

# Crawler Loaders

**LR 624**  
Litronic®

**LR 634**  
Litronic®

Engine output:	105 kW / 143 HP	129 kW / 175 HP
Operating weight:	16,894 - 18,549 kg 37,245 - 40,893 lb	20,746 - 22,694 kg 45,737 - 50,032 lb
Bucket capacity:	1.5 - 1.8 m <sup>3</sup> 1.96 - 2.35 yd <sup>3</sup>	1.9 - 2.4 m <sup>3</sup> 2.49 - 3.14 yd <sup>3</sup>



# LIEBHERR

Courtesy of MachineMarket



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Litronic®

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Litronic®

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45,737 - 50,032 lb  
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2.49 - 3.14 yd<sup>3</sup>





## Performance

Generation 4 Liebherr crawler loaders provide exceptional handling performance even in difficult terrain. Fast work cycles, an optimum bucket capacity and outstanding machine handling under load give them optimum operating properties.

## Economy

With their low fuel consumption and low service and maintenance requirement, the crawler loaders make a real contribution to your economic success: Increased economy from the reduction of costs per operating hour.

## Reliability

Liebherr crawler loaders are designed for longevity. Parts that are subjected to considerable stress are produced from high-strength materials, while critical components are well protected. The result is maximum reliability and availability.

## Comfort

The crawler loader's cab is a spacious workplace designed according to state-of-the-art ergonomic standards and offering the operator an excellent view of the operating equipment. The single-joystick control enables the machine to be controlled easily and precisely.







#### Liebherr engine technology

- Large displacement, exhaust turbocharger and charge-air intercooling for high power reserves and a steep engine-torque increase.
- Pump-line-nozzle high-pressure injection ensures good responsiveness.
- Ability to travel on slopes up to 45° due to a deep oil pan and a strong oil pump.



#### Powerful attachment hydraulics

- Special, solid Z-Kinematics design provides very high break-out forces.
- The Load Sensing System ensures unsurpassed ease of operation and precision control in all situations.
- A broad range of teeth and compact tooth systems offers maximum penetration forces in every application.



# Performance

Generation 4 Liebherr crawler loaders provide exceptional handling performance even in difficult terrain. Fast work cycles, an optimum bucket capacity and outstanding machine handling under load give them optimum operating properties.

## Excellent handling performance

### Outstanding break-out forces

The excellent penetration characteristics of the bucket and the powerful Z-bar linkage ensure optimum loading performance.

### Optimal bucket filling and high tipping load

The large tipping angle of the bucket and high stability ensure optimum filling capacity in every work cycle, especially when loading trucks.

### Rapid work cycles

Rapid acceleration, short cycle times and semi-automatic operation result in a measurable productivity advantage.

## Precision earthmoving

### Optimal dozing properties

Excellent precision control of the load-sensing power hydraulics and the machine's smooth operation enable precise dozing work.

### Good climbing ability

An extremely low centre of gravity means that steep inclines and travel on slopes, for instance when constructing embankments, do not pose a problem.

### Impressive manoeuvrability

Even under the most confined conditions, the machine can be steered and positioned with precision, including counter-rotation.

## Excellent dozing performance

### High performance without interruption

The high power reserves of the diesel engine and hydrostatic travel drive offer maximum power in every situation. This is important during dumping tasks, backfilling and earthmoving.

### High traction

The combination of a long track frame and continuously variable speed control afford high drawbar pull transmission and pushing power.

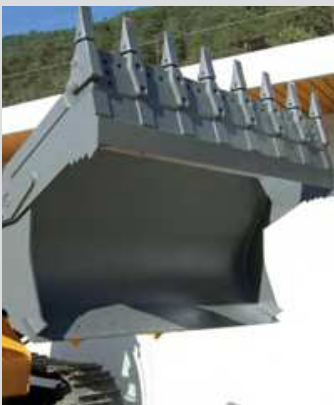
### High bucket filling level

The high bucket filling level enables optimal topsoil removal and dozing of different material layers at all times.



### A diversity of applications

- Numerous equipment options: 4in1 bucket, heavy-duty bucket, light materials bucket or standard bucket, towing hitch, winch, ripper, and more.
- Optional quick-release coupling: A wide range of attachments can be swapped easily and conveniently, making crawler loaders the ideal all-round machine.



### Liebherr hydrostatic drive

- Hydraulic variable-displacement pumps and motors are connected independently in two closed circuits and efficiently transfer diesel engine power to both final drives.
- Steering behaviour is adapted to the travel speed. This ensures maximum machine productivity with a full bucket, even on turns.





Landfill arrangement



Tunneling arrangement





# Performance

Liebherr crawler loaders are the supreme examples of multipurpose flexibility among construction machinery. They can not only be used on building sites, they can also demonstrate their power and versatility even in the harshest of special applications.

## Special application arrangements

### Landfill arrangement

Liebherr offers a fully equipped variant of crawler loaders for use on landfills. This enables them to be used not only for earthworking operations such as backfilling, levelling or topsoil stripping but also for dozing, compacting, loading or sorting refuse. The specific components have been developed specially for use on landfills and ensure a high life expectancy under the harshest of conditions.

### Tunneling arrangement

Because of their robust equipment and excellent manoeuvrability, Liebherr crawler loaders are the ideal machines for use in the limited spaces common in tunnel construction. The powerful air conditioning unit ensures comfortable working conditions inside the machine. The Liebherr particle filter is available as an option for clean air outside.

### Steel mill arrangement

The Liebherr Steel Mill Loaders have been developed specifically for handling hot slag in steel mills. The comprehensive equipment of the steel mill variant includes sealed tracks, a slag bucket capable of withstanding very high temperatures, a heat protection device for the windscreen, a series of insulating elements, a towing control attached to the rear of the machine, and much more. Operator safety was paramount in all developments. For example, a fire extinguishing system is also standard on the Liebherr Steel Mill Loaders.

### LGP arrangement

For operations on unstable surfaces, Liebherr offers Low-Ground-Pressure-Versions of its crawler loader range. This enables the ground pressure to be kept as low as possible.

### Custom optional extras

Custom optional extras can be configured upon request to create a machine that is perfectly adapted to its intended task.



Steel mill arrangement



LGP arrangement







#### Environmentally friendly

- Low noise emissions: compliant with the ISO 6396 standard and the 2000/14/EC Directive.
- Low fuel and oil consumption helps to protect the environment and save resources.
- Alternative (e.g. biodegradable) oils can also be used if required.



#### Rapid transport

- Quick and easy transport of the Liebherr crawler loaders is possible without removing the front and rear attachments.



# Economy

With their low fuel consumption and low service and maintenance requirement, the crawler loaders make a real contribution to your economic success: Increased economy from the reduction of costs per operating hour.

## Efficiency in series

### Low fuel consumption

The load sensing working hydraulics, the highly efficient hydrostatic drive unit, and the constantly low nominal speed of the Liebherr diesel engine combine to guarantee low fuel consumption.

### Long-lasting components

The generous specifications of the drive unit components are characterised by high performance capabilities and reserves as well as a long service life.

### Easy, inexpensive maintenance

Longer maintenance intervals, centralised service points and maintenance-free solutions make servicing easier and lower machine running costs.

### High track frame service lifetimes

The use of high quality track frame components with a large amount of wear material guarantees long service lifetimes.

### Longer intervals between oil changes

With regular oil analyses, Liebherr hydraulic oils have a life expectancy of up to 6000 operating hours or 4 years. Quickly and easily biodegradable Liebherr hydraulic oils can even be used up to 8000 operating hours or 6 years. Accordingly, the expected lifetime of these oils is up to 4 times longer.

### Rapid service

Operating data storage, diagnostics software, an on-board computer and a cab that can be tilted to 40° enable rapid troubleshooting and straightforward servicing work.

### Leading profitability

A comparison of handling performance and operating costs reveals that Liebherr crawler loaders offer outstanding efficiency.



### Prompt spare parts service

- More than 80,000 items are available to cater for spare parts requirements worldwide.
- The LIDOS electronic spare parts catalogue enables parts to be selected quickly and reliably and features immediate online ordering.



### Optimal ease of maintenance

- Direct access: hydraulic-action tilting cab and wide-opening service flaps via gas-filled springs.
- No-maintenance design: bucket pin and track frame components lubricated for life, automatic dust extraction.
- Easy daily maintenance: side fuel tank neck, centralised inspection and service points.





#### State-of-the-art cooling system

- The 4-way combination radiator cools the charge air, cooling water, fuel and hydraulic oil.
- The hydrostatic fan affords an excellent cooling performance and guarantees uninterrupted operation even under the most demanding of conditions.
- The wide-meshed radiator is largely self-cleaning and minimizes the risk of blockages.



#### Endurance-tested structure

- The fatigue resistance and the high torsional rigidity of all steel components were tested under maximum loads using test benches.
- The operator's cab is equipped with ROPS (Rollover Protective Structure) and FOPS (Falling Objects Protective Structure)
- The main frame and track roller frames are of box-type design and are lifetime-tested.



# Reliability

Liebherr crawler loaders are designed for longevity. Parts that are subjected to considerable stress are produced from high-strength materials, while critical components are well protected. The result is maximum reliability and availability.

## Liebherr quality

### Everything under one roof

The machines are developed, tested and built at the Liebherr production plant in Telfs (Austria). This ensures the highest quality of the entire process and of all components from the manufacturer.

### High Liebherr quality standards

Major assemblies such as the diesel engine, hydraulic cylinders, final drives and engine electronics come from state-of-the-art Liebherr competence centres and production plants in Germany and Switzerland.

### Dependable partner

Liebherr furthermore maintains strong, well-established partnerships characterized by joint developmental work and rigorous quality controls.

## Proven design

### Robust construction machine engine

The low and constant rated speed of the extremely robust Liebherr diesel engine guarantees maximum operating dependability.

### Demand-responsive cooling

The hydraulically driven fan controls cooling performance according to demand and independently of the diesel engine speed.

### Protected electrics

High-quality cable protection and a well-designed cable layout ensure safe operation in hot, cold, highly vibratory and dusty conditions.

## High functional safety

### Automatic output control

Electronic engine speed sensing control enables the efficient conversion of the installed engine output into hydraulic efficiency.

### Safety warning devices

The centrally positioned digital display provides the operator with reliable information on all operating data and any service work required.

### Dynamic brake system

Self-locking of the hydrostatic travel drive acts as a non-wearing service brake and enables precise deceleration, even in extreme situations.

### Key technologies from Liebherr

- Hydraulic cylinder: high-quality surface coating of the connecting rod, flanged head.
- Travel drive: innovative double floating ring seal with electronic seal monitoring.
- Diesel engine: robust construction machine engine with individual cylinder heads, deep oil sump, wet cylinder sleeves and Liebherr engine management electronics.



### Cushioned track frame suspension

- The majority of impact loads are absorbed via the cushioned suspension of the track frames.
- Heavy duty elastomer bushings are used for the cushioned track frame suspension, and are straightforward to maintain.







#### Liebherr single-joystick control

- Intuitive and ergonomic controls enable logical and safe operation.
- Continuous forward travel
- Continuous reverse travel
- Right turn and counter-rotation
- Left turn and counter-rotation
- Speed range selection
- Horn
- Continuously variable engine speed adjustment



#### Plenty of storage space

- Enough space for a cooler: the large wide-opening storage compartment is opened via a gas-filled spring.
- There is a 12 Volt socket in the storage compartment for a charger or a thermoelectric cooler.



# Comfort

The crawler loader's cab is a spacious workplace designed according to state-of-the-art ergonomic standards and offering the operator an excellent view of the operating equipment. The single-joystick control enables the machine to be controlled easily and precisely.

## Exemplary workplace

### Spacious and quiet cab

Noise insulation measures ensure that the cab noise level is far below statutory requirements.

### Powerful air conditioning

The standard air conditioning system and heating regulates the temperature of all cab zones optimally and individually via 12 air vents. Fresh air and air recirculation filters ensure clean air at all times for optimal work conditions.

### High seat comfort

There is a choice of different air- or mechanically sprung operator's seats available. Numerous adjustment options enable customised settings.

### Superior design

A state-of-the-art digital display in the operator's field of vision, wide armrests, sliding windows, storage compartments, space for a cooler, and a fully lined cab afford an extremely comfortable work environment.

## Ergonomic operation

### Liebherr single-joystick control

All travel movements, including "counter rotation", can be easily controlled with just one joystick. The machine can be fitted with "reverse-V"-pattern control and pedal steering on request.

### Controls within easy reach

Frequently used switches for the engine speed, horn and the travel speed are located within easy reach or are integrated in the joystick itself.

### Automatic functions

Magnetic holding functions for lifting movement limit deactivation and bucket positioning, and for the float position offer optimum operating convenience.

## Optimal visibility

### Optimal view of the bucket

The deep, high-domed windscreen provides an optimal view of the entire working area of the loading bucket.

### Outstanding all-round visibility

Large-area tinted glazing and integrated ROPS/FOPS protection allow an unequalled panoramic view of the entire work area.

### Digital instrument display

- As the interface for communication with the machine, the instrument display is optimally positioned in the operator's field of vision.

- LC display shows the travel speed, diesel engine speed and service codes
- Scroll button
- Analog display for operating hours, coolant temperature and fuel tank
- Control lights
- Warning lights



### Outstanding operator comfort

- Windshield wiper front and rear with intermittent setting.
- Coat hook, cupholder, interior lighting, sun visor.
- Air conditioning and heating with adjustable air vents.
- Ergonomically designed seat with optimal back and side support: angle-adjustable sprung fabric operator's seat can also be adjusted to suit the operator's height and weight.





# Basic machine



## Engine

	LR 624	LR 634
Liebherr Diesel engine	D934 S A6 emission regulations according to 97/68/EC, 2004/26/EC Stage IIIA and EPA/CARB Tier 3	D934 L A6
Net power (ISO 9249)	105 kW / 143 HP	129 kW / 175 HP
Net power (SAE J1349)	105 kW / 141 HP	129 kW / 173 HP
Engine rating	1,800 rpm	1,800 rpm
Displacement	6.4 l / 391 in <sup>3</sup>	7.0 l / 427 in <sup>3</sup>
Bore/stroke	122 mm / 136 mm (4.80 in / 5.35 in)	122 mm / 150 mm (4.80 in / 5.91 in)
Design	low emission 4 cylinders in-line Diesel engine with intern exhaust gas recirculation AGR, turbo-charger, air-to-air aftercooler, single cylinder head, wet cylinder sleeves, 4 valves per cylinder, gear driven water pump as well as fuel pump and oil pump	
Fuel system	Unit-Pump-System (UPS) direct high injection pressure fuel system, electronic engine management LH-ECU (Liebherr-Electronic Control Unit)	
Lubrication	pressurised lube system, engine lubrication guaranteed for inclination up to 45-degree	
Operating voltage	24 V	24 V
Alternator	80 A, Heavy-Duty	80 A, Heavy-Duty
Starter	5.4 kW	7.8 kW
Battery	2 x 135 Ah / 12 V	2 x 170 Ah / 12 V
Air cleaner	dry-type air cleaner with pre-cleaner and automatic dust ejector*, main and safety elements with radial seal	
Cooling system	combination cooler with single cooling units for water, hydraulic oil, fuel and intake charge air	
Cooling fan	hydrostatically driven, thermostatically controlled	

\* only for LR 634



## Travel drive, control

	LR 624	LR 634
Drive system	closed-loop infinitely variable hydrostatic travel drive powered by two axial piston variable displacement pumps and two axial piston variable displacement motors in swash-plate design, each track is driven independently from each other	
Travel speed	infinitely variable electronic-controlled Speed range 1: 0–6.5 km/h / 0–4.0 mph (work) Speed range 2: 0–10.0 km/h / 0–6.2 mph (travel)	
Litronic-System	electronic engine speed sensing control (load-sensing feature) automatically adjusts travel speed and drawbar pull to match changing load conditions	
Steering	hydrostatic, unlimited manoeuvrability for full power turns and counterrotation	
Service brake	hydrostatic, dynamic braking effect from travel drive system	
Parking/emergency brake	multi-disc brake, wear-free, automatically applied with neutral joystick position	
Cooling system	hydraulic oil single unit built in combination cooler	
Filter system	micro cartridge filters in replenishing pressure circuit	
Final drive	combination spur gear with planetary gear, double sealed (duo cone seals) with electronic seal-integrity indicator	
Control	single-lever travel control for all travel and steering motions, as well as for counterrotation	



## Noise emission

	LR 624	LR 634
Operator sound exposure (ISO 6396)	L <sub>PA</sub> = 78 dB(A) (emission at the operator's position)	L <sub>PA</sub> = 78 dB(A)
Exterior sound pressure (2000/14/EC)	L <sub>WA</sub> = 109 dB(A) (emission in the environment)	L <sub>WA</sub> = 110 dB(A)



## Track frame

	LR 624	LR 634
Chains	sealed and lubricated, track chain tension via grease tensioner and steel spring	
Chain links	39 each side	38 each side
Sprocket segments	5 each side	5 each side
Track rollers	6 each side	6 each side
Carrier roller	1 each side	1 each side
Track shoes standard	508 mm / 20", double grouser	508 mm / 20", double grouser
Track shoes optional	560 mm / 22", double grouser	560 mm / 22", double grouser 610 mm / 24", double grouser
	Wider track shoes available on demand	
Grouser height	35 mm / 1.38 in	42.5 mm / 1.67 in
Mount	pivot shafts and equalizer bar (cushion mounted)	



## Hydraulic equipment

	LR 624	LR 634
Hydraulic system	Load-sensing proportional pump flow control	
Pump type	variable displacement pump (swash-plate design)	
Pump flow max.	162 l/min / 35.6 Imp. gpm	209 l/min / 46.0 Imp. gpm
Pressure limitation	260 bar/ 3,770 PSI	260 bar/ 3,770 PSI
Filter system	return filter with magnetic rod in hydraulic tank	
Control	single joystick implement control for all bucket functions, with magnetic detent functions for float position as well as for automatic bucket positioner and for automatic lift kickout	



## Operator's cab

	LR 624	LR 634
Heater and air conditioner	pressurised, with fresh air intake and recirculation air filter, 12 louvered vents for all temperature controlled cab's areas, sliding side windows left and right	
ROPS/FOPS cab	integral Rollover Protective Structure according to EN ISO 3471 and Falling Objects Protective Structure according to EN ISO 3449	
Operator's seat	adjustable, suspended seat adjustable to operator's weight	
Monitoring System	combination of analog and digital instrument panel: LC-Display with scroll key for engine rpm, travel speed and service codes; automatic monitoring from operating pressures, temperatures and fill levels; hour meter gauge	
Tilting system	tiltable 40° to the rear with hydraulic hand pump	



# Basic machine



## Loader cycle times

	LR 624	LR 634
Lifting	6.3 s	6.4 s
Bucket dumping	1.3 s	2.2 s
Lowering <sup>1</sup>	2.7 s	2.8 s
Total cycle time <sup>2</sup>	8.5 s	8.1 s

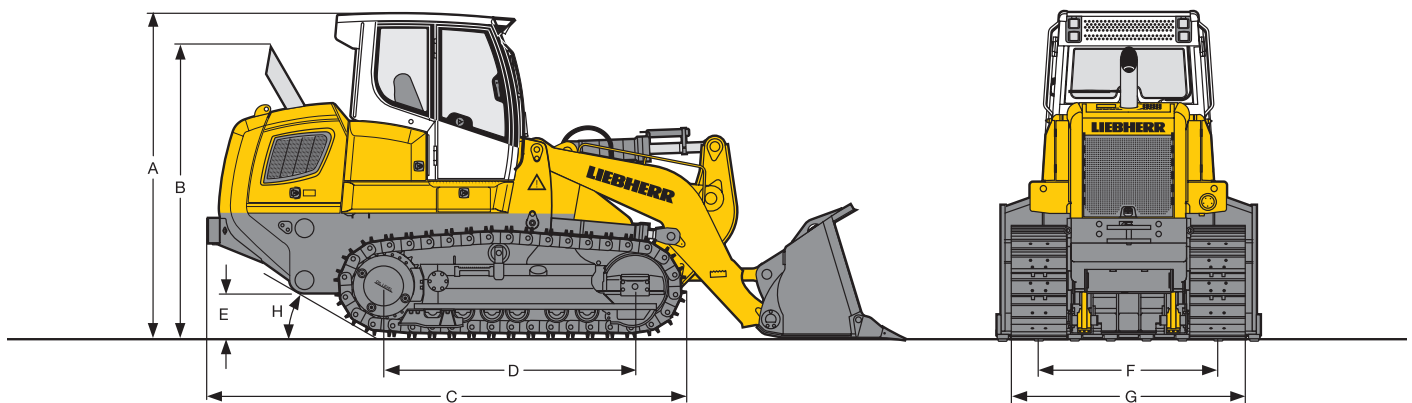
<sup>1</sup> Float position and empty bucket, <sup>2</sup> lifting and dumping together



## Refill capacities

	LR 624	LR 634
Fuel tank	279 l / 61.4 Imp. gal	328 l / 72.1 Imp. gal
Cooling system	36 l / 7.9 Imp. gal	36 l / 7.9 Imp. gal
Engine oil (with filter)	30 l / 6.6 Imp. gal	30 l / 6.6 Imp. gal
Splitter box	2.5 l / 0.5 Imp. gal	3.1 l / 0.7 Imp. gal
Hydraulic tank	76 l / 16.7 Imp. gal	83 l / 18.3 Imp. gal
Pivot shaft, each	5 l / 1.1 Imp. gal	5 l / 1.1 Imp. gal
Final drive, each	15 l / 3.3 Imp. gal	20 l / 4.4 Imp. gal
Duo cone seal, each	3.5 l / 0.8 Imp. gal	3.3 l / 0.7 Imp. gal

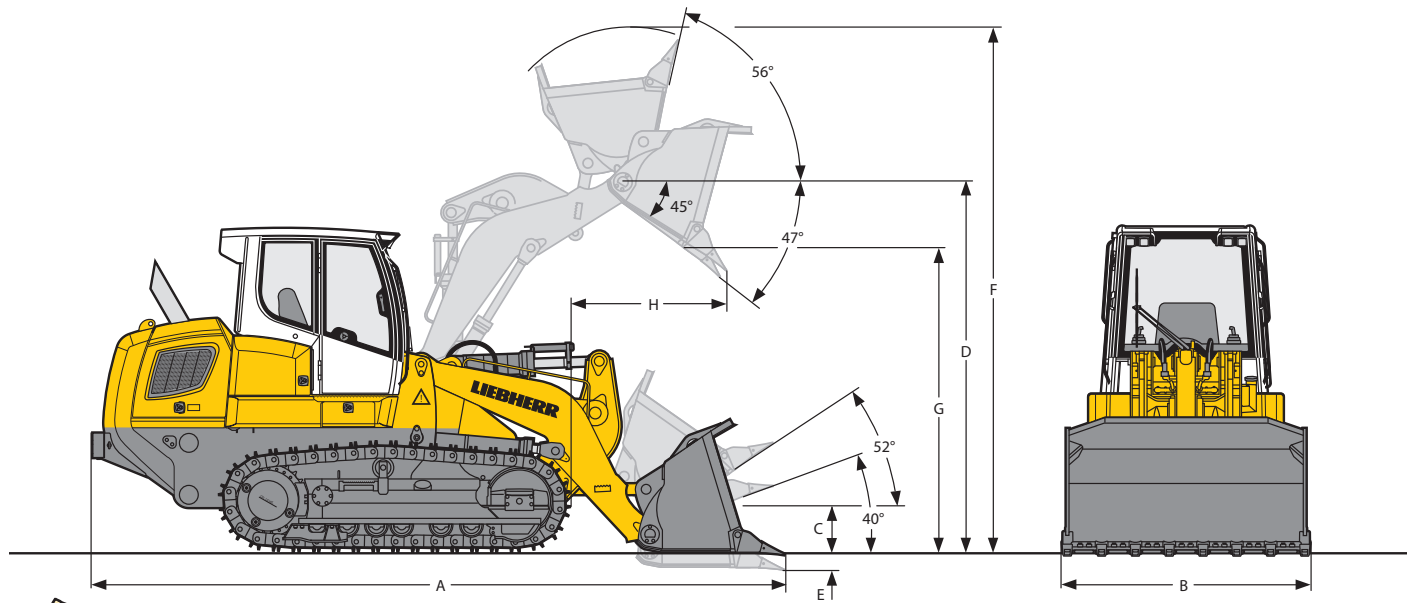
# Dimensions



Dimensions		LR 624	LR 634
A	Height over cab	mm 3,150	3,310
		ft in 10'4"	10'10"
B	Height over exhaust pipe	mm 2,806	2,952
		ft in 9'2"	9'8"
C	Length to front of track	mm 4,600	4,903
		ft in 15'1"	16'1"
D	Distance idler/sprocket center	mm 2,483	2,564
		ft in 8'2"	8'5"
E	Ground clearance	mm 430	464
		ft in 1'5"	1'6"
F	Track gauge	mm 1,740	1,800
		ft in 5'9"	5'11"
G	Machine width, with track shoes 508 mm / 20"	mm 2,248	2,308
		ft in 7'5"	7'7"
	Machine width, with track shoes 560 mm / 22"	mm 2,300	2,360
		ft in 7'7"	7'9"
	Machine width, with track shoes 610 mm / 24"	mm -	2,410
		ft in -	7'11"
H	Approach angle	30°	30°



# Front attachment



## Standard bucket

Version with

bolt-on  
adapters,  
segments  
and teeth

## LR 624

flush mounted  
weld-on  
adapters  
and teeth

bolt-on  
cutting edge

bolt-on  
adapters,  
segments  
and teeth

## LR 634

flush mounted  
weld-on  
adapters  
and teeth

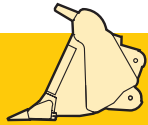
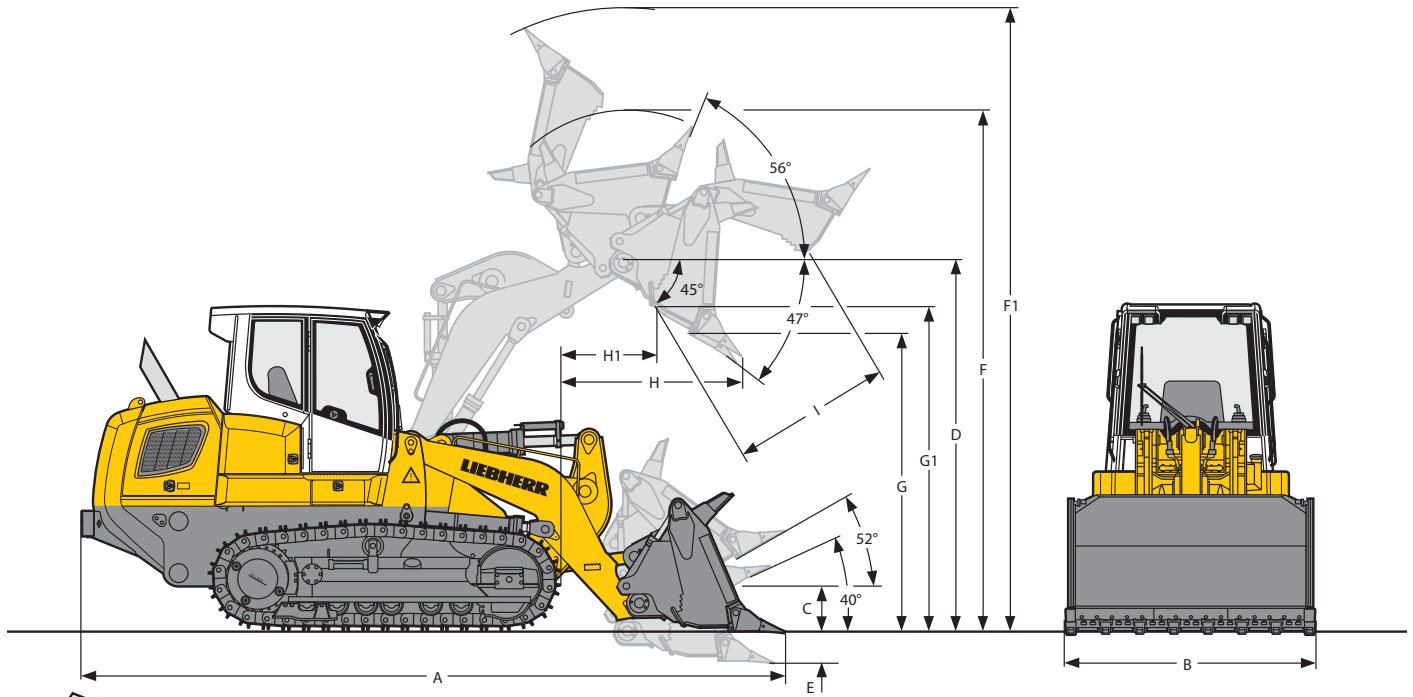
bolt-on  
cutting edge

Nominal rated bucket capacity according to ISO 7546	m <sup>3</sup>	1.8	1.7	1.8	2.4	2.3	2.4
Nominal rated bucket capacity according to SAE J742	yd <sup>3</sup>	2.35	2.22	2.35	3.14	3.01	3.14
Breakout force according to ISO 14397	kN	127	138	127	164	180	164
	lb	28,541	31,013	28,541	36,856	40,451	36,856
Static tipping load according to ISO 14397	kg	11,765	12,011	11,863	14,148	14,514	14,268
	lb	25,937	26,480	26,153	31,191	31,998	31,456
A Overall length bucket at ground with rear bumper	mm	6,337	6,246	6,337	7,115	7,021	7,115
	ft in	20'9"	20'6"	20'9"	23'4"	23'0"	23'4"
B Bucket width, overall	mm	2,444	2,450	2,420	2,529	2,500	2,490
	ft in	8'0"	8'0"	7'11"	8'4"	8'2"	8'2"
C Height of hinge pin, transport position	mm	541	541	541	582	582	582
	ft in	1'9"	1'9"	1'9"	1'11"	1'11"	1'11"
D Height of hinge pin, max.	mm	3,663	3,663	3,663	4,059	4,059	4,059
	ft in	12'0"	12'0"	12'0"	13'4"	13'4"	13'4"
E Digging depth, max.	mm	136	111	136	144	114	144
	in	5.4"	4.4"	5.4"	5.7"	4.5"	5.7"
F Overall height with bucket at full lift	mm	5,007	5,007	5,007	5,511	5,511	5,511
	ft in	16'5"	16'5"	16'5"	18'1"	18'1"	18'1"
G Dump clearance at full lift and 45° discharge according to ISO 7131	mm	2,849	2,917	2,849	3,064	3,154	3,064
	ft in	9'4"	9'7"	9'4"	10'1"	10'4"	10'1"
H Reach at full lift and 45° discharge according to ISO 7131	mm	1,051	1,018	1,051	1,207	1,160	1,207
	ft in	3'5"	3'4"	3'5"	4'	3'10"	4'
Bucket weight	kg	1,238	1,126	1,140	1,707	1,539	1,587
	lb	2,729	2,482	2,513	3,763	3,393	3,499
Operating weight <sup>1</sup>	kg	17,006	16,849	16,908	20,914	20,746	20,794
	lb	37,492	37,146	37,276	46,107	45,737	45,843
Ground pressure <sup>1</sup>	kg/cm <sup>2</sup>	0.67	0.67	0.67	0.73	0.72	0.72
	PSI	9.53	9.53	9.53	10.38	10.24	10.24

<sup>1</sup> Machine with ROPS/FOPS cab, coolant and lubricants, full fuel tank, operator (75 kg), bucket, rear bumper and track shoes 508 mm / 20" (LR 624) and 560 mm / 22" (LR 634)



# Front attachment



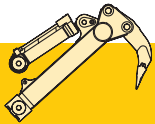
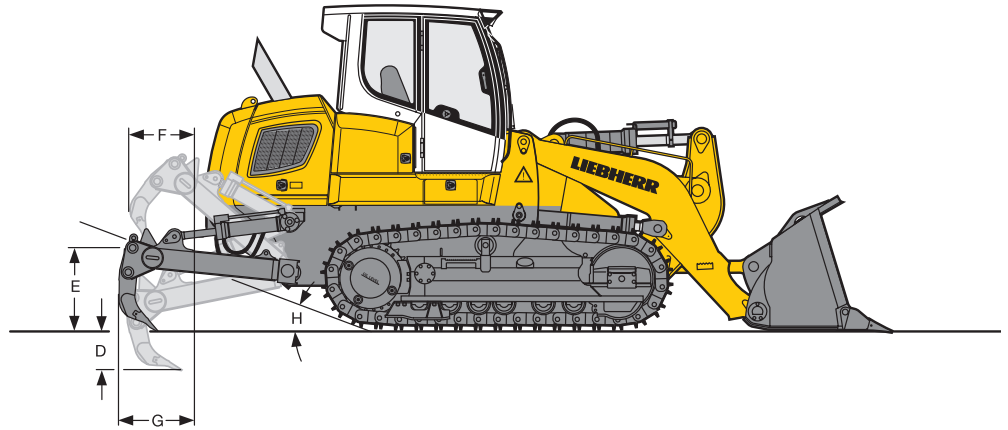
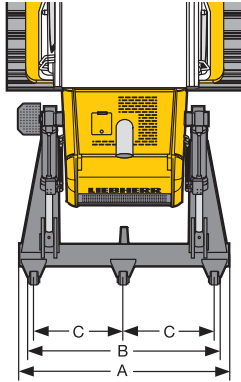
## Multi-purpose bucket

Version with		bolt-on adapters, segments and teeth	LR 624 flush mounted weld-on adapters and teeth	bolt-on cutting edge	bolt-on adapters, segments and teeth	LR 634 flush mounted weld-on adapters and teeth	bolt-on cutting edge
Nominal rated bucket capacity according to ISO 7546	m <sup>3</sup>	1.6	1.5	1.6	2.0	1.9	2.0
	yd <sup>3</sup>	2.09	1.96	2.09	2.62	2.49	2.62
Nominal rated bucket capacity according to SAE J742	m <sup>3</sup>	1.6	1.5	1.6	2.1	1.9	2.1
	yd <sup>3</sup>	2.09	1.96	2.09	2.75	2.49	2.75
Breakout force according to ISO 14397	kN	113	123	113	155	169	155
	lb	25,394	27,642	25,394	34,833	37,979	34,833
Static tipping load according to ISO 14397	kg	10,376	10,610	10,473	12,839	13,191	12,959
	lb	22,875	23,391	23,089	28,305	29,081	28,570
A Overall length bucket at ground with rear bumper	mm	6,474	6,384	6,474	7,078	6,961	7,078
	ft in	21'3"	20'11"	21'3"	23'3"	22'10"	23'3"
B Bucket width, overall	mm	2,448	2,450	2,420	2,529	2,500	2,490
	ft in	8'0"	8'0"	7'11"	8'4"	8'2"	8'2"
C Height of hinge pin, transport position	mm	541	541	541	582	582	582
	ft in	1'9"	1'9"	1'9"	1'11"	1'11"	1'11"
D Height of hinge pin, max.	mm	3,663	3,663	3,663	4,059	4,059	4,059
	ft in	12'0"	12'0"	12'0"	13'4"	13'4"	13'4"
E Digging depth, max.	mm	186	161	186	214	184	214
	in	7.3"	6.3"	7.3"	8.4"	7.2"	8.4"
F Overall height with bucket at full lift (bucket closed)	mm	5,015	5,015	5,015	5,465	5,465	5,465
	ft in	16'5"	16'5"	16'5"	17'11"	17'11"	17'11"
F1 Overall height with bucket at full lift (bucket open)	mm	5,591	5,523	5,591	6,168	6,078	6,168
	ft in	18'4"	18'1"	18'4"	20'3"	19'11"	20'3"
G Dump clearance at full lift and 45° discharge (bucket) according to ISO 7131	mm	2,743	2,811	2,743	2,971	3,061	2,971
	ft in	9'0"	9'3"	9'0"	9'9"	10'1"	9'9"
G1 Dump clearance at full lift and 45° discharge (blade) according to ISO 7131	mm	3,253	3,253	3,253	3,583	3,583	3,583
	ft in	10'8"	10'8"	10'8"	11'9"	11'9"	11'9"
H Reach at full lift and 45° discharge (bucket) according to ISO 7131	mm	1,086	1,053	1,086	1,201	1,154	1,201
	ft in	3'7"	3'5"	3'7"	3'11"	3'9"	3'11"
H1 Reach at full lift and 45° discharge (blade) according to ISO 7131	mm	625	625	625	661	661	661
	ft in	2'1"	2'1"	2'1"	2'2"	2'2"	2'2"
I Width of opening	mm	1,201	1,201	1,201	1,290	1,290	1,290
	ft in	3'11"	3'11"	3'11"	4'3"	4'3"	4'3"
Bucket weight	kg	1,782	1,671	1,685	2,247	2,080	2,127
	lb	3,929	3,684	3,715	4,954	4,586	4,689
Operating weight <sup>1</sup>	kg	17,614	17,502	17,517	21,531	21,363	21,411
	lb	38,832	38,585	38,618	47,468	47,097	47,203
Ground pressure <sup>1</sup>	kg/cm <sup>2</sup>	0.70	0.69	0.69	0.75	0.74	0.75
	PSI	9.95	9.81	9.81	10.67	10.52	10.67

<sup>1</sup> Machine with ROPS/FOPS cab, coolant and lubricants, full fuel tank, operator (75 kg), bucket, rear bumper and track shoes 508 mm / 20" (LR 624) and 560 mm / 22" (LR 634)



# Rear attachment



## 3-shank ripper radial

### LR 624

### LR 634

A Beam width	mm	2,096	2,100
	ft in	6'11"	6'11"
B Ripping width	mm	1,800	1,860
	ft in	5'11"	6'1"
C Distance between teeth	mm	870	900
	ft in	2'10"	2'11"
D Penetration, max.	mm	348	384
	ft in	1'2"	1'3"
E Ground clearance, max. below teeth	mm	715	820
	ft in	2'4"	2'8"
F Additional length, ripper raised	mm	638	740
	ft in	2'1"	2'5"
G Additional length, transport position	mm	769	851
	ft in	2'6"	2'10"
H Approach angle, ripper raised		20°	20°
Ripper weight <sup>1</sup>	kg	919	1,163
	lb	2,016	2,564
Change in operating weight	kg	876	705
	lb	1,931	1,554
Change in ground pressure	kg/cm <sup>2</sup>	0.03	0.02
	PSI	0.43	0.28
Change in static tipping load	kg	1,480	924
	lb	3,263	2,037

<sup>1</sup> If the ripper is mounted, no rear bumper will be fitted to the machine (rear bumper weight LR 624 95 kg / 209 lb, LR 634 500 kg / 1,102 lb)



# Equipment



## Basic machine

Towing system (air pressure cartridge)	•
Intake air pre-cleaner with automatic dust ejector	(1) •
Liebherr Diesel engine D934	•
Cab tilting system	•
Combination cooler, wide-meshed (for water, hydraulic oil, fuel, and charge air)	•
Radiator protection grille, hinged	•
LH-ECU electronic engine management	•
LIDAT Plus – Data transmission system	•
Hydrostatic fan, thermostatic. controlled	•
Fan guard	•
Engine access doors, hinged, lockable	•
Lifting lugs	•
UPS high injection pressure fuel system	•
Dry type air filter (quick change)	•
Fuel priming pump	•
Fuel water separator	•
Vandalism protection (fuel tank cap and service doors lockable)	•
Tool kit (with towing kit)	•
Towing hitch, rear	•
Towing hitch, front	•
Tank guard	+
Diesel particles filter	+
Exhaust manifold isolated	+
Radiator guard Heavy Duty, pivoting	+
Bio degradable Liebherr hydraulic oil	+
Air pre-cleaner engine	+
Landfill equipment	+
Reversible fan	+
Back up alarm	+
Filler guard	+
Special paint	+
Steel mill equipment	+
Fuel water separator, electric heater	+
Tunnel equipment	+
Central lubrication system	+



## Travel drive

Duo cone seals with electronic seal-integrity control	•
Electronic control	•
Parking brake, automatic applied	•
Liebherr hydrostatic travel drive	•
Litronic control system	•
Spur gear and planetary gear	•
Final drive protection ring	+



## Control and warning lights

Air inlet heater Diesel engine	•
Diesel engine malfunction	•
Electronic travel control system	•
Parking brake	•
Preselection automatic lift kickout	•
Hydraulic oil temperature	•
Battery charging control	•
Fan control	•
Oil level duo cone seals, left and right	•
Pump replenishing pressure	•
Preselection automatic bucket positioner	•
Preselection float position	•
Maintenance oil return filter	•
Maintenance fuel water separator	•
Maintenance air filter	•
Main warning light	•



## Operator's cab

Storage space under armrest, lockable	•
Towing switch	•
Armrests, adjustable	•
Speed switch, work/travel modes	•
Pressurization with air recirculation	•
Louvered vents, adjustable, x12	•
Single joystick implement control with integrated magnetic detent functions	•
Single joystick travel control (travel speed, all direction and steering motions)	•
Mechanical suspension seat	•
Fresh air intake and recirculation air filter	•
Beverage holder	•
Working lights (halogen), rear, x2	•
Working lights (halogen), front, x4	•
Horn	•
Dome light	•
Coat hook	•
Air conditioner	•
Engine rpm switch, infinitely variable	•
Emergency stop	•
Radio installation provision	•
ROPS/FOPS structures	•
Rearview mirror inside	•
Windshield washer system	•
Windshield wipers front and rear, with intermittent function	•
Sliding side window left	•
Sliding side window right	•
Key start switch	•
Seat belt, automatic retractable	•
Park lock lever	•
Safety glass, tinted	•
Pull-down sunshade	•
Power port 12 V (storage space)	•
Heater and defroster	•
Braking pedal for single-lever control	+
Air suspension seat	+
Fire extinguisher	+
Additional working lights, rear, x2	+
Condenser unit pivoted	+
Cooler box for storage space (12V)	+
Radio	+
Seatback extension	+
Reversing camera system	+
Rearview mirrors, outside, left and right	+
Protective grid for window	+
V-pattern travel control (travel speed, direction motions) with steering pedals	+



## Electrical system

Starter motor	•
LR 624 5.4 kW, LR 634 7.8 kW	•
Battery main switch	•
Batteries maintenance free, x2	•
LR 624 135 Ah, LR 634 170 Ah	•
Alternator 80 A Heavy Duty	•
Power port 24 V (electric compartment)	•
Rotating beacon	+
Anti-theft system, electronic	+

• = Standard, + = Option  
(1) only for LR 634, (2) only for LR 624

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



## Displays

Hour meter	•
Engine coolant temperature	•
Digital LC-display with scroll key (Diesel engine rpm, travel speeds, service codes and towing mode)	•
Fuel level	•
Hydraulic oil temperature	+



## Attachments

Rear bumper	•
Lower bucket pins, lifetime lubricated	•
Z-bar linkage	•
Rear drawbar hitch, rigid	+
Bolt-on adapters	+
Weld-on adapters, flush mounted	+
Trash guard multi-purpose bucket	+
Trash guard for standard bucket	+
Winch	+
HD-bucket	+
3-shank ripper, radial	+
Multi-purpose bucket	+
Waste handling bucket	+
Standard bucket with back drag edge	+
Lifting cylinder guards	+
Tilt cylinder guards	+
Clamping cylinder guards, multi-purpose bucket	+
Bolt-on cutting edges, reversible	+
Bolt-on cutting segments, reversible	+



## Hydraulic equipment

Load Sensing System	•
Automatic lift kickout	•
Automatic bucket positioner	•
Bucket quick drop	•
Bucket float position	•
Hydraulic control multi-purpose bucket	+
Hydraulic control 3-shank ripper	+



## Track frame

Track shoes, double grouser, 20"	•
Master link, two-piece	•
Lubricated chains	•
Track guides, front and rear	•
Track chains grease tensioner	•
Track rollers, lifetime lubricated, x6	•
Track idler guards	•
Track idlers, lifetime lubricated	•
Equalizer bar, cushion mounted	•
Carrier rollers, lifetime lubricated, x1	•
Sprocket guards	•
Sprocket segments, bolted, x5	•
Rear striker bar	+
Track shoes, double grouser, 20" with trapezoidal center holes	+
Track shoes, double grouser, 22"	+
Track shoes, double grouser, 22" with trapezoidal center holes	+
Track shoes, double grouser, 24" (1)	+
Track guards	+
Center track guides	+
Version LGP	+
Sprocket segments with recesses	+



# 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.

## 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.

**[www.liebherr.com](http://www.liebherr.com)**

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