capacities will increase by up to 226 kg.

In accordance with the harmonised EU Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe rupture protection devices on the hoist cylinders and an overload warning device.



# Backhoe Attachment

with Gooseneck Boom 5,00 m



## Digging Envelope with Quick Change Adapter

		1	2	3	4
Stick length	m	2,25	2,45	2,65	3,05
Max. digging depth	m	5,50	5,70	5,90	6,30
Max. reach at ground level	m	8,70	8,90	9,10	9,40
Max. dumping height	m	6,05	6,20	6,30	6,35
Max. teeth height	m	8,90	9,00	9,10	9,10
Min. attachment radius	m	3,20	3,15	3,15	2,90

## Digging Forces without Quick Change Adapter

		1	2	3	4
Max. digging force (ISO 6015)	kN	78,4	73,8	69,7	62,8
	t	8,0	7,5	7,1	6,4
Max. breakout force (ISO 6015)	kN	108,3	108,3	108,3	108,3
	t	11,0	11,0	11,0	11,0

Max. breakout force with ripper bucket 125,7 kN (12,8 t)  
 Max. possible digging force (stick 1,70 m) 100,6 kN (10,3 t)

## Operating Weight and Ground Pressure

Operating weight includes basic machine with triple grouser pads, gooseneck boom 5,00 m, stick 2,25 m, quick change adapter 48 and bucket 1050 mm/0,80 m<sup>3</sup>.

Undercarriage	LC			Std with blade			NLC			
Pad width	mm	500	600	700	500	600	700	500	600	700
Weight	kg	20100	20400	20600	20300	20600	20700	20000	20300	20400
Ground pressure	kg/cm <sup>2</sup>	0,50	0,42	0,37	0,59	0,50	0,43	0,50	0,42	0,36

## 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	LC				Std with blade				NLC			
			Stick length (m)				Stick length (m)				Stick length (m)			
			2,25	2,45	2,65	3,05	2,25	2,45	2,65	3,05	2,25	2,45	2,65	3,05
650 <sup>2)</sup>	0,45	397	□	□	□	□	□	□	□	□	□	□	□	□
850 <sup>2)</sup>	0,60	433	□	□	□	□	□	□	□	□	□	□	□	□
1050 <sup>2)</sup>	0,80	512	□	□	□	△	□	□	△	□	□	□	□	△
1250 <sup>2)</sup>	0,95	556	□	△	△	■	□	△	△	■	□	△	△	■
650 <sup>3)</sup>	0,45	448	□	□	□	□	□	□	□	□	□	□	□	□
850 <sup>3)</sup>	0,60	498	□	□	□	□	□	□	□	□	□	□	□	□
1050 <sup>3)</sup>	0,80	587	□	□	□	■	□	□	□	■	□	□	□	■
1250 <sup>3)</sup>	0,95	645	□	△	■	▲	□	△	■	▲	□	△	■	▲
650 <sup>4)</sup>	0,45	380	□	□	□	□	□	□	□	□	□	□	□	□
850 <sup>4)</sup>	0,65	410	□	□	□	□	□	□	□	□	□	□	□	□
1050 <sup>4)</sup>	0,85	491	□	□	□	■	□	□	□	■	□	□	□	■
1250 <sup>4)</sup>	1,05	528	□	△	■	▲	□	△	■	▲	□	△	■	▲

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

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

<sup>2)</sup> Standard bucket <sup>3)</sup> HD-bucket <sup>4)</sup> Bucket with cutting lip

Max. material weight □ = ≤ 1,8 t/m<sup>3</sup>, △ = ≤ 1,5 t/m<sup>3</sup>, ■ = ≤ 1,2 t/m<sup>3</sup>, ▲ = -



# Lift Capacities

## with Gooseneck Boom 5,00 m

### Stick 2,25 m

m	Undercarriage	3,0 m		4,5 m		6,0 m		7,5 m		m
		LC	NLC	LC	NLC	LC	NLC	LC	NLC	
9,0	LC Std with blade NLC									
7,5	LC Std with blade NLC									
6,0	LC Std with blade NLC					2,9* 2,8*	2,9* 2,8*		2,1* 2,1*	6,26
4,5	LC Std with blade NLC					4,0 3,5	4,2* 4,2*		2,0* 2,0*	7,11
3,0	LC Std with blade NLC	9,2* 9,1*	9,2* 9,1*	5,9* 5,2	5,9* 5,9*	3,9 3,4	4,8* 4,8*	2,3* 2,3*	2,3* 2,0*	7,55
1,5	LC Std with blade NLC			5,6 4,8	7,4* 7,4*	3,7 3,2	5,4* 5,4*	2,7 2,3	3,2* 3,2*	7,67
0	LC Std with blade NLC	5,7* 5,7*	5,7* 5,7*	5,3 4,6	8,2* 8,2*	3,6 3,1	5,9* 5,9*		2,6* 2,3	7,47
-1,5	LC Std with blade NLC	8,8* 8,7*	8,8* 8,7*	5,3 5,2	8,3* 8,3*	3,5 3,5	6,0* 6,0*		2,9 2,5	6,93
-3,0	LC Std mit Schild NLC	10,3 10,0	11,0* 11,1*	5,4 5,3	7,5* 7,5*				3,6 3,6	5,96
-4,5	LC Std with blade NLC			4,6	7,5*				3,1	

### Stick 2,45 m

m	Undercarriage	3,0 m		4,5 m		6,0 m		7,5 m		m
		LC	NLC	LC	NLC	LC	NLC	LC	NLC	
9,0	LC Std with blade NLC									
7,5	LC Std with blade NLC								2,1* 2,1*	5,10
6,0	LC Std with blade NLC							3,1* 3,1*	3,1* 3,1*	6,50
4,5	LC Std with blade NLC					4,0* 3,5	4,0* 4,0*		1,8* 1,8*	7,32
3,0	LC Std with blade NLC	8,5* 8,4*	8,5* 8,4*	5,6* 5,2	5,6* 5,6*	3,9 3,4	4,6* 4,6*	2,7 2,4	2,9* 2,9*	7,75
1,5	LC Std with blade NLC	5,3* 5,4*	5,3* 5,4*	5,6 4,8	7,2* 7,2*	3,7 3,2	5,3* 5,3*	2,7 2,3	3,7* 3,7*	7,86
0	LC Std with blade NLC	5,8* 5,7*	5,8* 5,7*	5,3 4,6	8,1* 8,1*	3,6 3,1	5,9* 5,9*	2,6 2,3	3,4* 3,4*	7,67
-1,5	LC Std with blade NLC	8,5* 8,4*	8,5* 8,4*	5,3 5,2	8,3* 8,3*	3,5 3,5	6,0* 6,0*		2,8 2,7	7,15
-3,0	LC Std mit Schild NLC	10,2 9,9	11,3* 11,4*	5,3 5,2	7,6* 7,7*	3,6 3,5	5,4* 5,4*		2,4 3,3	6,21
-4,5	LC Std with blade NLC			4,8	5,4*				5,3* 4,7	4,58

### Stick 2,65 m

m	Undercarriage	3,0 m		4,5 m		6,0 m		7,5 m		m
		LC	NLC	LC	NLC	LC	NLC	LC	NLC	
9,0	LC Std with blade NLC									
7,5	LC Std with blade NLC								1,9* 1,9*	5,40
6,0	LC Std with blade NLC					3,2* 3,1*	3,2* 3,1*		1,7* 1,7*	6,73
4,5	LC Std with blade NLC					3,8* 3,6	3,8* 3,8*	1,7* 1,7*	1,6* 1,6*	7,53
3,0	LC Std with blade NLC	7,9* 7,8*	7,9* 7,8*	5,4* 5,3*	5,4* 5,4*	3,9 3,4	4,5* 4,5*	2,7 2,4	3,2* 3,2*	7,95
1,5	LC Std with blade NLC	6,3* 6,3*	6,3* 6,3*	5,6 4,8	6,9* 6,9*	3,7 3,2	5,2* 5,2*	2,7 2,3	4,0* 4,0*	8,05
0	LC Std with blade NLC	5,9* 5,9*	5,9* 5,9*	5,3 4,5	8,0* 8,0*	3,5 3,0	5,8* 5,8*	2,6 2,2	4,0* 4,0*	7,87
-1,5	LC Std with blade NLC	8,1* 8,1*	8,1* 8,1*	5,2 4,4	8,3* 8,3*	3,5 3,0	6,0* 6,0*		2,5* 2,3	7,36
-3,0	LC Std mit Schild NLC	10,1 9,8	11,6* 11,7*	5,3 5,2	7,7* 7,8*	3,5 3,5	5,5* 5,5*		3,2 2,8	6,45
-4,5	LC Std with blade NLC			4,7	5,9*				4,8 4,7	4,91

### Stick 3,05 m

m	Undercarriage	3,0 m		4,5 m		6,0 m		7,5 m		m
		LC	NLC	LC	NLC	LC	NLC	LC	NLC	
9,0	LC Std with blade NLC									
7,5	LC Std with blade NLC								1,6* 1,6*	5,79
6,0	LC Std with blade NLC					2,9* 2,9*	2,9* 2,9*		1,4* 1,4*	7,05
4,5	LC Std with blade NLC					3,5* 3,5*	3,5* 3,5*	2,1* 2,1*	2,1* 2,1*	7,81
3,0	LC Std with blade NLC			4,9* 4,8*	4,9* 4,8*	3,9 3,4	4,1* 4,1*	2,8 2,4	3,1* 3,1*	8,21
1,5	LC Std with blade NLC	9,7* 9,9*	9,7* 9,9*	5,7 5,6	6,5* 6,5*	3,7 3,2	4,9* 4,9*	2,7 2,3	3,9* 3,9*	8,32
0	LC Std with blade NLC	6,7* 6,7*	6,7* 6,7*	5,3 4,6	7,8* 7,8*	3,5 3,0	5,6* 5,6*	2,6 2,2	4,3* 4,3*	8,14
-1,5	LC Std with blade NLC	8,1* 8,1*	8,1* 8,1*	5,2 4,4	8,2* 8,2*	3,5 3,0	5,9* 5,9*	2,5 2,2	3,0* 3,0*	7,65
-3,0	LC Std mit Schild NLC	10,0 9,7	10,8* 10,7*	5,2 5,1	7,9* 7,9*	3,5 3,4	5,7* 5,7*		2,9 2,5	6,78
-4,5	LC Std with blade NLC			4,6	6,5*				4,2 4,1	5,34

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

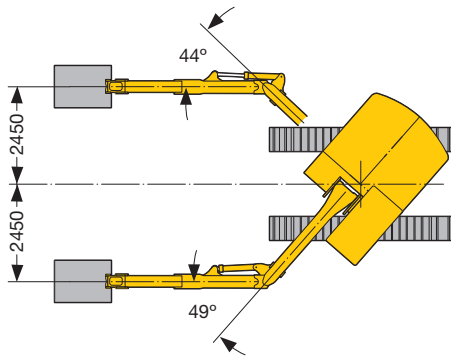
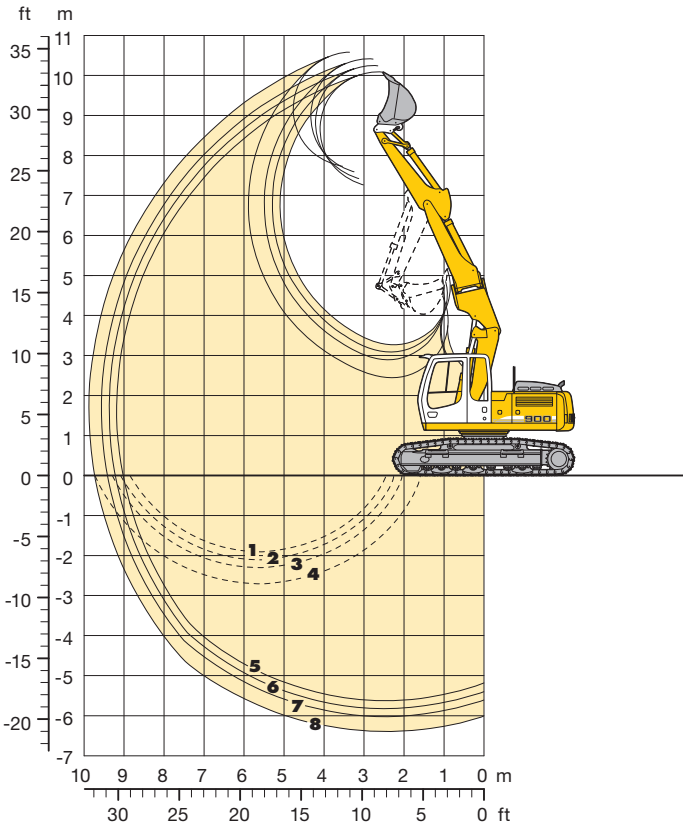
The lift capacities on the load hook of the Liebherr quick-change adapter 48 without grab attachment are stated in metric tons (t) and are valid on a firm, level supporting surface. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the stabilisers with the stabilisers down. The values apply to track pads measuring 600 mm in width. Indicated loads comply with the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity, or are limited by the permissible load of the load hook on the quick-change adapter (max. 12 t). Without the quick-change adapter, lift capacities will increase by up to 226 kg.

In accordance with the harmonised EU Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe rupture protection devices on the hoist cylinders and an overload warning device.



# Backhoe Attachment

with Adjustable Up/Down Plus Offset Boom 3,60 m



## Digging Envelope with Quick Change Adapter

		5	6	7	8
Stick length	m	2,25	2,45	2,65	3,05
Max. digging depth	m	5,60	5,80	6,00	6,40
Max. reach at ground level	m	9,00	9,20	9,40	9,70
Max. dumping height	m	7,25	7,40	7,60	7,75
Max. teeth height	m	10,10	10,25	10,40	10,60
Min. attachment radius	m	2,75	2,85	2,95	2,80

- 1** stick 2,25 m
- 2** stick 2,45 m
- 3** stick 2,65 m
- 4** stick 3,05 m
- at max. attachment offset with vertical ditch walls
- 5** stick 2,25 m
- 6** stick 2,45 m
- 7** stick 2,65 m
- 8** stick 3,05 m
- with set straight boom

## Digging Forces without Quick Change Adapter

		5	6	7	8
Max. digging force (ISO 6015)	kN	78,4	73,8	69,7	62,8
	t	8,0	7,5	7,1	6,4
Max. breakout force (ISO 6015)	kN	108,3	108,3	108,3	108,3
	t	11,0	11,0	11,0	11,0

Max. breakout force with ripper bucket 125,7 kN (12,8 t)  
 Max. possible digging force (stick 1,70 m) 100,6 kN (10,3 t)

## Operating Weight and Ground Pressure

Operating weight includes basic machine with triple grouser pads, hydr. adjustable offset boom 3,60 m, stick 2,25 m, quick change adapter 48 and bucket 1050 mm/0,80 m<sup>3</sup>.

	Undercarriage	LC			Std with blade			NLC		
		500	600	700	500	600	700	500	600	700
Pad width	mm	500	600	700	500	600	700	500	600	700
Weight	kg	21100	21400	21500	21200	21500	21600	20900	21200	21400
Ground pressure	kg/cm <sup>2</sup>	0,52	0,44	0,38	0,62	0,52	0,45	0,52	0,44	0,38

## 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	LC				Std with blade				NLC			
			Stick length (m)				Stick length (m)				Stick length (m)			
			2,25	2,45	2,65	3,05	2,25	2,45	2,65	3,05	2,25	2,45	2,65	3,05
650 <sup>2)</sup>	0,45	397	□	□	□	□	□	□	□	□	□	□	□	□
850 <sup>2)</sup>	0,60	433	□	□	□	□	□	□	□	□	□	□	□	□
1050 <sup>2)</sup>	0,80	512	□	□	△	■	□	△	■	□	□	△	■	
650 <sup>3)</sup>	0,45	448	□	□	□	□	□	□	□	□	□	□	□	□
850 <sup>3)</sup>	0,60	498	□	□	□	□	□	□	□	□	□	□	□	□
1050 <sup>3)</sup>	0,80	587	□	□	△	■	□	△	■	□	□	△	■	
650 <sup>4)</sup>	0,45	380	□	□	□	□	□	□	□	□	□	□	□	□
850 <sup>4)</sup>	0,65	410	□	□	□	□	□	□	□	□	□	□	□	□
1050 <sup>4)</sup>	0,85	491	□	□	△	■	□	△	■	□	□	△	■	

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

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

<sup>2)</sup> Standard bucket    <sup>3)</sup> HD-bucket    <sup>4)</sup> Bucket with cutting lip

Max. material weight □ = ≤ 1,8 t/m<sup>3</sup>, △ = ≤ 1,5 t/m<sup>3</sup>, ■ = ≤ 1,2 t/m<sup>3</sup>, ▲ = -



# Lift Capacities

with Adjustable Up/Down Plus Offset Boom 3,60 m

## Stick 2,25 m

m	Undercarriage	3,0 m		4,5 m		6,0 m		7,5 m		m	
9,0	LC										
	Std with blade NLC										
7,5	LC			4,0*	4,0*					2,3*	2,3*
	Std with blade NLC			3,9*	3,9*					2,3*	2,3*
6,0	LC			4,7*	4,7*	3,8*	3,8*			2,0*	2,0*
	Std with blade NLC			4,7*	4,7*	3,8*	3,8*			2,0*	2,0*
4,5	LC	6,2*	6,2*	6,0*	6,0*	4,2	5,0*			1,9*	1,9*
	Std with blade NLC	6,1*	6,1*	6,0*	6,0*	4,1	5,0*			1,9*	1,9*
3,0	LC	11,1*	11,1*	6,1	7,1*	4,1	5,4*	2,7	3,8*	1,9*	1,9*
	Std with blade NLC	10,9	11,1*	6,0*	7,1*	4,1	5,4*	2,7	3,7*	1,9*	1,9*
1,5	LC	11,0	11,0*	6,0	7,9*	4,0	5,8*	2,6	4,5*	2,1*	2,1*
	Std with blade NLC	10,7	11,0*	5,9	7,9*	4,0	5,7*	2,6	4,5*	2,1*	2,1*
0	LC	11,0	12,3*	6,1	8,1*	3,8	5,8*	2,5	4,4*	2,3*	2,3*
	Std with blade NLC	10,7	12,3*	6,0	8,1*	3,8	5,8*	2,5	4,4*	2,3*	2,3*
-1,5	LC	11,2	13,3*	5,9	8,2*	3,6	5,9*			2,6	2,8*
	Std with blade NLC	10,9	13,3*	5,8	8,2*	3,6	5,9*			2,5	2,8*
-3,0	LC	11,0	13,9*	5,5	8,2*	3,5	4,5*			3,1	3,4*
	Std mit Schild NLC	10,7	13,9*	5,4	8,2*	3,4	4,5*			3,1	3,4*
-4,5	LC									8,4*	8,4*
	Std with blade NLC	8,4*	8,4*							7,4*	7,4*

## Stick 2,45 m

m	Undercarriage	3,0 m		4,5 m		6,0 m		7,5 m		m	
9,0	LC										
	Std with blade NLC										
7,5	LC			3,9*	3,9*					2,1*	2,1*
	Std with blade NLC			3,8*	3,8*					2,1*	2,1*
6,0	LC			4,3*	4,3*	3,7*	3,7*			1,8*	1,8*
	Std with blade NLC			4,3*	4,3*	3,7*	3,7*			1,8*	1,8*
4,5	LC			5,3*	5,3*	4,2	4,8*	2,5*	2,5*	1,7*	1,7*
	Std with blade NLC			5,3*	5,3*	4,2	4,8*	2,5*	2,5*	1,7*	1,7*
3,0	LC	11,0*	11,0*	6,1*	6,9*	4,1	5,3*	2,7	3,9*	1,8*	1,8*
	Std with blade NLC	11,0*	11,0*	6,1*	6,9*	4,1	5,3*	2,7	3,9*	1,8*	1,8*
1,5	LC	10,9*	10,9*	6,0	7,8*	4,1	5,7*	2,7	4,5*	1,9*	1,9*
	Std with blade NLC	10,7	10,9*	5,9	7,8*	4,0	5,7*	2,6	4,5*	1,9*	1,9*
0	LC	11,0*	12,0*	6,0*	8,0*	3,9	5,8*	2,6	4,4*	2,1*	2,1*
	Std with blade NLC	10,8	11,9*	6,0	8,0*	3,8	5,8*	2,5	4,4*	2,1*	2,1*
-1,5	LC	11,2	13,2*	5,9	8,2*	3,6	5,9*	2,5	2,7*	2,4	2,5*
	Std with blade NLC	10,9	13,2*	5,8	8,2*	3,6	5,9*	2,4	2,8*	2,4	2,5*
-3,0	LC	11,0	13,8*	5,5	8,2*	3,5	4,9*			2,9	3,3*
	Std mit Schild NLC	10,7	13,8*	5,4	8,2*	3,4	4,9*			2,9	3,3*
-4,5	LC									5,4*	5,4*
	Std with blade NLC	9,7*	9,7*							5,3*	5,3*

## Stick 2,65 m

m	Undercarriage	3,0 m		4,5 m		6,0 m		7,5 m		m	
9,0	LC									2,5*	2,5*
	Std with blade NLC									2,6*	2,6*
7,5	LC			3,7*	3,7*					1,9*	1,9*
	Std with blade NLC			3,7*	3,7*					1,9*	1,9*
6,0	LC			4,0*	4,0*	3,6*	3,6*			1,7*	1,7*
	Std with blade NLC			3,9*	3,9*	3,6*	3,6*			1,7*	1,7*
4,5	LC			4,8*	4,8*	4,2*	4,5*	2,8	2,8*	1,6*	1,6*
	Std with blade NLC			4,7*	4,7*	4,1	4,4*	2,7	2,8*	1,6*	1,6*
3,0	LC	10,5*	10,5*	6,2	6,7*	4,1	5,2*	2,8	4,0*	1,6*	1,6*
	Std with blade NLC	10,5*	10,5*	6,1	6,7*	4,0	5,2*	2,7	4,0*	1,6*	1,6*
1,5	LC	10,2*	10,2*	6,0*	7,7*	4,0	5,6*	2,7	4,5*	1,7*	1,7*
	Std with blade NLC	10,1*	10,2*	5,9	7,7*	4,0	5,6*	2,7	4,4*	1,7*	1,7*
0	LC	10,8	11,6*	5,9	8,0*	3,9*	5,8*	2,6	4,4*	1,9*	1,9*
	Std with blade NLC	10,5	11,5*	5,9	8,0*	3,9*	5,8*	2,5	4,4*	1,9*	1,9*
-1,5	LC	11,2	13,1*	5,9	8,1*	3,6	5,9*	2,5	3,9*	2,2*	2,2*
	Std with blade NLC	10,9	13,0*	5,8	8,1*	3,6	5,9*	2,4	3,9*	2,2*	2,2*
-3,0	LC	10,9	13,6*	5,6	8,3*	3,5	5,1*			2,8	2,9*
	Std mit Schild NLC	10,6	13,6*	5,5	8,3*	3,4	5,2*			2,7	2,9*
-4,5	LC									4,5*	4,5*
	Std with blade NLC	10,2	10,8*	5,2	5,4*					4,4*	4,4*

## Stick 3,05 m

m	Undercarriage	3,0 m		4,5 m		6,0 m		7,5 m		m	
9,0	LC									1,9*	1,9*
	Std with blade NLC									2,0*	2,0*
7,5	LC					2,2*	2,2*			1,5*	1,5*
	Std with blade NLC					2,1*	2,1*			1,5*	1,5*
6,0	LC					3,2*	3,2*			1,4*	1,4*
	Std with blade NLC					3,2*	3,2*			1,4*	1,4*
4,5	LC			4,0*	4,0*	3,9*	3,9*	2,8*	2,8*	1,3*	1,3*
	Std with blade NLC			4,0*	4,0*	3,9*	3,9*	2,8*	2,8*	1,3*	1,3*
3,0	LC	9,6*	9,6*	6,2	6,4*	4,1	5,0*	2,8	3,7*	1,4*	1,4*
	Std with blade NLC	9,5*	9,5*	6,1	6,3*	4,0	5,0*	2,8	3,7*	1,3*	1,3*
1,5	LC	10,9	10,9*	6,0	7,5*	4,0*	5,5*	2,7	4,4*	1,4*	1,4*
	Std with blade NLC	10,7	10,8*	5,9	7,4*	4,0*	5,5*	2,7	4,4*	1,4*	1,4*
0	LC	10,9*	11,0*	5,8	7,9*	3,9	5,7*	2,6	4,4*	1,6*	1,6*
	Std with blade NLC	10,6	11,0*	5,8*	7,9*	3,9*	5,7*	2,6	4,4*	1,6*	1,6*
-1,5	LC	11,0	12,7*	6,0	8,0*	3,7	5,8*	2,5	4,2*	1,9*	1,9*
	Std with blade NLC	10,9	12,7*	5,9	8,0*	3,6	5,8*	2,4	4,2*	1,9*	1,9*
-3,0	LC	10,9	13,3*	5,7	8,3*	3,5	5,5*			2,5	2,6*
	Std mit Schild NLC	10,6	13,3*	5,6	8,3*	3,4	5,6*			2,5	2,6*
-4,5	LC									3,5*	3,5*
	Std with blade NLC	10,2	12,3*	5,2	6,7*					3,5*	3,5*

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

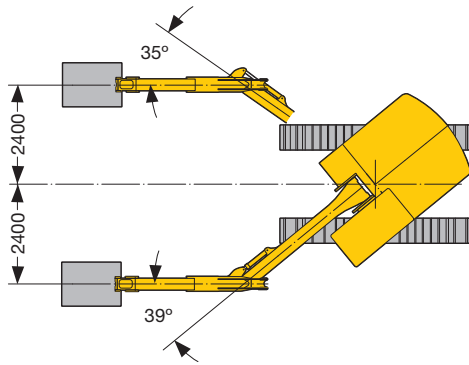
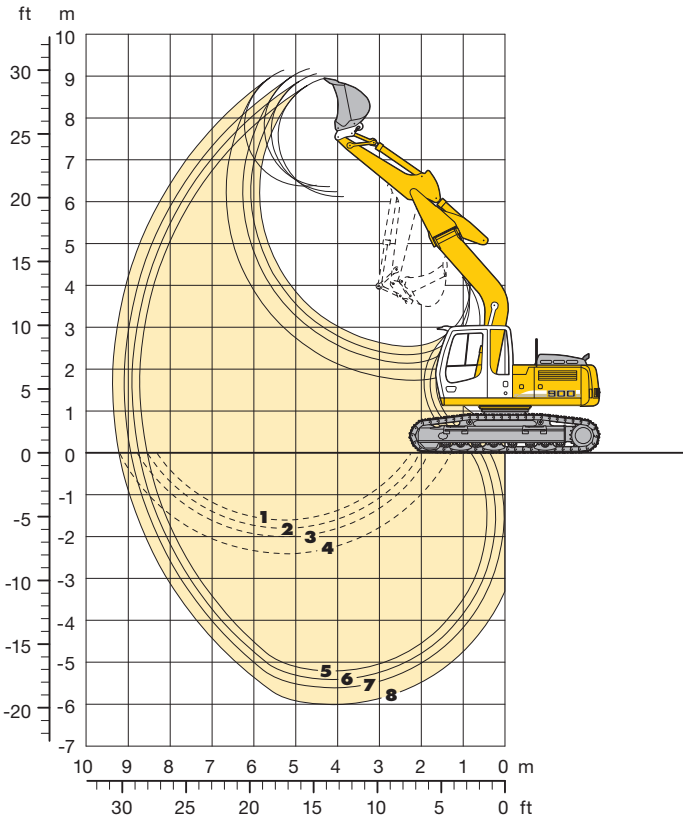
The lift capacities on the load hook of the Liebherr quick-change adapter 48 without grab attachment are stated in metric tons (t) and are valid on a firm, level supporting surface. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the stabilisers with the stabilisers down. The values apply to track pads measuring 600 mm in width when the adjusting cylinder is in the optimal position. Indicated loads comply with the ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity, or are limited by the permissible load of the load hook on the quick-change adapter (max. 12 t). Without the quick-change adapter, lift capacities will increase by up to 226 kg.

In accordance with the harmonised EU Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe rupture protection devices on the hoist cylinders and an overload warning device.



# Backhoe Attachment

with Adjustable Offset Boom 4,90 m



## Digging Envelope with Quick Change Adapter

		5	6	7	8
Stick length	m	2,25	2,45	2,65	3,05
Max. digging depth	m	5,20	5,40	5,60	6,00
Max. reach at ground level	m	8,55	8,75	8,95	9,20
Max. dumping height	m	6,10	6,25	6,35	6,40
Max. teeth height	m	8,95	9,05	9,20	9,15
Min. attachment radius	m	3,30	3,05	2,90	2,55

- 1** stick 2,25 m
  - 2** stick 2,45 m
  - 3** stick 2,65 m
  - 4** stick 3,05 m
  - 5** stick 2,25 m
  - 6** stick 2,45 m
  - 7** stick 2,65 m
  - 8** stick 3,05 m
- at max. attachment offset with vertical ditch walls      with set straight boom

## Digging Forces without Quick Change Adapter

		5	6	7	8
Max. digging force (ISO 6015)	kN	78,4	73,8	69,7	62,8
	t	8,0	7,5	7,1	6,4
Max. breakout force (ISO 6015)	kN	108,3	108,3	108,3	108,3
	t	11,0	11,0	11,0	11,0

Max. breakout force with ripper bucket      125,7 kN (12,8 t)  
 Max. possible digging force (stick 1,70 m)      100,6 kN (10,3 t)

## Operating Weight and Ground Pressure

Operating weight includes basic machine with triple grouser pads, adjustable offset boom 4,90 m, stick 2,25 m, quick change adapter 48 and bucket 1050 mm/0,80 m<sup>3</sup>.

Undercarriage	LC			Std with blade			NLC			
Pad width	mm	500	600	700	500	600	700	500	600	700
Weight	kg	20500	20800	20900	20600	20900	21000	20300	20600	20800
Ground pressure	kg/cm <sup>2</sup>	0,51	0,43	0,37	0,60	0,51	0,44	0,50	0,43	0,37

## 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	LC				Std with blade				NLC			
			Stick length (m)				Stick length (m)				Stick length (m)			
			2,25	2,45	2,65	3,05	2,25	2,45	2,65	3,05	2,25	2,45	2,65	3,05
650 <sup>2)</sup>	0,45	397	□	□	□	□	□	□	□	□	□	□	□	□
850 <sup>2)</sup>	0,60	433	□	□	□	□	□	□	□	□	□	□	□	□
1050 <sup>2)</sup>	0,80	512	□	□	△	■	□	△	■	□	□	△	■	
650 <sup>3)</sup>	0,45	448	□	□	□	□	□	□	□	□	□	□	□	□
850 <sup>3)</sup>	0,60	498	□	□	□	□	□	□	□	□	□	□	□	□
1050 <sup>3)</sup>	0,80	587	□	□	△	■	□	△	■	□	□	△	■	
650 <sup>4)</sup>	0,45	380	□	□	□	□	□	□	□	□	□	□	□	□
850 <sup>4)</sup>	0,65	410	□	□	□	□	□	□	□	□	□	□	□	□
1050 <sup>4)</sup>	0,85	491	□	□	△	■	□	△	■	□	□	△	■	

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

- <sup>1)</sup> comparable with SAE (heaped)
- <sup>2)</sup> Standard bucket    <sup>3)</sup> HD-bucket    <sup>4)</sup> Bucket with cutting lip

Max. material weight    □ = ≤ 1,8 t/m<sup>3</sup>,    △ = ≤ 1,5 t/m<sup>3</sup>,    ■ = ≤ 1,2 t/m<sup>3</sup>,    ▲ = -



# Lift Capacities

## with Adjustable Offset Boom 4,90 m

### Stick 2,25 m

m	Undercarriage	3,0 m		4,5 m		6,0 m		7,5 m		m
		LC	NLC	LC	NLC	LC	NLC	LC	NLC	
9,0	LC Std with blade NLC									
7,5	LC Std with blade NLC									
6,0	LC Std with blade NLC					2,1* 2,1*	2,1* 2,1*	1,9* 1,9*	1,9* 1,9*	6,06
4,5	LC Std with blade NLC			4,9* 4,9*	4,9* 4,9*	4,0 4,3*	4,0 4,3*	1,9* 1,9*	1,9* 1,9*	6,93
3,0	LC Std with blade NLC	9,5* 9,5*	9,5* 9,5*	6,0 6,2*	6,2* 6,2*	3,9 5,0*	3,8 5,0*	1,9* 1,9*	1,9* 1,9*	7,38
1,5	LC Std with blade NLC	5,9* 5,9*	5,9* 5,9*	5,5 7,5*	5,4 7,5*	3,7 5,5*	3,6 5,5*	2,1* 2,1*	2,1* 2,1*	7,50
0	LC Std with blade NLC	6,7* 6,7*	6,7* 6,7*	5,2 8,2*	5,2 8,2*	3,5 5,9*	3,5 5,9*	2,5* 2,5*	2,5* 2,5*	7,30
-1,5	LC Std with blade NLC	9,7* 9,7*	9,6 9,6*	5,2 8,0*	5,1 8,0*	3,4 5,8*	3,4 5,8*	2,9 3,3*	2,9 3,3*	6,75
-3,0	LC Std mit Schild NLC	10,0* 10,0*	9,7 10,1*	5,2 6,9*	5,1 7,0*			3,7 5,1*	3,7 5,1*	5,74
-4,5	LC Std with blade NLC			4,9* 4,9*	4,4 6,9*			3,2	5,1*	

### Stick 2,45 m

m	Undercarriage	3,0 m		4,5 m		6,0 m		7,5 m		m
		LC	NLC	LC	NLC	LC	NLC	LC	NLC	
9,0	LC Std with blade NLC									
7,5	LC Std with blade NLC									2,0* 2,0* 2,0* 2,0* 2,0* 2,0*
6,0	LC Std with blade NLC					2,5* 2,5*	2,5* 2,5*	1,7* 1,7*	1,7* 1,7*	6,29
4,5	LC Std with blade NLC			4,7* 4,7*	4,7* 4,7*	4,1 4,2*	4,0 4,2*	1,7* 1,7*	1,7* 1,7*	7,14
3,0	LC Std with blade NLC	8,9* 8,9*	8,9* 8,9*	6,0* 6,0*	6,0* 6,0*	3,9 4,8*	3,8 4,8*	2,1* 2,1*	2,1* 2,1*	7,58
1,5	LC Std with blade NLC	6,8* 6,8*	6,8* 6,8*	5,6 7,3*	5,5 7,3*	3,7 5,4*	3,6 5,4*	2,6 2,9*	2,6 2,9*	7,69
0	LC Std with blade NLC	6,8* 6,8*	6,8* 6,8*	5,2 8,1*	5,2 8,1*	3,5 5,8*	3,4 5,8*	2,2* 2,2*	2,2* 2,2*	7,50
-1,5	LC Std with blade NLC	9,3* 9,3*	9,2* 9,2*	5,1 8,1*	5,0 8,1*	3,4 5,8*	3,4 5,8*	2,8 2,9*	2,8 2,9*	6,96
-3,0	LC Std mit Schild NLC	9,9 10,4*	9,7 10,4*	5,2 7,1*	5,1 7,1*	3,4	4,6*	3,5 4,5*	3,4 4,4*	5,99
-4,5	LC Std with blade NLC			4,4	7,1*			3,0	4,5*	

### Stick 2,65 m

m	Undercarriage	3,0 m		4,5 m		6,0 m		7,5 m		m
		LC	NLC	LC	NLC	LC	NLC	LC	NLC	
9,0	LC Std with blade NLC									
7,5	LC Std with blade NLC							1,8* 1,8*	1,8* 1,8*	5,14
6,0	LC Std with blade NLC					2,7* 2,7*	2,7* 2,7*	1,6* 1,6*	1,6* 1,6*	6,53
4,5	LC Std with blade NLC					4,0* 4,0*	4,0* 4,0*	1,5* 1,5*	1,5* 1,5*	7,34
3,0	LC Std with blade NLC	8,3* 8,3*	8,3* 8,3*	5,7* 5,7*	5,7* 5,7*	3,9 4,7*	3,8 4,7*	2,5* 2,5*	2,5* 2,5*	7,77
1,5	LC Std with blade NLC	8,1* 8,1*	8,1* 8,1*	5,5 7,1*	5,5 7,1*	3,6 5,3*	3,6 5,3*	2,6 3,3*	2,6 3,3*	7,88
0	LC Std with blade NLC	6,9* 6,9*	6,9* 6,9*	5,2 8,0*	5,1 8,0*	3,5 5,8*	3,4 5,8*	2,5 3,0*	2,5 3,0*	7,69
-1,5	LC Std with blade NLC	9,0* 9,0*	8,9* 8,9*	5,1 8,1*	5,0 8,1*	3,4 5,8*	3,3 5,8*	2,5* 2,5*	2,5* 2,5*	7,17
-3,0	LC Std mit Schild NLC	9,8 10,7*	9,6 10,8*	5,1 7,3*	5,0 7,3*	3,4 5,1*	3,4 5,1*	3,2 3,7*	3,2 3,7*	6,24
-4,5	LC Std with blade NLC			4,9* 4,9*	4,9* 4,9*			4,8* 4,8*	4,7* 4,7*	4,61

### Stick 3,05 m

m	Undercarriage	3,0 m		4,5 m		6,0 m		7,5 m		m
		LC	NLC	LC	NLC	LC	NLC	LC	NLC	
9,0	LC Std with blade NLC									
7,5	LC Std with blade NLC							1,4* 1,4*	1,4* 1,4*	5,52
6,0	LC Std with blade NLC					2,6* 2,6*	2,6* 2,6*	1,3* 1,3*	1,3* 1,3*	6,83
4,5	LC Std with blade NLC					3,5* 3,5*	3,5* 3,5*	1,6* 1,6*	1,6* 1,6*	7,61
3,0	LC Std with blade NLC			5,2* 5,2*	5,2* 5,2*	3,9 4,4*	3,9 4,4*	2,7* 2,7*	2,6* 2,6*	8,02
1,5	LC Std with blade NLC	10,6 11,2*	10,3 11,1*	5,7 6,7*	5,6 6,7*	3,7 5,1*	3,6 5,1*	2,6 3,4*	2,6 3,4*	8,13
0	LC Std with blade NLC	7,7* 7,7*	7,7* 7,7*	5,3 7,8*	5,2 7,8*	3,5 5,6*	3,4 5,6*	2,5 3,5*	2,5 3,5*	7,95
-1,5	LC Std with blade NLC	8,8* 8,8*	8,8* 8,8*	5,1 8,1*	5,0 8,1*	3,4 5,8*	3,3 5,8*	2,2* 2,2*	2,2* 2,2*	7,44
-3,0	LC Std mit Schild NLC	9,7 11,4*	9,4 11,3*	5,1 7,5*	5,0 7,5*	3,4 5,4*	3,3 5,4*	3,0 3,3*	2,9 3,2*	6,55
-4,5	LC Std with blade NLC	8,5* 8,5*	8,6* 8,6*	5,2 5,8*	5,1 5,8*			4,5 4,9*	4,3 4,9*	5,04

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

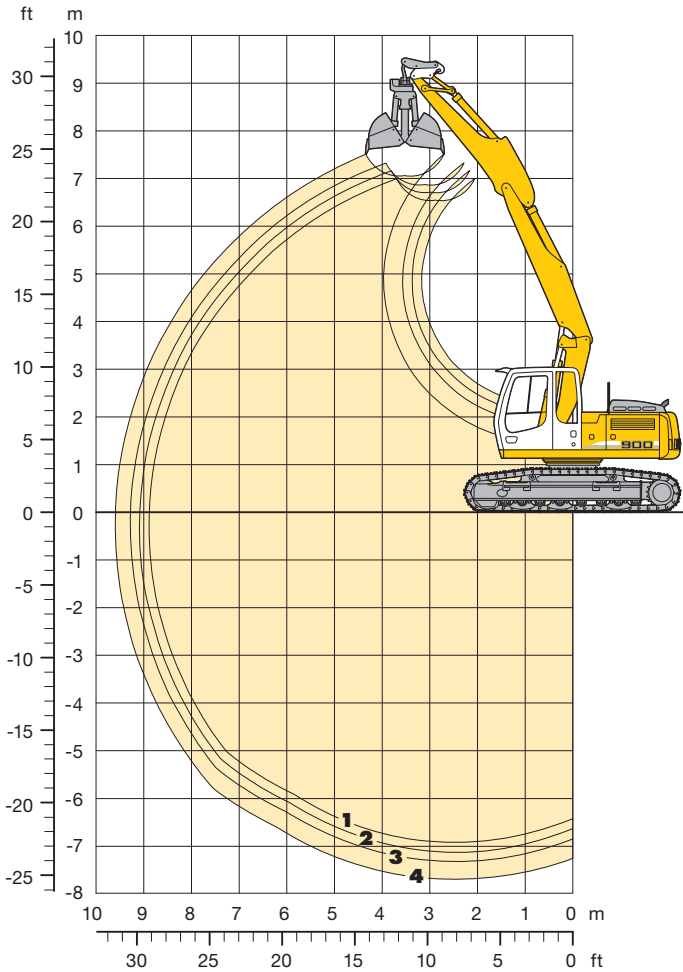
The lift capacities on the load hook of the Liebherr quick-change adapter 48 without grab attachment are stated in metric tons (t) and are valid on a firm, level supporting surface. These capacities can be slewed through 360° with the undercarriage in the transverse position. Capacities in the longitudinal position of the undercarriage (+/- 15°) are specified over the stabilisers with the stabilisers down. The values apply to track pads measuring 600 mm in width. Indicated loads comply with the ISO 10567 standard and do not exceed 75 % of tipping or 87 % of hydraulic capacity, or are limited by the permissible load of the load hook on the quick-change adapter (max. 12 t). Without the quick-change adapter, lift capacities will increase by up to 226 kg.

In accordance with the harmonised EU Standard EN 474-5, hydraulic excavators used for lifting operations must be equipped with pipe rupture protection devices on the hoist cylinders and an overload warning device.



# Clamshell Attachment

with Hydr. Adjustable Boom 3,60 m



## Digging Envelope with Quick Change Adapter

		1	2	3	4
Stick length	m	2,25	2,45	2,65	3,05
Max. digging depth	m	6,90	7,10	7,30	7,70
Max. reach at ground level	m	8,90	9,10	9,30	9,60
Max. dumping height	m	6,55	6,70	6,90	7,05

## Clamshell Model

10 B

Max. tooth force	73 kN (7,4 t)
Max. torque of hydr. swivel	1,76 kNm

## Operating Weight and Ground Pressure

Operating weight includes basic machine with triple grouser pads, hydr. adjustable boom 3,60 m, stick 2,25 m, quick change adapter 48 and clamshell model 10 B/0,45 m<sup>3</sup>.

Undercarriage	LC			Std with blade			NLC			
Pad width	mm	500	600	700	500	600	700	500	600	700
Weight	kg	20800	21100	21300	21000	21300	21400	20700	21000	21100
Ground pressure	kg/cm <sup>2</sup>	0,52	0,44	0,38	0,61	0,51	0,44	0,51	0,43	0,38

## Clamshell Model 10 B Machine stability per ISO 10567\* (75% of tipping capacity)

Width of shells	Capacity	Weight	LC				Std with blade				NLC			
			Stick length (m)				Stick length (m)				Stick length (m)			
			2,25	2,45	2,65	3,05	2,25	2,45	2,65	3,05	2,25	2,45	2,65	3,05
320 <sup>1)</sup>	0,17	770	□	□	□	□	□	□	□	□	□	□	□	□
400 <sup>1)</sup>	0,22	820	□	□	□	□	□	□	□	□	□	□	□	□
600 <sup>1)</sup>	0,35	860	□	□	□	□	□	□	□	□	□	□	□	□
800 <sup>1)</sup>	0,45	910	□	□	□	□	□	□	□	□	□	□	□	□
1000 <sup>1)</sup>	0,60	970	□	□	△	■	□	△	■	□	□	△	■	
1000 <sup>1)</sup>	1,00	1040	■	▲	▲	▲	■	▲	▲	▲	■	▲	▲	▲
320 <sup>2)</sup>	0,17	820	□	□	□	□	□	□	□	□	□	□	□	□
400 <sup>2)</sup>	0,22	880	□	□	□	□	□	□	□	□	□	□	□	□
600 <sup>2)</sup>	0,35	950	□	□	□	□	□	□	□	□	□	□	□	□
800 <sup>2)</sup>	0,45	1010	□	□	□	△	□	□	□	△	□	□	□	△

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

1) without ejector

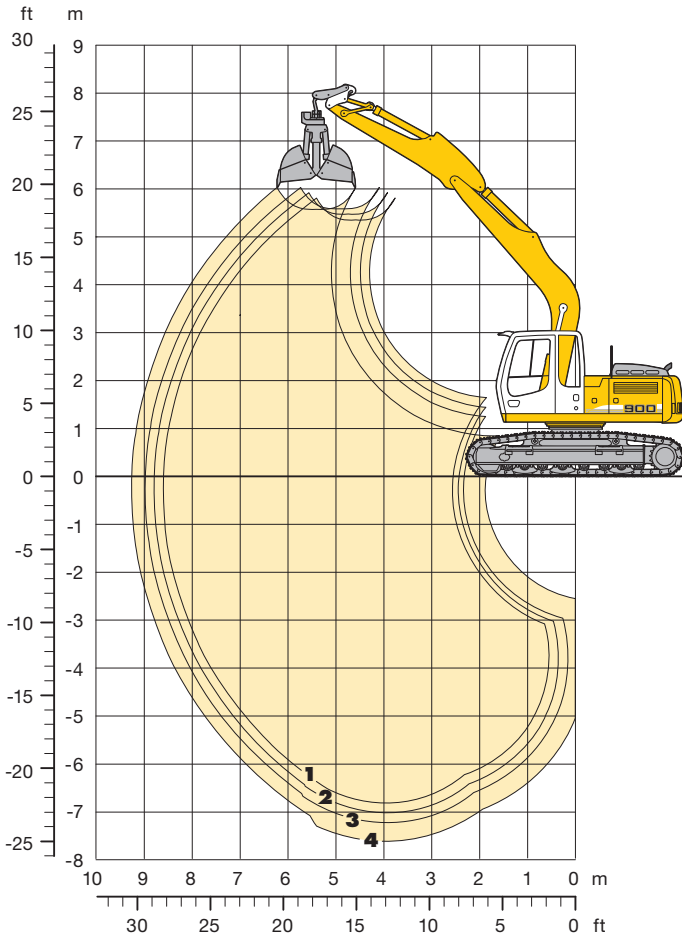
2) with ejector

- = ≤ 1,8 t/m<sup>3</sup> max. material weight
- △ = ≤ 1,5 t/m<sup>3</sup> max. material weight
- = ≤ 1,2 t/m<sup>3</sup> max. material weight
- ▲ = -



# Clamshell Attachment

with Gooseneck Boom 5,00 m



## Digging Envelope with Quick Change Adapter

		1	2	3	4
Stick length	m	2,25	2,45	2,65	3,05
Max. digging depth	m	6,80	7,00	7,20	7,60
Max. reach at ground level	m	8,60	8,80	9,00	9,30
Max. dumping height	m	5,35	5,45	5,60	5,60

## Clamshell Model

10 B

Max. tooth force	73 kN (7,4 t)
Max. torque of hydr. swivel	1,76 kNm

## Operating Weight and Ground Pressure

Operating weight includes basic machine with triple grouser pads, gooseneck boom 5,00 m, stick 2,25 m, quick change adapter 48 and clamshell model 10 B/0,45 m<sup>3</sup>.

Undercarriage	LC			Std with blade			NLC		
Pad width mm	500	600	700	500	600	700	500	600	700
Weight kg	20500	20800	21000	20700	20900	21100	20400	20700	20800
Ground pressure kg/cm <sup>2</sup>	0,51	0,43	0,37	0,60	0,51	0,44	0,51	0,43	0,37

## Clamshell Model 10 B Machine stability per ISO 10567\* (75% of tipping capacity)

Width of shells mm	Capacity m <sup>3</sup>	Weight kg	LC				Std with blade				NLC			
			Stick length (m)				Stick length (m)				Stick length (m)			
			2,25	2,45	2,65	3,05	2,25	2,45	2,65	3,05	2,25	2,45	2,65	3,05
320 <sup>1)</sup>	0,17	770	□	□	□	□	□	□	□	□	□	□	□	□
400 <sup>1)</sup>	0,22	820	□	□	□	□	□	□	□	□	□	□	□	□
600 <sup>1)</sup>	0,35	860	□	□	□	□	□	□	□	□	□	□	□	□
800 <sup>1)</sup>	0,45	910	□	□	□	□	□	□	□	□	□	□	□	□
1000 <sup>1)</sup>	0,60	970	□	□	□	■	□	□	□	□	□	□	□	■
1000 <sup>1)</sup>	1,00	1040	■	■	▲	▲	■	■	▲	▲	■	■	▲	▲
320 <sup>2)</sup>	0,17	820	□	□	□	□	□	□	□	□	□	□	□	□
400 <sup>2)</sup>	0,22	880	□	□	□	□	□	□	□	□	□	□	□	□
600 <sup>2)</sup>	0,35	950	□	□	□	□	□	□	□	□	□	□	□	□
800 <sup>2)</sup>	0,45	1010	□	□	□	□	□	□	□	□	□	□	□	□

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

<sup>1)</sup> without ejector

<sup>2)</sup> with ejector

□	= ≤ 1,8 t/m <sup>3</sup> max. material weight
△	= ≤ 1,5 t/m <sup>3</sup> max. material weight
■	= ≤ 1,2 t/m <sup>3</sup> max. material weight
▲	= -

# Attachments

## Ditchcleaning Buckets/Swivel Buckets

### Ditchcleaning 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	LC				Std with blade				NLC			
			Stick length (m)				Stick length (m)				Stick length (m)			
			2,25	2,45	2,65	3,05	2,25	2,45	2,65	3,05	2,25	2,45	2,65	3,05
<b>Hydr. Adjustable Boom 3,60 m</b>														
1500	0,50	425	□	□	□	□	□	□	□	□	□	□	□	□
2000	0,48	420	□	□	□	□	□	□	□	□	□	□	□	□
1600 <sup>2)</sup>	0,80	848	□	△	■	▲	□	△	■	▲	□	△	■	▲
2000 <sup>2)</sup>	0,50	693	□	□	□	□	□	□	□	□	□	□	□	□
2000 <sup>2)</sup>	0,70	875	□	□	△	■	□	□	△	■	□	□	△	■
<b>Gooseneck Boom 5,00 m</b>														
1500	0,50	425	□	□	□	□	□	□	□	□	□	□	□	□
2000	0,48	420	□	□	□	□	□	□	□	□	□	□	□	□
1600 <sup>2)</sup>	0,80	848	□	△	△	■	□	△	△	■	□	△	△	■
2000 <sup>2)</sup>	0,50	693	□	□	□	□	□	□	□	□	□	□	□	□
2000 <sup>2)</sup>	0,70	875	□	□	△	■	□	□	△	■	□	□	△	■
<b>Adjustable Up/Down Plus Offset Boom 3,60 m</b>														
1500	0,50	425	□	□	□	□	□	□	□	□	□	□	□	□
2000	0,48	420	□	□	□	□	□	□	□	□	□	□	□	□
1600 <sup>2)</sup>	0,80	848	□	△	■	▲	□	△	■	▲	□	△	■	▲
2000 <sup>2)</sup>	0,50	693	□	□	□	□	□	□	□	□	□	□	□	□
2000 <sup>2)</sup>	0,70	875	□	△	△	▲	□	△	△	▲	□	△	△	▲
<b>Adjustable Offset Boom 4,90 m</b>														
1500	0,50	425	□	□	□	□	□	□	□	□	□	□	□	□
2000	0,48	420	□	□	□	□	□	□	□	□	□	□	□	□
1600 <sup>2)</sup>	0,80	848	□	△	■	▲	□	△	■	▲	□	△	■	▲
2000 <sup>2)</sup>	0,50	693	□	□	□	□	□	□	□	□	□	□	□	□
2000 <sup>2)</sup>	0,70	875	□	□	△	■	□	□	△	■	□	□	△	■

### Swivel 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	LC				Std with blade				NLC			
			Stick length (m)				Stick length (m)				Stick length (m)			
			2,25	2,45	2,65	3,05	2,25	2,45	2,65	3,05	2,25	2,45	2,65	3,05
<b>Hydr. Adjustable Boom 3,60 m</b>														
1500 <sup>2)</sup>	0,60	680	□	□	□	△	□	□	□	△	□	□	□	△
1600 <sup>2)</sup>	0,80	820	□	△	△	▲	□	△	△	▲	□	△	△	▲
<b>Gooseneck Boom 5,00 m</b>														
1500 <sup>2)</sup>	0,60	680	□	□	□	□	□	□	□	□	□	□	□	□
1600 <sup>2)</sup>	0,80	820	□	△	△	■	□	△	△	■	□	△	△	■
<b>Adjustable Up/Down Plus Offset Boom 3,60 m</b>														
1500 <sup>2)</sup>	0,60	680	□	□	□	△	□	□	□	△	□	□	□	△
1600 <sup>2)</sup>	0,80	820	□	△	■	▲	□	△	■	▲	□	△	■	▲
<b>Adjustable Offset Boom 4,90 m</b>														
1500 <sup>2)</sup>	0,60	680	□	□	□	△	□	□	□	△	□	□	□	△
1600 <sup>2)</sup>	0,80	820	□	△	■	▲	□	△	■	▲	□	△	■	▲

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

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

<sup>2)</sup> with 2 x 50° rotator

□ = ≤ 1,8 t/m<sup>3</sup> max. material weight

△ = ≤ 1,5 t/m<sup>3</sup> max. material weight

■ = ≤ 1,2 t/m<sup>3</sup> max. material weight

▲ = -



# Equipment



## Undercarriage

Prop-up and dozer blade (Std-Undercarriage)	+
Prop-up and dozer blade – cutting edge (Std-Undercarriage)	+
Two speed travel motors	•
Chain guides on idler end	•
Chain guides in center and on sprocket end	+
Life lubricated bottom/top rollers	•
Complete travel drives integrated into side frames	•
Customized colors	+



## Uppercarriage

Electric fuel tank filler pump	+
Maintenance-free swing brake lock	•
Handrails, Non slip surfaces	•
Main switch for electric circuit	•
Engine hood with lift help	•
Pedal controlled positioning swing brake	+
Reverse travel warning system	+
Sound insulation	•
Customized colors	+
Pin lock upper/lower	-
Maintenance-free HD-batteries	•
Extended tool kit	+
Lockable tool box	•
Tool kit	•



## Hydraulics

Hydraulic tank shut-off valve	•
Extra hydr. control for hydr. swivel	+
Pressure compensation	•
Hook up for pressure checks	•
Pressure storage for controlled lowering of attachments with engine turned off	•
Filter with partial micro filtration (5 µm)	•
Electronic pump regulation	•
Stepless mode system (ECO)	•
Flow compensation	•
Four mixed modes, can also be adjusted	•
Full flow micro filtration	+
Bio degradable hydraulic oil	+
Pressure compensation	-
Flow summation	-
Tool Control	+
Tool Management	+
Additional hydraulic circuits	+



## Engine

Turbo charger	•
Unit pump system	•
Cold start aid	+
Sensor controlled engine idling	•
Liebherr particle filter	+
Air filter with pre-cleaner main- and safety element	•



## Operator's Cab

Storage tray	•
Displays for engine operating condition	•
Mechanical hour meters, readable from outside the cab	•
Roof hatch	•
All-round adjustable roof vent	-
6-way adjustable seat	•
Airpressure operator seat with heating and head-rest	+
Seat and consoles independently adjustable	•
Extinguisher	+
Removable customized foot mat	•
Dome light	•
Cab heater with defroster	•
Cloth hook	•
Air conditioning	•
Electric cool box	+
Steering wheel adjustable	•
Bullet proof window (fixed installation – can not be opened)	+
Stereo radio	+
Preparation for radio installation	+
Rain hood over front window opening	•
Rotating beacon	+
All tinted windows	•
Door with sliding window	•
Optical and acoustical warning if outriggers are not fully retracted	+
Auxiliary heating	+
Sun shade	+
Sun roller blind	•
Electronic drive away lock	+
Wiper/washer	•
Cigarette lighter and ashtray	•
Additional flood lights	+



## Attachment

Flood lights on boom	•
Hydr. lines for clam operation	+
Sealed pivots	•
Safety lift hook on hoe buckets	+
Liebherr line of clams	+
Liebherr semi-automatic central lubrication system	•
Liebherr fully-automatic central lubrication system	+
Likufix	+
Safety check valves on hoist cylinder	•
Safety check valves on stick cylinder	+
Hose quick connection	+
Hydraulic or manual quick change tool adapter	+
Customized colors	+
Special buckets and other tools	+
Overload warning device	+
Two way valves for bucket/clam use	+
Locking of connections for clam operation	+
Cylinders with shock absorber	•

• = Standard, + = Option, - = not available

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

All illustrations and data may differ from standard equipment. Subject to change without notice.

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## 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, too. The wide range includes domestic appliances, aerospace and transportation systems, machine tools and maritime cranes.

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