L 507–L 518 Stereo

LIEBHERR

Wheel loaders



Generation
8 (L 507, L 509)
6 (L 514, L 518)

Tipping load
3,750 kg–6,550 kg

Engine
Stage V

Performance

Compact and easily manoeuvrable –
the best partner in confined spaces

Economy

Intelligent machine design –
low costs with high output

Reliability

A reliable partner –
robust and durable machines

Comfort

Compact engineering skill –
when technology combines comfort and safety

Maintainability

Savings in both time and costs –
thanks to quick and simple maintenance



L 507 Stereo

Tipping load, articulated
3,750 kg
Bucket capacity
0.9 m³
Operating weight
5,550 kg
Engine output
50 kW/68 HP



L 509 Stereo

Tipping load, articulated
4,430 kg
Bucket capacity
1.2 m³
Operating weight
6,390 kg
Engine output
54 kW/73 HP

L 514 Stereo

Tipping load, articulated
5,750 kg
Bucket capacity
1.5 m³
Operating weight
8,860 kg
Engine output
76 kW/103 HP

L 518 Stereo

Tipping load, articulated
6,550 kg
Bucket capacity
1.7 m³
Operating weight
9,190 kg
Engine output
76 kW/103 HP

Performance



Compact and easily manoeuvrable – the best partner in confined spaces

The specially developed steering system of the Stereoloader enables quick and efficient manoeuvring. Even confined spaces are no problem for these sturdy all-rounders. Faster work cycles, high payloads, and high machine availability result in excellent handling capacity.



Unique machine design
- The specially developed stereo steering system provides outstanding manoeuvrability and flexibility
- The combination of articulated steering and steered rear axle enables a reduced articulation angle of only 30° with stereo steering
- A tight turning radius means maximum manoeuvrability
- Fast and efficient work even in confined spaces



Compact and stable
- Maximum stability on all terrain due to a lower articulation angle
- The compact design produces a very low centre of gravity and low operating mass
- The transportation of high payloads with a low operating weight is made possible thanks to the intelligent machine design



Application-optimised lift arms
- Z-bar kinematics work with maximum force in all applications
- High breakout forces in the lower lift arm range combined with strong holding forces in the upper lift arm range increase productivity in all applications
- Optimised load guidance in fork operation over the entire lifting range for safe and precise work and sensitive control



Versatile
- A wide range of working attachments increase versatility and make the Stereoloader a high performing and profitable all-rounder
- Easily changeable tools and attachments increase productivity
- Ideal machine for all areas of application such as road construction, municipal services, and as a reliable helper on a diverse range of construction sites

Economy

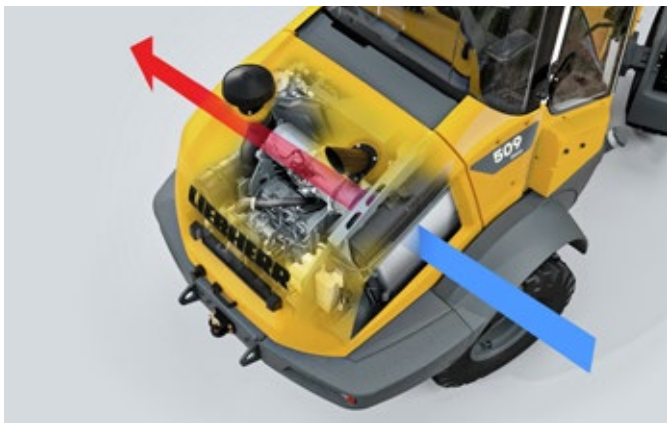


Intelligent machine design – low costs with high output

Safe, practical, and compact – the Stereoloader will make a decisive contribution to your commercial success. The demand-controlled cooling system reduces fuel consumption and noise pollution, which is beneficial for both the operator and the immediate environment. For more speed under the wheels, there is the Speeder version of the Stereoloader.



Powerful travel drive
- Hydrostatic Liebherr travel drive
- Outstanding traction even when driving on difficult terrain
- Stereo: continuous acceleration without loss of traction
- Speeder: powerful acceleration up to the maximum speed with the help of a 2-stage automated transmission



Demand-controlled cooling
- Demand-controlled cooling saves fuel and reduces noise pollution
- The fan drive automatically provides the exact amount of cooling power needed
- Helps reduce operating costs and increase profitability



Speeder version to go even faster
- High-speed version available as an option
- Ideal for operations with high travel speeds and long driving distances
- The L 507 and L 509 models reach a top speed of up to 38 km/h
- The L 514 and L 518 models reach a top speed of up to 40 km/h
- Time savings increase profitability



Solidlink
- Hydraulic quick coupler with integrated automatic hydraulic coupling system (available as an option for L 507–L 509)
- Hydraulic attachments changed within seconds direct from the cab
- Change is fully automatic, safe, and with no fluid leakage
- Time saving due to convenience results in higher productivity and saves time and costs

Reliability

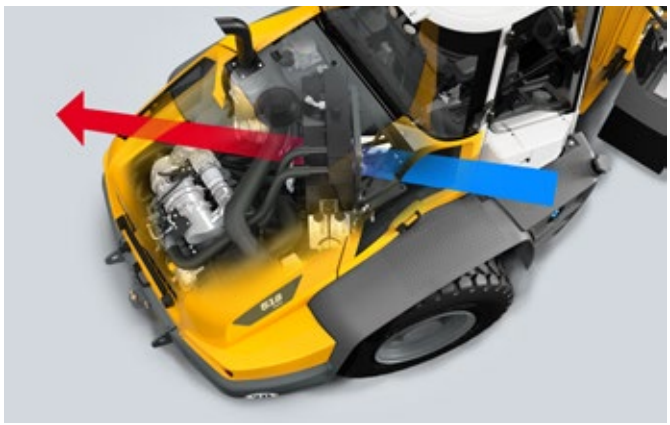


A reliable partner – robust and durable machines

Tried and tested over decades with proven excellence – the “stereo concept” is still unique in wheel loaders today and delivers maximum performance even under the toughest operating conditions. Specially developed components, sophisticated technology, and the highest quality ensure maximum reliability and availability.



High performance and durable components
- Decades of experience in the development, design and production of components is reflected in their robustness and durability
- Components are ideally matched to one another for maximum performance
- High Liebherr quality standards ensure reliability, even in the toughest operating conditions



Optimal cooling capacity
- Cooling air is drawn in at the side behind the operator's cab and flows through the entire engine compartment
- The L 507 and L 509 models have cross-cooling (air flows across the engine compartment)
- The L 514 and L 518 models have diagonal flow cooling (air flows diagonally through the engine compartment)
- Demand-controlled cooling for improved cooling performance and reliable operation



Protective equipment options
- The optional equipment – such as the reversible fan drive, lint filter for the radiator and the coarse-mesh radiator – all protect the cooling system from contamination
- Particularly recommended for very dust-intensive applications
- Improves the cooling performance while minimising cleaning requirements
- Reduced maintenance times lead to more efficient and cost-effective operations



Work without interruption
- Diesel oxidation catalysts (DOC) and diesel particulate filters (DPF) are installed for exhaust gas treatment, and lower exhaust emissions
- Additional selective catalytic reduction (SCR) on the L 514 and L 518
- Uninterrupted work due to passive and active particulate filter regeneration during operation
- Longer intervals between regenerations saves fuel and reduces operating costs

Comfort



Compact engineering skill – when technology combines comfort and safety

A cab where you can really feel good – the design of which is optimally adapted to the day-to-day requirements of the operator. The spacious and ergonomically designed layout and the easy handling of the Stereoloader provides the perfect conditions for comfortable and productive working.

L 507 / L 509



Modern cab design for greater productivity
- The modern ergonomic cab design enables focussed working with less fatigue
- The displays, controls, and the operator's seat are perfectly coordinated and form an ergonomic unit
- Numerous storage compartments and well-thought-out solutions provide plenty of space on all sides of the operator's cab
- Simple and intuitive in operation the Stereoloader provides excellent on-site versatility

L 514 / L 518



Keep an eye on everything – for hazard-free work
- The extensive use of glass in the operator's cab provides excellent all-round visibility of the working attachment and operating area
- The engine bonnet was designed with visibility in mind and this, together with the optional reversing camera, ensures excellent overview
- The highest degree of safety can be ensured even in confined spaces
- Large touchscreen display provides a quick overview of all operating data



Precise and sensitive – the Liebherr control lever
- New ergonomically adjustable joystick with individually assignable functions (L 507 and L 509)
- All of the machine's working and driving functions can be controlled precisely and safely using the Liebherr control lever
- Hydraulic working tools are controlled proportionally through the Liebherr control lever with mini-joystick
- Hydraulic tools can therefore be controlled very ergonomically and with the utmost sensitivity



Sophisticated design for more comfort
- Thanks to the side window that can be opened by 180°, there is much better air circulation in the operator's cab and it is easier to communicate with those outside of the cab
- The damped articulated pendulum joint compensates for uneven ground and ensures excellent stability and maximum comfort

Maintainability



Simple and quick maintenance – means time and cost savings for you

Intelligent installation of components, quicker and easier access to the engine compartment, as well as maximum efficiency in every last detail are key to effective maintenance work. All installed parts which need to be serviced can be reached safely and comfortably from the ground. This saves time and money.



Safe and open service access
- The entire engine compartment can be accessed easily by opening just one hood
- All points for daily maintenance work are accessible from the ground
- Both factors reduce downtime



Low maintenance due to intelligent design
- Simple and safe maintenance ensures less downtime
- Less radiator contamination due to its well-thought-out position directly behind the operator's cab



Increased efficiency down to the smallest detail
- Maximum efficiency thanks to optimum coordination between components
- Easily accessible filler pipe enables quick and easy filling
- All test points and fluid levels are immediately visible when looking around the machine



Liebherr-Service
- Effective and timely support from a well-staffed service network
- Fast and safe service provision by qualified service specialists

Focus on safety and comfort

Lift arms

Strong and robust – the powerful Z-bar kinematics have impressive hydraulic components, robust and durable lift arms, and a strong steel construction. Safe lifting and loading without the need for manual re-adjustment and no loss of load, as well as quick and impressive positioning of loading material. The intelligent machine design ensures risk-free transportation of loads even on uneven ground.



Stability and tip resistant

Durable and manoeuvrable – the unique articulated pendulum joint compensates for uneven ground and results in a comfortable and stable ride. Additional stability and maximum manoeuvrability due to a tight turning radius is provided by the unique stereo steering with an articulation angle of only 30°. Maximum productivity is ensured by an optimal ratio between operating mass and tipping load.



Operator’s cab

Excellent visibility and comfort – the ergonomically optimised cab design enables comfortable and less tiring work. The large glazed area and the visually-optimised engine bonnet design provide an unobstructed view in all directions. The Stereoloader’s simple handling makes it easy to learn and means the operator can quickly get to grips with the machine. This saves time and increases versatility.

Assistance systems

Intelligent helpers – the optional innovative assistance systems for the L 514 and L 518 models offer comprehensive solutions to optimise safety and comfort, supporting the operator and thus enhancing performance. The simple handling and intuitive operation enable safe, efficient, and thus more economical machine operation.

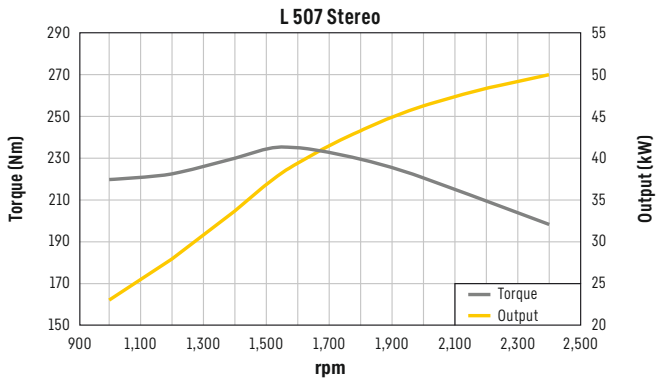
Technology

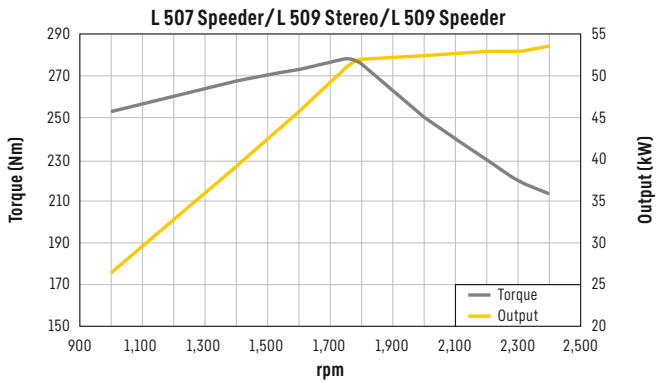
Versatile and effective – the highly efficient, hydrostatic travel drive results in performance-oriented and cost-optimised operation. The Speeder variants offer significantly more travel speed and result in work being performed even faster. A wide range of working attachments mean that the machines can be used in a very versatile and universal way. To enhance operational safety, all maintenance points are quickly and safely visible from the ground.

Technical data

Diesel engine

		L 507 Stereo	L 507 Speeder L 509 Stereo L 509 Speeder
Diesel engine		4TNV98C	4TNV98CT
Design		Water-cooled in-series diesel engine	Water-cooled turbocharged in-series diesel engine
Cylinder inline		4	4
Fuel injection process		Electronic Common Rail high-pressure injection	
Output to	kW / HP	48 / 65	52 / 71
ISO 9249 ~ SAE J1349	at RPM	2,400	2,400
Rated output to			
ISO 14396 / ECE-R.120	kW / HP	50 / 68	54 / 73
Nominal speed	at RPM	2,400	2,400
Max. torque to	Nm	235	280
ISO 14396	at RPM	1,560	1,800
Displacement	litres	3.32	3.32
Bore / Stroke	mm	98 / 110	98 / 110
Stage V			
Harmful emissions values		According to regulation (EU) 2016 / 628	
Emission control		Closed diesel particle filter system	
Air cleaner system		Dry type filter with main and safety element	
Electrical system			
Operating voltage	V	12	12
Capacity	Ah	105	105
Alternator	V / A	12 / 120	12 / 120
Starter	V / kW	12 / 3	12 / 3





Driveline

	L 507 Stereo L 509 Stereo	L 507 Speeder L 509 Speeder
Hydrostatic driveline		
Design	Continuous, swash plate type variable flow pump and variable axial piston motor in closed loop circuit	2-speed automated gearbox, swash plate type variable flow pump and variable axial piston motor in closed loop circuit
Filtration	Suction return line filter for closed circuit	
Control	By travel and inching pedal. The inching pedal makes it possible to control the tractive and thrust forces steplessly at full engine speed. The Liebherr control lever is used to control forward and reverse travel	
Travel speed range	Speed range 1: 0–6 km/h Speed range A1–2: 0–20 km/h forward and reverse Speeds quoted apply with the tyres indicated as standard on loader model.	Speed range 1: 0–18 km/h Speed range A1–2: 0–38 km/h*

*Configuration, tyres and mounting tools can influence the maximum speed.

Brakes

	L 507 Stereo L 509 Stereo	L 507 Speeder L 509 Speeder
Service brake	Wear-free service brake due to hydrostatic driveline, applied to all four wheels and addtional hydraulically activated drum brake	Wear-free service brake due to hydrostatic driveline, applied to all four wheels and addtional dual-circuit brake system, drum brake and wet multi-disc brake located in the front axle
Parking brake	Negative brake system on the drum brake	Negative brake system in the front axle acting on the wet multi-disc brakes

The braking system meets the requirements of the ISO 3450.

Axles

		L 507 Stereo L 509 Stereo	L 507 Speeder L 509 Speeder
Four-wheel drive			
Front axle		Fixed	
Rear axle		Axle pivot steering, fixed	
Height of obstacles which can be driven over	mm	370 with all four wheels remaining in contact with the ground	370
Differentials		Automatic multi-disc limited slip differentials with 45% locking action in both axles	100% differential lock in front axle, manually engaged
Reduction gear		Planetary final drive in wheel hubs	
Track width		1,510 mm with tyres indicated as standard (L 507) 1,630 mm with tyres indicated as standard (L 509)	

Steering

Design		Stereo steering system, hydraulic servo power steering. Central oscilating frame articulation with damper element in combination with rear-axle pivot steering
Angle of articulation		30° to each side
Angle of oscillation – centre-pivot steering		8° to each side
Max. pressure	bar	180

Attachment hydraulics

		L 507	L 509
Design		Gear pump to supply the hydraulic and steering systems (via priority valve)	
Cooling		Hydraulic oil cooling using thermostatically controlled fan	
Filtration		Suction return line filter in the hydraulic reservoir	
Control		Liebherr control lever, hydraulically operated, 1st and 2nd additonal hydraulic function are electrically, proportional controlled	
Lifting function		Lifting, neutral, lowering Float position controlled by Liebherr control lever with detent, automatic hoist kick out optional	
Tilt function		Tilt back, neutral, dump Automatic bucket return to dig optional	
Max. flow	l/min.	75	96
Max. pressure	bar	230	210

Attachment

		L 507	L 509
Geometry		Powerful Z-bar linkage with tilt cylinder, hydraulic quick hitch as standard	
Cycle time at nominal load		ZK	ZK
Lifting	s	5.5	5.6
Dumping	s	1.7	2.0
Lowering (empty)	s	4.1	4.1

Cab

		L 507	L 509
Design		Elastic mounted, noise-proof cab ROPS roll over protection per EN ISO 3471 / EN 474-1 FOPS falling objects protection per EN ISO 3449 / EN 474-1, Cat. II Operator's door with 180° opening angle with rigid window, fold-out window on right with 12° gap opener or 180° opening, single-pane safety glass ESG, heated rear window ESG, all windows are tinted. Continuously adjustable steering column optional	
Liebherr operator's seat		5 way adjustable, vibration-damped operator's seat "Standard" (mechanically sprung, adjustable to operator's weight), Liebherr control lever mounted into the operator's seat as standard	
Cab heating and ventilation		Fresh / recirculated air mode, cab heating via cooling water, arrangement of the air nozzles ensures quick defrosting and defogging of the windows, electrically heated rear window. The air-conditioning system contains fluorinated greenhouse gases.	
Refrigerant		R1234yf	R1234yf
Global warming potential (GWP EU)		0,501	0,501
Quantity	(g)	1.050	1.050
CO_2 equivalent	(t)	0,00053	0,00053
Vibration emissions			
Hand / arm vibrations		≤ 2.5 m/s², according with ISO 5349-1:2001	
Whole-body vibrations		≤ 0.5 m/s², complies with technical report ISO/TR 25398:2006	
Measuring inaccuracy		According with standard EN 12096:1997	

Sound level

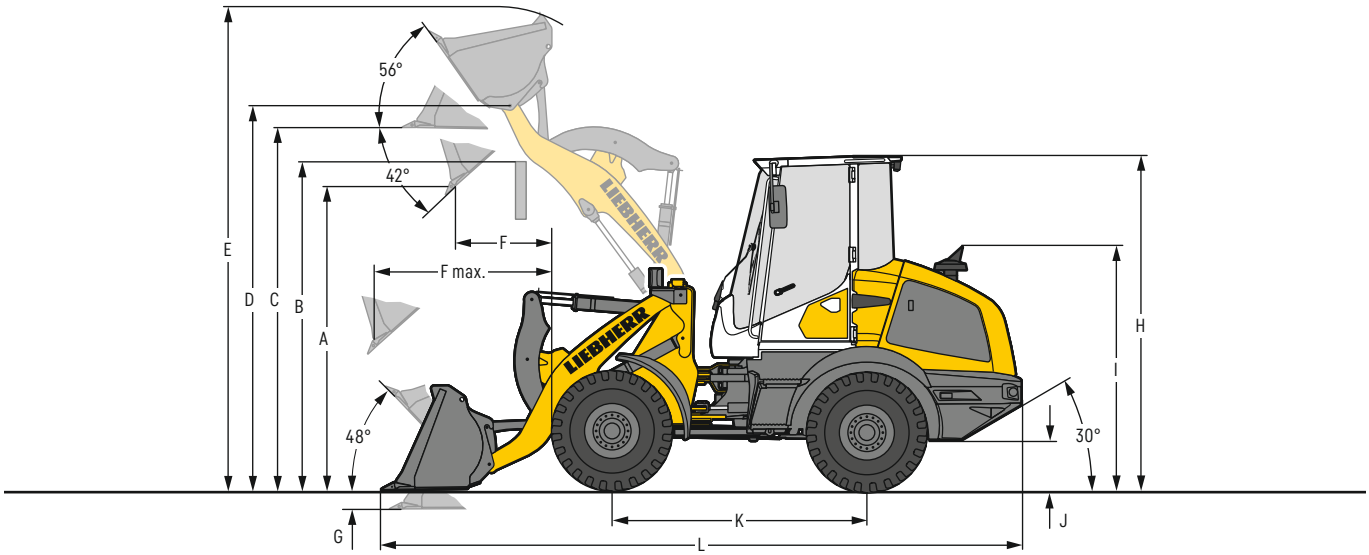
		L 507	L 509
Sound pressure level to ISO 6396			
L_{pA} (inside cab)	dB(A)	73	73
Sound power level to 2000/14/EC			
L_{WA} (surround noise)	dB(A)	101	101

Capacities

		L 507 Stereo	L 507 Speeder	L 509 Stereo	L 509 Speeder
Fuel tank	l	90	90	90	90
Engine oil (inclusive filter change)	l	10.2	10.2	10.2	10.2
Transmission	l	0.8	1.3	0.8	1.3
Coolant	l	9	9	9	9
Front axle / differential	l	4.7	3.7	6.3	6.8
Rear axle / differential	l	3.5	4.3	5.7	6
Front axle / wheel hubs	l	1.4	1.4	1.4	1.4
Rear axle / wheel hubs	l	1.4	1.4	1.4	1.4
Hydraulic tank	l	65	65	65	65
Hydraulic system, total	l	102	102	102	102

Dimensions

Z-bar linkage



Liebherr bucket with straight base

			L 507		L 509	
			STD	HL	STD	HL
Geometry			ZK-SW	ZK-SW	ZK-SW	ZK-SW
Cutting tools			Z	Z	Z	Z
Lift arm length		mm	2,150	2,250	2,250	2,560
Bucket capacity according to ISO 7546 **		m^3	0.9	0.8	1.2	1.0
Specific material density		t/m^3	1.8	1.8	1.8	1.8
Bucket width		mm	2,050	1,900	2,330	2,100
A	**Dumping height at max. lift height and 42° discharge**	mm	2,550	2,780	2,645	3,145
B	**Dump-over height**	mm	2,870	3,060	3,000	3,450
C	**Max. height of bucket bottom**	mm	3,015	3,200	3,145	3,585
D	**Max. height of bucket pivot point**	mm	3,215	3,400	3,345	3,785
E	**Max. operating height**	mm	4,040	4,230	4,260	4,680
F	**Reach at max. lift height and 42° discharge**	mm	815	780	910	875
F max.	**Max. reach at 42° discharge**	mm	1,500	1,605	1,645	1,935
G	**Digging depth**	mm	80	70	95	110
H	**Height above operator's cab**	mm	2,780	2,780	2,810	2,810
I	**Height above exhaust**	mm	2,030	2,030	2,060	2,060
J	**Ground clearance**	mm	285	285	295	295
K	**Wheelbase**	mm	2,150	2,150	2,300	2,300
L	**Overall length**	mm	5,495	5,640	5,815	6,170
Turning circle radius over tyres		mm	3,520	3,520	3,760	3,760
Turning circle radius over outside bucket edge		mm	3,885	3,890	4,225	4,325
Breakout force (SAE)		kN	48	52	55	59
Tipping load, straight *		kg	4,070	4,000	4,850	4,100
Tipping load, fully articulated *		kg	3,750	3,610	4,430	3,750
Operating weight *		kg	5,550	5,630	6,390	6,630
Tyre size			365/70R18 L2		405/70R18 L2	

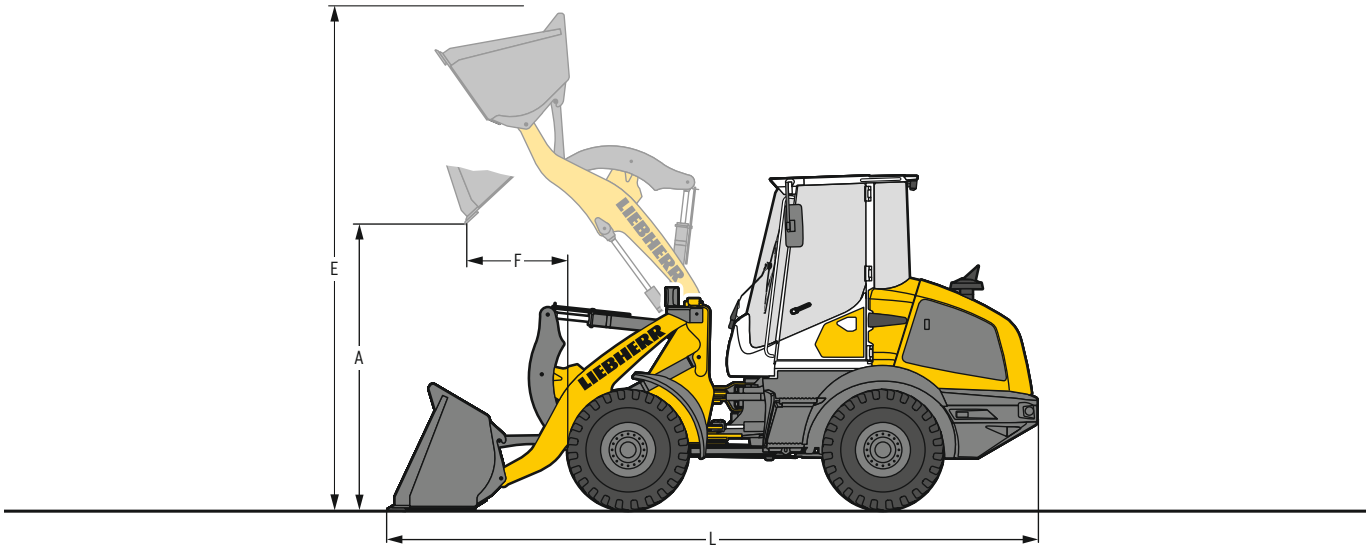
* The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS / FOPS cab and the operator.
Different tyres and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

** Actual bucket capacity may be approx. 10 % larger than the calculation according to ISO 7546 standard. The degree to which the bucket can be filled depends on the material – see page 22.

STD = Standard lift arm length
HL = High Lift
ZK-QH = Z-bar linkage incl. quick hitch
T = Welded-on tooth holder with add-on teeth

Dimensions

Z-bar linkage



Light material bucket – heavy material density

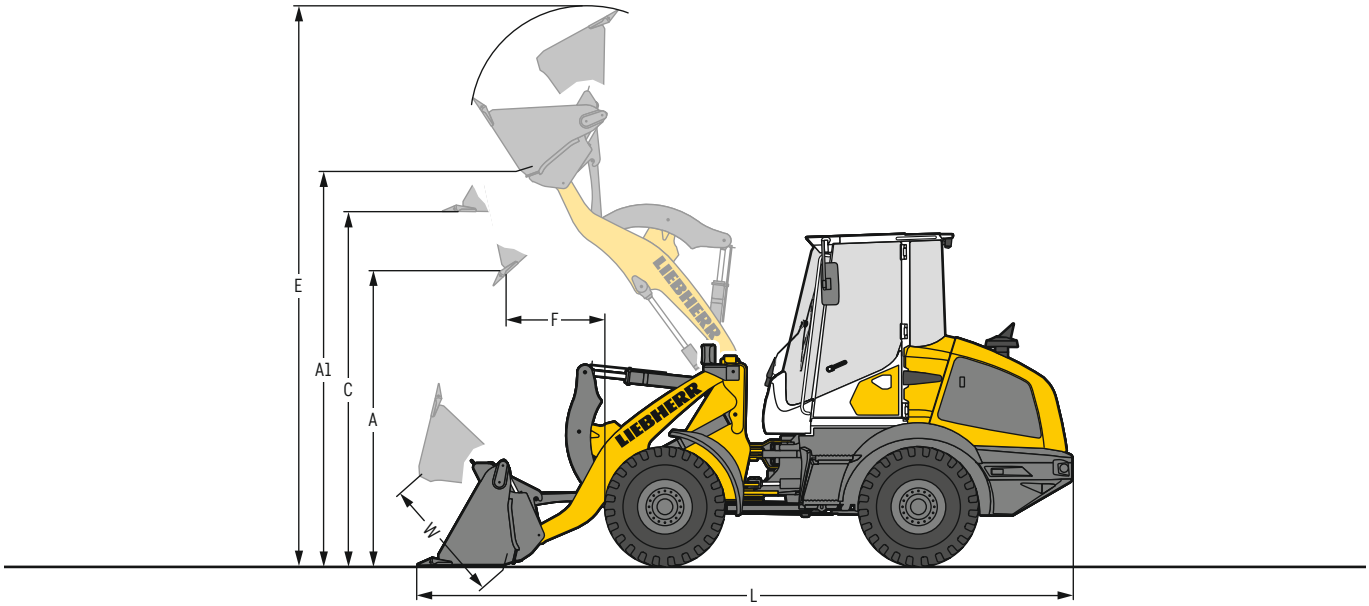
		L 507			L 509		
		STD	STD	HL	STD	STD	HL
Geometry		ZK-QH	ZK-QH	ZK-QH	ZK-QH	ZK-QH	ZK-QH
Cutting tools		BOCE	BOCE	USM	BOCE	BOCE	BOCE
Bucket capacity	m^3	1.2	1.6	1.2	1.6	2.0	1.6
Specific material density	t/m^3	1.4	1.0	1.2	1.3	1.0	1.0
Bucket width	mm	2,330	2,400	2,330	2,400	2,400	2,400
A Dumping height at max. lift height	mm	2,510	2,420	2,705	2,550	2,465	3,005
E Max. operating height	mm	4,130	4,205	4,315	4,330	4,485	4,780
F Reach at maximum lift height	mm	840	870	845	935	1,040	950
L Overall length	mm	5,465	5,580	5,610	5,820	5,960	6,210
Tipping load, straight*	kg	3,920	3,825	3,820	4,700	4,620	3,955
Tipping load, fully articulated*	kg	3,575	3,490	3,440	4,275	4,200	3,600
Operating weight*	kg	5,675	5,730	5,760	6,455	6,465	6,765
Tyre size		365/70R18 L2			405/70R18 L2		

* The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS / FOPS cab and the operator.
Different tyres and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

STD = Standard lift arm length
HL = High Lift
ZK-QH = Z-bar linkage incl. quick hitch
BOCE = Bolt-on cutting edge

Dimensions

Z-bar linkage



4 in 1 bucket

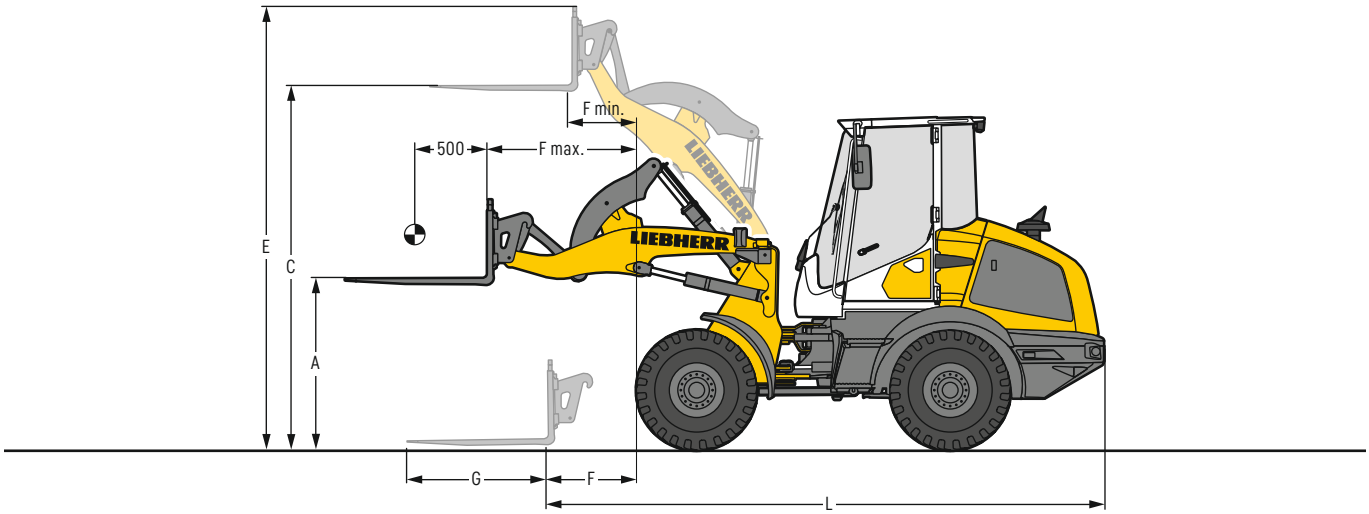
		L 507		L 509	
		STD	HL	STD	HL
Geometry		ZK-QH	ZK-QH	ZK-QH	ZK-QH
Cutting tools		T	Z	T	T
Bucket capacity	m³	0.8	0.7	1.1	0.9
Specific material density	t/m³	1.8	1.8	1.8	1.8
Bucket width	mm	2,100	1,950	2,200	2,100
A Dumping height at max. lift height and 42° discharge	mm	2,545	2,705	2,630	3,155
A1 Max. dumping height with opened bucket	mm	3,230	3,500	3,360	3,800
C Max. height of bucket bottom	mm	2,950	3,200	3,080	3,520
E Max. operating height	mm	4,720	4,905	4,930	5,285
F Reach at max. lift height and 42° discharge	mm	880	850	990	930
L Overall length	mm	5,585	5,615	5,905	6,205
W Max. bucket opening	mm	960	960	960	960
Turning circle radius over outside bucket edge	mm	3,975	3,925	4,220	4,310
Tipping load, straight*	kg	3,550	3,520	4,270	3,740
Tipping load, fully articulated*	kg	3,240	3,210	3,885	3,400
Operating weight*	kg	5,835	5,910	6,660	6,875
Tyre size		365/70R18 L2		405/70R18 L2	

* The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS / FOPS cab and the operator.
Different tyres and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

STD = Standard lift arm length
HL = High Lift
ZK-QH = Z-bar linkage incl. quick hitch
T = Welded-on tooth holder with add-on teeth

Dimensions

Z-bar linkage



FEM II fork carrier and fork

			L 507		L 509	
			STD	HL	STD	HL
Geometry			ZK-SW	ZK-SW	ZK-SW	ZK-SW
A	**Lifting height at max. reach**	**mm**	1,450	1,450	1,500	1,490
C	**Max. lifting height**	**mm**	3,045	3,225	3,175	3,615
E	**Max. operating height**	**mm**	3,715	3,900	3,840	4,280
F	**Reach at loading position**	**mm**	740	855	810	1,200
F max.	**Max. reach**	**mm**	1,235	1,340	1,330	1,640
F min.	**Reach at max. lifting height**	**mm**	525	460	570	500
G	**Fork length**	**mm**	1,200	1,200	1,200	1,200
L	**Length – basic machine**	**mm**	4,825	4,945	5,040	5,425
Tipping load, straight*		**kg**	3,215	3,080	3,840	3,400
Tipping load, fully articulated*		**kg**	2,930	2,790	3,500	3,090
Recommended payload for uneven ground = 60 % of tipping load, articulated[3)]		**kg**	1,820	1,670	2,100	1,850
Recommended payload for smooth surfaces = 80 % of tipping load, articulated[3)]		**kg**	2,300[1)]	2,240	2,500[2)]	2,470
Operating weight*		**kg**	5,445	5,530	6,175	6,490
Tyre size			365/70R18 L2		405/70R18 L2	

* The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS / FOPS cab and the operator.
Different tyres and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

[1)] Payload is limited by tilt cylinder – max. load capacity for the fork carrier FEM II 2,500 kg

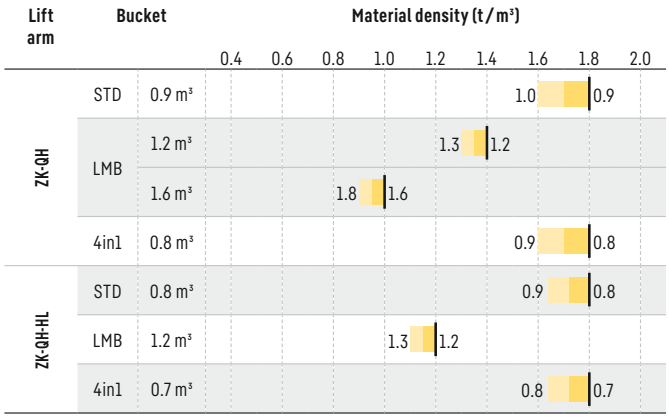
[2)] Payload is limited by FEM II fork carrier and forks to 2,500 kg

[3)] According to EN 474-3

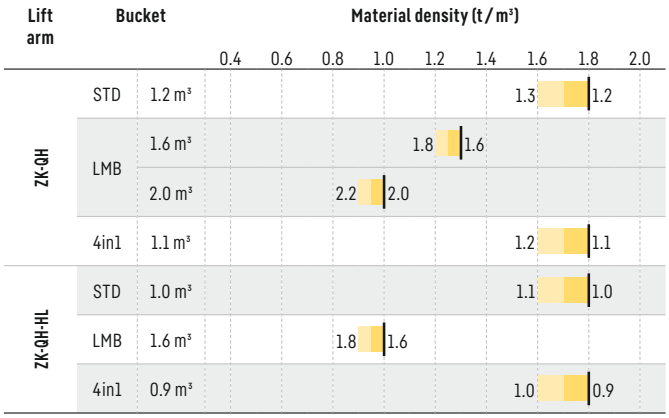
STD = Standard lift arm length
HL = High Lift
ZK-QH = Z-bar linkage incl. quick hitch

Bucket selection

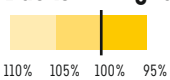
L 507



L 509



Bucket filling factor



Lift arm

ZK-QH	Z-bar linkage with quick hitch, standard lift arm length
ZK-QH-HL	Z-bar linkage with quick hitch, High Lift

Bucket

STD	Liebherr bucket with straight base
LMB	Light material bucket
4in1	4 in 1 bucket

Bulk material densities and bucket filling factors

		t/m³	%
Gravel	moist	1.9	105
	dry	1.6	105
	crushed stone	1.5	100
Sand	dry	1.5	105
	wet	1.9	110
Gravel and Sand	dry	1.7	105
	wet	2.0	100
Sand / Clay		1.6	110
Clay	natural	1.6	110
	dry	1.4	110
Clay / Gravel	dry	1.4	110
	wet	1.6	100

		t/m³	%
Earth	dry	1.3	115
	wet excavated	1.6	110
Topsoil		1.1	110
Basalt		1.95	100
Granite		1.8	95
Sandstone		1.6	100
Slate		1.75	100
Bauxite		1.4	100
Limestone		1.6	100
Gypsum	broken	1.8	100
Coke		0.5	110
Slag	broken	1.8	100

		t/m³	%
Glass waste	broken	1.4	100
	solid	1.0	100
Compost	dry	0.8	105
	wet	1.0	110
Wood chips / Saw dust		0.5	110
Paper	shredded / loose	0.6	110
	recovered paper / cardboard	1.0	110
Coal	heavy material density	1.2	110
	light material density	0.9	110
Waste	domestic waste	0.5	100
	bulky waste	1.0	100

Tyres

Tyre types

	Size and tread code		Change of operating weight kg	Width over tyres mm	Change in vertical dimensions * mm	Use
L 507						
Goodyear	405/70R20 Powerload	L2	111	1,960	47	Sand, Gravel, Asphalt (all ground conditions)
Goodyear	405/70R18 Powerload	L2	56	1,950	14	Sand, Gravel, Asphalt (all ground conditions)
Goodyear	365/80R20 Powerload	L2	60	1,910	46	Sand, Gravel, Asphalt (all ground conditions)
Firestone	340/80R18 Duraforce UT	L3	21	1,900	15	Gravel, Asphalt, Industry (all ground conditions)
Firestone	405/70R18 Duraforce UT	L3	92	1,960	23	Gravel, Asphalt, Industry (all ground conditions)
Firestone	365/80R20 Duraforce UT	L3	80	1,920	53	Gravel, Asphalt, Industry (all ground conditions)
Firestone	400/70R20 Duraforce UT	L3	122	1,950	43	Gravel, Asphalt, Industry (all ground conditions)
Michelin	400/70R20 BIBLOAD	L3	96	1,950	38	Gravel, Asphalt, Industry (firm ground conditions)
Michelin	400/70R20 XMCL	L2	112	1,960	44	Earthworks, Green area (all ground conditions)
Mitas	365/70R18 EM-01	L2	0	1,920	0	Gravel, Asphalt (all ground conditions)
Mitas	405/70R18 EM-01	L2	56	1,960	25	Gravel, Asphalt (all ground conditions)
Mitas	405/70R20 EM-01	L2	92	1,960	50	Gravel, Asphalt (all ground conditions)
Nokian	400/70R20 Hakkapeliitta TRI	L2	112	1,950	48	Winter tyres, Gravel, Asphalt (all ground conditions)
Trelleborg	400/70R20 TH400	L2	106	1,950	38	Earthworks, Green area (all ground conditions)
L 509						
Goodyear	405/70R20 Powerload	L2	55	2,090	22	Sand, Gravel, Asphalt (all ground conditions)
Goodyear	405/70R18 Powerload	L2	0	2,080	– 11	Sand, Gravel, Asphalt (all ground conditions)
Firestone	365/80R20 Duraforce UT	L3	24	2,050	28	Gravel, Asphalt, Industry (all ground conditions)
Firestone	400/70R20 Duraforce UT	L3	66	2,080	18	Gravel, Asphalt, Industry (all ground conditions)
Firestone	405/70R18 Duraforce UT	L3	36	2,090	– 2	Gravel, Asphalt, Industry (all ground conditions)
Michelin	400/70R20 BIBLOAD	L3	40	2,080	13	Gravel, Asphalt, Industry (firm ground conditions)
Michelin	400/70R20 XMCL	L2	56	2,090	19	Earthworks, Green area (all ground conditions)
Mitas	405/70R18 EM-01	L2	0	2,090	0	Gravel, Asphalt (all ground conditions)
Mitas	405/70R20 EM-01	L2	36	2,090	25	Gravel, Asphalt (all ground conditions)
Nokian	400/70R20 Hakkapeliitta TRI	L2	56	2,080	23	Winter tyres, Gravel, Asphalt (all ground conditions)
Trelleborg	400/70R20 TH400	L2	50	2,080	13	Earthworks, Green area (all ground conditions)

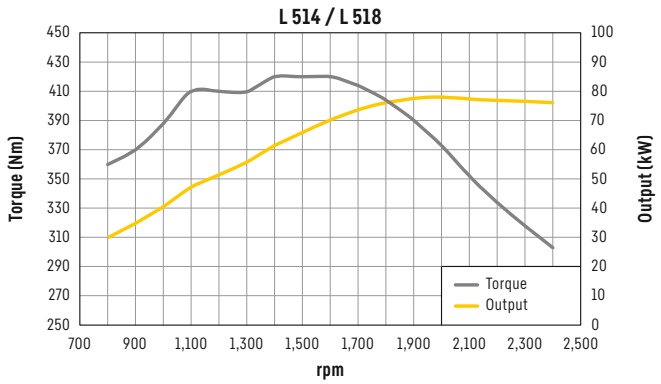
* The stated values are theoretical and may deviate in practice.

Before operating the vehicle with tyre foam filling or tyre protection chains, please discuss this with the Liebherr-Werk Bischofshofen GmbH.

Technical data

Diesel engine

		L 514	L 518
Diesel engine		4045HB551	4045HB551
Design		Water-cooled turbocharged in-series engine, intercooler	
Cylinder inline		4	4
Fuel injection process		Electronic Common Rail high-pressure injection	
Output to	kW / HP	76 / 103	76 / 103
ISO 9249 ~ SAE J1349	at RPM	2,000	2,000
Rated output to			
ISO 14396 / ECE-R.120	kW / HP	76 / 103	76 / 103
Nominal speed	at RPM	2,400	2,400
Max. torque to	Nm	420	420
ISO 14396	at RPM	1,400	1,400
Displacement	litres	4.5	4.5
Bore / Stroke	mm	106 / 127	106 / 127
Stage V			
Harmful emissions values		According to regulation (EU) 2016 / 1628	
Emission control		SCR technology and closed diesel particle filter system	
Air cleaner system		Dry type filter with main and safety element	
Electrical system			
Operating voltage	V	12	12
Battery	Ah	100	100
Alternator	V / A	12 / 120	12 / 120
Starter	V / kW	12 / 4.2	12 / 4.2



Driveline

	L 514 Stereo L 518 Stereo	L 514 Speeder L 518 Speeder
Hydrostatic driveline		
Design	Continuous, swash plate type variable flow pump and variable axial piston motor in closed loop circuit	2-speed automated gearbox, swash plate type variable flow pump and variable axial piston motor in closed loop circuit
Filtration	Suction return line filter for closed circuit	
Control	By travel and inching pedal. The inching pedal makes it possible to control the tractive and thrust forces steplessly at full engine speed. The Liebherr control lever is used to control forward and reverse travel	
Travel speed range	Speed range 1: 0–8 km/h Speed range A1–2: 0–25 km/h Forward and reverse with tyre size 17.5R25 Speeds quoted apply with the tyres indicated as standard on loader model.	Speed range 1: 0–18 km/h Speed range A1–2: 0–40 km/h*

*Configuration, tyres and mounting tools can influence the maximum speed.

Brakes

	L 514 Stereo L 518 Stereo	L 514 Speeder L 518 Speeder
Service brake	Wear-free service brake due to hydrostatic driveline, applied to all four wheels and addtional hydraulically activated drum brake	Wear-free service brake due to hydrostatic driveline, applied to all four wheels and addtional dual-circuit brake system, drum brake and wet multi-disc brake located in the front axle
Parking brake	Negative brake system on the drum brake	Negative brake system in the front axle acting on the wet multi-disc brakes

The braking system meets the requirements of the ISO 3450.

Axles

		L 514	L 518
Four-wheel drive			
Front axle		Fixed	
Rear axle		Axle pivot steering, with 5° oscillating angle to each side	
Height of obstacles which can be driven over	mm	600 with all four wheels remaining in contact with the ground	600
Differentials		Automatic multi-disc limited slip differentials with 45 % locking action in both axles	
Reduction gear		Planetary final drive in wheel hubs	
Track width		1,870 mm with tyres indicated as standard	

Steering

Design		Stereo steering system, hydraulic servo power steering. Central oscilating frame articulation with damper element in combination with rear-axle pivot steering
Angle of articulation		30° to each side
Angle of oscillation – centre-pivot steering		5° to each side
Max. pressure	bar	180

Attachment hydraulics

		L 514	L 518
Design		Gear pump to supply the hydraulic and steering systems (via priority valve)	
Cooling		Hydraulic oil cooling using thermostatically controlled fan	
Filtration		Return line filter in the hydraulic reservoir	
Control		Liebherr control lever, hydraulically operated, with load-dependent delivery rate distribution, 1st and 2nd additonal hydraulic function are electrically, proportional controlled	
Lifting function		Lifting, neutral, lowering Float position controlled by Liebherr control lever with detent, automatic hoist kick out optional	
Tilt function		Tilt back, neutral, dump Automatic bucket return to dig	
Max. flow	l/min.	115	115
Max. pressure	bar	240	280

Attachment

		L 514	L 518
Geometry		Powerful Z-bar linkage with tilt cylinder, hydraulic quick hitch optional	
Bearings		Sealed	
Cycle time at nominal load		ZK	ZK
Lifting	s	6.9	6.9
Dumping	s	3.0	3.0
Lowering (empty)	s	4.9	4.9

Cab

		L 514	L 518
Design		Elastic mounted, noise-proof cab ROPS roll over protection per EN ISO 3471 / EN 474-1 FOPS falling objects protection per EN ISO 3449 / EN 474-3, Cat. II Operator's door with 180° opening angle with rigid window, fold-out window on right with 12° gap opener or 180° opening, single-pane safety glass ESG, heated rear window ESG, all windows are tinted. Continuously adjustable steering column	
Liebherr operator's seat		5 way adjustable, vibration-damped operator's seat "Standard" (mechanically sprung, adjustable to operator's weight), Liebherr control lever mounted into the operator's seat as standard	
Cab heating and ventilation		Fresh / recirculated air mode, cab heating via cooling water, arrangement of the air nozzles ensures quick defrosting and defogging of the windows, electrically heated rear window. The air-conditioning system contains fluorinated greenhouse gases.	
Refrigerant		R1234yf	R1234yf
Global warming potential (GWP EU)		0,501	0,501
Quantity	(g)	1.050	1.050
CO_2 equivalent	(t)	0,00053	0,00053
Vibration emissions			
Hand / arm vibrations		≤ 2.5 m/s², according with ISO 5349-1:2001	
Whole-body vibrations		≤ 0.5 m/s², complies with technical report ISO/TR 25398:2006	
Measuring inaccuracy		According with standard EN 12096:1997	

Sound level

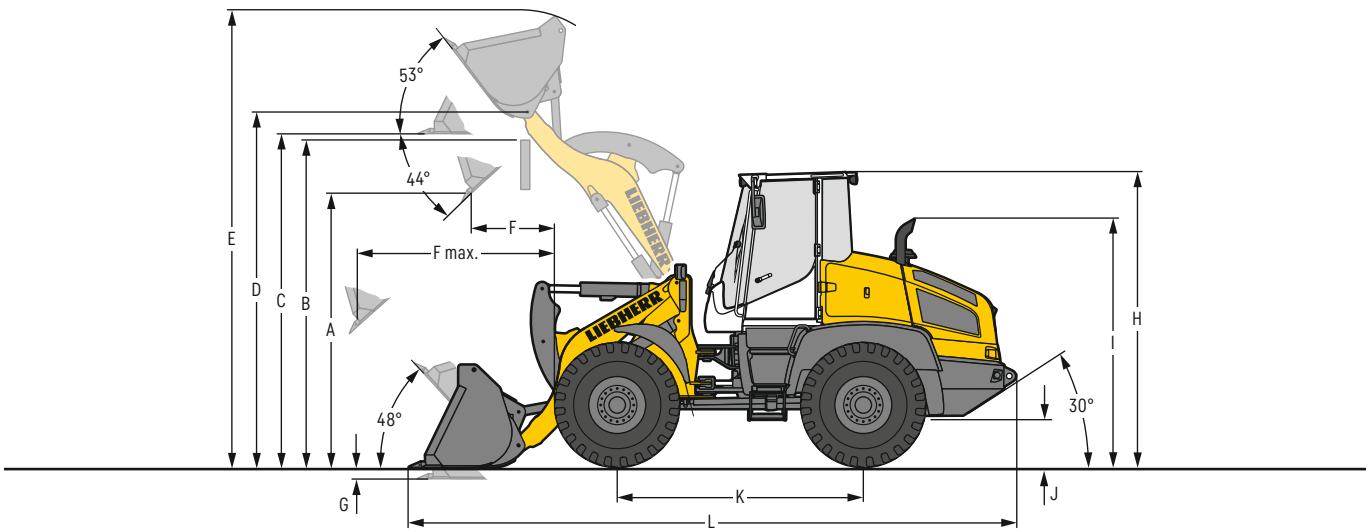
		L 514	L 518
Sound pressure level to ISO 6396			
L_{pA} (inside cab)	dB(A)	70	70
Sound power level to 2000/14/EC			
L_{WA} (surround noise)	dB(A)	101	101

Capacities

		L 514 Stereo	L 514 Speeder	L 518 Stereo	L 518 Speeder
Fuel tank	l	155	155	155	155
DEF tank	l	18	18	18	18
Engine oil (inclusive filter change)	l	14	14	14	14
Travel gear / rear axle	l	1	2	1	2
Coolant	l	21	21	21	21
Front axle / differential	l	7.5	7.5	7.5	7.5
Rear axle / differential	l	7.5	7.5	7.5	7.5
Front axle / wheel hubs	l	1.5	1.5	4	4
Rear axle / wheel hubs	l	1.5	1.5	4	4
Hydraulic tank	l	72	72	72	72
Hydraulic system, total	l	115	115	115	115

Dimensions

Z-bar linkage



Liebherr bucket with straight base

			L 514			L 518	
		STD	STD	HL	STD	STD	HL
Geometry		ZK	ZK-QH	ZK-QH	ZK	ZK-QH	ZK-QH
Cutting tools		T	T	T	T	T	T
Lift arm length	mm	2,400	2,400	2,645	2,400	2,400	2,645
Bucket capacity according to ISO 7546 **	m³	1.5	1.4	1.3	1.7	1.5	1.4
Specific material density	t/m³	1.8	1.8	1.6	1.8	1.8	1.6
Bucket width / Bucket weight	mm	2,400 / 620	2,400 / 590	2,400 / 540	2,400 / 655	2,400 / 565	2,400 / 590
A Dumping height at max. lift height and 44° discharge	mm	2,915	2,915	3,170	2,875	2,835	3,140
B Dump-over height	mm	3,350	3,370	3,645	3,350	3,370	3,645
C Max. height of bucket bottom	mm	3,490	3,500	3,785	3,485	3,480	3,780
D Max. height of bucket pivot point	mm	3,720	3,720	4,010	3,720	3,720	4,010
E Max. operating height	mm	4,735	4,795	5,020	4,770	4,805	5,085
F Reach at max. lift height and 44° discharge	mm	820	785	860	865	905	860
F max. Max. reach at 44° discharge	mm	1,640	1,630	1,915	1,680	1,725	1,935
G Digging depth	mm	75	70	125	80	70	125
H Height above operator's cab	mm	3,080	3,080	3,080	3,080	3,080	3,080
I Height above exhaust	mm	2,575	2,575	2,575	2,575	2,575	2,575
J Ground clearance	mm	430	430	430	430	430	430
K Wheelbase	mm	2,600	2,600	2,600	2,600	2,600	2,600
L Overall length	mm	6,400	6,360	6,750	6,445	6,500	6,775
Turning circle radius over tyres	mm	4.200	4.200	4.200	4.200	4.200	4.200
Turning circle radius over outside bucket edge	mm	4,510	4,450	4,675	4,560	4,565	4,725
Breakout force (SAE)	kN	73	68	70	80	75	67
Tipping load, straight *	kg	6,280	6,095	5,275	7,160	6,860	5,720
Tipping load, fully articulated *	kg	5,750	5,575	4,825	6,550	6,280	5,230
Operating weight *	kg	8,860	9,070	9,120	9,190	9,320	9,440
Tyre size			17.5R25 L3			17.5R25 L3	

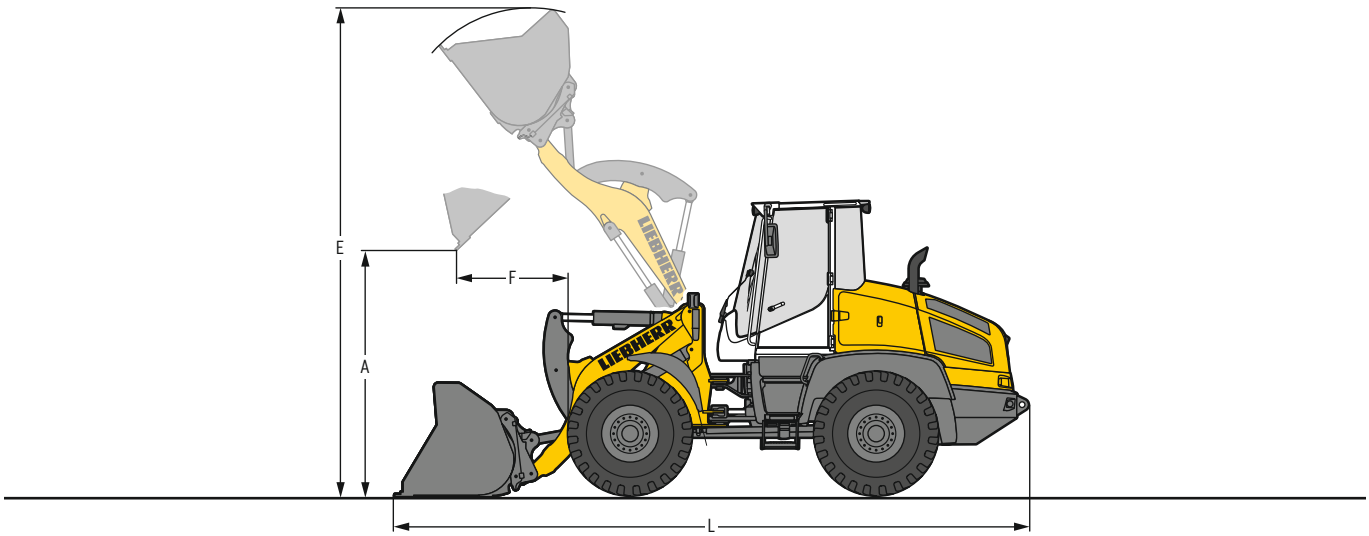
* The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS / FOPS cab and the operator.
Different tyres and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

** Actual bucket capacity may be approx. 10 % larger than the calculation according to ISO 7546 standard. The degree to which the bucket can be filled depends on the material – see page 30.

STD = Standard lift arm length
HL = High Lift
ZK = Z-bar linkage
ZK-QH = Z-bar linkage incl. quick hitch
T = Welded-on tooth holder with add-on teeth

Dimensions

Z-bar linkage



Light material bucket – heavy material density

		L 514		L 518	
		STD	HL	STD	HL
Geometry		ZK-QH	ZK-QH	ZK-QH	ZK-QH
Cutting tools		BOCE	BOCE	BOCE	BOCE
Bucket capacity	m^3	2.0	2.0	2.5	2.0
Specific material density	t/m^3	1.3	1.0	1.1	1.2
Bucket width	mm	2,500	2,500	2,500	2,500
A Dumping height at max. lift height	mm	2,745	3,020	2,630	3,020
E Max. operating height	mm	4,970	5,265	5,105	5,265
F Reach at maximum lift height	mm	1,010	1,020	1,130	1,020
L Overall length	mm	6,540	6,865	6,730	6,865
Tipping load, straight*	kg	5,680	4,955	6,395	5,370
Tipping load, fully articulated*	kg	5,200	4,535	5,850	4,915
Operating weight*	kg	9,250	9,350	9,610	9,625
Tyre size		17.5R25 L3		17.5R25 L3	

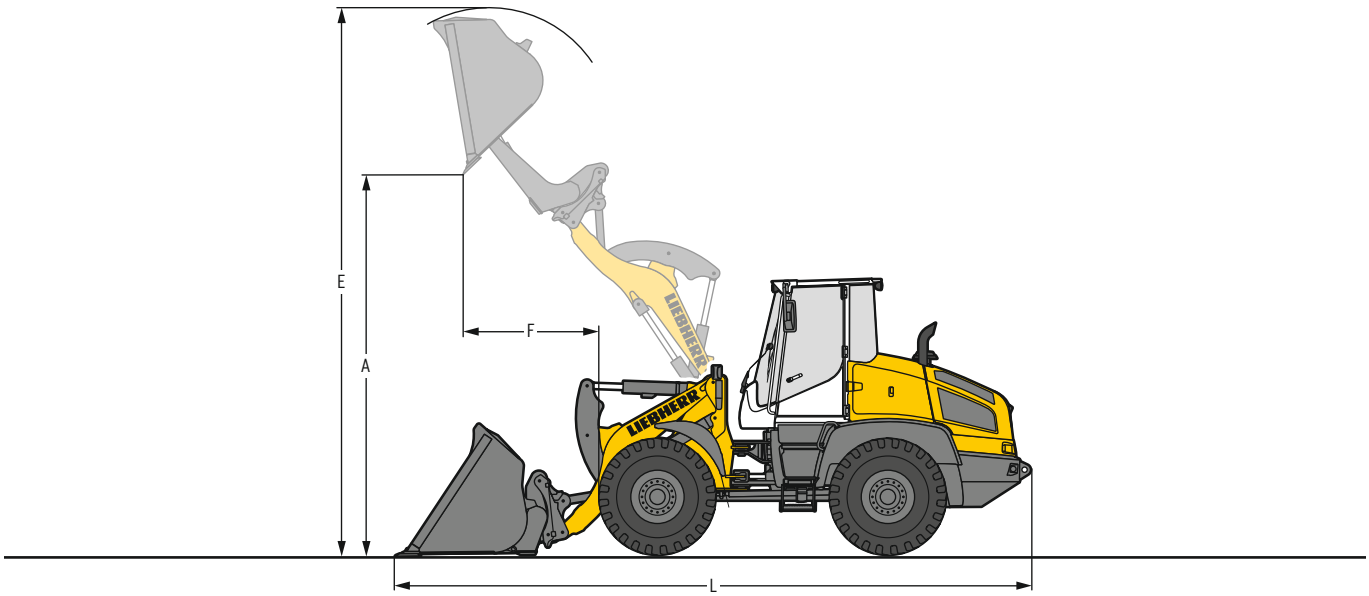
* The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS / FOPS cab and the operator.
Different tyres and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

For wheel loaders with large light material buckets and high-dump buckets or log grapples, we supply visual aids such as mirrors or cameras for front area monitoring that meet the requirements of the ISO 5006:2017 field of vision test.

STD = Standard lift arm length
HL = High Lift
ZK-QH = Z-bar linkage incl. quick hitch
BOCE = Bolt-on cutting edge

Dimensions

Z-bar linkage



High-dump bucket – heavy material density

		L 514		L 518	
		STD	HL	STD	HL
Geometry		ZK-QH	ZK-QH	ZK-QH	ZK-QH
Cutting tools		BOCE	BOCE	BOCE	BOCE
Bucket capacity	m³	2.2	1.8	2.5	2.0
Specific material density	t/m³	1.0	1.0	1.0	1.0
Bucket width	mm	2,500	2,200	2,500	2,490
A Dumping height at max. lift height	mm	4,200	4,580	4,200	4,560
E Max. operating height	mm	5,760	6,060	5,850	5,970
F Reach at maximum lift height	mm	1,400	1,470	1,380	1,490
L Overall length	mm	6,965	7,300	6,965	7,240
Tipping load, straight*	kg	4,655	4,150	5,600	4,550
Tipping load, fully articulated*	kg	4,260	3,800	5,120	4,160
Operating weight*	kg	9,985	9,870	10,280	10,050
Tyre size		17.5R25 L3		17.5R25 L3	

High-dump bucket – light material density

		L 514		L 518	
		STD	HL	STD	HL
Geometry		ZK-QH	ZK-QH	ZK-QH	ZK-QH
Cutting tools		BOCE	BOCE	BOCE	BOCE
Bucket capacity	m³	3.5	3.0	4.0	3.5
Specific material density	t/m³	0.5	0.5	0.5	0.5
Bucket width	mm	2,700	2,700	2,700	2,700
A Dumping height at max. lift height	mm	4,295	4,410	4,275	4,615
E Max. operating height	mm	6,045	6,115	6,200	6,355
F Reach at maximum lift height	mm	1,540	1,400	1,525	1,560
L Overall length	mm	7,170	7,235	7,170	7,500
Tipping load, straight*	kg	4,455	4,125	5,495	4,230
Tipping load, fully articulated*	kg	4,075	3,770	5,025	3,870
Operating weight*	kg	9,935	9,930	10,445	10,305
Tyre size		17.5R25 L3		17.5R25 L3	

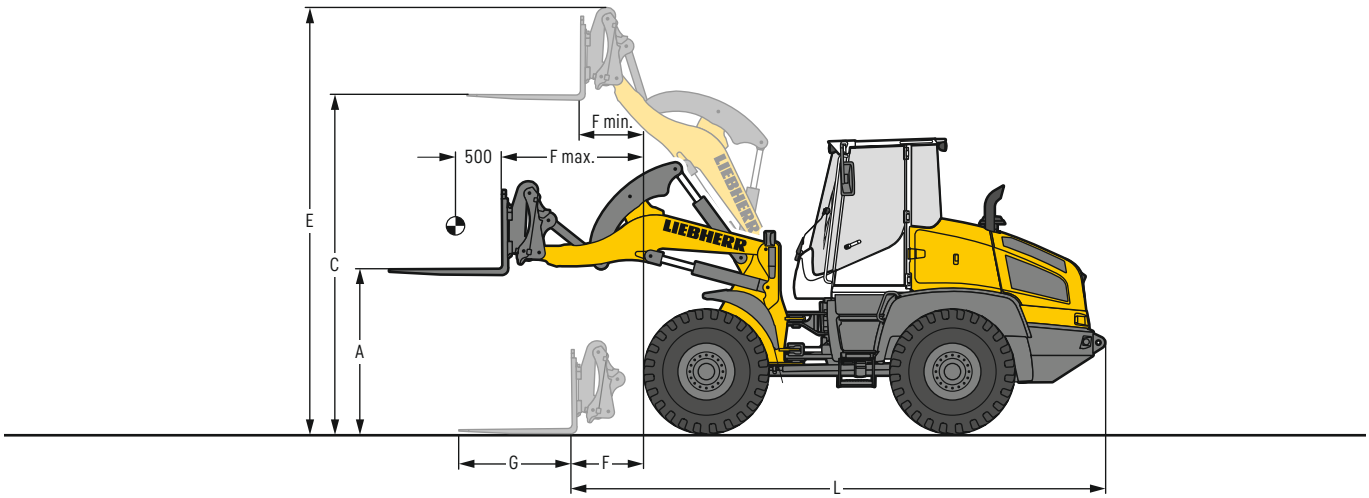
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For wheel loaders with large light material buckets and high-dump buckets or log grapples, we supply visual aids such as mirrors or cameras for front area monitoring that meet the requirements of the ISO 5006:2017 field of vision test.

STD = Standard Hubgerüst-Länge
HL = High Lift
ZK-SW = Z-Kinematik inkl. Schnellwechseleinrichtung
USM = Unterschraubmesser

Dimensions

Z-bar linkage



FEM III fork carrier and fork

			L 514		L 518	
			STD	HL	STD	HL
Geometry			ZK-QH	ZK-QH	ZK-QH	ZK-QH
A	**Lifting height at max. reach**	**mm**	1,745	1,725	1,745	1,725
C	**Max. lifting height**	**mm**	3,575	3,865	3,575	3,865
E	**Max. operating height**	**mm**	4,495	4,785	4,495	4,785
F	**Reach at loading position**	**mm**	765	1,095	765	1,095
F max.	**Max. reach**	**mm**	1,460	1,705	1,460	1,705
F min.	**Reach at max. lifting height**	**mm**	615	645	615	645
G	**Fork length**	**mm**	1,200	1,200	1,200	1,200
L	**Length – basic machine**	**mm**	5,640	5,970	5,640	5,970
Tipping load, straight*		**kg**	4,500	3,980	5,145	4,550
Tipping load, fully articulated*		**kg**	4,120	3,640	4,700	4,160
Recommended payload for uneven ground = 60% of tipping load, articulated[1)]		**kg**	2,475	2,185	2,825	2,495
Recommended payload for smooth surfaces = 80% of tipping load, articulated[1)]		**kg**	3,300	2,900	3,765	3,330
Operating weight*		**kg**	8,930	9,030	9,200	9,300
Tyre size			17.5R25 L3		17.5R25 L3	

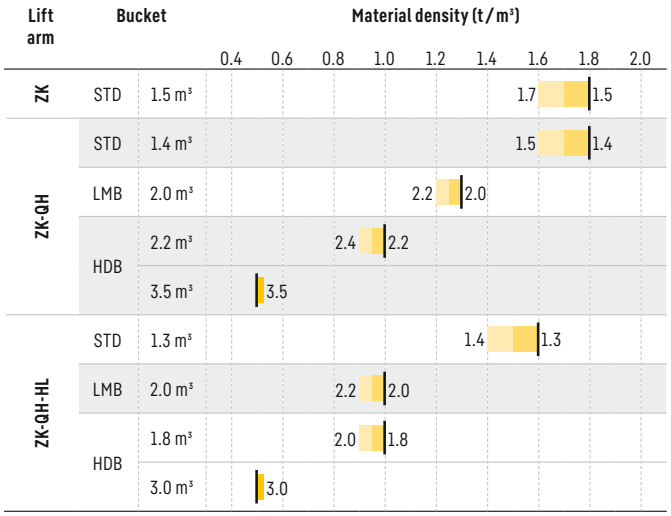
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Different tyres and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

[1)] According to EN 474-3

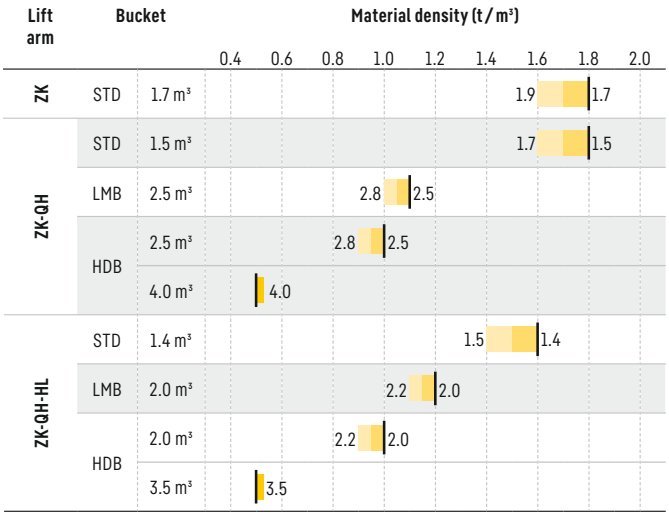
STD = Standard lift arm length
HL = High Lift
ZK-QH = Z-bar linkage incl. quick hitch

Bucket selection

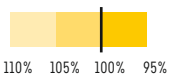
L 514



L 518



Bucket filling factor



Lift arm

ZK	Z-bar linkage, standard lift arm length
ZK-QH	Z-bar linkage with quick hitch, standard lift arm length
ZK-QH-HL	Z-bar linkage with quick hitch, High Lift

Bucket

STD	Liebherr bucket with straight base
LMB	Light material bucket
HDB	High-dump bucket

For wheel loaders with large light material buckets and high-dump buckets or log grapples, we supply visual aids such as mirrors or cameras for front area monitoring that meet the requirements of the ISO 5006:2017 field of vision test.

Bulk material densities and bucket filling factors

		t/m³	%
Gravel	moist	1.9	105
	dry	1.6	105
	crushed stone	1.5	100
Sand	dry	1.5	105
	wet	1.9	110
Gravel and Sand	dry	1.7	105
	wet	2.0	100
Sand / Clay		1.6	110
Clay	natural	1.6	110
	dry	1.4	110
Clay / Gravel	dry	1.4	110
	wet	1.6	100

		t/m³	%
Earth	dry	1.3	115
	wet excavated	1.6	110
Topsoil		1.1	110
Basalt		1.95	100
Granite		1.8	95
Sandstone		1.6	100
Slate		1.75	100
Bauxite		1.4	100
Limestone		1.6	100
Gypsum	broken	1.8	100
Coke		0.5	110
Slag	broken	1.8	100

		t/m³	%
Glass waste	broken	1.4	100
	solid	1.0	100
Compost	dry	0.8	105
	wet	1.0	110
Wood chips / Saw dust		0.5	110
Paper	shredded / loose	0.6	110
	recovered paper / cardboard	1.0	110
Coal	heavy material density	1.2	110
	light material density	0.9	110
Waste	domestic waste	0.5	100
	bulky waste	1.0	100

Tyres

Tyre types

	Size and tread code		Change of operating weight kg	Width over tyres mm	Change in vertical dimensions * mm	Use
L 514						
Bridgestone	550/65R25 VTS	L3	420	2,470	11	Gravel (all ground conditions)
Goodyear	17.5R25 RL-4K	L4	588	2,370	41	Gravel, Industry, Stone (firm ground conditions)
Goodyear	17.5R25 RL-5K	L5	712	2,370	41	Stone, Scrap, Recycling (firm ground conditions)
Michelin	17.5R25 XLD D2A	L5	396	2,370	36	Stone, Mining spoil (firm ground conditions)
L 518						
Bridgestone	550/65R25 VTS	L3	434	2,470	11	Gravel (all ground conditions)
Goodyear	17.5R25 RL-4K	L4	602	2,370	41	Gravel, Industry, Stone (firm ground conditions)
Goodyear	17.5R25 RL-5K	L5	726	2,370	41	Stone, Scrap, Recycling (firm ground conditions)
Michelin	17.5R25 XLD D2A	L5	410	2,370	36	Stone, Mining spoil (firm ground conditions)
L 514 / L 518						
Bridgestone	17.5R25 VJT	L3	134	2,360	17	Bulk material (firm ground conditions)
Bridgestone	17.5R25 VUT	L2	– 4	2,360	3	Gravel, Earthworks, Clay (all ground conditions)
Goodyear	17.5R25 TL-3A+	L3	276	2,380	22	Sand, Gravel, Earthworks, Clay (all ground conditions)
Michelin	17.5R25 XHA	L3	43	2,370	– 1	Sand, Gravel (all ground conditions)
Michelin	17.5R25 XHA2	L3	0	2,380	0	Sand, Gravel (all ground conditions)
Nokian	17.5R25 Hakkapeliitta Loader	L2	40	2,370	10	Winter tyres, Gravel, Asphalt (all ground conditions)

* The stated values are theoretical and may deviate in practice.

Before operating the vehicle with tyre foam filling or tyre protection chains, please discuss this with the Liebherr-Werk Bischofshofen GmbH.

Tipping load



ISO 14397-1

What is tipping load?
Load at centre of gravity of working equipment, so that the wheel loader just begins to tip over the front axle.
This is the most unfavourable static-load position for the wheel loader. Lifting arms horizontal, wheel loader fully articulated at centre pivot.

Pay load.
The pay load must not exceed 50 % of the tipping load when articulated.
This is equivalent to a static stability-margin factor of 2.0.

Bucket capacity.
The bucket volume is determined from the pay load.

$$\text{Pay load} = \frac{\text{Tipping load, articulated}}{2}$$

$$\text{Bucket capacity} = \frac{\text{Pay load (t)}}{\text{Specific bulk weight of material (t/m}^3\text{)}}$$

The Liebherr wheel loaders

Wheel loader



		L 504 Compact	L 506 Compact	L 507 Stereo	L 508 Compact	L 509 Stereo	L 514 Stereo
Tipping load	**kg**	3.000	3.500	3.750	3.900	4.430	5.750
Bucket capacity	**m³**	0,7	0,8	0,9	1,0	1,2	1,5
Operating weight	**kg**	4.600	4.970	5.550	5.700	6.390	8.860
Engine output	**kW / HP**	34 / 46	47,5 / 64	50 / 68	47,5 / 64	54 / 73	76 / 103

Wheel loader



		L 518 Stereo	L 526	L 538	L 546	L 550 XPower
Tipping load	**kg**	6,550	8,730	9,650	11,010	12,500
Bucket capacity	**m³**	1.7	2.2	2.6	3.0	3.4
Operating weight	**kg**	9,190	13,170	14,520	15,410	18,550
Engine output	**kW / HP**	76 / 103	116 / 158	129 / 175	138 / 188	163 / 222

Wheel loader



		L 556 XPower	L 566 XPower	L 576 XPower	L 580 XPower	L 586 XPower
Tipping load	**kg**	13,750	15,900	17,600	19,200	21,600
Bucket capacity	**m³**	3.7	4.2	4.7	5.2	6.0
Operating weight	**kg**	19,600	23,900	25,700	27,650	32,600
Engine output	**kW / HP**	183 / 249	203 / 276	218 / 296	233 / 317	263 / 358

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Equipment

Basic wheel loader	L 507	L 509	L 514	L 518
Air pre-cleaner	+	+	+	+
Automatic central lubrication system	+	+	+	+
Auxiliary heater (Additional heating with engine preheating)	–	–	+	+
Battery main switch (lockable)	●	●	●	●
Combined inching-braking system	●	●	●	●
Complete drive shaft protection	–	–	+	+
Connection for electrical equipment 7-pole	+	+	+	+
Cooling water pre-heating 220 V	+	+	+	+
Crash protection, rear	–	–	+	+
DEF tank	–	–	●	●
Diesel particle filter	●	●	–	–
Fluff trap for radiator	–	–	+	+
Fuel pre-filter	●	●	●	●
Fuel pre-filter with pre-heating	–	–	+	+
Guard for headlights	+	+	+	+
Large-mesh radiator	–	–	+	+
Liebherr biodegredable hydraulic oil	+	+	+	+
Load lashing lugs	●	●	●	●
Lockable doors and engine hood	●	●	●	●
Multi-disc limited slip differentials in both axles	●	●	●	●
Parking brake	●	●	●	●
Power socket rear (13-pole, 12 V)	+	+	+	+
Pre-heat system for cold starting	●	●	●	●
Rear license panel light	+	+	+	+
Reversible fan drive	+	+	+	+
Ride control	+	+	+	+
SCR technology incl. diesel particle filter	–	–	●	●
Special paint	+	+	+	+
Speed limitation 20 km/h as a factory preset	●	●	+	+
Speed limitation adjustable on key	+	+	+	+
Speeder version	+	+	+	+
Tool kit	●	●	●	●
Towing hitch	●	●	●	●
Tractive force adjustment	+	+	●	●

Equipment	L 507	L 509	L 514	L 518
1st and 2nd electro-hydraulic, proportional additional function	+	+	+	+
1st electro-hydraulic, proportional additional function	+	+	+	+
Automatic bucket return	+	+	●	●
Automatic hoist kick-out	+	+	+	+
Continuous mode, additional function	+	+	+	+
Control lever lock	+	+	+	+
Comfort operation – Stroke limit damping during tipping – Automatic bucket return-to-dig – Automatic lift arm position and lowering programmable – Visualisation of the equipment position	+	+	–	–
Float position	●	●	●	●
Fork carrier and pallet forks	+	+	+	+
High-dump bucket	+	+	+	+
High-Flow hydraulic	+	+	–	–
Hydraulic connections rear	+	+	+	+
Hydraulic quick hitch	●	●	+	+
Hydraulic quick hitch Solidlink	+	+	–	–
Lift arm Z-bar linkage	●	●	●	●
Lift arm Z-bar linkage High Lift	–	+	+	+
Light material bucket	+	+	+	+
Load holding valves	+	+	+	+
Loading buckets incl. a range of cutting tools	+	+	+	+
Preparation for hydraulic quick hitch Solidlink (quick hitch without Solidlink block)	+	+	–	–
Telescopic wheel loader (Further information can be found in the brochure “L 509 Tele”)	–	+	–	–
Tilt cylinder protection	+	+	+	+
Weighing device	–	–	+	+
Working hydraulics lockout	●	●	●	●

● = Standard
+ = Option
– = not available

Equipment

Operator's cab	L 507	L 509	L 514	L 518
3 way continuously adjustable steering column (height-adjustable, tilting, folding)	+	+	+	+
Adaptive working lighting	–	–	+	+
Air conditioning system	+	+	+	+
Amber beacon LED	+	+	+	+
Clothes hook	●	●	●	●
Comfort Grammer operator's seat with longitudinal absorption, seat heating and 2-point seatbelt	+	+	+	+
Cup holder	●	●	●	●
Display with tilting and height adjustment function	●	●	●	●
Electronical theft protection with code	+	+	+	+
Electronical theft protection with key	–	–	+	+
Emergency exit	●	●	●	●
Exterior mirror, tiltable	●	●	●	●
Exterior mirror, tiltable and heatable	+	+	+	+
Fire extinguisher in cab 2 kg	+	+	+	+
First aid kit	+	+	+	+
Floor mat	●	●	●	●
Fold-out window right 180°	●	●	●	●
Headlights front, double design, LED	+	+	+	+
Headlights front, single design, halogen	–	–	●	●
Headlights front, single design, LED	+	+	+	+
Headlights rear, double design, LED	+	+	+	+
Headlights rear, single design, LED	+	+	+	+
Hot-water heater with defroster and recirculated air mode	●	●	●	●
Inching device hand operated	+	+	+	+
Interior rear-view mirror	●	●	●	●
Liebherr Connect				
MyLiebherr Maintenance	+	+	+	+
MyLiebherr Performance	+	+	+	+
MyLiebherr Portal*	●	●	●	●
Liebherr control lever moving with operator's seat (incl. travel direction)	●	●	●	●
Liebherr control lever with mini-joystick for 1st and 2nd hydraulic, proportional additional function moving with operator's seat	+	+	+	+
Operating hour meter (integrated in display unit)	●	●	●	●

Operator's cab	L 507	L 509	L 514	L 518
Particle filter F5	●	●	●	●
Power socket 12V	●	●	●	●
Preparation for radio installation	+	+	+	+
Radio Liebherr "Comfort" (DAB+ / USB / AUX / BLUETOOTH / handsfree set)	+	+	+	+
Radio Liebherr "Standard" (USB / AUX)	+	+	+	+
Rear window heated electrically	●	●	●	●
Sliding window left	+	+	+	+
Slipcover for operator seat	+	+	+	+
Smartphone holder with wireless charging function	+	+	–	–
Soundproof ROPS / FOPS cab	●	●	●	●
Standard Grammer operator's seat with mechanical absorption and 2-point seatbelt	●	●	●	●
Steering column fixed	●	●	–	–
Steering column folding	●	●	●	●
Storage box	●	●	●	●
Storage compartment	●	●	●	●
Sunblind front / rear	+	+	+	+
USB charging port	●	●	–	–
Variable speed limit, fixed speed	+	+	+	+
Wide angle mirror	+	+	+	+
Windscreen guard	+	+	+	+
Wipe system front / rear	●	●	●	●

Safety	L 507	L 509	L 514	L 518
Active personnel detection at the rear	–	–	+	+
Back-up alarm acoustical / visual	+	+	+	+
Country-specific versions	+	+	+	+
Rear space monitoring with camera (integrated in display unit)	+	+	+	+

Here you can download our wheel loader brochures:

● = Standard
+ = Option
– = not available
*** = activation required free of charge**

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