Crawler Excavator

R 934 C

Operating Weight: 32,600 – 33,500 kg
Engine Output: 150 kW / 203 HP
Bucket Capacity: 1.45 - 1.80 m³



LIEBHERR

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Performance

Liebherr crawler excavators feature state-of-the-art technology and high-quality workmanship. The most important components of the drive system are all produced by Liebherr and are perfectly coordinated with one another. The engine generation, as further developed for the "C-series", assures an effective power delivery, a high degree of efficiency, long life expectancy and complies with the emission standard IIIA / Tier 3.

Reliability

High demand for performance and quality is consequently converted into landmark solutions to achieve the highest level of dependability and reliability. Liebherr has over 50 years experience in the production of hydraulic excavators and has an unparalleled competence in design and know-how.

Comfort

In the operator's station, the operator can look forward to a comfortable workstation that is designed according to the most up-to-date ergonomically know-how. The standard climate control provides a pleasant working environment in all weather conditions.

Liebherr crawler excavators are particularly servicefriendly: Maintenance work is simply and quickly accomplished due to well accessible service points.

Economy

Liebherr crawler excavators stand for maximum productivity. The sensitive excavator controls assure optimal efficiency in the interaction of excavator hydraulics and electronics. A wide selection of attachments and buckets with various dimensions provide the correct choice for every application.

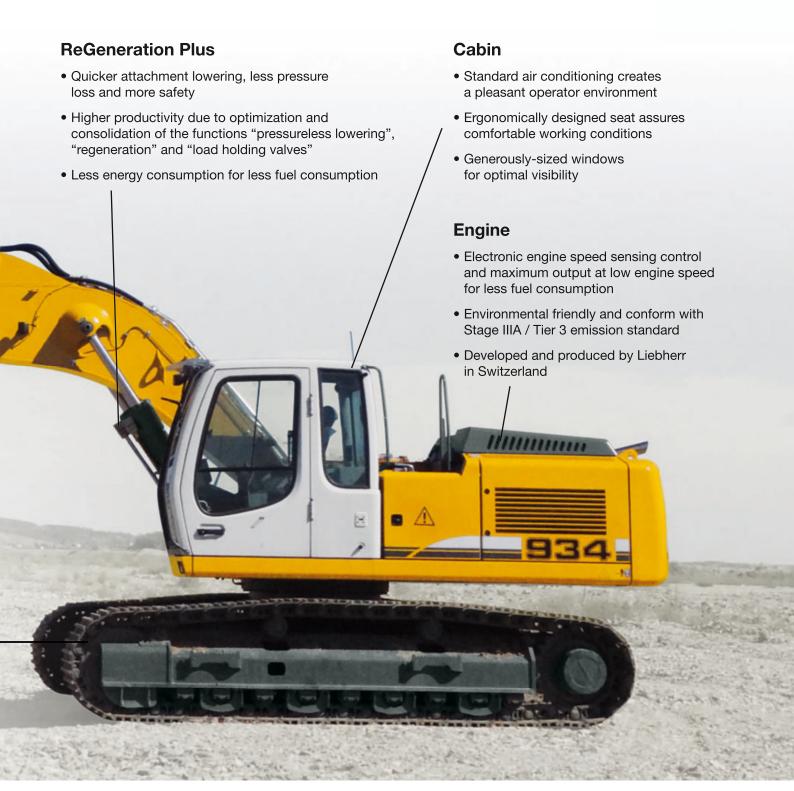


Experience progress R 934 C

Liebherr System Technology

- Key-components such as engine, hydraulic pumps and motors, swing and travel gear boxes as well as electronic elements are developed and produced by Liebherr
- Manufacturing centers for components located in Germany and Switzerland assure a maximum of quality





Technical Data



Engine

Rating per ISO 9249	150 kW (203 HP) at 1,800 RPM
WOUGI	conform with stage IIIA/Tier 3 emission standard.
	For applications at altitude higher than 3,000 m
_	please contact your local dealer
Type	
Bore/Stroke	
Displacement	
Engine operation	
	unit pump system
	turbo-charged and after-cooled
	reduced emissions
	water-cooled and integrated engine oil cooler
Air cleaner	dry-type air cleaner with pre-cleaner, primary and
	safety elements
Fuel tank	
	sensor controlled engine idling
Electrical system	
Voltage	24 V
Batteries	
Starter	24 V/6.6 kW
Alternator	28 V/80 A



Hydraulic System

Hydraulic pump	
for attachment	
and travel drive	Liebherr variable flow, swash plate double pump
Max. flow	2 x 245 l/min.
Max. pressure	350 bar
Pump regulation	 electro-hydraulic with electronic engine speed sensing regulation, pressure compensation, flow compensation, automatic oil flow optimizer
Hydraulic pump	
for swing drive	reversible, variable flow, swash plate pump, closed-loop circuit
Max. flow	149 l/min.
Max. pressure	350 bar
Hydraulic tank	340 l
Hydraulic system	550 l
Hydraulic oil filter	1 full flow filter in return line with integrated fine
	filter area (5 μm)
Hydraulic oil cooler	compact cooler, consisting of a water cooler, sandwiched with hydraulic oil cooler and fuel and
MODE selection	 after-cooler cores and hydrostatically driven fan adjustment of machine performance and the hydraulics via a mode selector to match application
ECO	for especially economical and environmentally friendly operation
POWER	for maximum digging power and heavy duty jobs
FINE	for precision work and lifting through very sensitive movements
RPM adjustment	stepless adjustment of engine output via the rpm at each selected mode
Tool Control	ten preadjustable pump flows and pressures for



Hydraulic Controls

Power distribution	via monoblock control valve with integrated safety valves
Flow summation	to boom and stick
Closed-loop circuit	for uppercarriage swing drive
Servo circuit	
	proportional via joystick levers
Travel	proportional via foot pedals or removable hand
A -1-11411 -541	levers and speed pre-selection
Additional functions	via foot pedals or joystick toggle switch



Swing Drive

Drive by	_ Liebherr swash plate motor with integrated brake valves
Transmission	Liebherr compact planetary reduction gear
Swing ring	Liebherr, sealed single race ball bearing swing
	ring, internal teeth. Lubrication via a grease distributor and a grease nipple
Swing speed	_ 0 - 8.2 RPM stepless
Swing torque	_ 84 kNm
Holding brake	_ wet multi-disc (spring applied, pressure released)



Operator's Cab

Cab	built from deep drawn components, resiliently mounted, sound insulated, tinted windows, front window stores overhead, door with sliding window
Operator's seat	_ shock absorbing suspension, adjustable to operator's weight, 4-way adjustable seat
Joysticks	_ integrated into adjustable seat consoles
Monitoring	_ menu driven query of current operating condi-
•	tions. Automatic monitoring, display, warning (acoustical and optical signal) and saving machine malfunction data, for example, engine overheating, low engine oil pressure or low hydraulic oil level
Heating system	_ standard air conditioning, combined cooler/ heater, additional dust filter in fresh air/recircu- lated
Noise emission ISO 6396	L_{pA} (inside cab) = 72 dB(A) L_{WA} (surround noise) = 103 dB(A)



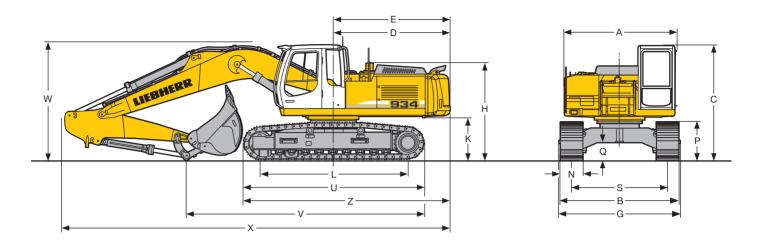
Undercarriage

LC	heavy duty, wide gauge
Drive	Liebherr swash plate motors with integrated
	brake valves on both sides
Transmission	Liebherr planetary reduction gears
Travel speed	low range - 2.9 km/h
·	high range – 5.2 km/h
Drawbar pull max	_ 243 kN
Track components	_ D 7, maintenance-free,
·	for 600 mm and 750 mm pad width
Track rollers/Carrier rollers	_ 9/2
Tracks	sealed and greased
Track pads	_ triple grouser
Digging locks	wet multi-discs (spring applied, pressure
	released)
Brake valves	_ integrated into travel motor



Type	combination of resistant steel plates and cast
Hydraulic cylinders	steel components _ Liebherr cylinders with special seal-system and shock absorbers
Pivots	sealed, low maintenance
Lubrication	easy accessible centralized lubrication points for
	boom and stick
Hydraulic connections	pipes and hoses equipped with SAE split-flange
	connections
Bucket	fitted as standard with 12 t lifting hook and
	Liebherr tooth system

Dimensions

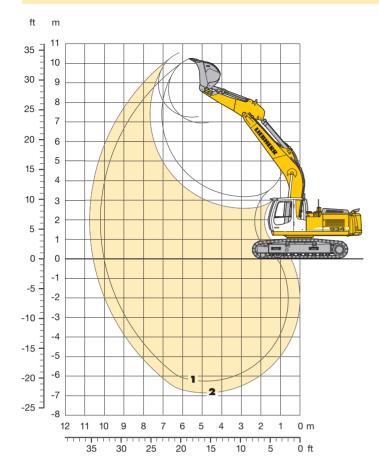


		mm
Α		3,050
С		3,120
C D E		3,145
		3,145
Н		2,650
K		1,155
L		4,000
Р		1,046
Q		496
U		4,920
U S		2,590
Ν	600	750
В	3,190	3,340
G Z	3,176	
Z		5,600

	Stick	Mono Boom 6.05 m
	Length	
	m	mm
V	2.50	6,450
	3.10	5,850
W	2.50	3,150
	3.10	3,250
X	2.50	10,500
	3.10	10,500

Backhoe Attachment

with Mono Boom 6.05 m



Digging Envelope		1	2
Stick length	m	2.50	3.10
Max. digging depth	m	6.25	6.85
Max. reach at ground level	m	10.00	10.55
Max. dump height	m	6.95	7.25
Max. teeth height	m	10.25	10.55

Digging Forces		1	2
Digging force ISO	kN	144	124
	t	14.7	12.6
Breakout force ISO	kN	176 17.9	176
	t	17.9	17.9
Max, breakout force with ripper bucket	2	251 kN ((25.6 t)

Operating Weight and Ground Pressure

Operating weight includes basic machine with mono boom 6.05~m, stick 3.10~m and bucket $1.65~\text{m}^3$.

Undercarriage	ige		LC	
Pad width	mm	600	750	
Weight	kg	32,600	33,500	
Ground pressure	kg/cm ²	0.63	0.52	

Buckets Machine stability per ISO 10567* (75% of tipping capacity)										
	icity 7451	Weight	LC-Undercarriage							
Cutting width	Capaci ISO 74		Stick ler 2.50	ngth (m) 3.10						
mm	m ³	kg	2.50	3.10						
=, 1,450		1,340	0							
<mark> 1,500</mark>	1.65	1,450	0	Δ						
1,600	1.80	1,540		•						
의 1,450 도 1.550	1.65	1,300	0	Δ						
呈 1,550	1.80	1,390								
1,450	1.45	1,400	0							
1,450 1,600	1.65	1,450		Δ						
1,550	1.80	1,460	Δ	•						
① 1,450 日 1,550	1.65	1,300		Δ						
呈 1,550	1.80	1,350	Δ							

- * Indicated loads are based on ISO 10567 max. stick length, lifted 360° on firm and even ground
- $^{\rm 1)}$ HDL bucket for direct fitting with teeth Z 20
- 2) HDL bucket for direct fitting with teeth Z 16
- ³⁾ HDL bucket for mounting to quick coupler with teeth Z 20
- 4) HDL bucket for mounting to quick coupler with teeth Z 16

Other buckets available on request

Max. material weight \bigcirc = \leq 2.2 t/m³, \square = \leq 2.0 t/m³, \triangle = \leq 1.8 t/m³, \blacksquare = \leq 1.5 t/m³

Lift Capacities

with Mono Boom 6.05 m

Stick 2.50 m														
‡ 🌽	Under- carriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				
		- 4	<u></u>	4	<u></u>	 -4∰	<u>i</u>	<u>4</u>	<u></u>	 -4	<u></u>	<u>{</u>	Ŀ	m
7.5	LC					7.4*	7.4*					5.8*	5.8*	6.3
6.0	LC					8.3*	8.3*					5.5*	5.5*	7.4
4.5	LC			11.4*	11.4*	8.4	9.1*	6.0	8.0*			5.3	5.5*	8.1
3.0	LC			11.9	13.9*	7.9	10.2*	5.8	8.5*			4.8	5.7*	8.4
1.5	LC			11.2	15.5*	7.5	11.1*	5.6	8.7			4.7	6.1*	8.5
0	LC			11.0	15.5*	7.3	11.4*	5.4	8.6			4.8	6.9*	8.3
-1.5	LC	11.2*	11.2*	11.0	14.6*	7.3	11.0*	5.4	8.5*			5.2	8.1*	7.7
- 3.0	LC	16.1*	16.1*	11.2	12.6*	7.4	9.6*					6.2	8.0*	6.9
-4.5	LC			9.0*	9.0*							7.5*	7.5*	5.3

Stick 3.10 m														
‡ 🌽	Under- carriage	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				
		 ‡	<u>L</u>	 ∰	<u>L</u>		<u></u>		<u>L</u>		ď	 ∰	ď	m
7.5	LC					7.0*	7.0*					4.5*	4.5*	7.1
6.0	LC					7.6*	7.6*	6.2	6.3*			4.3*	4.3*	8.0
4.5	LC			10.2*	10.2*	8.4*	8.4*	6.0	7.5*			4.2*	4.2*	8.7
3.0	LC			12.3	12.9*	8.1	9.6*	5.8	8.1*			4.4*	4.4*	9.0
1.5	LC			11.4	14.9*	7.6	10.7*	5.6	8.6*	4.3	5.0*	4.3	4.7*	9.0
0	LC	5.5*	5.5*	11.0	15.6*	7.3	11.3*	5.4	8.5			4.3	5.2*	8.8
- 1.5	LC	10.5*	10.5*	10.9	15.1*	7.2	11.2*	5.3	8.4			4.6	6.1*	8.3
- 3.0	LC	16.5*	16.5*	11.0	13.6*	7.2	10.3*	5.4	7.6*			5.4	7.6*	7.5
-4.5	LC	14.1*	14.1*	10.7*	10.7*	7.5	7.8*					7.1	7.3*	6.2

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

The load values are quoted in tons (t) at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 600 mm wide triple grouser pads. Indicated loads are based on ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity (indicated via *). With quick coupler the lift capacities will decrease by 350 kg. Without bucket cylinder, link and lever the lift capacities increase by an additional 430 kg. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.

According to European Standard, EN 474-5, in the European Union excavators have to be equipped with an overload warning device, a load diagram and automatic check valves on the hoist cylinders, when they are used for lifting operations which require the use of lifting accessories.

Standard Equipment



Undercarriage

Idler protection

Lifetime lubricated track rollers

Single piece track guide at each track frame

Tracks sealed and greased

Two-stage travel motors



Uppercarriage

Easy accessible lubrication points

Engine hood with lift help and mechanical lock

Handrails, non slip surfaces

Lockable tool box

Main switch for electric circuit

Maintenance-free HD-batteries

Maintenance-free swing brake lock

Sound insulation

Tool kit



Hydraulics

Electronic pump regulation

Filter with integrated fine filter area (5 µm)

Flow compensation

Hydraulic tank shut-off valve

Pressure compensation

Pressure storage for controlled lowering of attachments with

engine turned off

Pressure test ports

Stepless work mode selector



Engine

Conform with stage IIIA/Tier 3 emission standard

Dry-type air cleaner, main and safety element

Sensor controlled engine idling

Turbo charger

Unit pump system with direct injection



Operator's Cab

All tinted windows

Cigarette lighter and ashtray

Closed storage space

Cloth hook

Displays for engine operating condition

Dome light

Door with sliding window

Emergency exit through rear window

Inside rear mirror

Load bearing sectional profile structure, covered with

deep-drawn panels

Mechanical hour meters, readable from outside the cab

MP3 radio with USB and SD-Card support

Rain hood over front window opening

Removable floor mat

Right window made of one piece (without post)

Roof window, right window and windshield armored

Seat and consoles independently adjustable (4-way adjustable seat)

Standard air conditioning with defroster

Storage tray

Sun roller blind

Wiper/washer



Attachment

12 t lifting hook on bucket

Cylinders with shock absorbers

Easy accessible centralized lubrication points for boom and stick

Pipe fracture safety valves for hoist cylinders

ReGeneration plus

SAE split flanges on all high pressure lines

Sealed pivots/O-ring sealant between bucket and stick

Work light on boom

Individual Options



Undercarriage

4-piece track guide at each track frame

Reinforced cover plate and reinforced base plate for center section

Track pads D 7 750 mm triple grouser*

Travel drive protection

Wide ascent for 750 mm track pads



Uppercarriage

Rear mirror on counterweight and right side

Rear view monitoring system with camera

Tank re-fueling pump

Winter kit**



Hydraulics

Additional high pressure hydraulic circuits for hammer and/or shear Additional medium pressure hydraulic circuits

Return filter for hammer

Tool Control



Operator's Cab

2 additional halogen flood lights (front)

2 additional halogen flood lights (rear)

Acoustic travel alarm

Air suspension operator seat with heating and head-rest

Extinguisher

FGPS Protection

FOPS Protection

GPS system

Warning beacon



Attachment

Additional bottom protection for boom

Additional bottom protection for stick

Additional work light on boom

Fully-automatic central lubrication system

(except link and tilt geometry)

Hydraulic lines for additional tools

Liebherr line of buckets

Mechanical and hydraulic quick coupler

Overload warning device

Piston rod protection for bucket cylinder



Engine

External engine cold starting aid

Fuel pre-heating system

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.

^{* =} not suitable for hard rock or forestry application, ** = for more details please contact your local dealer

The Liebherr Group of Companies



Wide Product Range

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

Exceptional Customer Benefit

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

State-of-the-art Technology

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

Worldwide and Independent

Hans Liebherr founded the Liebherr family company in 1949. Since that time, the enterprise has steadily grown to a group of more than 130 companies with over 38,000 employees located on all continents. The corporate headquarters of the Group is Liebherr - International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.



