

Crawler Excavator

R 924 **R 926**
Litronic® Litronic®

Operating Weight:	54,345 - 57,320 lb	59,305 - 61,950 lb
Engine Output (SAE J1349):	161 HP/120 kW	173 HP/129 kW
Engine Output (ISO 9249):	163 HP/120 kW	175 HP/129 kW
Bucket Capacity:	1.24 - 2.16 yd ³	1.50 - 2.30 yd ³



**New
engine output**

LIEBHERR

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R 926 Litronic®

Operating Weight: 59,305 - 61,950 lb
Engine Output (SAE J1349): 173 HP/129 kW
Engine Output (ISO 9249): 175 HP/129 kW
Bucket Capacity: 1.50 - 2.30 yd³



Performance

The new R 924 and R 926 crawler excavators are high-performance machines which balance power, accuracy and efficiency in the most effective way. Furthermore, cutting-edge hydraulics allow full flexibility and precision movements even on the most demanding applications.

Reliability

Liebherr-France SAS perpetuates the Liebherr Group's tradition of quality and innovation to offer a product that satisfies the needs of its clients throughout the world. Liebherr-France SAS rigorously selects the materials and components and continuously adapts internal processes to ensure it always attains the quality that customers expect.

Comfort

One of the advantages of the R 924 and R 926 is a space especially created to satisfy the operator's needs. The cab offers a spacious, comfortable and quiet environment. This aspect of well-being enhances the operator's performance.

Economy

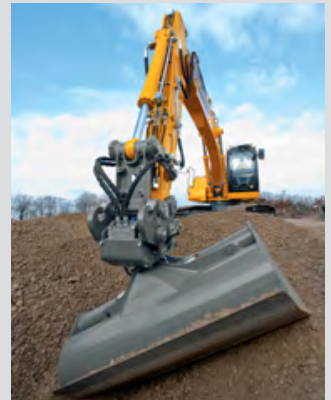
Maintenance is faster and more effective thanks to the improvements made to these machines. The shortened service times result in gains in productivity. The R 924 and R 926 definitively increase your return on investment.





Clean and effective Liebherr engine

- New engine complies with requirements of Tier 4i regulations on exhaust gas emissions
- Especially designed for construction machines' applications
- Liebherr's common rail injection system with three times less load loss than a conventional Common Rail system
- Automatic idling system optimises energy efficiency
- Two-stage supercharger with intercooler for more power at low revs



Performance

The new R 924 and R 926 crawler excavators are high-performance machines which balance power, accuracy and efficiency in the most effective way. Furthermore, cutting-edge hydraulics allow full flexibility and precision movements even on the most demanding applications.

Liebherr integrated systems engineering

High-tech for high performance

R 924 and R 926 excavators are fitted with Liebherr's Positive Control hydraulic system. This system is controlled by Liebherr electronics and uses strategically-positioned sensors. All of the machine's work is therefore faster, more accurate and fluid. What's more, as the two hydraulic pump circuits can operate either separately or in unison, this optimises the energy management of the R 924 and R 926.

R 924: The Liebherr Tool-control System

The Tool-Control function makes it easy to change tools thanks to recognition of the chosen tool's system. It makes the programmed pressure and flow values available from the moment the hydraulic tool is changed. Consequently, the crawler excavator has more availability for productive tasks, and adjustment times are reduced.

Robust equipment

R 924 and R926 are excavators adapted to all types of works. The wide range of Liebherr tools and equipments available helps meet these needs. The different sticks offered can, for example, be associated with a straight mono boom or a mono boom. A hydraulic quick-change attachment or Liebherr's Likufix system are offered as options. These elements allow fast and easy tool-changing.

A full-force excavator

The optimal kinematics of the equipment allow the R 924 to reach a break out force of 40,016 lbf and a penetration force of 29,675 lbf whereas the R 926 can face the most difficult situations with its 43,163 lbf breakout forces and 33,946 lbf penetration forces.

Wide range of Liebherr tools and equipments

- Backhoe buckets, 2 x 50° tilt buckets, 2 x 50° fixed and tilt ditch-cleaning buckets
- Wide range of clamshells and sorting grapples
- 2 x 50° tiltrotator
- Patented tooth system, suitable for a variety of applications



Intelligent work modes

- Economy Mode: for economical and ecologically-friendly operations; recommended for normal working conditions
- Power Mode: for high excavation capacities and difficult applications
- Sensitivity Mode: for precision jobs and the loading of materials
- Full Power Mode: especially designed for increased power; ideal for extreme applications



Spare Parts

- Extensive USA spare parts inventory located at Liebherr's Newport News, Virginia headquarters
- Parts support is supplemented by the western USA warehouse
- 24 / 7 parts support with a dedicated after hours support number



Reliability

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A concept of stress-resistant equipment

Better stresses distribution

R 924 and R 926 crawler excavators are a product designed to withstand major stresses. Molded steel parts strengthen the excavator at strategic points for difficult applications.

ROPS Structure

The cab is fitted with a roll-over protection system, which allows the operator to work in the safest possible environment.

A robust undercarriage

The strength of the undercarriage lengthens the service life of the machine. Liebherr-France SAS selects high quality materials to build the undercarriage and can meet the needs of all its customers. Furthermore, the larger openings between the track carriers and the central part of the undercarriage do make them easier to maintain, as do the steps on the vertical side of the track carriers.

Quality process

Liebherr-France SAS is ISO 9001 certified. The quality process begins with the design of the product and ends with its manufacture. This leads, as an example, to the selection of the best materials on the market. Then several inspections are regularly carried out during the manufacturing process to fulfill this quality objective.



LiDAT fleet management system

- A single point of contact for full fleet management
- Daily reports on the fleet of machines via the internet portal
- Accurate localisation of the machines
- Optimised security thanks to the geographical limitations and the determined shut off times
- An updated transmission several times a day



Integration of Liebherr components

- A perfect harmonisation of the machine's elements for worksite applications
- The main mechanically-welded structures, such as the undercarriage, attachment and uppercarriage are designed by Liebherr
- Engine, hydraulic pumps, transfer gearbox, transmission, rotating mechanism, crown wheel and electronic components are manufactured by Liebherr



Spacious and comfortable operator's cab

- Several storage spaces behind the seat, with optional chillers for keeping drinks cool at all times
- Fully retractable windscreen, stowable under the roof
- Fully automatic air-conditioning with fast de-icing and defogging functions
- 12 V plug for operating the optional chiller, and all other types of appliances



Comfort

One of the advantages of the R 924 and R 926 is a space especially created to satisfy the operator's needs. The cab offers a spacious, comfortable and quiet environment. This aspect of well-being enhances the operator's performance.

A spacious and comfortable work space

A first class work space

In this cab, operators have a pneumatic seat, an enlarged space and an environment with all modern comforts. Depending on the operator's needs, the Liebherr Premium seat can be chosen as an option. This seat offers maximum seating comfort thanks to its pneumatic lumbar support, its electronic weight-actuated height adjuster and its air-conditioning with activated charcoal and built-in fan. It is especially designed for the operators' well-being.

Ergonomic controls for optimal manipulation

All the controls are positioned so that the operator can intuitively and accurately manipulate them. The consoles, on which the controls and manipulators are positioned, are adjoined to the seat for optimal working comfort and for more accurate movements.

A panoramic view of the whole work area

A rear-space camera is fitted in the counter weight. A display on the 7" high resolution screen allows the operator to work in a secure area. This complete visibility gives the operator full confidence in the tasks he performs.

Sound level and vibrations reduced to a minimum

To increase work comfort and productivity, the acoustic power inside the operator's cab is only 69 dB. The cab is mounted on viscoelastic rivets that ensure that the vibrations are fully absorbed. The rubber flanges that support the pipes also actively participate in reducing external noise.



7" color touchscreen

- Several adjustment, control and monitoring possibilities (Display of fuel consumption, air-conditioning, tool control, etc.)
- Robust and reliable design (IP 65 ingress protection)
- High resolution video compatibility for displaying rear-space camera images



Ergonomic proportional manipulators

- The proportional control allows a very fine manoeuvrability for a sensitive, accurate and more fluid operation of hydraulic tools
- The sensitive manipulator with proximity switch allows greater responsiveness while resuming rpm



Investment in the future

- Liebherr crawler excavators are noted for a very stable value
- Liebherr crawler excavators assure a high re-sale value due to state-of-the-art technology and longevity





Economy

Maintenance is faster and more effective thanks to the improvements made to these machines. The shortened service times result in gains in productivity. The R924 and R 926 definitively increase your return on investment.

Fast and effective maintenance for higher profitability

Easier maintenance

All the maintenance points were designed for easier access and to make the daily maintenance operations shorter. The gull-wing covers provide access to the parts from ground level. The maintenance of most components, such as fuel filters and radiators, is performed in complete safety. Thus, the machines' maintenance will save you time and increase productivity on your work sites thanks to maintenance points regrouped in very distinct compartments.

An automatic centralised lubrication system as standard

The fully automated lubrication system is a true time-saver for the operator, with minimum machine downtime.

More effective energy management at all times

The engineering of Liebherr's integrated systems and the effective management of the engine and hydraulics are constantly controlling fuel consumption. The new diesel engine, automatic idling, electronic engine speed sensing regulation and regeneration are just some of the elements that contribute to better energy management. This consumption control minimises the discharge of toxic gases into the atmosphere whilst saving on operating costs.

Short cycle time

- High speed travel until 3.8 mph for a better reactivity on the working area
- High swing torque to improve your productivity
- High break out and penetration forces for efficient excavation



Particle filters designed and manufactured by Liebherr

- At least 99% elimination of exhaust gas particle emissions (VERT certification)
- Active regeneration of the particle filter, causing no inconvenience to the operator whilst optimising the machine's performance
- Easily accessible filter unit for maintenance interventions

Experience the progress

R 924 / R 926

Robust equipment

- Mono boom or straight boom: a solution for every application
- Extremely resistant against stresses for a longer service life

A multi-purpose tool carrier

- Wide range of special Liebherr tools and buckets
- Liebherr's patented tooth system
- Liebherr systems such as quick-change, Likufix, etc.

Work in complete safety

- Unobstructed visibility, integrated backup camera, and rear view mirrors fitted in strategic places as standard
- Intelligent layout of controls and clear information in the operator's workstation
- Secure access to the uppercarriage and operator's cab
- ROPS certified structure

A first class operator's workstation

- Modern and spacious workspace
- Pneumatic seat with all modern comforts
- Fewer vibrations and less noise
- 7" high resolution touchscreen

A new Liebherr engine

- Engine complies with Tier 4i emission regulations
- Especially designed for construction machines' applications
- Automatic idling system to optimise energy efficiency

A completely new maintenance concept

- Components within easy reach, accessible from ground level
- The filters are grouped together, for shorter maintenance works
- Automatic centralised lubrication as standard

A reliable undercarriage

- Reliable and robust undercarriage, easy to secure thanks to fitted securing rings
- Easy maintenance and cleaning inherent to the very design of the undercarriage



Technical Data

R 924



Engine

Rating per SAE J1349	161 HP (120 kW) at 1,800 rpm
Rating per ISO 9249	163 HP (120 kW) at 1,800 rpm
Model	Liebherr D 934 A7
Type	4 cylinder in-line
Bore/Stroke	4.8/5.9 in
Displacement	388 in ³
Engine operation	4-stroke diesel
Exhaust gas treatment	Common-Rail, bi-turbo particle filter with active regeneration emission standard Tier 4i
Cooling	water-cooled and integrated motor oil cooler, after-cooled and fuel cooled
Air cleaner	dry-type air cleaner with pre-cleaner, primary and safety elements
Fuel tank	117 gal
Electrical system	
Voltage	24 V
Batteries	2 x 180 Ah/12 V
Starter	24 V/7.8 kW
Alternator	three phase current 28 V/100 A
Engine idling	sensor-controlled
Motor management	connection to the integrated excavator system controlling via CAN-BUS to the economical utili- zation of the service that is available



Hydraulic System

Hydraulic system	Positive Control. Dual circuit hydraulic system for independent and need-based quantity allotment via the hydraulic pumps; sensor-guided. Features high system dynamics and sensibility provided by integrated system controlling
Hydraulic pump	Liebherr variable displacement pump built in transversal plate style, in parallel arrangement with integrated transfer box
Max. flow	2 x 57 gpm
Max. pressure	5,511 psi
Pump management	electronic pump management via the integrated system controlling (CAN-BUS) synchronous to the control block
Hydraulic tank	76 gal
Hydraulic system	max. 95 gal
Hydraulic oil filter	1 full flow filter (10 µm)
Hydraulic oil cooler	compact cooler, consisting of a water cooler, sandwiched with hydraulic oil cooler, gearbox oil cooler, fuel cooler and after-cooler cores and hydrostatically driven fan
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 per- formance and heavy-duty jobs
RPM adjustment	stepless adjustment of engine output via RPM at each selected mode
Tool Control	10 preadjustable pump flows and pressures for add-on tools



Hydraulic Controls

The controlling is conducted via the integrated excavator system technology, input and output modules, communicated via the CAN-BUS with the electronic central unit.

Power distribution	via control valve with integrated safety valves
Servo circuit	
Attachment and swing	proportional via joystick levers
Travel	- with proportionally functioning foot pedals and adjusted with a plugable lever - speed pre-selection
Additional functions	proportional regulation via slide switches or foot pedals



Swing Drive

Drive by	Liebherr swash plate motor, shockless and anti- reaction
Transmission	Liebherr compact planetary reduction gear
Swing ring	Liebherr, sealed single race ball bearing swing ring, internal teeth
Swing speed	0 - 11 rpm stepless
Swing torque	52,441 lbf ft
Holding brake	wet multi-disc (spring applied, pressure released)



Operator's Cab

Cab	ROPS safety cab structure with individual wind- screens or featuring a slide-in subpart under the ceiling, work headlights integrated in the ceiling, a door with a side window (can be opened on both sides), large stowing and depositing possi- bilities, shock-absorbing suspension, sound- damping insulating, tinted laminated safety glass, separate window shades for the sunroof window and windscreen, 12 V plug, storage bins, lunch- box, cup holder
Operator's seat	Comfort seat, airsprung with automatic weight adjustment, vertical and horizontal seat damping including consoles and joysticks. Seat and arm- rests adjustable separately and in combination, seat heating as standard
Control system	arm consoles, swinging with the seat
Operation and displays	large high resolution color display with self- explanatory operation via touch screen, video, versatile adjusting, control and monitoring facili- ties, e.g. climate control, implement and tool parameters
Air-conditioning	standard automatic air-conditioning, ambient air function, fast de-icing and demisting at the press of a button, air vents can be operated via a menu; ambient air and fresh air filters can be easily replaced and are accessible from the outside; heating-cooling unit, designed for extreme out- side temperatures, sensors for solar radiation, inside and outside temperatures
Noise emission	
ISO 6396	L_{BA} (inside cab) = 72 dB(A)
2000/14/EC	L_{WA} (surround noise) = 102 dB(A)



Undercarriage

LC	standard gauge 7'10"
Drive	Liebherr swash plate motors with integrated brake valves on both sides
Transmission	Liebherr planetary reduction gears
Travel speed	low range - 2.3 mph high range - 3.8 mph
Net drawbar pull on crawler	44,737 lbf
Track components	B 60, maintenance-free
Track rollers/Carrier rollers	8/2
Tracks	sealed and greased
Track pads	triple-grouser
Digging locks	wet multi-discs (spring applied, pressure released)
Brake valves	integrated into travel motor
Lashing eyes	integrated

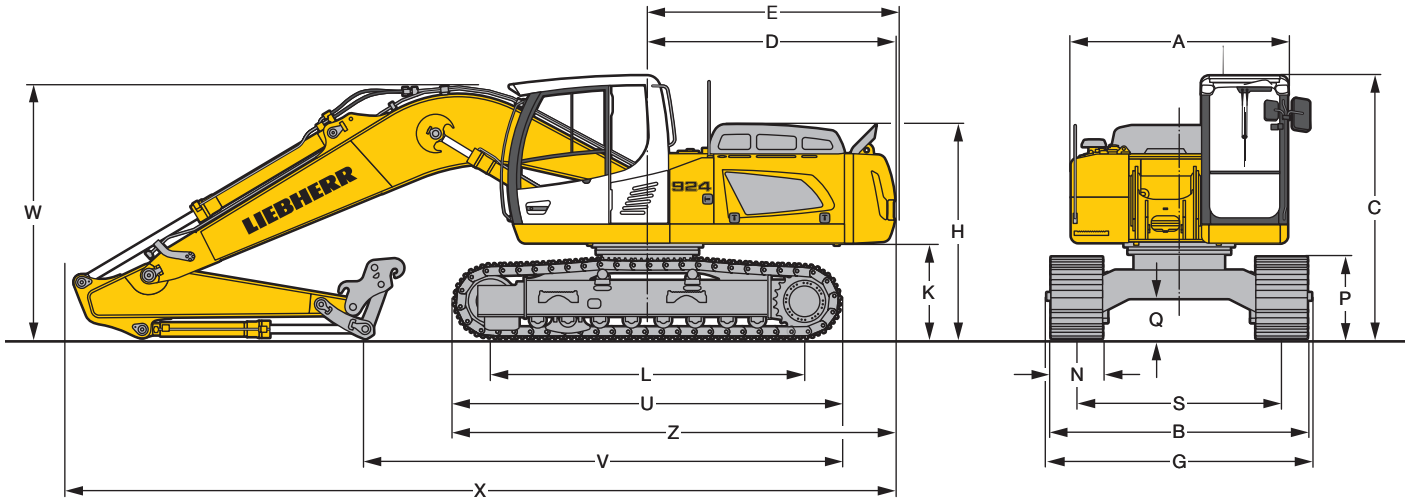


Attachment

Type	combination of resistant steel plates and cast steel components
Hydraulic cylinders	Liebherr cylinders with special seal-system, shock protection
Pivots	sealed, low maintenance
Lubrication	automatic central lubrication system (except link and tilt geometry)
Hydraulic connections	pipes and hoses equipped with SAE splitflange connections
Bucket	fitted as standard with Liebherr tooth system

Dimensions

R 924



	ft in			
A	8' 4"			
C	10'			
D	9' 5"			
E	9' 6"			
H	8' 2"			
K	3' 8"			
L	12'			
P	3' 1"			
Q	1' 6"			
S	7'10"			
U	14' 9"			
Z	16'10"			
N	20"	24"	30"	35"
B	9' 5"	9' 9"	10' 3"	10' 9"
G	9' 7"	9' 7"	10' 3"*	10' 7"*

Mono Boom 18'8"					
Stick length	ft in	7'10"	8'10"	9'10"	12' 2"
V	ft in	18' 3"	17' 5"	16' 5"	13'11"
W	ft in	9' 8"	9'10"	10'	9'10"
X	ft in	31' 8"	31' 8"	31'10"	31' 8"

Straight Mono Boom 19'8"					
Stick length	ft in	7'10"	8'10"	9'10"	12' 2"
V	ft in	20'	19' 4"	18' 6"	16' 7"
W	ft in	9' 4"	9' 8"	10'	10' 8"
X	ft in	32'10"	32'10"	32'10"	32'10"

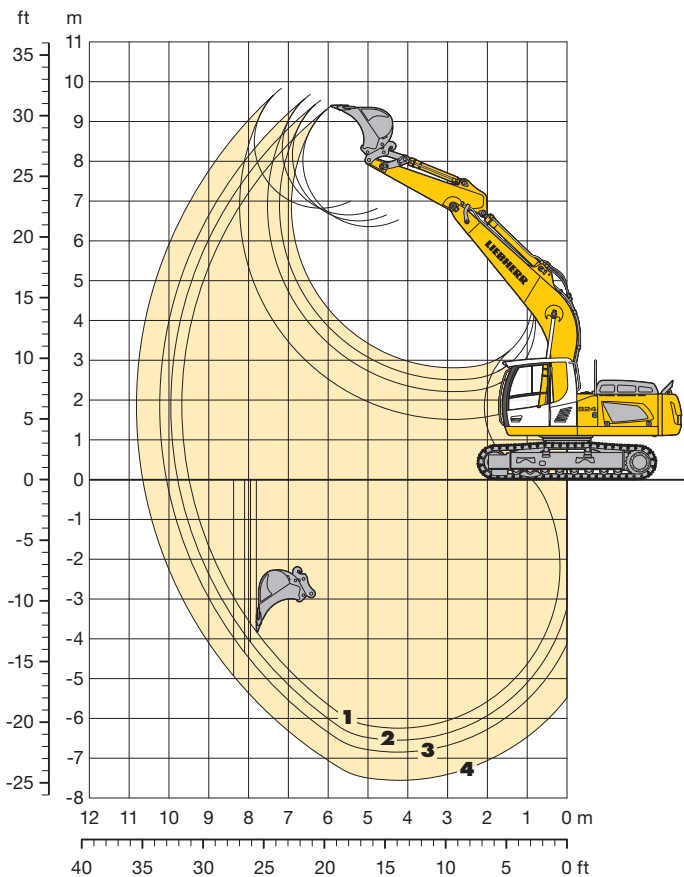
E = Tail radius

* = Width with removable steps

Backhoe Bucket

with Mono Boom 18'8" and Heavy Counterweight

R 924



Digging Envelope with Quick Coupler

		1	2	3	4
Stick length	ft in	7'10"	8'10"	9'10"	12' 2"
Max. digging depth	ft in	20' 6"	21' 6"	22' 6"	24' 9"
Max. reach at ground level	ft in	31' 2"	32' 2"	33'	34'11"
Max. dump height	ft in	20'10"	21' 4"	21'10"	22' 4"
Max. teeth height	ft in	30'10"	31' 4"	31'10"	32' 2"

Digging Forces without Quick Coupler

		1	2	3	4
Digging force ISO	lbf	29,675	27,202	25,180	21,582
	lb	29,762	27,117	25,133	21,605
Breakout force ISO	lbf	40,016	40,016	40,016	40,016
	lb	39,904	39,904	39,904	39,904

with Quick Coupler

Digging force ISO	lbf	28,101	25,853	24,055	20,682
	lb	27,999	25,794	24,030	20,723
Breakout force ISO	lbf	34,396	34,396	34,396	34,396
	lb	34,392	34,392	34,392	34,392

Operating Weight and Ground Pressure

Operating weight includes basic machine with heavy counterweight, mono boom 18'8", stick 7'10", quick coupler 48 and bucket 1.24 yd³.

Undercarriage		LC			
Pad width	in	20"	24"	30"	35"
Weight	lb	54,345	54,895	56,220	57,210
Ground pressure	psi	8.8	7.4	6.1	5.3

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

Cutting width in	Capacity ISO 7451 yd ³	Weight lb	LC-Undercarriage			
			Stick length (ft in)			
			7'10"	8'10"	9'10"	12'2"
41" ¹⁾	1.24	1,543	□	□	□	□
49" ¹⁾	1.50	1,720	□	□	□	△
55" ¹⁾	1.77	1,896	□	□	△	■
59" ¹⁾	1.90	1,984	□	△	△	■
63" ¹⁾	2.03	2,072	△	△	■	▲
59" ¹⁾	2.16	2,249	△	■	■	▲
41" ²⁾	1.24	1,565	□	□	□	□
49" ²⁾	1.50	1,742	□	□	□	△
55" ²⁾	1.77	1,918	□	△	△	■
59" ²⁾	1.90	2,006	△	△	■	▲
63" ²⁾	2.03	2,094	△	■	■	▲
59" ²⁾	2.16	2,271	■	■	▲	▲

* Indicated loads are based on ISO 10567 max. stick length, lifted 360° on firm

1) Standard bucket for direct mounting with teeth Z 40

2) Standard bucket for mounting to quick coupler with teeth Z 40

Other backhoes available on request

Max. material weight □ = ≤ 3,034 lb/yd³, △ = ≤ 2,528 lb/yd³, ■ = ≤ 2,023 lb/yd³, ▲ = not authorized

Lift Capacities

with Mono Boom 18'8" and Heavy Counterweight

Stick 7'10"

ft	Under-carriage	5 ft		10 ft		15 ft		20 ft		25 ft		30 ft		ft in
		LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	
30	LC													
25	LC													7,9' 7,9' 18'11"
20	LC							12,0'	12,0'					7,5' 7,5' 22'11"
15	LC					15,3'	15,3'	13,0'	13,0'	9,0'	9,0'			7,5' 7,5' 25' 5"
10	LC			28,6'	28,6'	18,8'	19,1'	12,3'	14,7'	8,8'	12,6'			7,9' 7,9' 26' 8"
5	LC					17,4'	22,4'	11,6'	16,3'	8,5'	13,0'			7,6' 8,7' 26'11"
0	LC			19,0'	19,0'	16,7'	23,8'	11,2'	17,3'	8,2'	12,7'			7,7' 10,2' 26' 4"
- 5	LC	20,5'	20,5'	29,2'	29,2'	16,5'	23,2'	11,0'	17,1'					8,4' 13,0' 24' 6"
-10	LC	29,7'	29,7'	28,7'	28,7'	16,7'	20,7'	11,1'	15,3'					10,1' 13,8' 21' 6"
-15	LC			20,6'	20,6'	15,1'	15,1'							13,5' 13,5' 16' 6"
-20	LC													

Stick 8'10"

ft	Under-carriage	5 ft		10 ft		15 ft		20 ft		25 ft		30 ft		ft in
		LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	
30	LC													
25	LC							7,5'	7,5'					7,0' 7,0' 20' 2"
20	LC							11,3'	11,3'					6,6' 6,6' 24'
15	LC							12,4'	12,4'	9,1'	10,6'			6,6' 6,6' 26' 5"
10	LC			28,9'	28,9'	18,1'	18,1'	12,3'	14,1'	8,8'	12,1'			6,9' 6,9' 27' 7"
5	LC			15,7'	15,7'	17,5'	21,7'	11,6'	15,9'	8,4'	12,9'			7,1' 7,5' 27'11"
0	LC			19,5'	19,5'	16,7'	23,5'	11,1'	17,0'	8,1'	12,7'			7,2' 8,7' 27' 2"
- 5	LC	18,7'	18,7'	27,7'	27,7'	16,4'	23,4'	10,9'	17,1'	8,0'	12,5'			7,8' 10,8' 25' 7"
-10	LC	27,0'	27,0'	30,1'	30,1'	16,5'	21,3'	10,9'	15,7'					9,2' 13,2' 22' 8"
-15	LC			22,7'	22,7'	16,5'	16,5'							13,1' 13,2' 18'
-20	LC													

Stick 9'10"

ft	Under-carriage	5 ft		10 ft		15 ft		20 ft		25 ft		30 ft		ft in
		LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	
30	LC													
25	LC													6,2' 6,2' 21' 6"
20	LC									6,1'	6,1'			5,8' 5,8' 25' 1"
15	LC							11,7'	11,7'	9,1'	10,9'			5,8' 5,8' 27' 5"
10	LC			26,4'	26,4'	17,1'	17,1'	12,4'	13,5'	8,7'	11,7'			6,0' 6,0' 28' 7"
5	LC			19,4'	19,4'	17,6'	20,9'	11,6'	15,4'	8,4'	12,6'			6,5' 6,5' 28'10"
0	LC			20,0'	20,0'	16,6'	23,1'	11,0'	16,7'	8,0'	12,6'			6,8' 7,5' 28' 2"
- 5	LC	17,2'	17,2'	26,5'	26,5'	16,2'	23,3'	10,7'	17,0'	7,9'	12,4'			7,3' 9,1' 26' 7"
-10	LC	24,8'	24,8'	31,3'	31,3'	16,2'	21,7'	10,7'	16,0'					8,5' 12,6' 23'10"
-15	LC			24,6'	24,6'	16,7'	17,6'							11,6' 12,8' 19' 5"
-20	LC													

Stick 12'2"

ft	Under-carriage	5 ft		10 ft		15 ft		20 ft		25 ft		30 ft		ft in
		LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	
30	LC													
25	LC													4,6' 4,6' 24' 1"
20	LC									7,8'	7,8'			4,4' 4,4' 27' 5"
15	LC									9,2'	9,7'			4,4' 4,4' 29' 5"
10	LC					14,8'	14,8'	12,1'	12,1'	8,8'	10,7'	5,9'	5,9'	4,6' 4,6' 30' 6"
5	LC			31,4'	31,4'	18,1'	19,1'	11,8'	14,3'	8,4'	11,8'	6,3'	7,1'	4,9' 4,9' 30'10"
0	LC	10,0'	10,0'	22,5'	22,5'	16,8'	22,1'	11,1'	16,0'	8,0'	12,6'	6,1'	6,3'	5,6' 5,6' 30' 2"
- 5	LC	15,4'	15,4'	25,4'	25,4'	16,2'	23,3'	10,7'	16,8'	7,8'	12,3'			6,4' 6,7' 28' 8"
-10	LC	21,2'	21,2'	31,1'	31,8'	16,0'	22,6'	10,5'	16,5'	7,7'	12,2'			7,2' 8,9' 26' 2"
-15	LC	27,8'	27,8'	28,6'	28,6'	16,2'	19,7'	10,7'	14,3'					9,2' 12,2' 22' 4"
-20	LC			19,1'	19,1'	13,2'	13,2'							12,2' 12,2' 15'11"

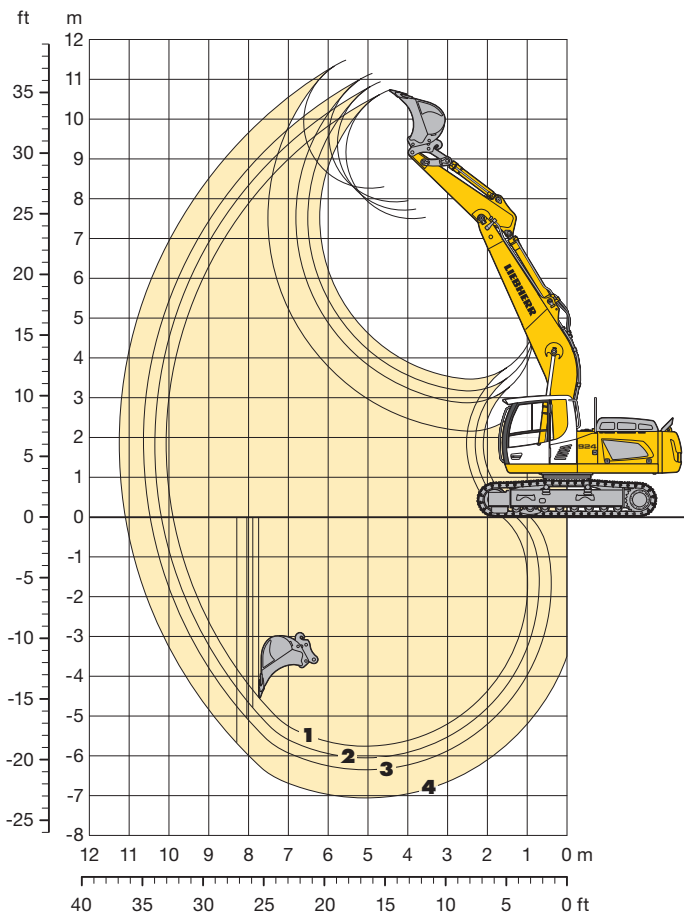
Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach * Limited by hydr. capacity

The lift capacities on the load hook of the Liebherr quick coupler 48 without attachment are stated in lb x 1,000, and can be lifted 360° on firm, level supporting surface. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 30" 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 by *) or are limited through the allowed lift capacity of the load hook on the quick coupler (26,455 lb). Without quick coupler the lift capacities will increase by 550 lb, without bucket cylinder, link and lever they increase by an additional 805 lb.

Backhoe Bucket

with Straight Mono Boom 19'8" and Heavy Counterweight

R 924



Digging Envelope with Quick Coupler

		1	2	3	4
Stick length	ft in	7'10"	8'10"	9'10"	12'2"
Max. digging depth	ft in	18'10"	19'10"	20'10"	23'2"
Max. reach at ground level	ft in	32' 6"	33' 6"	34' 3"	36'5"
Max. dump height	ft in	24' 7"	25' 3"	25'11"	27'1"
Max. teeth height	ft in	35' 1"	35'11"	37' 9"	37'9"

Digging Forces without Quick Coupler

		1	2	3	4
Digging force ISO	lbf	29,675	27,202	25,180	21,582
	lb	29,762	27,117	25,133	21,605
Breakout force ISO	lbf	40,016	40,016	40,016	40,016
	lb	39,904	39,904	39,904	39,904

with Quick Coupler

Digging force ISO	lbf	28,101	25,853	24,055	20,682
	lb	27,999	25,794	24,030	20,723
Breakout force ISO	lbf	34,396	34,396	34,396	34,396
	lb	34,392	34,392	34,392	34,392

Operating Weight and Ground Pressure

Operating weight includes basic machine with heavy counterweight, straight mono boom 19'8", stick 7'10", quick coupler 48 and bucket 1.24 yd³.

Undercarriage	LC				
Pad width	in	20"	24"	30"	35"
Weight	lb	54,455	55,005	56,330	57,320
Ground pressure	psi	8.8	7.4	6.1	5.3

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

Cutting width in	Capacity ISO 7451 yd ³	Weight lb	LC-Undercarriage			
			Stick length (ft in)			
			7'10"	8'10"	9'10"	12'2"
41" ¹⁾	1.24	1,543	□	□	□	□
49" ¹⁾	1.50	1,720	□	□	□	△
55" ¹⁾	1.77	1,896	△	△	△	■
59" ¹⁾	1.90	1,984	△	■	■	▲
63" ¹⁾	2.03	2,072	■	■	■	▲
59" ¹⁾	2.16	2,249	■	▲	▲	▲
41" ²⁾	1.24	1,565	□	□	□	△
49" ²⁾	1.50	1,742	□	△	△	■
55" ²⁾	1.77	1,918	△	■	■	▲
59" ²⁾	1.90	2,006	■	■	■	▲
63" ²⁾	2.03	2,094	■	■	▲	▲
59" ²⁾	2.16	2,271	■	▲	▲	▲

* Indicated loads are based on ISO 10567 max. stick length, lifted 360° on firm

1) Standard bucket for direct mounting with teeth Z 40

2) Standard bucket for mounting to quick coupler with teeth Z 40

Other backhoes available on request

Max. material weight □ = ≤ 3,034 lb/yd³, △ = ≤ 2,528 lb/yd³, ■ = ≤ 2,023 lb/yd³, ▲ = not authorized

Lift Capacities

with Straight Mono Boom 19'8" and Heavy Counterweight

R 924

Stick 7'10"

ft	Under-carriage	5 ft		10 ft		15 ft		20 ft		25 ft		30 ft		ft in	
30	LC														
25	LC							10,4*	10,4*					8,0*	8,0* 20'11"
20	LC							13,2	13,6*					7,5*	7,5* 24' 7"
15	LC			25,9*	25,9*	18,1*	18,1*	12,7	14,6*	8,9	12,6*			7,5*	7,5* 28'11"
10	LC					18,2	21,3*	12,0	15,9*	8,6	13,1*			7,1	7,7* 28' 1"
5	LC					16,9	23,5*	11,3	17,0*	8,2	12,8			6,9	8,4* 28' 5"
0	LC			12,7*	12,7*	16,3	23,4*	10,9	17,2*	8,0	12,5			7,0	9,5* 27' 8"
- 5	LC			23,7*	23,7*	16,2	21,3*	10,7	16,1*	8,0	12,2*			7,5	11,3* 28' 1"
-10	LC			21,6*	21,6*	16,4	17,6*	10,9	13,4*					8,9	10,5* 23' 4"
-15	LC														
-20	LC														

Stick 8'10"

ft	Under-carriage	5 ft		10 ft		15 ft		20 ft		25 ft		30 ft		ft in		
30	LC													8,2*	8,2* 16' 5"	
25	LC								11,2*	11,2*				7,0*	7,0* 22' 2"	
20	LC								13,0*	13,0*	8,7*	8,7*		6,6*	6,6* 25' 8"	
15	LC							17,2*	17,2*	12,7	14,0*	8,9	12,2*		6,5*	6,5* 27'11"
10	LC							18,4	20,6*	12,0	15,5*	8,6	12,8*		6,7	6,8* 29' 1"
5	LC							16,9	23,1*	11,3	16,7*	8,2	12,7		6,5	7,2* 29' 4"
0	LC			13,8*	13,8*	16,2	23,4*	10,8	17,1*	7,9	12,4			6,5	8,1* 28' 8"	
- 5	LC			22,5*	22,5*	16,0	21,8*	10,6	16,3*	7,8	12,3			7,0	9,7* 27' 1"	
-10	LC			23,6*	23,6*	16,2	18,4*	10,7	13,9*					8,2	10,2* 24' 5"	
-15	LC					12,5*	12,5*	8,6*	8,6*					8,4*	8,4* 20' 2"	
-20	LC															

Stick 9'10"

ft	Under-carriage	5 ft		10 ft		15 ft		20 ft		25 ft		30 ft		ft in	
30	LC													7,2*	7,2* 18' 1"
25	LC								11,2*	11,2*				6,2*	6,2* 23' 5"
20	LC								12,4*	12,4*	9,1	9,7*		5,8*	5,8* 28'10"
15	LC					16,4*	16,4*	12,8	13,5*	8,9	11,8*			5,8*	5,8* 28'11"
10	LC			31,6*	31,6*	18,5	19,7*	12,0	15,0*	8,5	12,4*	6,0*	6,0*	5,9*	5,9* 30'
5	LC					17,0	22,5*	11,3	16,4*	8,1	12,7	6,2	7,5*	6,1	6,3* 30' 4"
0	LC			14,5*	14,5*	16,1	23,3*	10,7	17,0*	7,8	12,4			6,1	7,0* 29' 8"
- 5	LC			21,5*	21,5*	15,8	22,1*	10,5	16,4*	7,7	12,2			6,6	8,3* 28' 2"
-10	LC			25,3*	25,3*	16,0	19,1*	10,5	14,4*	7,8	10,4*			7,6	9,9* 25' 7"
-15	LC					13,8*	13,8*	10,0*	10,0*					8,5*	8,5* 21' 6"
-20	LC														

Stick 12'2"

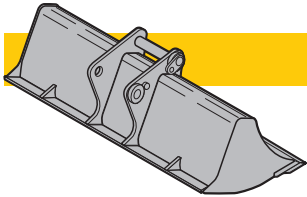
ft	Under-carriage	5 ft		10 ft		15 ft		20 ft		25 ft		30 ft		ft in		
30	LC								7,1*	7,1*				5,2*	5,2* 21' 5"	
25	LC										6,3*	6,3*		4,6*	4,6* 26'	
20	LC								10,8*	10,8*	9,3	9,3*		4,4*	4,4* 29' 1"	
15	LC							12,2*	12,2*	9,0	10,9*	6,6	6,6*	4,4*	4,4* 31'	
10	LC			26,8*	26,8*	17,8*	17,8*	12,3	13,9*	8,6	11,7*	6,4	8,8*	4,5*	4,5* 32' 1"	
5	LC			20,1*	20,1*	17,5	21,2*	11,4	15,6*	8,2	12,5*	6,1	9,6	4,8*	4,8* 32' 4"	
0	LC			16,7*	16,7*	16,3	23,0*	10,8	16,6*	7,8	12,3	5,9	9,4	5,3*	5,3* 31'10"	
- 5	LC			12,8*	12,8*	20,6*	20,6*	15,7	22,7*	10,4	16,6*	7,6	12,1	5,8	7,6*	6,2* 30' 5"
-10	LC			18,6*	18,6*	27,2*	27,2*	15,7	20,7*	10,3	15,3*	7,5	11,6*		6,5	7,7* 28'
-15	LC					22,2*	22,2*	16,0	16,5*	10,5	12,3*			8,0	8,7* 24' 5"	
-20	LC															

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 coupler 48 without attachment are stated in lb x 1,000 and can be lifted 360° on firm, level supporting surface. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 30" 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 by *) or are limited through the allowed lift capacity of the load hook on the quick coupler (26,455 lb). Without quick coupler the lift capacities will increase by 550 lb, without bucket cylinder, link and lever they increase by an additional 805 lb.

Available Tools

R 924



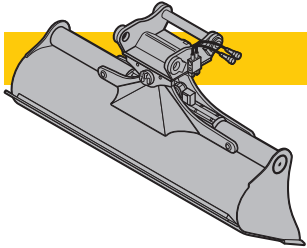
Rigid Ditchcleaning Bucket

GRL 90, for direct mounting

Cutting width	in	59"	79"	79"	79"	94"
Capacity	yd ³	0.65	0.59	0.92	1.11	1.11
Weight	lb	882	915	1,116	1,164	1,292

GRL 90, for mounting to quick coupler 48

Cutting width	in	59"	79"	79"	79"	94"	94"
Capacity	yd ³	0.65	0.92	1.57	1.63	1.11	1.50
Weight	lb	937	1,151	1,404	1,321	1,486	1,424



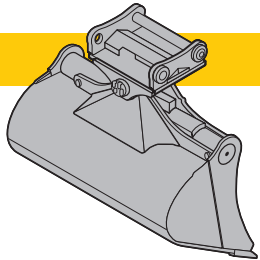
Ditchcleaning Bucket

GRL 90, 2 x 50° tiltable, for direct mounting

Cutting width	in	63"	79"	79"	79"	87"	94"	110"
Capacity	yd ³	1.05	0.65	0.92	1.31	1.50	1.11	1.90
Weight	lb	1,759	1,512	1,806	1,947	2,028	1,951	2,224

GRL 90, 2 x 50° tiltable, for mounting to quick coupler 48

Cutting width	in	63"	79"	79"	79"	87"	87"	87"	94"	94"
Capacity	yd ³	1.05	0.65	0.92	1.31	1.05	1.50	1.83	1.11	1.63
Weight	lb	1,874	1,521	1,940	2,072	1,940	2,161	2,205	1,962	2,205



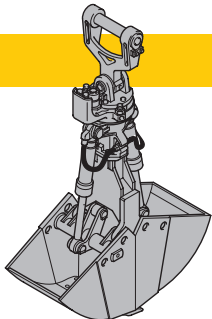
Tiltable Bucket

SL 90, 2 x 50° tiltable, for direct mounting

Cutting width	in	63"	63"	63"
Capacity	yd ³	1.05	1.31	1.77
Weight	lb	1,693	1,808	2,024

SL 90, 2 x 50° tiltable, for mounting to quick coupler 48

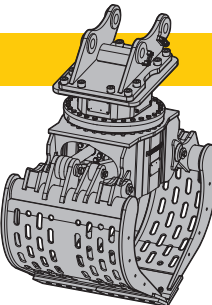
Cutting width	in	59"	63"	63"	63"	63"
Capacity	yd ³	1.57	1.05	1.31	1.77	2.03
Weight	lb	2,138	1,808	1,962	2,138	2,282
Weight in HD-version	lb	-	-	2,218	2,610	-



Clamshells

GM 10B, earthmoving shell, for mounting to quick coupler 48

Cutting width	in	13"	16"	18"	24"	31"	39"	35"
Capacity	yd ³	0.22	0.29	0.33	0.46	0.59	0.78	0.92
Weight	lb	1,753	1,841	1,863	1,951	2,072	2,194	2,694



Sorting Grapple

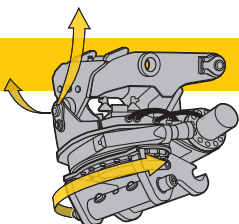
Ribbed Perforated Gravel tongs

SG 30, for direct mounting

Cutting width	in	39"	45"	39"	45"	40"
Capacity	yd ³	0.98	1.18	1.11	1.31	1.11
Weight	lb	3,329	3,505	3,285	3,461	3,891

SG 30, for mounting to quick coupler 48

Cutting width	in	39"	45"	39"	45"	40"
Capacity	yd ³	0.98	1.18	1.11	1.31	1.11
Weight	lb	3,329	3,505	3,285	3,461	3,891



Tiltrotator

LH-TR 25, for mounting to quick coupler 48

Weight	lb	1,587
Rotation		360°
Tilt		2 x 50°

Standard Equipment



Undercarriage

- Lashing eyelets
- Lifetime-lubricated track rollers
- Sprocket with dirt ejector
- Track guide at each track frame (three piece)
- Tracks sealed and greased



Uppercarriage

- Engine hood with lift help
- Handrails, non slip surfaces
- Heavy counterweight
- Liebherr full-automatic central lubrication system (except connecting link for bucket kinematics)
- Lockable tool box
- Maintenance-free swing brake lock
- Sound insulation



Hydraulics

- Filter with integrated fine filter area
- Hydraulic tank shut-off valve and pumps
- Pressure storage for controlled lowering of equipment with engine turned off
- Pressure test ports for hydraulic
- Stepless work mode selector



Engine

- After-cooled
- Common-Rail system injection
- Conform with Tier 4i emission standard
- Fuel filter and water separator
- Liebherr particle filter
- Sensor-controlled automatic engine idling
- Turbo charger



Operator's Cab

- 7" color multifunction display with touchscreen
- Automatic air conditioning
- Cigarette lighter and ashtray
- Coat hook
- Completely retractable windscreen
- Cup holder
- Dome light
- Door with sliding windows
- Emergency exit rear window
- Front windscreen (bottom) retractable
- Fuel consumption indicator
- Headlights (two pieces, Halogen)
- Hydro mounts
- LiDAT Plus (Liebherr data transfer system) *
- Mechanical hour meters, readable from outside the cab
- Operator seat Comfort
- Preparation for radio installation
- Rain hood over front window opening
- Rear space monitoring with camera
- Roll-down sun blind
- ROPS safety cab structure
- Rubber floor mat
- Seat belt
- Storage bin
- Storage space
- Sunroof, right window and windshield with safety glass
- Travel alarm system
- Windows, tinted all around
- Wiper/washer



Attachment

- Headlight on boom (right, Halogen)
- Overload warning device
- Safety check valves hoist cylinder
- Safety check valves stick cylinder

* optionally extendable after one year

Individual Options

R 924



Undercarriage

Reinforced cover plate and base plate for centre section
Straight track guide
Tool box



Uppercarriage

Customized colors
Extended tool kit
Fuel anti-theft device
Refuelling pump (electrical)
Reversible fan drive
Uppercarriage guard at bottom and sides



Hydraulics

Bypass filter



Engine

Air pre-filter with dust trap
Automatic engine shut-down (adjustable time-period)
Fuel pre-heating system



Operator's Cab

Additional headlights or/and rear headlights (Halogen or LED)
Amber beacon
Auxiliary heater with weekly timer
Electric cool box (12 V)
Electronic drive away lock
Engine shut-down (emergency stop) in cab
FGPS front guard
Fire extinguisher
Footrest
FOPS top guard
Headlights (two pieces, LED)
Impact-resistant front window
(one piece, fixed installation – can not be opened)
Impact-resistant front window
(two pieces, fixed installation – can not be opened)
Impact-resistant glass panel in roof
Operator seat Premium
Proportional controls Liebherr
Radio Comfort
Roof wiper
Sun visor



Attachment

Additional headlights on boom (left, Halogen or LED)
Bottom boom protection for stick
Headlight on boom (right, LED)
Headlights on boom (LED)
High pressure circuit
Hydraulic or mechanical quick coupler
Liebherr automatic lubrication system for link geometry
Liebherr line of buckets
Liebherr tooth system
LIKUFIX
Middle pressure circuit
Piston rod guard for bucket cylinders
Security for hoist cylinder in grab or hammer operation
Stick cylinder shut-down, adjustable
Straight mono boom
Tool Control

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.

Technical Data



Engine

Rating per SAE J1349	173 HP (129 kW) at 1,800 rpm
Rating per ISO 9249	175 HP (129 kW) at 1,800 rpm
Model	Liebherr D 934 A7
Type	4 cylinder in-line
Bore/Stroke	4.8/5.9 in
Displacement	388 in ³
Engine operation	4-stroke diesel
Exhaust gas treatment	Common-Rail, bi-turbo particle filter with active regeneration emission standard Tier 4i
Cooling	water-cooled and integrated motor oil cooler, after-cooled and fuel cooled
Air cleaner	dry-type air cleaner with pre-cleaner, primary and safety elements
Fuel tank	117 gal
Electrical system	
Voltage	24 V
Batteries	2 x 180 Ah/12 V
Starter	24 V/7.8 kW
Alternator	three phase current 28 V/100 A
Engine idling	sensor-controlled
Motor management	connection to the integrated excavator system controlling via CAN-BUS to the economical utili- zation of the service that is available



Hydraulic System

Hydraulic system	Positive Control. Dual circuit hydraulic system for independent and need-based quantity allotment via the hydraulic pumps; sensor-guided. Features high system dynamics and sensibility provided by integrated system controlling
Hydraulic pump	Liebherr variable displacement pump built in transversal plate style, in parallel arrangement with integrated transfer box
Max. flow	2 x 57 gpm
Max. pressure	5,511 psi
Pump management	electronic pump management via the integrated system controlling (CAN-BUS) synchronous to the control block
Hydraulic tank	76 gal
Hydraulic system	max. 95 gal
Hydraulic oil filter	1 full flow filter (10 µm)
Hydraulic oil cooler	compact cooler, consisting of a water cooler, sandwiched with hydraulic oil cooler, gearbox oil cooler, fuel cooler and after-cooler cores and hydrostatically driven fan
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 per- formance and heavy-duty jobs
RPM adjustment	stepless adjustment of engine output via RPM at each selected mode
Tool Control	10 preadjustable pump flows and pressures for add-on tools



Hydraulic Controls

The controlling is conducted via the integrated excavator system technology, input and output modules, communicated via the CAN-BUS with the electronic central unit.

Power distribution	via control valve with integrated safety valves
Servo circuit	
Attachment and swing	proportional via joystick levers
Travel	– with proportionally functioning foot pedals and adjusted with a plugable lever – speed pre-selection
Additional functions	proportional regulation via slide switches or foot pedals



Swing Drive

Drive by	Liebherr swash plate motor, shockless and anti- reaction
Transmission	Liebherr compact planetary reduction gear
Swing ring	Liebherr, sealed single race ball bearing swing ring, internal teeth
Swing speed	0 – 11 rpm stepless
Swing torque	58,297 lbf ft
Holding brake	wet multi-disc (spring applied, pressure released)



Operator's Cab

Cab	ROPS safety cab structure with individual wind- screens or featuring a slide-in subpart under the ceiling, work headlights integrated in the ceiling, a door with a side window (can be opened on both sides), large stowing and depositing possi- bilities, shock-absorbing suspension, sound- damping insulating, tinted laminated safety glass, separate window shades for the sunroof window and windscreens, 12 V plug, storage bins, lunch- box, cup holder
Operator's seat	Comfort seat, airsprung with automatic weight adjustment, vertical and horizontal seat damping including consoles and joysticks. Seat and arm- rests adjustable separately and in combination, seat heating as standard
Control system	arm consoles, swinging with the seat
Operation and displays	large high resolution color display with self- explanatory operation via touch screen, video, versatile adjusting, control and monitoring faci- lities, e.g. climate control, implement and tool parameters
Air-conditioning	standard automatic air-conditioning, ambient air function, fast de-icing and demisting at the press of a button, air vents can be operated via a menu; ambient air and fresh air filters can be easily replaced and are accessible from the outside; heating-cooling unit, designed for extreme out- side temperatures, sensors for solar radiation, inside and outside temperatures
Noise emission	
ISO 6396	L _{pA} (inside cab) = 72 dB(A)
2000/14/EC	L _{WA} (surround noise) = 103 dB(A)



Undercarriage

LC	standard gauge 7"10"
Drive	Liebherr swash plate motors with integrated brake valves on both sides
Transmission	Liebherr planetary reduction gears
Travel speed	low range – 2.3 mph high range – 3.8 mph
Net drawbar pull on crawler	50,807 lbf
Track components	B 60, maintenance-free
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
Lashing eyes	integrated

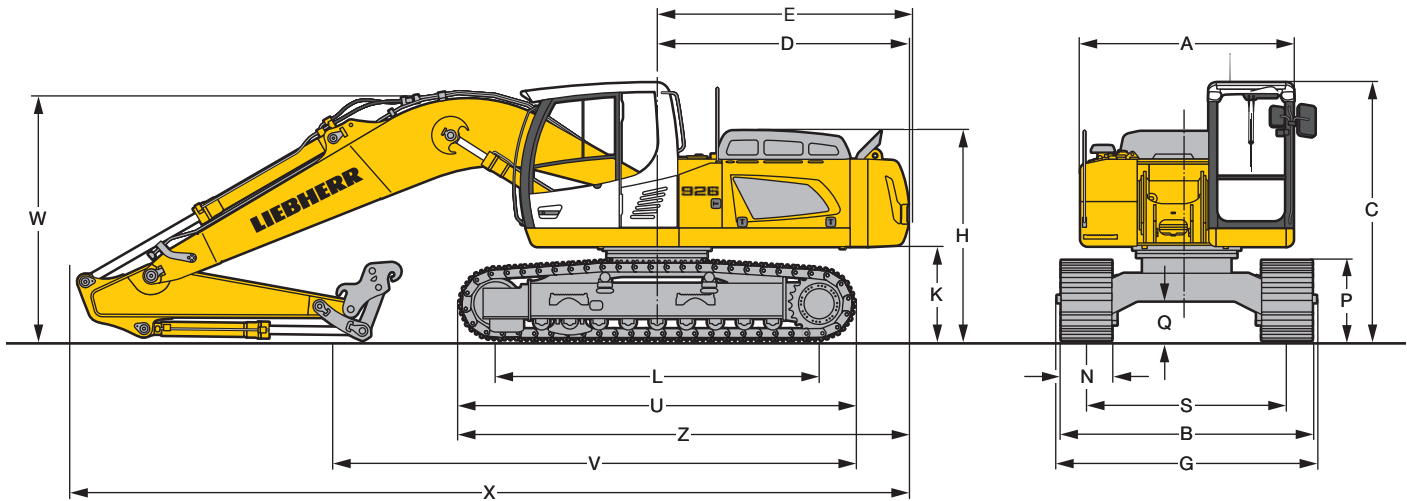


Attachment

Type	combination of resistant steel plates and cast steel components
Hydraulic cylinders	Liebherr cylinders with special seal-system, shock protection
Pivots	sealed, low maintenance
Lubrication	automatic central lubrication system (except link and tilt geometry)
Hydraulic connections	pipes and hoses equipped with SAE splitflange connections
Bucket	fitted as standard with Liebherr tooth system

Dimensions

R 926



	ft in			
A	8' 4"			
C	10'			
D	9' 9"			
E	9' 10"			
H	8' 2"			
K	3' 8"			
L	12' 7"			
P	3' 2"			
Q	1' 7"			
S	7' 10"			
U	15' 5"			
Z	17' 6"			
N	20"	24"	30"	35"
B	9' 5"	9' 9"	10' 3"	10' 9"
G	9' 7"	9' 7"	10' 3"*	10' 7"*

Mono Boom 19'4"					
Stick length	ft in	7'10"	8'10"	9'10"	12' 2"
V	ft in	19' 2"	18' 4"	17' 7"	15' 3"
W	ft in	9' 10"	10'	10' 2"	10'
X	ft in	32' 8"	32' 8"	32' 8"	32' 8"

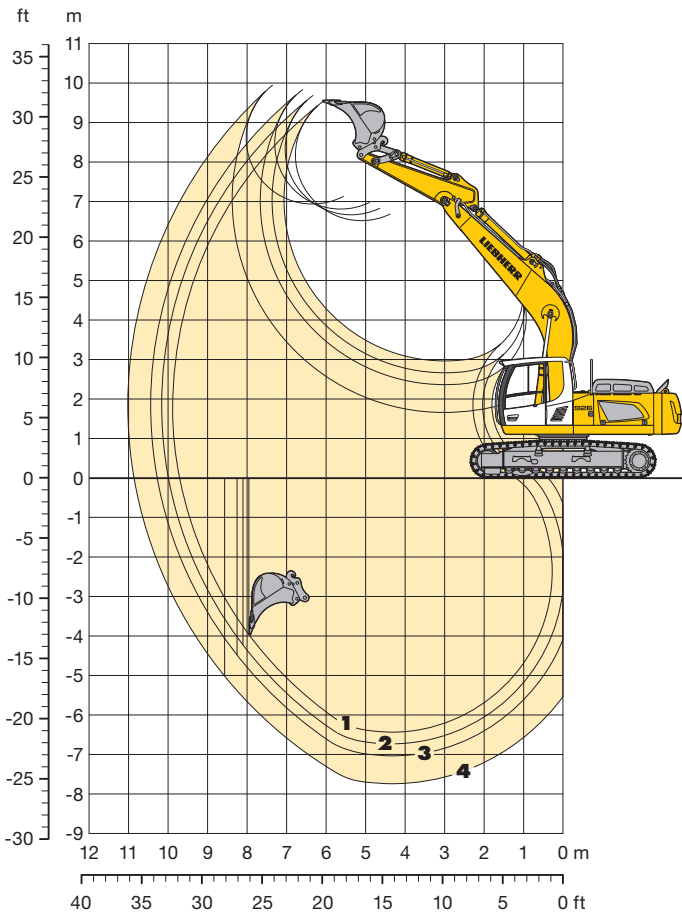
Straight Mono Boom 19'8"					
Stick length	ft in	7'10"	8'10"	9'10"	12' 2"
V	ft in	20' 4"	19' 8"	18' 10"	16' 11"
W	ft in	9' 4"	9' 8"	10'	10' 8"
X	ft in	33' 2"	33' 2"	33' 2"	33' 2"

E = Tail radius

* = Width with removable steps

Backhoe Bucket

with Mono Boom 19'4" and Heavy Counterweight



Digging Envelope with Quick Coupler

		1	2	3	4
Stick length	ft in	7'10"	8'10"	9'10"	12' 2"
Max. digging depth	ft in	21' 2"	22' 2"	23' 2"	25' 5"
Max. reach at ground level	ft in	31'10"	32'10"	33' 8"	35' 7"
Max. dump height	ft in	21' 4"	21'10"	22' 4"	22'10"
Max. teeth height	ft in	31' 4"	31'10"	32' 4"	32' 8"

Digging Forces without Quick Coupler

		1	2	3	4
Digging force ISO	lbf	33,946	31,248	29,000	24,729
	lb	33,731	31,085	28,881	24,692
Breakout force ISO	lbf	43,163	43,163	43,163	43,163
	lb	42,990	42,990	42,990	42,990

with Quick Coupler

Digging force ISO	lbf	32,148	29,675	27,652	23,830
	lb	31,967	29,542	27,558	23,810
Breakout force ISO	lbf	37,094	37,094	37,094	37,094
	lb	37,038	37,038	37,038	37,038

Operating Weight and Ground Pressure

Operating weight includes basic machine with heavy counterweight, mono boom 19'4", stick 8'10", quick coupler 48 and bucket 1.24 yd³.

Undercarriage	LC				
Pad width	in	20"	24"	30"	35"
Weight	lb	59,305	59,855	61,510	61,950
Ground pressure	psi	9.3	7.8	6.4	5.4

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

Cutting width in	Capacity ISO 7451 yd ³	Weight lb	LC-Undercarriage			
			Stick length (ft in)			
			7'10"	8'10"	9'10"	12'2"
49 ¹⁾	1.50	1,720	□	□	□	□
55 ¹⁾	1.77	1,896	□	□	□	△
59 ¹⁾	1.90	1,984	□	□	□	■
63 ¹⁾	2.03	2,072	□	□	△	■
59 ¹⁾	2.16	2,249	□	△	△	▲
63 ¹⁾	2.30	2,337	△	△	■	▲
49 ²⁾	1.50	1,742	□	□	□	△
55 ²⁾	1.77	1,918	□	□	□	■
59 ²⁾	1.90	2,006	□	□	△	■
63 ²⁾	2.03	2,094	□	△	△	■
59 ²⁾	2.16	2,271	△	△	■	▲
63 ²⁾	2.30	2,359	△	■	■	▲

* Indicated loads are based on ISO 10567 max. stick length, lifted 360° on firm

1) Standard bucket for direct mounting with teeth Z 40

2) Standard bucket for mounting to quick coupler with teeth Z 40

Other backhoes available on request

Max. material weight □ = ≤ 3,034 lb/yd³, △ = ≤ 2,528 lb/yd³, ■ = ≤ 2,023 lb/yd³, ▲ = not authorized

Lift Capacities

with Mono Boom 19'4" and Heavy Counterweight

R 926

Stick 7'10"

ft	Under-carriage	5 ft		10 ft		15 ft		20 ft		25 ft		30 ft		ft in
		LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC		
30	LC													8,6" 8,6" 19'10"
25	LC													7,6" 7,6" 21' 1"
20	LC							14,0"	14,0"					8,2" 8,2" 23' 8"
15	LC					18,3"	18,3"	14,8"	15,4"	10,5"	12,4"			8,3" 8,3" 26' 1"
10	LC					21,4"	23,0"	14,1"	17,5"	10,2"	14,9"			8,7" 8,7" 27' 4"
5	LC					19,9"	26,9"	13,4"	19,5"	9,8"	15,8"			8,5" 9,6" 27' 7"
0	LC			19,0"	19,0"	19,2"	28,5"	12,9"	20,7"	9,6"	15,5"			8,6" 11,2" 26'11"
- 5	LC			30,9"	30,9"	19,1"	27,8"	12,7"	20,6"	9,5"	15,4"			9,4" 14,1" 25' 2"
- 10	LC			34,4"	34,4"	19,2"	25,1"	12,8"	18,7"					11,1" 16,2" 22' 4"
- 15	LC			25,8"	25,8"	19,2"	19,2"							16,0" 16,1" 17' 6"
- 20	LC													

Stick 8'10"

ft	Under-carriage	5 ft		10 ft		15 ft		20 ft		25 ft		30 ft		ft in
		LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC		
30	LC													
25	LC													7,6" 7,6" 21' 1"
20	LC									13,3"	13,3"			7,2" 7,2" 24'10"
15	LC									14,7"	14,7"	10,5"	13,2"	7,2" 7,2" 27' 1"
10	LC					34,5"	34,5"	21,6"	21,9"	14,1"	16,9"	10,1"	14,4"	7,6" 7,6" 28' 4"
5	LC							20,0"	26,1"	13,4"	19,0"	9,8"	15,5"	8,1" 8,3" 28' 6"
0	LC					19,8"	19,8"	19,2"	28,2"	12,9"	20,4"	9,5"	15,4"	8,2" 9,5" 27'11"
- 5	LC			20,6"	20,6"	29,3"	29,3"	18,9"	27,9"	12,6"	20,6"	9,3"	15,3"	8,8" 11,8" 26' 4"
- 10	LC			29,7"	29,7"	36,0"	36,0"	19,0"	25,7"	12,7"	19,1"			10,3" 15,5" 23' 6"
- 15	LC					28,1"	28,1"	19,5"	20,6"					14,1" 15,7" 19'
- 20	LC													

Stick 9'10"

ft	Under-carriage	5 ft		10 ft		15 ft		20 ft		25 ft		30 ft		ft in
		LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC		
30	LC													
25	LC													6,7" 6,7" 22' 5"
20	LC									8,6"	8,6"			6,4" 6,4" 25'11"
15	LC							14,0"	14,0"	10,5"	12,9"			6,4" 6,4" 28'
10	LC			32,9"	32,9"	20,7"	20,7"	14,2"	16,2"	10,1"	13,9"			6,7" 6,7" 29' 2"
5	LC			17,5"	17,5"	20,1"	25,3"	13,4"	18,5"	9,7"	15,1"			7,2" 7,2" 29' 6"
0	LC			20,3"	20,3"	19,1"	27,8"	12,8"	20,1"	9,4"	15,3"			7,7" 8,2" 28'10"
- 5	LC			19,0"	19,0"	28,0"	28,0"	18,8"	28,0"	12,5"	20,5"	9,2"	15,1"	8,2" 10,0" 27' 4"
- 10	LC			27,3"	27,3"	36,4"	37,4"	18,8"	26,1"	12,5"	19,4"			9,5" 13,6" 24' 7"
- 15	LC			30,1"	30,1"	19,2"	21,7"	12,8"	15,6"					12,5" 15,2" 20' 4"
- 20	LC													

Stick 12'2"

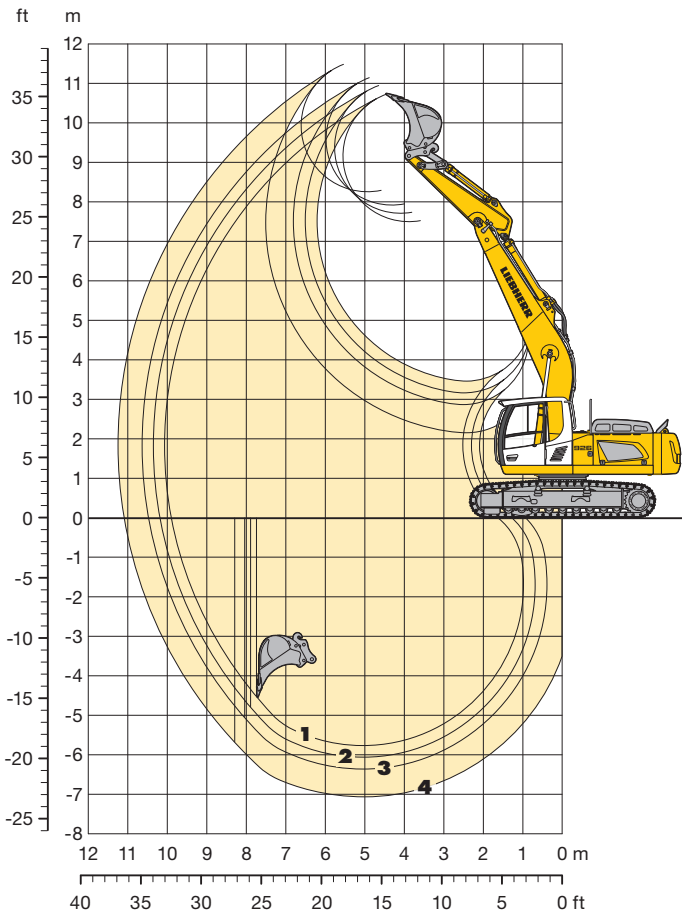
ft	Under-carriage	5 ft		10 ft		15 ft		20 ft		25 ft		30 ft		ft in
		LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC		
30	LC													
25	LC													5,1" 5,1" 24'11"
20	LC									9,3"	9,3"			4,9" 4,9" 28' 1"
15	LC									10,7"	11,6"	5,1"	5,1"	4,9" 4,9" 30' 1"
10	LC					18,0"	18,0"	14,5"	14,6"	10,2"	12,8"	7,6"	7,9"	5,1" 5,1" 31' 2"
5	LC					29,8"	29,8"	20,6"	23,1"	13,6"	17,2"	9,8"	14,2"	5,5" 5,5" 31' 5"
0	LC			10,8"	10,8"	22,9"	22,9"	19,3"	26,6"	12,9"	19,2"	9,4"	15,3"	6,2" 6,2" 30'10"
- 5	LC			17,0"	17,0"	26,8"	26,8"	18,7"	27,9"	12,4"	20,3"	9,1"	15,0"	7,3" 7,4" 29' 5"
- 10	LC			23,4"	23,4"	34,0"	34,0"	18,6"	27,1"	12,3"	19,9"	9,0"	15,0"	8,2" 9,7" 26'11"
- 15	LC			30,6"	30,6"	34,6"	34,6"	18,8"	24,1"	12,4"	17,7"			10,2" 14,5" 23' 1"
- 20	LC			24,5"	24,5"	17,3"	17,3"							14,8" 14,8" 17' 1"

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 coupler 48 without attachment are stated in lb x 1,000, and can be lifted 360° on firm, level supporting surface. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 30" 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 by *) or are limited through the allowed lift capacity of the load hook on the quick coupler (26,455 lb). Without quick coupler the lift capacities will increase by 550 lb, without bucket cylinder, link and lever they increase by an additional 827 lb.

Backhoe Bucket

with Straight Mono Boom 19'8" and Heavy Counterweight



Digging Envelope with Quick Coupler

		1	2	3	4
Stick length	ft in	7'10"	8'10"	9'10"	12'2"
Max. digging depth	ft in	18'10"	19'10"	20'10"	23'2"
Max. reach at ground level	ft in	32' 6"	33' 6"	34' 3"	36'5"
Max. dump height	ft in	24' 7"	25' 3"	25'11"	27'1"
Max. teeth height	ft in	35' 1"	35'11"	36' 7"	37'9"

Digging Forces without Quick Coupler

		1	2	3	4
Digging force ISO	lbf	33,946	31,248	29,000	24,729
	lb	33,731	31,085	28,881	24,692
Breakout force ISO	lbf	43,163	43,163	43,163	43,163
	lb	42,990	42,990	42,990	42,990

with Quick Coupler

Digging force ISO	lbf	32,148	29,675	27,652	23,830
	lb	31,967	29,542	27,558	23,810
Breakout force ISO	lbf	37,094	37,094	37,094	37,094
	lb	37,038	37,038	37,038	37,038

Operating Weight and Ground Pressure

Operating weight includes basic machine with heavy counterweight, straight mono boom 19'8", stick 8'10", quick coupler 48 and bucket 1.24 yd³.

Undercarriage	LC				
Pad width	in	20"	24"	30"	35"
Weight	lb	59,305	59,855	61,510	61,950
Ground pressure	psi	9.3	7.8	6.4	5.4

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

Cutting width in	Capacity ISO 7451 yd ³	Weight lb	LC-Undercarriage			
			Stick length (ft in)			
			7'10"	8'10"	9'10"	12'2"
49 ⁽¹⁾	1.50	1,720	□	□	□	□
55 ⁽¹⁾	1.77	1,896	□	□	□	△
59 ⁽¹⁾	1.90	1,984	□	□	□	■
63 ⁽¹⁾	2.03	2,072	□	△	△	■
59 ⁽¹⁾	2.16	2,249	△	△	△	▲
63 ⁽¹⁾	2.30	2,337	△	■	■	▲
49 ⁽²⁾	1.50	1,742	□	□	□	△
55 ⁽²⁾	1.77	1,918	□	□	□	■
59 ⁽²⁾	1.90	2,006	□	□	△	■
63 ⁽²⁾	2.03	2,094	△	△	△	▲
59 ⁽²⁾	2.16	2,271	△	△	■	▲
63 ⁽²⁾	2.30	2,359	■	■	■	▲

* Indicated loads are based on ISO 10567 max. stick length, lifted 360° on firm

1) Standard bucket for direct mounting with teeth Z 40

2) Standard bucket for mounting to quick coupler with teeth Z 40

Other backhoes available on request

Max. material weight □ = ≤ 3,034 lb/yd³, △ = ≤ 2,528 lb/yd³, ■ = ≤ 2,023 lb/yd³, ▲ = not authorized

Lift Capacities

with Straight Mono Boom 19'8" and Heavy Counterweight

R 926

Stick 7'10"

ft	Under-carriage	5 ft		10 ft		15 ft		20 ft		25 ft		30 ft		ft in
30	LC													
25	LC							11,4*	11,4*					8,7* 8,7* 20'11"
20	LC							15,2	16,3*					8,2* 8,2* 24' 7"
15	LC			30,9*	30,9*	21,7*	21,7*	14,6	17,5*	10,4	15,0*			8,2* 8,2* 26'11"
10	LC					21,0	25,6*	13,9	19,2*	10,0	15,9*			8,4 8,5* 28' 1"
5	LC							19,7	28,3*	13,2	20,6*	9,7	15,7	8,1 9,2* 28' 5"
0	LC					14,8*	14,8*	19,1	28,2*	12,8	20,8*	9,5	15,4	8,3 10,4* 27' 8"
- 5	LC			27,3*	27,3*	19,0	25,9*	12,7	19,6*	9,4	14,9*			8,9 12,6* 26' 1"
- 10	LC			26,5*	26,5*	19,2	21,4*	12,8	16,4*					10,5 12,9* 23' 4"
- 15	LC													
- 20	LC													

Stick 8'10"

ft	Under-carriage	5 ft		10 ft		15 ft		20 ft		25 ft		30 ft		ft in
30	LC													9,0* 9,0* 16' 5"
25	LC									12,3*	12,3*			7,7* 7,7* 22' 2"
20	LC									15,2	15,6*	9,6*	9,6*	7,2* 7,2* 25' 8"
15	LC							20,6*	20,6*	14,7	16,9*	10,4	14,8*	7,2* 7,2* 27'11"
10	LC							21,2	24,7*	13,9	18,7*	10,0	15,5*	7,4* 7,4* 29' 1"
5	LC									19,7	27,8*	13,2	20,2*	7,7 8,0* 29' 4"
0	LC													
- 5	LC					16,1*	16,1*	19,0	28,3*	12,7	20,7*	9,4	15,3	7,8 8,9* 28' 8"
- 10	LC					26,0*	26,0*	18,8	26,4*	12,5	19,8*	9,3	15,2*	8,4 10,7* 27' 1"
- 15	LC					28,9*	28,9*	19,0	22,4*	12,6	17,1*			9,7 12,6* 24' 5"
- 20	LC							15,5*	15,5*	10,7*	10,7*			10,6* 10,6* 20' 1"

Stick 9'10"

ft	Under-carriage	5 ft		10 ft		15 ft		20 ft		25 ft		30 ft		ft in
30	LC													7,9* 7,9* 18' 1"
25	LC									12,2*	12,2*			6,8* 6,8* 23' 5"
20	LC									14,7*	14,7*	10,6	10,7*	6,4* 6,4* 26'10"
15	LC							19,6*	19,6*	14,8	16,3*	10,4	14,3*	6,4* 6,4* 28'11"
10	LC					38,0*	38,0*	21,4	23,8*	14,0	18,1*	10,0	15,1*	6,7* 6,7* 6,5* 6,5* 30'
5	LC							19,8	27,2*	13,2	19,8*	9,6	15,6	7,3 8,3* 7,0* 7,0* 30' 4"
0	LC					16,8*	16,8*	18,9	28,2*	12,7	20,6*	9,3	15,2	7,3 7,8* 29' 8"
- 5	LC					24,9*	24,9*	18,7	26,8*	12,4	20,0*	9,2	15,1	7,8 9,1* 28' 2"
- 10	LC					31,0*	31,0*	18,8	23,3*	12,4	17,6*	9,3	12,8*	9,0 11,7* 25' 7"
- 15	LC							17,0*	17,0*	12,4*	12,4*			10,6* 10,6* 21' 6"
- 20	LC													

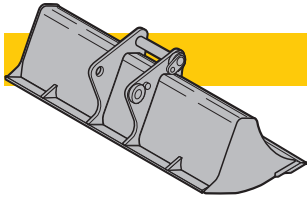
Stick 12'2"

ft	Under-carriage	5 ft		10 ft		15 ft		20 ft		25 ft		30 ft		ft in
30	LC									7,8*	7,8*			5,8* 5,8* 21' 5"
25	LC											7,0*	7,0*	5,1* 5,1* 26'
20	LC											11,8*	11,8*	4,9* 4,9* 29' 1"
15	LC									14,1*	14,1*	10,5	12,5*	4,9* 4,9* 31'
10	LC									32,0*	32,0*	21,4*	21,4*	5,0* 5,0* 32' 1"
5	LC									23,2*	23,2*	20,3	25,6*	5,3* 5,3* 32' 4"
0	LC									19,4*	19,4*	19,1	27,8*	5,9* 5,9* 31'10"
- 5	LC									15,0*	15,0*	23,9*	23,9*	6,8* 6,8* 30' 4"
- 10	LC									21,6*	21,6*	31,4*	31,4*	7,8 8,5* 28'
- 15	LC									27,3*	27,3*	18,8	20,3*	9,6 10,9* 24' 4"
- 20	LC													

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 coupler 48 without attachment are stated in lb x 1,000, and can be lifted 360° on firm, level supporting surface. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 30" 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 by *) or are limited through the allowed lift capacity of the load hook on the quick coupler (26,455 lb). Without quick coupler the lift capacities will increase by 550 lb, without bucket cylinder, link and lever they increase by an additional 827 lb.

Available Tools



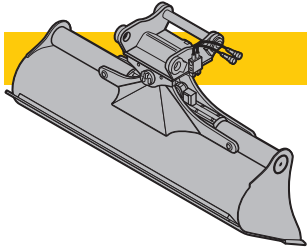
Rigid Ditchcleaning Bucket

GRL 90, for direct mounting

Cutting width	in	59"	79"	79"	79"	94"
Capacity	yd ³	0.65	0.59	0.92	1.11	1.11
Weight	lb	882	915	1,116	1,164	1,292

GRL 90, for mounting to quick coupler 48

Cutting width	in	59"	79"	79"	79"	94"	94"
Capacity	yd ³	0.65	0.92	1.57	1.63	1.11	1.50
Weight	lb	937	1,151	1,404	1,321	1,486	1,424



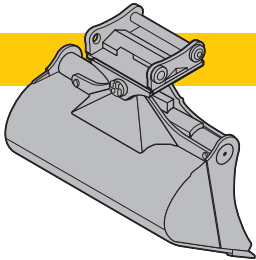
Ditchcleaning Bucket

GRL 90, 2 x 50° tiltable, for direct mounting

Cutting width	in	63"	79"	79"	79"	87"	94"	110"
Capacity	yd ³	1.05	0.65	0.92	1.31	1.50	1.11	1.90
Weight	lb	1,759	1,512	1,806	1,947	2,028	1,951	2,224

GRL 90, 2 x 50° tiltable, for mounting to quick coupler 48

Cutting width	in	63"	79"	79"	79"	87"	87"	87"	94"	94"	110"
Capacity	yd ³	1.05	0.65	0.92	1.31	1.05	1.50	1.83	1.11	1.63	2.42
Weight	lb	1,874	1,521	1,940	2,072	1,940	2,161	2,205	1,962	2,205	2,399



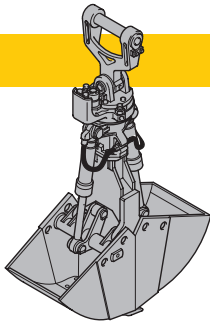
Tilttable Bucket

SL 90, 2 x 50° tiltable, for direct mounting

Cutting width	in	63"	63"	63"
Capacity	yd ³	1.05	1.31	1.77
Weight	lb	1,693	1,808	2,024

SL 90, 2 x 50° tiltable, for mounting to quick coupler 48

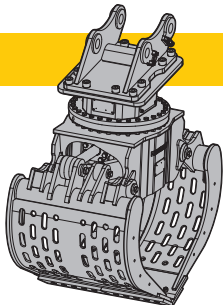
Cutting width	in	59"	63"	63"	63"	63"
Capacity	yd ³	1.57	1.05	1.31	1.77	2.03
Weight	lb	2,138	1,808	1,962	2,138	2,282
Weight in HD-version	lb	-	-	2,218	2,610	3,417



Clamshells

GM 20B, earthmoving shell, for mounting to quick coupler 48

Cutting width	mm	24"	31"	39"	39"	47"
Capacity	m ³	0.59	0.78	0.98	1.31	1.18
Weight	kg	2,381	2,491	2,657	2,579	2,800



Sorting Grapple

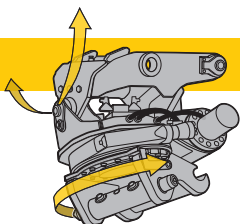
Ribbed Perforated Gravel tongs

SG 30, for direct mounting

Cutting width	in	39"	45"	39"	45"	40"
Capacity	yd ³	0.98	1.18	1.11	1.31	1.11
Weight	lb	3,329	3,505	3,285	3,461	3,891

SG 30, for mounting to quick coupler 48

Cutting width	in	39"	45"	39"	45"	40"
Capacity	yd ³	0.98	1.18	1.11	1.31	1.11
Weight	lb	3,329	3,505	3,285	3,461	3,891



Tiltrotator

LH-TR 25, for mounting to quick coupler 48

Weight	lb	1,587
Rotation		360°
Tilt		2 x 50°

Standard Equipment



Undercarriage

Lashing eyelets
Lifetime-lubricated track rollers
Sprocket with dirt ejector
Track guide at each track frame (three piece)
Tracks sealed and greased



Uppercarriage

Engine hood with lift help
Handrails, non slip surfaces
Heavy counterweight
Liebherr full-automatic central lubrication system (except connecting link for bucket kinematics)
Lockable tool box
Maintenance-free swing brake lock
Sound insulation



Hydraulics

Filter with integrated fine filter area
Hydraulic tank shut-off valve and pumps
Pressure storage for controlled lowering of equipment with engine turned off
Pressure test ports for hydraulic
Stepless work mode selector



Engine

After-cooled
Common-Rail system injection
Conform with Tier 4i emission standard
Fuel filter and water separator
Liebherr particle filter
Sensor-controlled automatic engine idling
Turbo charger



Operator's Cab

7" color multifunction display with touchscreen
Automatic air conditioning
Cigarette lighter and ashtray
Coat hook
Completely retractable windscreen
Cup holder
Dome light
Door with sliding windows
Emergency exit rear window
Front windscreen (bottom) retractable
Fuel consumption indicator
Headlights (two pieces, Halogen)
Hydro mounts
LiDAT Plus (Liebherr data transfer system)*
Mechanical hour meters, readable from outside the cab
Operator seat Comfort
Preparation for radio installation
Rain hood over front window opening
Rear space monitoring with camera
Roll-down sun blind
ROPS safety cab structure
Rubber floor mat
Seat belt
Storage bin
Storage space
Sunroof, right window and windshield with safety glass
Travel alarm system
Windows, tinted all around
Wiper/washer



Attachment

Headlight on boom (right, Halogen)
Overload warning device
Safety check valves hoist cylinder
Safety check valves stick cylinder

* optionally extendable after one year

Individual Options



Undercarriage

Reinforced cover plate and base plate for centre section
Straight track guide
Tool box



Uppercarriage

Customized colors
Extended tool kit
Fuel anti-theft device
Refuelling pump (electrical)
Reversible fan drive
Uppercarriage guard at bottom and sides



Hydraulics

Bypass filter



Engine

Air pre-filter with dust trap
Automatic engine shut-down (adjustable time-period)
Fuel pre-heating system



Operator's Cab

Additional headlights or/and rear headlights (Halogen or LED)
Amber beacon
Auxiliary heater with weekly timer
Electric cool box (12 V)
Electronic drive away lock
Engine shut-down (emergency stop) in cab
FGPS front guard
Fire extinguisher
Footrest
FOPS top guard
Headlights (two pieces, LED)
Impact-resistant front window
(one piece, fixed installation – can not be opened)
Impact-resistant front window
(two pieces, fixed installation – can not be opened)
Impact-resistant glass panel in roof
Operator seat Premium
Proportional controls Liebherr
Radio Comfort
Roof wiper
Sun visor

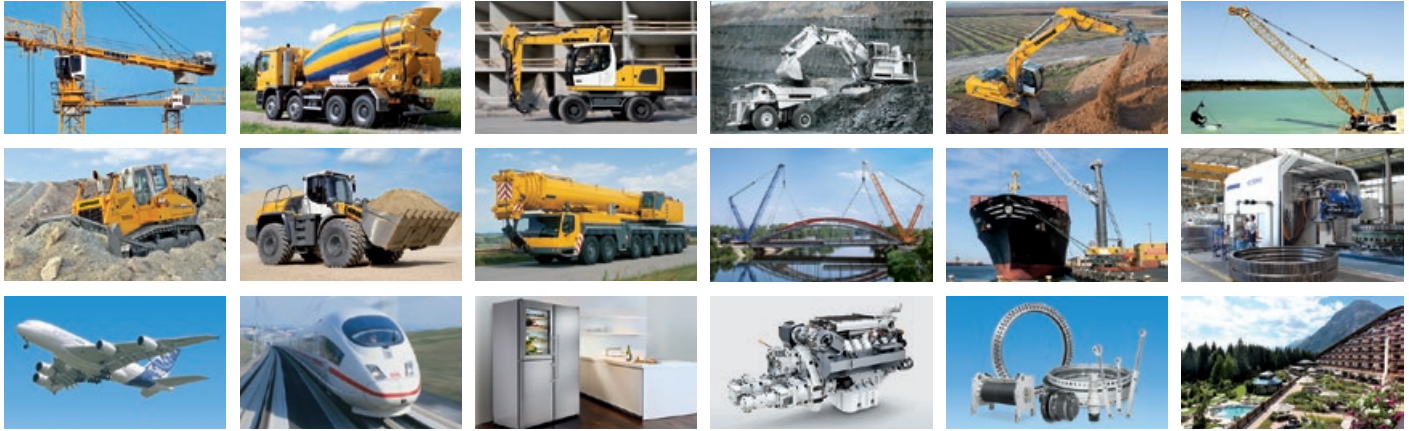


Attachment

Additional headlights on boom (left, Halogen or LED)
Bottom boom protection for stick
Headlight on boom (right, LED)
Headlights on boom (LED)
High pressure circuit
Hydraulic or mechanical quick coupler
Liebherr automatic lubrication system for link geometry
Liebherr line of buckets
Liebherr tooth system
LIKUFIX
Middle pressure circuit
Piston rod guard for bucket cylinders
Security for hoist cylinder in grab or hammer operation
Stick cylinder shut-down, adjustable
Straight mono boom
Tool Control

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

The Liebherr Group of Companies



Wide Product Range

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

Exceptional Customer Benefit

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

Worldwide and Independent

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

www.liebherr.us