

Crawler Excavator

R 914 Compact

Litronic®

Operating Weight:
14,700 – 17,200 kg

Engine:
90 kW / 122 HP

Stage IV

Bucket Capacity:
0.17 – 0.87 m³



LIEBHERR

Technical Data



Diesel Engine

Rating per ISO 9249	90 kW (122 HP) at 1,800 RPM
Model	Deutz TCD3.6L4
Type	4 cylinder in-line
Bore/Stroke	98/120 mm
Displacement	3.6 l
Engine operation	4-stroke diesel Common-Rail turbo-charged and after-cooler reduced emissions
Air cleaner	dry-type air cleaner with pre-cleaner, primary and safety elements
Engine idling	sensor controlled
Electrical system	
Voltage	24 V
Batteries	2 x 135 Ah / 12 V
Alternator	three-phase current 28 V / 80 A
Stage IV	
Harmful emissions values	in accordance with 97/68/EG stage IV
Emission control	Liebherr-SCR technology
Option	Deutz particle filter
Fuel tank	175 l
Urea tank	20 l



Cooling System

Diesel engine	water-cooled compact cooling system consisting cooling unit for water, hydraulic oil and charge air with stepless thermostatically controlled fan, fans for radiator cleaning, can be completely folded away
----------------------	---



Hydraulic Controls

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



Hydraulic System

Hydraulic pump	
for attachment and travel drive	Liebherr axial piston variable displacement pump
Max. flow	300 l/min.
Max. pressure	350 bar
Hydraulic pump regulation and control	Liebherr-Synchron-Comfort-system (LSC) with electronic engine speed sensing regulation, pressure and flow compensation, torque controlled swing drive priority
Hydraulic tank	100 l
Hydraulic system	max. 230 l
Hydraulic oil filter	1 main return filter with integrated partial micro filtration (5 µm)
MODE selection	adjustment of engine and hydraulic performance via a mode pre-selector to match application, e.g. for especially economical and environmentally friendly operation or for maximum digging performance and heavy-duty jobs
S (Sensitive)	mode for precision work and lifting through very sensitive movements
E (Eco)	mode for especially economical and environmentally friendly operation
P (Power)	mode for high performance with low fuel consumption
Engine speed and performance setting	stepless alignment of engine output and hydraulic power via engine speed
Option	Tool Control: ten preadjustable pump flows and pressures for add on tools



Swing Drive

Drive	Liebherr axial piston motor with integrated brake valve and torque control
Swing ring	Liebherr, sealed race ball bearing swing ring, internal teeth
Swing speed	0 – 10.0 RPM stepless
Swing torque	50 kNm
Holding brake	wet multi-disc (spring applied, pressure released)
Option	pedal controlled positioning swing brake



Operator's Cab

Cab	ROPS safety cab structure (roll-over protection system) with individual windscreens or featuring a slide-in subpart under the ceiling, work headlights integrated in the ceiling, a door with a sliding window (can be opened on both sides), large stowing and depositing possibilities, shock-absorbing suspension, sound-damping insulating, tinted laminated safety glass, separate window shades for the sunroof window and windscreen
Operator's seat Standard	air cushioned operator's seat with 3D-adjustable arm-rests, headrest, lap belt, seat heater, manual weight adjustment, adjustable seat cushion inclination and length and mechanical lumbar vertebrae support
Operator's seat Comfort (Option)	in addition to operator's seat standard: lockable horizontal suspension, automatic weight adjustment, adjustable suspension stiffness, pneumatic lumbar vertebrae support and passive seat climatization with active coal
Operator's seat Premium (Option)	in addition to operator's seat comfort: active electronic weight adjustment (automatic readjustment), pneumatic low frequency suspension and active seat climatization with active coal and ventilator
Control system	joysticks with arm consoles and swivel seat, folding left arm console
Operation and displays	large high-resolution operating unit, selfexplanatory, colour display with touchscreen, video-compatible, numerous setting, control and monitoring options, e.g. air conditioning control, fuel consumption, machine and tool parameters
Air-conditioning	automatic air-conditioning, recirculated air function, fast de-icing and demisting at the press of a button, air vents can be operated via a menu; recirculated air and fresh air filters can be easily replaced and are accessible from the outside; heating-cooling unit, designed for extreme outside temperatures, sensors for solar radiation, inside and outside temperatures (country-dependent)



Undercarriage

Drive	Liebherr compact planetary reduction gear with Liebherr axial piston motor per side of undercarriage
Transmission	Liebherr compact planetary reduction gear
Travel speed	low range – 3.1 km/h high range – 6.8 km/h
Pulling force	137 kN
Tracks	sealed and greased
Track pads	triple grouser
Holding brake	wet multi-disc (spring applied, pressure released)
Brake valves	integrated into travel motors
Lashing eyes	integrated



Attachment

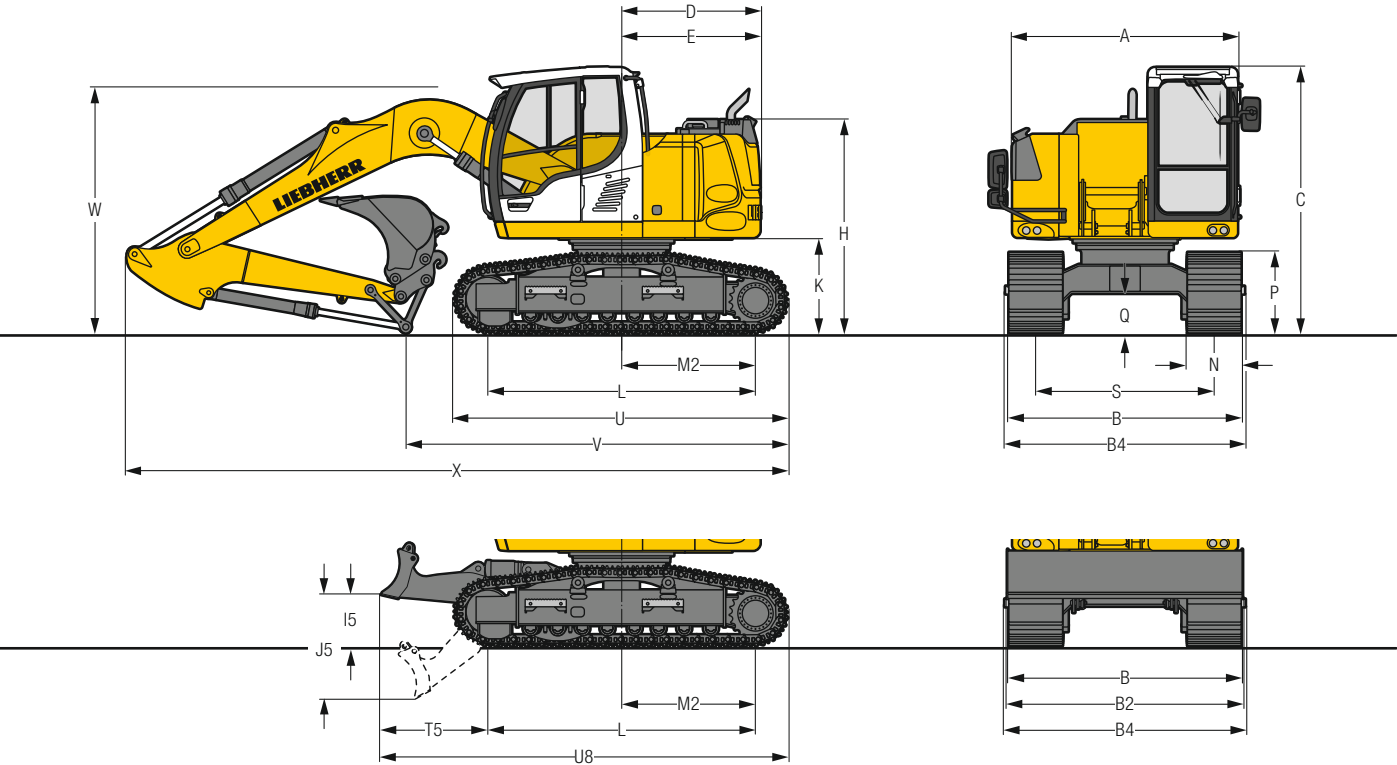
Type	high-strength steel plates at high stressed points for the toughest requirements. Complex and stable mountings of attachment and cylinders
Hydraulic cylinders	Liebherr cylinders with special seal system as well as shock absorption
Bearings	sealed, low maintenance



Complete Machine

Lubrication	Liebherr central lubrication system for uppercarriage and attachment, automatically	
Noise emission	ISO 6396	L_{pA} (inside cab) = 71 dB(A)
	2000/14/EC	L_{WA} (surround noise) = 99 dB(A)

Dimensions



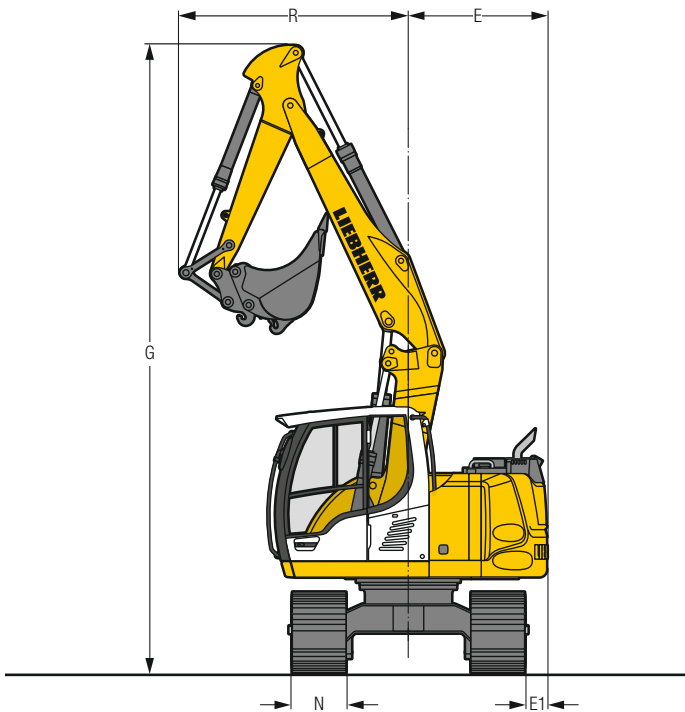
	Std	mm			with blade	mm		
A		2,525				2,525		
C		2,980				2,980		
D		1,550				1,550		
E		1,550				1,550		
H		2,395				2,395		
I5		-				575		
J5		-				1,175		
K		1,050				1,050		
L		3,000				3,000		
M2		1,500				1,500		
P		900				900		
Q		440				440		
S		2,000				2,000		
T5		-				1,200		
U		3,735				3,735		
U8		-				4,555		
N		500	600	700		500	600	700
E1		300	250	200		300	250	200
B		2,500	2,600	2,700		2,500	2,600	2,700
B2		-				2,540	2,640	2,740
B4		2,525	2,680	2,780		2,525	2,680	2,780

E = Tail radius

	Stick m	Two-piece boom 4.85 m		Mono boom 4.60 m	
		Std mm	with blade mm	Std mm	with blade mm
V	2.05	5,450	5,450	5,050	5,050
	2.25	5,150	5,150	4,650	5,500*
	2.45	4,800	5,650*	4,300	5,150*
W	2.65	4,650	5,500*	4,050	4,850*
	2.05	2,850	2,850	2,950	2,950
	2.25	2,850	2,850	2,900	2,900*
X	2.45	2,800	2,800*	2,800	2,800*
	2.65	2,850	2,850*	2,750	2,750*
	2.05	7,700	7,700	7,450	7,450
	2.25	7,700	7,700	7,450	8,300*
	2.45	7,750	8,550*	7,400	8,250*
	2.65	7,750	8,550*	7,400	8,250*

	Stick m	Offset two-piece boom 4.90 m		Offset mono boom 4.30 m	
		Std mm	with blade mm	Std mm	with blade mm
V	2.05	6,000	6,000	5,150	6,000*
	2.25	5,500	5,500	4,600	5,450*
	2.45	4,300	4,300	4,250	5,100*
W	2.65	4,850	5,650*	3,850	4,700*
	2.05	3,100	3,100	3,100	3,100*
	2.25	3,050	3,050	2,950	2,950*
X	2.45	3,050	3,050	2,800	2,800*
	2.65	3,000	3,000*	2,650	2,650*
	2.05	7,700	7,700	7,150	8,000*
	2.25	7,700	7,700	7,150	8,000*
	2.45	7,400	7,400	7,200	8,050*
	2.65	7,750	8,600*	7,150	8,000*

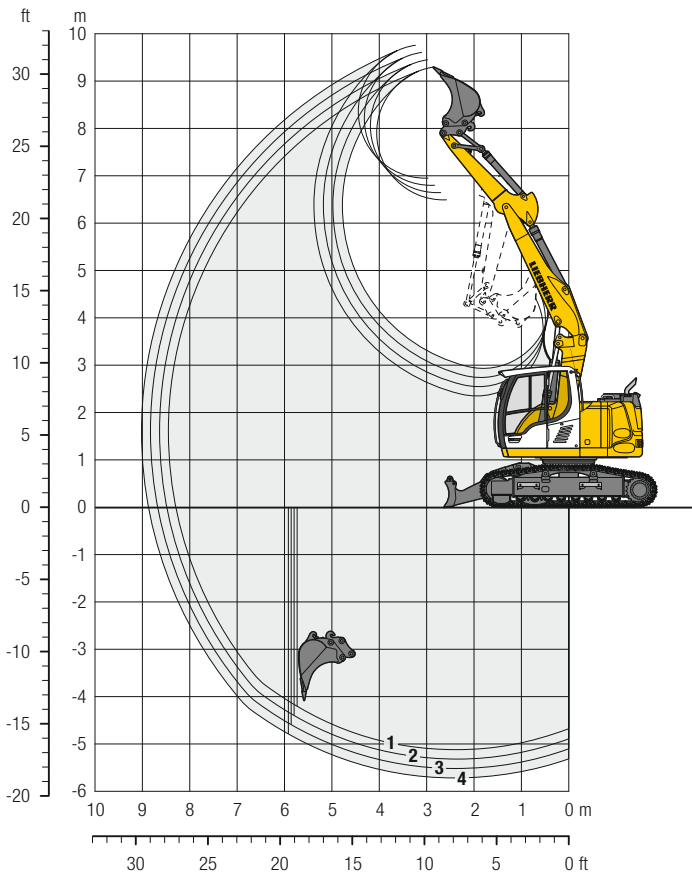
* Undercarriage turned



Boom	Stick m	G mm	R mm	E mm
Two-piece boom 4.85 m	2.05	7,010	2,220	1,550
Two-piece boom 4.85 m	2.25	7,010	2,265	1,550
Two-piece boom 4.85 m	2.45	7,020	2,315	1,550
Two-piece boom 4.85 m	2.65	7,020	2,360	1,550

Backhoe Bucket

with Two-Piece Boom 4.85 m



Digging Envelope

with quick coupler	1	2	3	4
Stick length	m 2.05	2.25	2.45	2.65
Max. digging depth	m 5.15	5.35	5.55	5.75
Max. reach at ground level	m 8.30	8.50	8.70	8.90
Max. dumping height	m 6.50	6.65	6.80	6.95
Max. teeth height	m 9.30	9.45	9.60	9.75
Min. attachment radius	m 2.22	2.27	2.32	2.36

Digging Forces

without quick coupler	1	2	3	4
Max. digging force (ISO 6015)	kN 72.7	67.9	63.8	60.1
	t 7.4	6.9	6.5	6.1
Max. breakout force (ISO 6015)	kN 88.2	88.2	88.2	88.2
	t 9.0	9.0	9.0	9.0

Max. breakout force with ripper bucket

124.1 kN (12.6 t)

Operating Weight and Ground Pressure

The operating weight includes the basic machine with triple grouser pads, two-piece boom 4.85 m, stick 2.25 m, quick coupler SW33 and bucket 850 mm/0.50 m³.

Undercarriage versions	Standard			with blade		
Pad width	mm 500	600	700	500	600	700
Weight	kg 15,100	15,200	15,500	16,200	16,400	16,600
Ground pressure	kg/cm ² 0.46	0.39	0.34	0.50	0.42	0.37

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

Cutting width mm	Capacity ISO 7451 ¹⁾ m ³	Weight kg	Standard without blade				with blade down			
			Stick length (m)				Stick length (m)			
			2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65
300 ²⁾	0.17	220	■	■	■	■	■	■	■	■
400 ²⁾	0.24	250	■	■	■	■	■	■	■	■
500 ²⁾	0.32	250	■	■	■	■	■	■	■	■
550 ²⁾	0.29	260	■	■	■	■	■	■	■	■
650 ²⁾	0.36	290	■	■	■	■	■	■	■	■
850 ²⁾	0.50	340	■	■	■	■	■	■	■	■
1,050 ²⁾	0.65	380	■	■	■	■	■	■	■	■
1,250 ²⁾	0.80	430	■	■	■	△	■	■	■	■
300 ³⁾	0.18	210	■	■	■	■	■	■	■	■
400 ³⁾	0.26	240	■	■	■	■	■	■	■	■
500 ³⁾	0.30	240	■	■	■	■	■	■	■	■
550 ³⁾	0.31	250	■	■	■	■	■	■	■	■
650 ³⁾	0.39	270	■	■	■	■	■	■	■	■
850 ³⁾	0.53	320	■	■	■	■	■	■	■	■
1,050 ³⁾	0.71	370	■	■	■	■	■	■	■	■
1,250 ³⁾	0.87	420	■	■	△	△	■	■	■	■

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

¹⁾ comparable with SAE (heaped)

²⁾ Bucket with teeth (also available in HD version) ³⁾ Bucket with cutting edge (also available in HD version)

Buckets up to 400 mm cutting width with limited digging depth

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

Lift Capacities

with Two-Piece Boom 4.85 m

Stick 2.05 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		m		
		Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down			
7.5	Std without blade									2.5* 2.5*	2.5*	3.9
	Blade down									2.5* 2.5*	2.5*	
6.0	Std without blade			3.9 4.0*						2.1* 2.1*	2.1*	5.6
	Blade down			4.0* 4.0*						2.1* 2.1*	2.1*	
4.5	Std without blade	5.4* 5.4*		3.9 4.9*	2.4 3.6					2.0 2.1*	2.1*	6.6
	Blade down	5.5* 5.5*		4.4 4.9*	2.8 3.7*					2.1* 2.1*	2.1*	
3.0	Std without blade	6.8 8.7*		3.8 5.6	2.4 3.6					1.7 2.1*	2.1*	7.1
	Blade down	7.8 8.8*		4.3 5.7*	2.8 4.5*					2.0 2.1*	2.1*	
1.5	Std without blade	6.7 9.7*		3.8 5.5	2.3 3.5					1.6 2.3*	2.3*	7.2
	Blade down	7.7 9.7*		4.3 6.4*	2.7 4.7*					1.9 2.3*	2.3*	
0	Std without blade	6.6 10.3*		3.6 5.6	2.2 3.4					1.6 2.6	2.6	7.0
	Blade down	7.8 10.3*		4.2 6.5*	2.6 4.8*					1.9 2.7*	2.7*	
-1.5	Std without blade	6.3 10.5*		3.3 5.3	2.0 3.3					1.8 2.9	2.9	6.5
	Blade down	7.5 10.5*		3.9 6.6*	2.4 4.4*					2.2 3.5*	3.5*	
-3.0	Std without blade	6.0 10.0*		3.1 5.1						2.3 3.2*	3.2*	5.5
	Blade down	7.1 10.0*		3.7 5.4*						2.8 3.1*	3.1*	
-4.5	Std without blade											
	Blade down											

Stick 2.25 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		m		
		Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down			
7.5	Std without blade									2.3* 2.3*	2.3*	4.3
	Blade down									2.3* 2.3*	2.3*	
6.0	Std without blade					3.8* 3.8*				1.9* 1.9*	1.9*	5.9
	Blade down					3.8* 3.8*				1.9* 1.9*	1.9*	
4.5	Std without blade			3.9 4.7*	2.4 3.6					1.9* 1.9*	1.9*	6.8
	Blade down			4.4 4.7*	2.8 3.7*					1.9* 1.9*	1.9*	
3.0	Std without blade	6.9 8.4*		3.8 5.5*	2.4 3.6					1.6 1.9*	1.9*	7.3
	Blade down	7.8 8.4*		4.3 5.6*	2.8 4.4*					1.9* 1.9*	1.9*	
1.5	Std without blade	6.7 9.6*		3.7 5.5	2.3 3.6					1.5 2.1*	2.1*	7.4
	Blade down	7.7 9.6*		4.3 6.3*	2.7 4.6*					1.8 2.1*	2.1*	
0	Std without blade	6.7 10.2*		3.6 5.5	2.2 3.4					1.5 2.4*	2.4*	7.2
	Blade down	7.7 10.2*		4.2 6.5*	2.6 4.7*					1.9 2.4*	2.4*	
-1.5	Std without blade	6.3 10.4*		3.3 5.4	2.0 3.3					1.7 2.7	2.7	6.7
	Blade down	7.5 10.4*		3.9 6.6*	2.4 4.6*					2.0 3.0*	3.0*	
-3.0	Std without blade	6.0 10.4*		3.1 5.1						2.1 3.1*	3.1*	5.7
	Blade down	7.2 10.3*		3.7 5.8*						2.6 3.1*	3.1*	
-4.5	Std without blade											
	Blade down											

Stick 2.45 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		m		
		Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down			
7.5	Std without blade			2.3* 2.3*						2.0* 2.0*	2.0*	4.6
	Blade down			2.3* 2.3*						2.0* 2.0*	2.0*	
6.0	Std without blade			3.5* 3.5*	2.1* 2.1*					1.8* 1.8*	1.8*	6.1
	Blade down			3.5* 3.5*	2.1* 2.1*					1.8* 1.8*	1.8*	
4.5	Std without blade			3.9 4.2*	2.4 3.6*					1.7* 1.7*	1.7*	7.0
	Blade down			4.3* 4.3*	2.8 3.6*					1.7* 1.7*	1.7*	
3.0	Std without blade	6.9 8.0*		3.8 5.4*	2.4 3.6					1.6 1.7*	1.7*	7.5
	Blade down	7.9 8.0*		4.3 5.4*	2.8 4.3*					1.7* 1.7*	1.7*	
1.5	Std without blade	6.7 9.5*		3.7 5.5	2.3 3.6	1.5 2.4*				1.5 1.9*	1.9*	7.6
	Blade down	7.6 9.5*		4.2 6.2*	2.7 4.6*	1.8 2.4*				1.7 1.9*	1.9*	
0	Std without blade	6.7 10.1*		3.6 5.5	2.2 3.4					1.5 2.1*	2.1*	7.4
	Blade down	7.7 10.1*		4.2 6.4*	2.6 4.7*					1.8 2.1*	2.1*	
-1.5	Std without blade	6.3 10.4*		3.4 5.4	2.1 3.3					1.6 2.6	2.6	6.9
	Blade down	7.5 10.4*		4.0 6.5*	2.4 4.6*					1.9 2.7*	2.7*	
-3.0	Std without blade	6.0 10.6*		3.1 5.1						2.0 3.1*	3.1*	6.0
	Blade down	7.2 10.6*		3.7 6.1*						2.4 3.1*	3.1*	
-4.5	Std without blade											
	Blade down											

Stick 2.65 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		m		
		Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down			
7.5	Std without blade			2.5* 2.5*						1.9* 1.9*	1.9*	4.9
	Blade down			2.6* 2.6*						1.9* 1.9*	1.9*	
6.0	Std without blade			3.3* 3.3*	2.4* 2.4*					1.6* 1.6*	1.6*	6.4
	Blade down			3.3* 3.3*	2.4* 2.4*					1.6* 1.6*	1.6*	
4.5	Std without blade			3.8 3.9*	2.5 3.4*					1.6* 1.6*	1.6*	7.2
	Blade down			3.9* 3.9*	2.8 3.4*					1.6* 1.6*	1.6*	
3.0	Std without blade	6.9 7.6*		3.8 5.2*	2.4 3.6	1.6 2.1*				1.5 1.6*	1.6*	7.7
	Blade down	7.6* 7.6*		4.3 5.2*	2.8 4.2*	1.9 2.1*				1.6* 1.6*	1.6*	
1.5	Std without blade	6.6 9.5*		3.7 5.4	2.4 3.6	1.5 2.4				1.4 1.7*	1.7*	7.8
	Blade down	7.6 9.5*		4.2 6.1*	2.7 4.5*	1.8 2.8*				1.7 1.7*	1.7*	
0	Std without blade	6.6 10.0*		3.6 5.4	2.2 3.5	1.4 2.3				1.4 1.9*	1.9*	7.6
	Blade down	7.6 10.0*		4.2 6.4*	2.6 4.6*	1.7 2.5*				1.7 1.9*	1.9*	
-1.5	Std without blade	6.3 10.3*		3.4 5.4	2.1 3.3					1.5 2.4*	2.4*	7.1
	Blade down	7.5 10.3*		4.0 6.5*	2.4 4.7*					1.8 2.4*	2.4*	
-3.0	Std without blade	6.0 10.6*		3.1 5.1	2.0 3.2					1.8 3.0	3.0	6.2
	Blade down	7.2 10.6*		3.7 6.4*	2.4 3.5*					2.2 3.0*	3.0*	
-4.5	Std without blade	5.8 6.6*								4.4 4.9*	4.9*	3.6
	Blade down	6.4* 6.4*								5.1* 5.1*	5.1*	

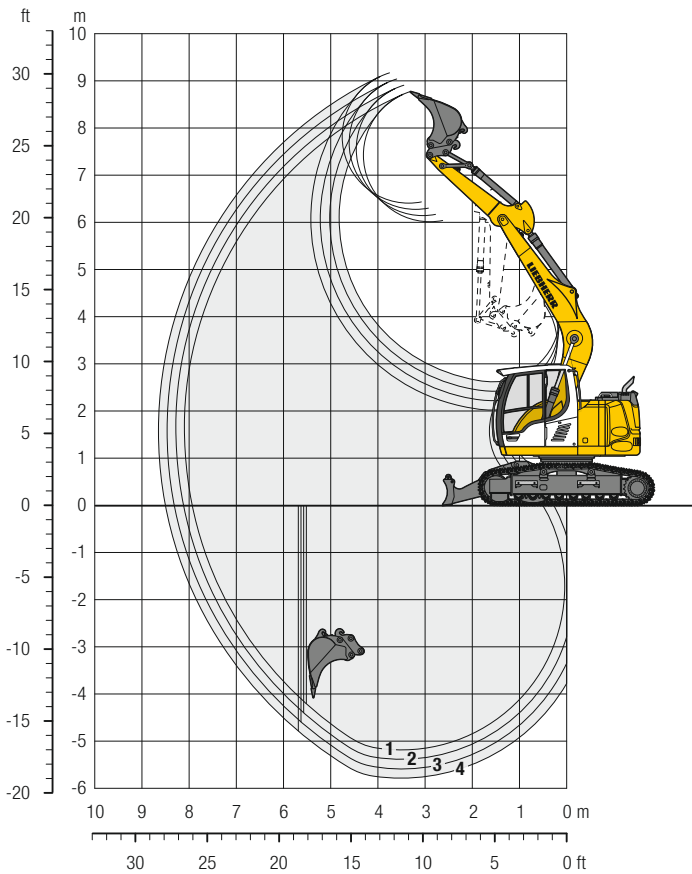
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach * Limited by hydr. capacity

The lift capacities on the load lift hook of the Liebherr quick coupler SW33 without working tool 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 stabilizers with the stabilizers down. The values apply to track pads measuring 600 mm in width 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 5.15	5.35	5.55	5.75
Max. reach at ground level	m 7.95	8.15	8.30	8.50
Max. dumping height	m 6.05	6.15	6.30	6.45
Max. teeth height	m 8.75	8.90	9.05	9.15
Min. attachment radius	m 1.96	1.98	1.99	2.01

Digging Forces

without quick coupler	1	2	3	4
Max. digging force (ISO 6015)	kN 72.7	67.9	63.8	60.1
	t 7.4	6.9	6.5	6.1
Max. breakout force (ISO 6015)	kN 88.2	88.2	88.2	88.2
	t 9.0	9.0	9.0	9.0

Max. breakout force with ripper bucket

124.1 kN (12.6 t)

Operating Weight and Ground Pressure

The operating weight includes the basic machine with triple grouser pads, mono boom 4.60 m, stick 2.25 m, quick coupler SW33 and bucket 850 mm/0.50 m³.

Undercarriage versions	Standard			with blade		
Pad width	mm 500	600	700	500	600	700
Weight	kg 14,700	14,900	15,200	15,800	16,000	16,300
Ground pressure	kg/cm ² 0.45	0.38	0.33	0.49	0.41	0.36

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

Cutting width mm	Capacity ISO 7451 ¹⁾ m ³	Weight kg	Standard without blade				with blade down				
			Stick length (m)				Stick length (m)				
			2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65	
300 ²⁾	0.17	220	■	■	■	■	■	■	■	■	■
400 ²⁾	0.24	250	■	■	■	■	■	■	■	■	■
500 ²⁾	0.32	250	■	■	■	■	■	■	■	■	■
550 ²⁾	0.29	260	■	■	■	■	■	■	■	■	■
650 ²⁾	0.36	290	■	■	■	■	■	■	■	■	■
850 ²⁾	0.50	340	■	■	■	■	■	■	■	■	■
1,050 ²⁾	0.65	380	■	■	■	■	■	■	■	■	■
1,250 ²⁾	0.80	430	■	■	■	■	■	■	■	■	■
300 ³⁾	0.18	210	■	■	■	■	■	■	■	■	■
400 ³⁾	0.26	240	■	■	■	■	■	■	■	■	■
500 ³⁾	0.30	240	■	■	■	■	■	■	■	■	■
550 ³⁾	0.31	250	■	■	■	■	■	■	■	■	■
650 ³⁾	0.39	270	■	■	■	■	■	■	■	■	■
850 ³⁾	0.53	320	■	■	■	■	■	■	■	■	■
1,050 ³⁾	0.71	370	■	■	■	■	■	■	■	■	■
1,250 ³⁾	0.87	420	■	■	■	■	■	■	■	■	■

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

¹⁾ comparable with SAE (heaped)

²⁾ Bucket with teeth (also available in HD version) ³⁾ Bucket with cutting edge (also available in HD version)

Buckets up to 400 mm cutting width with limited digging depth

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

Lift Capacities

with Mono Boom 4.60 m

Stick 2.05 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		m
		Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down	
7.5	Std without blade									
	Blade down									
6.0	Std without blade			3.4*	3.4*				2.1*	2.1*
	Blade down			3.4*	3.4*				2.1*	2.1*
4.5	Std without blade			3.8	4.0*	2.4	2.6*		2.1*	2.1*
	Blade down			4.0*	4.0*	2.6*	2.6*		2.1*	2.1*
3.0	Std without blade	6.6	7.1*	3.5	4.9*	2.3	3.5		1.9	2.2*
	Blade down	7.1*	7.1*	4.1	4.9*	2.7	4.1*		2.2*	2.2*
1.5	Std without blade	5.8	7.9*	3.3	5.3	2.2	3.4		1.8	2.4*
	Blade down	7.0	7.8*	3.8	5.9*	2.5	4.5*		2.1	2.4*
0	Std without blade	5.5	7.5*	3.1	5.0	2.1	3.3		1.8	2.8
	Blade down	6.7	7.6*	3.7	6.5*	2.5	4.8*		2.1	2.9*
-1.5	Std without blade	5.5	9.6*	3.0	5.0	2.0	3.2		2.0	3.2
	Blade down	6.7	9.6*	3.6	6.4*	2.4	4.5*		2.4	4.1*
-3.0	Std without blade	5.6	7.8*	3.1	5.0				2.7	4.4
	Blade down	6.8	7.8*	3.6	5.3*				3.2	4.7*
-4.5	Std without blade									
	Blade down									

Stick 2.25 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		m
		Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down	
7.5	Std without blade									
	Blade down									
6.0	Std without blade			3.3*	3.3*				1.9*	1.9*
	Blade down			3.3*	3.3*				1.9*	1.9*
4.5	Std without blade			3.8	3.8*	2.4	2.8*		1.9*	1.9*
	Blade down			3.8*	3.8*	2.8	2.9*		1.9*	1.9*
3.0	Std without blade	6.6*	6.6*	3.5	4.7*	2.3	3.5		1.8	1.9*
	Blade down	6.6*	6.6*	4.1	4.7*	2.7	4.0*		1.9*	1.9*
1.5	Std without blade	5.9	9.2*	3.3	5.3	2.1	3.4		1.7	2.2*
	Blade down	7.0	9.1*	3.8	5.8*	2.5	4.4*		2.0	2.2*
0	Std without blade	5.5	7.6*	3.1	5.0	2.0	3.3		1.7	2.6*
	Blade down	6.7	7.6*	3.6	6.4*	2.4	4.7*		2.0	2.6*
-1.5	Std without blade	5.5	9.7*	3.0	4.9	2.0	3.2		1.9	3.0
	Blade down	6.6	9.7*	3.6	6.4*	2.4	4.6*		2.3	3.5*
-3.0	Std without blade	5.6	8.2*	3.0	5.0				2.5	4.0
	Blade down	6.7	8.1*	3.6	5.5*				3.0	4.6*
-4.5	Std without blade									
	Blade down									

Stick 2.45 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		m
		Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down	
7.5	Std without blade								2.1*	2.1*
	Blade down								2.1*	2.1*
6.0	Std without blade			3.2*	3.2*				1.8*	1.8*
	Blade down			3.2*	3.2*				1.8*	1.8*
4.5	Std without blade			3.6*	3.6*	2.4	2.9*		1.7*	1.7*
	Blade down			3.6*	3.6*	2.8	3.0*		1.7*	1.7*
3.0	Std without blade	6.1*	6.1*	3.6	4.5*	2.3	3.5		1.7	1.8*
	Blade down	6.2*	6.2*	4.2	4.5*	2.7	3.8*		1.8*	1.8*
1.5	Std without blade	5.9	9.2*	3.3	5.3	2.1	3.4		1.6	1.9*
	Blade down	7.1	9.2*	3.8	5.6*	2.5	4.3*		1.9	1.9*
0	Std without blade	5.5	7.7*	3.0	5.0	2.0	3.3		1.6	2.3*
	Blade down	6.7	7.7*	3.6	6.4*	2.4	4.7*		1.9	2.3*
-1.5	Std without blade	5.4	9.6*	2.9	4.9	2.0	3.2		1.8	2.9
	Blade down	6.6	9.6*	3.5	6.4*	2.4	4.6*		2.1	3.1*
-3.0	Std without blade	5.5	8.4*	3.0	4.9				2.3	3.7
	Blade down	6.7	8.4*	3.6	5.6*				2.7	4.4*
-4.5	Std without blade	5.3*	5.3*						4.4	4.5*
	Blade down								4.5*	4.5*

Stick 2.65 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		m
		Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down	
7.5	Std without blade								1.9*	1.9*
	Blade down								1.9*	1.9*
6.0	Std without blade			3.0*	3.0*				1.6*	1.6*
	Blade down			3.0*	3.0*				1.6*	1.6*
4.5	Std without blade			3.4*	3.4*	2.4	2.9*		1.6*	1.6*
	Blade down			3.4*	3.4*	2.8	3.0*		1.6*	1.6*
3.0	Std without blade	5.7*	5.7*	3.6	4.3*	2.3	3.5		1.6*	1.6*
	Blade down	5.7*	5.7*	4.2	4.3*	2.7	3.7*		1.6*	1.6*
1.5	Std without blade	6.0	8.8*	3.3	5.3	2.1	3.4		1.5	1.8*
	Blade down	7.1	8.8*	3.9	5.5*	2.5	4.2*		1.8*	1.8*
0	Std without blade	5.5	7.9*	3.0	5.0	2.0	3.2		1.5	2.1*
	Blade down	6.6	7.9*	3.6	6.3*	2.4	4.6*		1.9	2.1*
-1.5	Std without blade	5.4	9.3*	2.9	4.9	2.0	3.2		1.7	2.7*
	Blade down	6.5	9.3*	3.5	6.4*	2.3	4.6*		2.0	2.7*
-3.0	Std without blade	5.4	8.7*	2.9	4.9				2.1	3.4
	Blade down	6.6	8.6*	3.5	5.8*				2.5	4.3*
-4.5	Std without blade	5.7	5.9*						3.7	4.5*
	Blade down	5.8*	5.8*						4.5*	4.5*

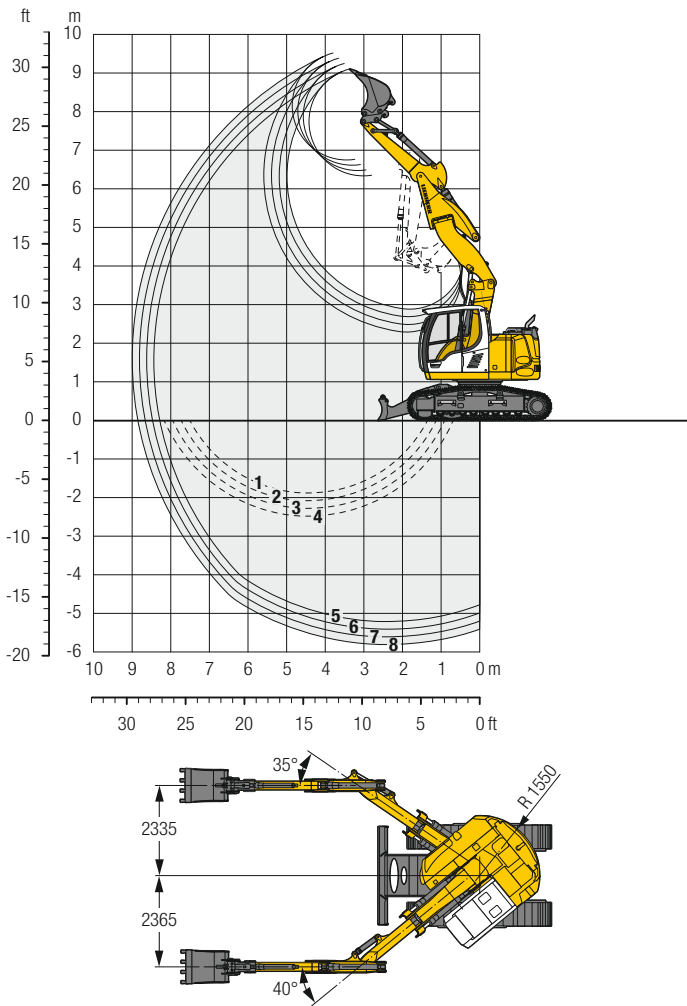
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach * Limited by hydr. capacity

The lift capacities on the load lift hook of the Liebherr quick coupler SW33 without working tool 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 stabilizers with the stabilizers down. The values apply to track pads measuring 600 mm in width. 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	5	6	7	8
Stick length	m 2.05	2.25	2.45	2.65
Max. digging depth	m 5.20	5.40	5.60	5.80
Max. reach at ground level	m 8.25	8.45	8.65	8.85
Max. dumping height	m 6.35	6.50	6.60	6.75
Max. teeth height	m 9.10	9.25	9.40	9.50
Min. attachment radius	m 2.22	2.25	2.27	2.31

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

Digging Forces

without quick coupler	5	6	7	8
Max. digging force (ISO 6015)	kN 72.7	67.9	63.8	60.1
	t 7.4	6.9	6.5	6.1
Max. breakout force (ISO 6015)	kN 88.2	88.2	88.2	88.2
	t 9.0	9.0	9.0	9.0

Max. breakout force with ripper bucket

124.1 kN (12.6 t)

Operating Weight and Ground Pressure

The operating weight includes the basic machine with triple grouser pads, offset two-piece boom 4.90 m, stick 2.25 m, quick coupler SW33 and bucket 850 mm/0.50 m³.

Undercarriage versions	Standard			with blade		
Pad width	mm 500	600	700	500	600	700
Weight	kg 15,600	15,800	16,100	16,700	16,900	17,200
Ground pressure	kg/cm ² 0.48	0.41	0.35	0.52	0.44	0.38

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

Cutting width mm	Capacity ISO 7451 ¹⁾ m ³	Weight kg	Standard without blade				with blade down				
			Stick length (m)				Stick length (m)				
			2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65	
500 ²⁾	0.32	250	■	■	■	■	■	■	■	■	■
550 ²⁾	0.29	260	■	■	■	■	■	■	■	■	■
650 ²⁾	0.36	290	■	■	■	■	■	■	■	■	■
850 ²⁾	0.50	340	■	■	■	■	■	■	■	■	■
1,050 ²⁾	0.65	380	■	■	■	■	■	■	■	■	■
1,250 ²⁾	0.80	430	■	△	△	△	■	■	■	■	■
500 ³⁾	0.30	240	■	■	■	■	■	■	■	■	■
550 ³⁾	0.31	250	■	■	■	■	■	■	■	■	■
650 ³⁾	0.39	270	■	■	■	■	■	■	■	■	■
850 ³⁾	0.53	320	■	■	■	■	■	■	■	■	■
1,050 ³⁾	0.71	370	■	■	■	■	■	■	■	■	■
1,250 ³⁾	0.87	420	△	△	△	—	■	■	■	■	■

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

¹⁾ comparable with SAE (heaped)

²⁾ Bucket with teeth (also available in HD version) ³⁾ Bucket with cutting edge (also available in HD version)

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

Lift Capacities

with Offset Two-Piece Boom 4.90 m

Stick 2.05 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		m		
7.5	Std without blade									2.4*	2.4*	3.8
	Blade down									2.4*	2.4*	
6.0	Std without blade			3.9	3.9*					2.1*	2.1*	5.6
	Blade down			3.9*	3.9*					2.1*	2.1*	
4.5	Std without blade			3.8	4.6*	2.3	3.6			1.9	2.0*	6.5
	Blade down			4.4	4.6*	2.7	3.6*			2.0*	2.0*	
3.0	Std without blade	6.7	8.2*	3.7	5.3*	2.3	3.5			1.6	2.1*	7.0
	Blade down	7.6	8.3*	4.2	5.3*	2.7	4.2*			1.9	2.1*	
1.5	Std without blade	6.5	9.2*	3.7	5.3	2.2	3.4			1.5	2.3*	7.2
	Blade down	7.4	9.2*	4.2	6.0*	2.6	4.4*			1.8	2.3*	
0	Std without blade	6.6	9.8*	3.5	5.4	2.0	3.3			1.4	2.4	7.0
	Blade down	7.5*	9.8*	4.1	6.1*	2.4	4.5*			1.8	2.7*	
-1.5	Std without blade	6.1	10.0*	3.1	5.2	1.8	3.1			1.6	2.7	6.5
	Blade down	7.3	10.0*	3.7	6.3*	2.2	4.2*			2.0	3.5*	
-3.0	Std without blade	5.6	9.7*	2.8	4.9					2.1	3.2*	5.4
	Blade down	6.8	9.7*	3.4	5.3*					2.6	3.2*	
-4.5	Std without blade											
	Blade down											

Stick 2.25 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		m		
7.5	Std without blade									2.2*	2.2*	4.2
	Blade down									2.2*	2.2*	
6.0	Std without blade					3.7*	3.7*			1.9*	1.9*	5.8
	Blade down					3.7*	3.7*			1.9*	1.9*	
4.5	Std without blade			3.9	4.5*	2.3	3.6*			1.8	1.8*	6.8
	Blade down			4.4	4.5*	2.7	3.6*			1.8*	1.8*	
3.0	Std without blade	6.7	7.9*	3.7	5.2*	2.3	3.6			1.5	1.9*	7.2
	Blade down	7.6*	7.9*	4.2	5.2*	2.7	4.1*			1.8	1.9*	
1.5	Std without blade	6.5	9.1*	3.7	5.3	2.2	3.5			1.4	2.1*	7.4
	Blade down	7.4	9.1*	4.1	5.9*	2.6	4.3*			1.7	2.1*	
0	Std without blade	6.5	9.7*	3.5	5.3	2.0	3.3			1.4	2.3	7.2
	Blade down	7.5	9.7*	4.2	6.1*	2.4	4.4*			1.7	2.4*	
-1.5	Std without blade	6.1	9.9*	3.1	5.2	1.8	3.1			1.5	2.6	6.7
	Blade down	7.3	9.9*	3.7	6.2*	2.2	4.4*			1.9	3.2*	
-3.0	Std without blade	5.6	10.0*	2.8	4.9					1.9	3.2*	5.7
	Blade down	6.8	10.0*	3.4	5.6*					2.4	3.1*	
-4.5	Std without blade											
	Blade down											

Stick 2.45 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		m		
7.5	Std without blade			2.0*	2.0*					2.0*	2.0*	4.5
	Blade down			2.1*	2.1*					1.9*	1.9*	
6.0	Std without blade			3.5*	3.5*	1.9*	1.9*			1.7*	1.7*	6.1
	Blade down			3.5*	3.5*	2.0*	2.0*			1.7*	1.7*	
4.5	Std without blade			3.9	4.3*	2.4	3.5*			1.7*	1.7*	7.0
	Blade down			4.3*	4.3*	2.8	3.5*			1.7*	1.7*	
3.0	Std without blade	6.7	7.5*	3.7	5.0*	2.4	3.6			1.4	1.7*	7.4
	Blade down	7.5*	7.5*	4.2	5.1*	2.7	4.0*			1.7*	1.7*	
1.5	Std without blade	6.5	9.0*	3.6	5.3	2.3	3.5	1.3	2.2*	1.3	1.9*	7.6
	Blade down	7.4	9.0*	4.1	5.8*	2.6	4.3*	1.6	2.2*	1.6	1.9*	
0	Std without blade	6.5	9.6*	3.6	5.3	2.1	3.3			1.3	2.2*	7.4
	Blade down	7.4	9.6*	4.2	6.1*	2.5	4.4*			1.6	2.2*	
-1.5	Std without blade	6.1	9.8*	3.2	5.3	1.9	3.1			1.4	2.4	6.9
	Blade down	7.3	9.8*	3.8	6.2*	2.3	4.4*			1.8	2.8*	
-3.0	Std without blade	5.7	10.2*	2.8	4.9					1.8	3.1	5.9
	Blade down	6.9	10.2*	3.4	5.9*					2.2	3.1*	
-4.5	Std without blade											
	Blade down											

Stick 2.65 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		m		
7.5	Std without blade			2.3*	2.3*					1.8*	1.8*	4.9
	Blade down			2.4*	2.4*					1.8*	1.8*	
6.0	Std without blade					2.2*	2.2*			1.6*	1.6*	6.3
	Blade down					2.2*	2.2*			1.6*	1.6*	
4.5	Std without blade			3.9	3.9*	2.4	3.4*			1.5*	1.5*	7.2
	Blade down			4.0*	4.0*	2.8	3.4*			1.5*	1.5*	
3.0	Std without blade	6.8	7.1*	3.7	4.9*	2.4	3.5	1.4	2.0*	1.4	1.6*	7.6
	Blade down	7.2*	7.2*	4.2	4.9*	2.8	3.9*	1.7	2.0*	1.6*	1.6*	
1.5	Std without blade	6.4	9.0*	3.6	5.3	2.3	3.5	1.4	2.3	1.3	1.7*	7.8
	Blade down	7.4	9.0*	4.1	5.7*	2.7	4.2*	1.7	2.6*	1.5	1.7*	
0	Std without blade	6.4	9.4*	3.6	5.2	2.1	3.4	1.3	2.2	1.2	1.9*	7.6
	Blade down	7.4*	9.5*	4.1	6.0*	2.5	4.4*	1.6	2.4*	1.5	1.9*	
-1.5	Std without blade	6.1	9.8*	3.3	5.3	1.9	3.1			1.3	2.3	7.1
	Blade down	7.3	9.8*	3.9	6.1*	2.3	4.4*			1.7	2.4*	
-3.0	Std without blade	5.8	10.2*	2.9	4.9	1.7	3.0			1.6	2.9	6.2
	Blade down	7.0	10.2*	3.5	6.1*	2.1	3.4*			2.0	3.0*	
-4.5	Std without blade	5.4	6.5*							3.5	4.0*	3.9
	Blade down	6.4*	6.4*							4.1*	4.1*	

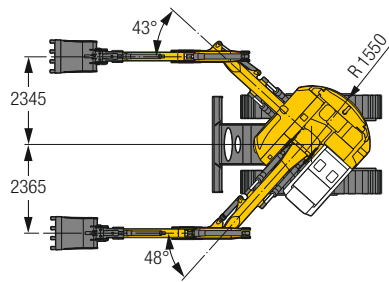
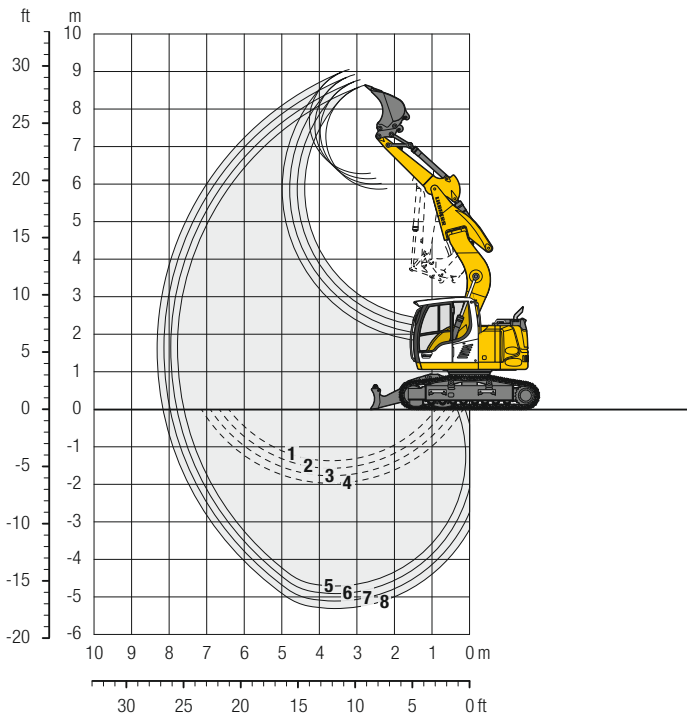
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach * Limited by hydr. capacity

The lift capacities on the load lift hook of the Liebherr quick coupler SW33 without working tool 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 stabilizers with the stabilizers down. The values apply to track pads measuring 600 mm in width 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	5	6	7	8
Stick length	m 2.05	2.25	2.45	2.65
Max. digging depth	m 4.70	4.90	5.10	5.30
Max. reach at ground level	m 7.60	7.80	8.00	8.15
Max. dumping height	m 5.90	6.00	6.15	6.30
Max. teeth height	m 8.65	8.80	8.90	9.05
Min. attachment radius	m 1.60	1.63	1.65	1.68

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

Digging Forces

without quick coupler	5	6	7	8
Max. digging force (ISO 6015)	kN 72.7	67.9	63.8	60.1
	t 7.4	6.9	6.5	6.1
Max. breakout force (ISO 6015)	kN 88.2	88.2	88.2	88.2
	t 9.0	9.0	9.0	9.0

Max. breakout force with ripper bucket

124.1 kN (12.6 t)

Operating Weight and Ground Pressure

The operating weight includes the basic machine with triple grouser pads, offset mono boom 4.30 m, stick 2.25 m, quick coupler SW33 and bucket 850 mm/0.50 m³.

Undercarriage versions	Standard			with blade		
Pad width	mm 500	600	700	500	600	700
Weight	kg 15,000	15,200	15,400	16,100	16,300	16,600
Ground pressure	kg/cm² 0.46	0.39	0.34	0.50	0.42	0.37

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

Cutting width mm	Capacity ISO 7451 ¹⁾ m ³	Weight kg	Standard without blade				with blade down				
			Stick length (m)				Stick length (m)				
			2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65	
500 ²⁾	0.32	250	■	■	■	■	■	■	■	■	■
550 ²⁾	0.29	260	■	■	■	■	■	■	■	■	■
650 ²⁾	0.36	290	■	■	■	■	■	■	■	■	■
850 ²⁾	0.50	340	■	■	■	■	■	■	■	■	■
1,050 ²⁾	0.65	380	■	■	■	■	■	■	■	■	■
1,250 ²⁾	0.80	430	■	■	■	■	■	■	■	■	■
500 ³⁾	0.30	240	■	■	■	■	■	■	■	■	■
550 ³⁾	0.31	250	■	■	■	■	■	■	■	■	■
650 ³⁾	0.39	270	■	■	■	■	■	■	■	■	■
850 ³⁾	0.53	320	■	■	■	■	■	■	■	■	■
1,050 ³⁾	0.71	370	■	■	■	■	■	■	■	■	■
1,250 ³⁾	0.87	420	■	■	■	■	■	■	■	■	■

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

¹⁾ comparable with SAE (heaped)

²⁾ Bucket with teeth (also available in HD version) ³⁾ Bucket with cutting edge (also available in HD version)

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

Lift Capacities

with Offset Mono Boom 4.30 m

Stick 2.05 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		m
		Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down	
7.5	Std without blade									
	Blade down									
6.0	Std without blade			2.5*	2.5*			2.1*	2.1*	4.7
	Blade down			2.5*	2.5*			2.1*	2.1*	
4.5	Std without blade	4.9*	4.9*	3.8	4.4*			2.0*	2.0*	5.8
	Blade down	4.9*	4.9*	4.4	4.4*			2.0*	2.0*	
3.0	Std without blade	6.7	7.2*	3.5	5.1*	2.2	3.4*	2.0	2.1*	6.3
	Blade down	7.2*	7.2*	4.1	5.1*	2.6	3.4*	2.1*	2.1*	
1.5	Std without blade	5.8	9.7*	3.2	5.2	2.1	3.3	1.8	2.4*	6.5
	Blade down	6.9	9.7*	3.8	6.0*	2.5	4.6*	2.2	2.4*	
0	Std without blade	5.4	9.9*	3.0	5.0	2.0	3.2	1.9	3.0*	6.3
	Blade down	6.5	9.9*	3.6	6.4*	2.4	4.7*	2.2	3.0*	
-1.5	Std without blade	5.3	9.0*	2.9	4.9			2.1	3.5	5.7
	Blade down	6.5	9.0*	3.5	6.0*			2.5	4.4*	
-3.0	Std without blade	5.5	6.7*					3.0	4.5*	4.5
	Blade down	6.6	6.7*					3.6	4.5*	
-4.5	Std without blade									
	Blade down									

Stick 2.25 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		m		
		Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down			
7.5	Std without blade											
	Blade down											
6.0	Std without blade			2.7*	2.7*					1.9*	1.9*	4.9
	Blade down			2.7*	2.7*					1.9*	1.9*	
4.5	Std without blade			3.8	4.1*					1.8*	1.8*	6.0
	Blade down			4.2*	4.2*					1.8*	1.8*	
3.0	Std without blade	6.8*	6.8*	3.5	5.0*	2.2	3.5			1.9*	1.9*	6.5
	Blade down	6.8*	6.8*	4.1	5.0*	2.6	3.6*			1.9*	1.9*	
1.5	Std without blade	5.8	9.4*	3.2	5.2	2.1	3.3			1.8	2.1*	6.7
	Blade down	7.0	9.4*	3.8	5.9*	2.5	4.5*			2.1	2.1*	
0	Std without blade	5.4	10.0*	3.0	5.0	2.0	3.2			1.8	2.6*	6.5
	Blade down	6.5	10.0*	3.6	6.4*	2.4	4.6*			2.1	2.6*	
-1.5	Std without blade	5.3	9.2*	2.9	4.8					2.0	3.3	5.9
	Blade down	6.4	9.2*	3.5	6.1*					2.4	3.7*	
-3.0	Std without blade	5.4	7.1*	2.9	4.8*					2.7	4.4*	4.7
	Blade down	6.6	7.1*	3.5	4.7*					3.3	4.4*	
-4.5	Std without blade											
	Blade down											

Stick 2.45 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		m		
		Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down			
7.5	Std without blade											
	Blade down											
6.0	Std without blade			2.8*	2.8*			1.7*	1.7*	5.2		
	Blade down			2.8*	2.8*			1.7*	1.7*			
4.5	Std without blade			3.8	3.9*	2.2*	2.2*			1.7*	1.7*	6.2
	Blade down			3.9*	3.9*	2.2*	2.2*			1.7*	1.7*	
3.0	Std without blade	6.3*	6.3*	3.6	4.8*	2.2	3.5			1.7*	1.7*	6.7
	Blade down	6.4*	6.4*	4.2	4.8*	2.6	3.6*			1.7*	1.7*	
1.5	Std without blade	5.9	9.1*	3.2	5.3	2.1	3.3			1.7	1.9*	6.9
	Blade down	7.1	9.1*	3.8	5.7*	2.5	4.4*			1.9*	1.9*	
0	Std without blade	5.4	10.0	3.0	5.0	2.0	3.2			1.7	2.3*	6.7
	Blade down	6.5	10.1*	3.5	6.3*	2.4	4.6*			2.0	2.3*	
-1.5	Std without blade	5.2	9.4*	2.8	4.8	1.9	3.1			1.9	3.1	6.1
	Blade down	6.4	9.4*	3.4	6.2*	2.3	3.9*			2.3	3.2*	
-3.0	Std without blade	5.3	7.5*	2.9	4.9					2.5	4.1	5.0
	Blade down	6.5	7.4*	3.5	5.0*					3.0	4.3*	
-4.5	Std without blade											
	Blade down											

Stick 2.65 m

m	Undercarriage	3.0 m		4.5 m		6.0 m		7.5 m		m		
		Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down	Std without blade	Blade down			
7.5	Std without blade									1.9*	1.9*	3.6
	Blade down									1.9*	1.9*	
6.0	Std without blade			2.8*	2.8*					1.6*	1.6*	5.4
	Blade down			2.8*	2.8*					1.6*	1.6*	
4.5	Std without blade			3.6*	3.6*	2.3	2.4*			1.5*	1.5*	6.4
	Blade down			3.6*	3.6*	2.4*	2.4*			1.5*	1.5*	
3.0	Std without blade	5.9*	5.9*	3.6	4.6*	2.2	3.5			1.6*	1.6*	6.9
	Blade down	5.9*	5.9*	4.2	4.6*	2.6	3.5*			1.6*	1.6*	
1.5	Std without blade	6.0	8.7*	3.2	5.3	2.1	3.3			1.6	1.7*	7.1
	Blade down	7.2	8.8*	3.8	5.6*	2.5	4.3*			1.7*	1.7*	
0	Std without blade	5.4	10.0*	3.0	5.0	1.9	3.2			1.6	2.1*	6.9
	Blade down	6.5	10.0*	3.5	6.3*	2.3	4.6*			1.9	2.1*	
-1.5	Std without blade	5.2	9.5*	2.8	4.8	1.9	3.1			1.8	2.8*	6.3
	Blade down	6.3	9.5*	3.4	6.2*	2.3	4.4*			2.1	2.8*	
-3.0	Std without blade	5.3	7.8*	2.8	4.8					2.3	3.8	5.3
	Blade down	6.4	7.8*	3.4	5.2*					2.8	4.2*	
-4.5	Std without blade											
	Blade down											

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

The lift capacities on the load lift hook of the Liebherr quick coupler SW33 without working tool 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 stabilizers with the stabilizers down. The values apply to track pads measuring 600 mm in width. 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.

Attachments

Ditch Cleaning Buckets/Tilt Buckets

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

Cutting width mm	Capacity ISO 7451 ¹⁾ m ³	Weight kg	Standard without blade				with blade down			
			Stick length (m)				Stick length (m)			
			2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65
Two-piece boom 4.85 m										
1,500 ³⁾	0.50	360	■	■	■	■	■	■	■	■
1,600 ²⁾	0.55	690	■	■	■	■	■	■	■	■
2,000 ²⁾	0.50	690	■	■	■	■	■	■	■	■
2,000 ³⁾	0.48	350	■	■	■	■	■	■	■	■
2,000 ³⁾	0.65	390	■	■	■	■	■	■	■	■
Mono boom 4.60 m										
1,500 ³⁾	0.50	360	■	■	■	■	■	■	■	■
1,600 ²⁾	0.55	690	■	■	■	■	■	■	■	■
2,000 ²⁾	0.50	690	■	■	■	■	■	■	■	■
2,000 ³⁾	0.48	350	■	■	■	■	■	■	■	■
2,000 ³⁾	0.65	390	■	■	■	■	■	■	■	■
Offset two-piece boom 4.90 m										
1,500 ³⁾	0.50	360	■	■	■	■	■	■	■	■
1,600 ²⁾	0.55	690	■	■	■	■	■	■	■	■
2,000 ²⁾	0.50	690	■	■	■	■	■	■	■	■
2,000 ³⁾	0.48	350	■	■	■	■	■	■	■	■
2,000 ³⁾	0.65	390	■	■	■	■	■	■	■	■
Offset mono boom 4.30 m										
1,500 ³⁾	0.50	360	■	■	■	■	■	■	■	■
1,600 ²⁾	0.55	690	■	■	■	■	■	■	■	■
2,000 ²⁾	0.50	690	■	■	■	■	■	■	■	■
2,000 ³⁾	0.48	350	■	■	■	■	■	■	■	■
2,000 ³⁾	0.65	390	■	■	■	■	■	■	■	■

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

Cutting width mm	Capacity ISO 7451 ¹⁾ m ³	Weight kg	Standard without blade				with blade down			
			Stick length (m)				Stick length (m)			
			2.05	2.25	2.45	2.65	2.05	2.25	2.45	2.65
Two-piece boom 4.85 m										
1,500 ²⁾	0.60	680	■	■	■	■	■	■	■	■
Mono boom 4.60 m										
1,500 ²⁾	0.60	680	■	■	■	■	■	■	■	■
Offset two-piece boom 4.90 m										
1,500 ²⁾	0.60	680	■	■	■	△	■	■	■	■
Offset mono boom 4.30 m										
1,500 ²⁾	0.60	680	■	■	■	■	■	■	■	■

* 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

¹⁾ comparable with SAE (heaped)

²⁾ with 2 x 50° rotator

³⁾ rigid ditch cleaning bucket

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

Equipment

Undercarriage

Stabilizer blade	+
600 mm triple grouser track pads	•
500 mm rubber track pads (Bridgestone)	+
Track pads, variants	+
Travel speed levels (two)	•
One-piece chain guide	•
Three-piece chain guide	+
Load holding valve on each stabilization cylinder	•
Cutting edge on the stabilizer blade	+
Protection for piston rods, stabilizer cylinder	•
Tool equipment, extended	+

Uppercarriage

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

Hydraulic System

Shut-off valve between hydraulic tank and pump(s)	•
Pressure test fittings	•
Accumulator for controlled lowering of the attachment with the engine shut down	•
Hydraulic oil filter with integrated microfilter	•
Liebherr hydraulic oil from -20 °C to +40 °C	•
Liebherr hydraulic oil, biologically degradable	+
Liebherr hydraulic oil, specially for warm or cold regions	+
Bypass filter	+
Switchover high pressure circuit 1 and tipping cylinder	+
Switchover high pressure circuit 1 and two-piece boom	+

Diesel Engine

Deutz particle filter	+
Fuel anti-theft device	+
Air pre-filter with dust discharge	+
Preheating fuel	+

Operator's Cab

Storage compartment	•
Cab lights rear, LED	+
Cab lights front, halogen (under rain cover)	•
Cab lights front, LED (above rain cover)	+
Cab lights front, LED (under rain cover)	+
Mechanical hour meters, readable from outside the cab	•
Roof window made from impact-resistant laminated safety glass	•
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	•
Footrest	+
Rubber floor mat, removable	•
Dome light	•
Automatic air conditioning	•
Fuel consumption indicator	•
Electric cooler	+
LiDAT, vehicle fleet management	•
Automatic engine shut-down (time adjustable)	+
Emergency exit rear window	•
Positioning swing brake	+
Proportional control	+
Radio Comfort, control via display with handsfree set	+
Preparation for radio installation	•
Rain cover over front window opening	•
ROPS cab protection	•
Warning beacon on cab, LED	+
All tinted windows	•
Windscreen wiper, roof	+
Door with sliding window	•
Top guard	+
Front guard	+
Right side window and windshield made from laminated safety glass	•
Sun blind	•
Auxiliary heating, adjustable (week time switch)	+
Electronic immobilizer	+
Cigarette lighter	•

Equipment



Attachment

Boom lights, 2 pieces, halogen	•
Boom lights, 2 pieces, LED	+
Stick lights, 2 pieces, LED	+
High pressure circuit incl. unpressurised return line and Tool Control	+
Hydraulic circuit, extended	+
Load lug on stick	+
Leak oil line, additional for working tools	+
Liebherr ditch cleaning bucket	+
Liebherr quick coupler, hydraulic or mechanical	+
Liebherr tilt bucket	+
Liebherr tilt rotator	+
Liebherr 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	•
Return line, pressureless (in high pressure circuit option included)	+
Hose quick coupling at end of stick	•
Quick coupling system LIKUFIX	+
Protection for piston rod, bucket cylinder	+
Protection for piston rods, stick cylinder	+
Protection for bottom side of stick	+
Tool Control, 10 tool adjustments selectable over the display	+
Overload warning device	•
Two-piece boom	+
Offset two-piece boom	+



Complete Machine

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

• = Standard, + = Option

* = country-dependent

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

Liebherr-Hydraulikbagger GmbH

Liebherrstraße 12, D-88457 Kirchdorf/Iller

☎ +49 7354 80-0, Fax +49 7354 80-72 94

www.liebherr.com, E-Mail: info.lhb@liebherr.com

www.facebook.com/LiebherrConstruction