

Wheel Loaders

L 526 - L 546

Tipping load:
7,700 – 10,500 kg

Engine:
Stage IV / Tier 4f



LIEBHERR

L 526

Tipping load, articulated:

7,700 kg

Bucket capacity:

2.1 m³

Operating weight:

11,250 kg

Engine output (ISO 14396):

100 kW/136 HP

L 538

Tipping load, articulated:

9,500 kg

Bucket capacity:

2.6 m³

Operating weight:

13,500 kg

Engine output (ISO 14396):

111 kW/151 HP

L 546

Tipping load, articulated:

10,500 kg

Bucket capacity:

2.8 m³

Operating weight:

14,200 kg

Engine output (ISO 14396):

120 kW/163 HP

Performance

Power for Increased
Productivity



Economy

Minimum Costs at
High Handling Capacity

Reliability

Robustness and Quality
for Durable Machines

Comfort

Maximum Operator Comfort
for More Productivity

Maintainability

Time and Cost Savings
Through Simple Maintenance



Performance



Power for Increased Productivity

The innovative Liebherr driveline considerably increases working efficiency. Quick working cycles, high tipping loads and high machine availability lead to increased handling capacity.

Powerful and Efficient Machine Concept

Highest Level of Performance

The high-performance Liebherr wheel loaders L 526 – L 546 are genuine all-rounders that impress in every field of application due to their great productivity and efficiency. High tipping loads at low operating weight permit a high handling capacity. Strong construction and rugged steel components result in reliable and powerful performance. All of the components are perfectly adapted to each other, making the all-round loaders the perfect solution for all applications, especially for industrial use. The wide variety of options for specific requirements also increases the range of possible applications.

Continuously Variable Transmission

The Liebherr driveline allows continuous regulation of acceleration in all speed ranges, without noticeable gear shifting or interruption in tractive force. Powerful working and high driving comfort increases your productivity.

High Handling Capacity

Unnecessary counterweight can be avoided through the unique component mounting position at the rear of the machine. Ideal weight distribution results in higher tipping loads at significantly lower operating weight, compared with conventional wheel loaders. The handling capacity per operating hour increases and fuel consumption is further reduced thanks to the low operating weight.

Flexibility and Versatility

Lift Arm Variants Optimised for the Application

The standard Z-bar linkage provides a large torque in the lower region of the lift arm. The ideal prerequisite for conventional wheel loader applications – simple, quick filling of the bucket leads to high handling capacity.

An alternative is available in the form of the parallel linkage for the entire range of all-round wheel loaders. The parallel linkage boasts a parallel guide arrangement and especially high torque in the upper lifting range. The best solution for industrial use as it allows large attachments to be fitted for transporting heavy loads.

Optimal Bucket Filling

The robust bucket design from Liebherr allows the bucket to be filled quickly and efficiently. Fully filled attachments increase productivity. The bucket's good penetration and simple filling mechanism result in lower fuel consumption.

Wide Range of Applications

The wide range of attachments means the right tool is always to hand. As a result, a multitude of uses can easily be covered. This increases utilisation of the machine and raises productivity. Liebherr wheel loaders can manoeuvre quickly and efficiently thanks to their compact design – the best choice for high handling capacity.

Liebherr Driveline L 526 – L 546

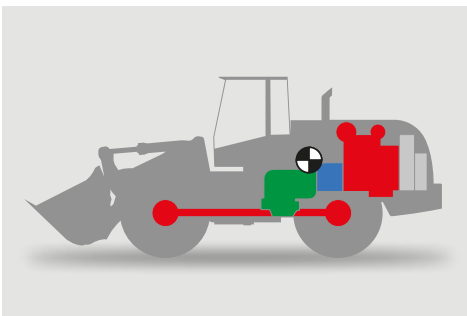
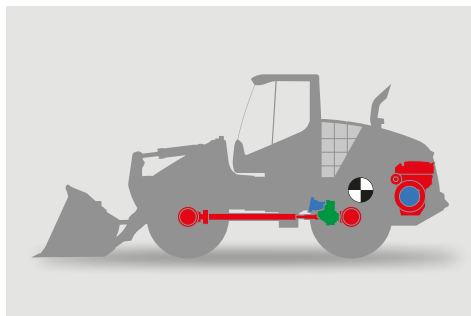
- Optimum weight distribution due to its unique component mounting position
- Higher tipping loads at low operating weight
- Ideal visibility due to its compact design

Conventional Travel Gear

- Centre of gravity in the middle of the machine
- Additional ballast is needed to increase the tipping load and improve stability
- This leads to high operating weight and bad visibility

An All-Purpose Loader

The option to choose between parallel linkage and Z-bar linkage means the right machine is always available for the use specifically required by the customer.



Economy



Minimum Costs at High Handling Capacity

Liebherr wheel loaders make a reliable contribution to commercial success. The fuel-efficient drive concept reduces operating costs and environmental impact at maximum handling capacity.

Low Operating Costs

Lower Fuel Consumption

The Liebherr driveline with Liebherr-Power-Efficiency (LPE) achieves a reduction in fuel consumption of up to 25%. At highest efficiency this reduces operating costs and increases profitability.

Hardly Any Brake Wear

The Liebherr driveline brakes automatically. The service brake only acts as a support and is therefore subject to hardly any wear.

Minimal Tyre Wear

Its continuous traction control, combined with automatic self-locking differential, prevents wheelspin. Productivity is increased and tyre wear reduced by up to 25%.

Save Costs and Protect the Environment

Innovative Exhaust After-Treatment

The exhaust after-treatment system is fitted with a diesel oxidation catalyst (DOC), a diesel particle filter (DPF) and selective catalytic reduction (SCR) so as to reduce exhaust emissions. This time-tested solution is state-of-the-art in this machine class and effectively reduces exhaust emissions.

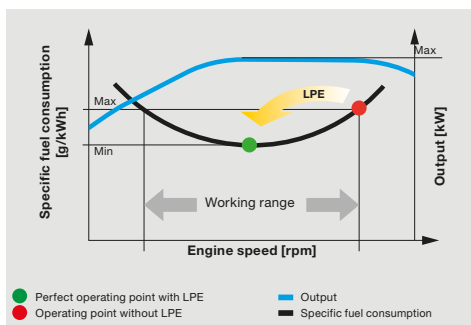
Economical Use of Resources

The lower fuel consumption and efficient exhaust after-treatment cut emissions. This actively saves resources. While actively protecting the environment, Liebherr wheel loaders reduce operating costs.

LiDAT

Efficient Management

LiDAT, Liebherr's own data transmission and positioning system, facilitates efficient management, monitoring and control of the entire fleet park in terms of machinery data recording, data analysis, fleet park management and service. All of the important machinery data can be viewed at any time in a web browser. LiDAT offers you comprehensive work deployment documentation, greater availability thanks to shorter downtimes, faster support from the manufacturer, quicker detection of strain/overload and subsequently a longer service life of the machine as well as greater planning efficiency in your company. This service includes 1 year of use free of charge as standard for the L 526 – L 546 wheel loaders.



Low Fuel Consumption Thanks to Intelligent Machine Control

- Liebherr-Power-Efficiency (LPE) optimises the interaction between diesel engine, gearbox and working hydraulics for maximum efficiency
- LPE – maximum performance from every drop of fuel

Reduced Brake Wear

- Hardly any brake wear due to hydraulic braking action of the driveline

Reduced Tyre Wear

- Continuous traction control prevents the wheels from spinning

Always Be Informed with LiDAT

- Evaluation of machine usage and fuel consumption for economic machine management
- LiDAT comes as standard incl. 1 year free-of-charge use

Reliability



Robustness and Quality for Durable Machines

Liebherr wheel loaders provide maximum performance even under the toughest of operating conditions. Specially-developed components, sophisticated technology and high quality offer a high level of reliability and availability.

OEM Quality Components

Durable and Powerful

Liebherr has many decades of experience in the development, construction and production of components. Ideally adapted to each other, they guarantee a high degree of performance and reliability. Liebherr also develops and produces all steel components. These rugged components ensure the long life of the wheel loaders.

Strenuous endurance tests prove to the strength and quality of the components in use. Even under the toughest of usage conditions, Liebherr wheel loaders satisfy Liebherr's stringent quality standards. This ensures reliable use throughout the entire life time of the machine. Consistently powerful machines increase productivity.

High Safe and Versatile Usage

Liebherr Drive Concept

The components of the tried and tested hydrostatic Liebherr driveline are extremely robust and powerful. This ensures that the machine has a long life time and will work reliably even under the toughest of operating conditions.

Continuous Use

The diesel particle filter can be burned free by active regeneration during operation in the usual manner, thus allowing uninterrupted operation. The long intervals between regeneration increase productivity, save fuel and reduce operating costs.

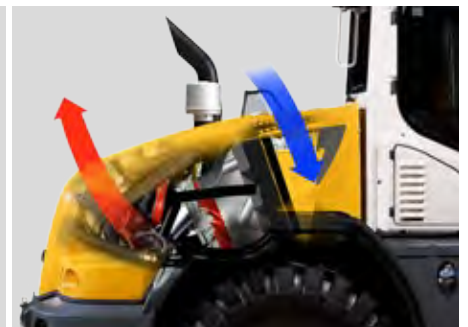
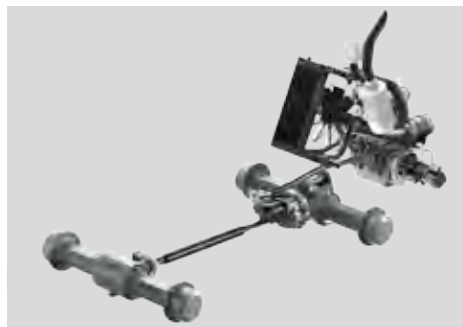
Reliable Cooling System

Optimal Cooling Performance

The cooling system is fitted directly behind the operator's cab and is thus able to take in air which is free of dust. In especially dusty applications, optional equipment such as reversible fan drive, fluff trap for the radiator and large-mesh radiator protect the cooling system from contaminants getting in. This guarantees continuous cooling output while simultaneously reducing cleaning expenses. Minimal cleaning expenses mean more efficient, more cost-effective working.

Controlled Cooling

The cooling fan is driven independently from the diesel engine and produces exactly the cooling air output which is actually required. Heat sensors ensure reliable control.



Powerful Liebherr's Own Components

- Ideal interaction of components to each other for maximum performance
- Maximum quality even under the toughest operating conditions
- Rugged, durable machines for reliable operations

High Machine Availability

- High, safe and versatile usage thanks to robust and powerful components
- Tried and tested exhaust after-treatment system
- Continuous use thanks to active regeneration during operation

Intelligent Cooling System

- Cooling position on the cleanest position of the wheel loader
- High machine availability thanks to lower radiator contamination
- Controlled cooling through thermostatic control for reliable operations

Comfort



Maximum Operator Comfort for More Productivity

The cab design is optimally adapted to the operator's day-to-day requirements. The roomy and ergonomic operator's cab offers perfect conditions for comfortable and productive work.

Clearly Arranged Cab

Productive and Safe Working

The modern, ergonomic cab design allows the operator to work with high concentration without fatigue – this increases safety and productivity. The displays, controls and operator's seat are carefully coordinated to form an ergonomic unit. The operating and control instruments are well laid out and user-friendly. All operation-relevant data can be viewed quickly and efficiently. The high operating comfort allows the operator to work particularly efficiently and safely.

Perfect Visibility

The generous glass surfaces of the cab offer exceptional all-round visibility of the attachment and working area. The design of the engine hood which has been optimised for viewing provides ideal viewing towards the rear as well as monitoring behind the machine from the Liebherr display. This ensures maximum safety for people, the machine and the load, while increasing productivity at the same time.

Well-Being Guaranteed

Optimum storage areas and stowage spaces and optional cool-box increase operator well-being. The optional air conditioning system ensures a pleasant working atmosphere. This gives the operator maximum comfort and high productivity.

Simple and Intuitive Operation

Liebherr Control Lever

The Liebherr control lever, which is built into the operator's seat as standard, allows all working and manoeuvring operations to be performed with a high degree of precision and sensitivity. The optional new electro-hydraulic system allows the operator to programme the lift arm and bucket positions from the cab.

The proportional control of hydraulic attachment is carried out by the Liebherr control lever with mini-joystick. The hydraulic attachment can be controlled with great sensitivity and very ergonomically. The tipping speed for tilting back and dumping can be regulated individually and quickly via the touchscreen display.

Touchscreen Display

The height-adjustable touchscreen display, which comes as standard, allows all operating-relevant machine data to be viewed and configured quickly. Visual and acoustic warning devices ensure high operational reliability.

LIKUFIX

LIKUFIX is a hydraulic quick hitch with an integral automated hydraulic coupling system, which is available as an option. A wide range of hydraulic and mechanical attachments can be changed fully automatically, safely and without any oil leaks direct from the cab in a matter of seconds by pressing a button. LIKUFIX contributes to higher utilisation of the wheel loader, thus increasing operational efficiency.

Exceptional All-Round Visibility

- Unobstructed visibility in all directions through optimal cab and engine hood design
- Generous glass surfaces
- More safety and productivity thanks to exceptional visibility

Liebherr Control Lever with Mini-Joystick (optional)

- Ergonomic and comfortable operation
- Control all driving and operating manoeuvres with a single control lever
- Comfortably programme the hydraulic control from the operator's cab

LIKUFIX

- Hydraulic attachments can be changed in seconds, direct from the cab – fully automatically, safely and without any oil leaks
- Comfort and time saving for increased productivity



Maintainability



Time and Cost Savings Through Simple Maintenance

The most important points for daily maintenance of Liebherr wheel loaders can be reached safely and conveniently from the ground. Quick and safe checks save time and money.

Exceptional Service Accessibility

Efficient and Simple Maintenance

Thanks to the unique mounting position of the components, Liebherr wheel loaders offer exceptional accessibility for maintenance. The positioning of the cooling package directly behind the operator's cab lowers contamination of the cooling system, reducing maintenance and cleaning requirements and saving time and money.

Safe and Free Service Access

All points requiring day-to-day maintenance can be reached comfortably, safely and cleanly. Cleaning of the cooling system is carried out while standing on the machine, anti-slip steps and sturdy handrails provide a high degree of safety.

Short Service Times for More Productivity

The entire engine compartment is accessible via just one access panel. Service points are easy to see and reach. Maintenance work can be carried out comfortably and safely from the ground. This ensures time-saving maintenance and increases productivity.

Strong Service Partner

Safe Partnership with Strong Service

When buying a Liebherr wheel loader the customer not only looks to a long-lived high-end product but also a reliable longterm partnership. A service network combined with a highly-modern central warehouse is available for optimum service and quick replacement part provision. This guarantees short routes and rapid support in the event of service. Round-the-clock if required.

Competent Liebherr Service Offers Maximum Reliability

Comprehensive know-how ensures a first-class execution of all service and maintenance work. This contributes decisively to the availability and profitability of your machine. Employees at Liebherr service partners are trained on an ongoing basis. They have extensive knowledge of quick and safe service performance. They can turn to the expertise of manufacturing plants at any time.

Low Maintenance

- Less contamination of the radiator thanks to its clever position behind the operator's cab
- Quick and safe control saves time and money

Optimum Service Accessibility

- The entire engine compartment is accessible via just one enclosure
- All points for daily maintenance can be reached from the ground
- Short downtimes means more efficiency

Perfect Service for Optimum Machine Availability

- Quick and effective support thanks to an extensive service network
- Replacement parts service with 24-hour delivery
- Quick and reliable service carried out by qualified service specialists



Wheel Loaders L 526 - L 546

Overview

Sturdy Attachment

- + Quick working cycles
 - + Robust, durable lift arm
 - + Flexible in use
 - + Efficient and cost-optimised use by specially adapted lift arm variants
-
- ✓ High-quality hydraulic components
 - ✓ Strong steel construction
 - ✓ Wide range of attachments
 - ✓ Parallel linkage and Z-bar linkage optional

Powerful and Efficient Liebherr Driveline

- + Fuel benefit of up to 25 %
 - + High performance
 - + High safe and versatile usage
 - + Maximum productivity by high tipping load
 - + Tyre wear reduced by up to 25 %
 - + Practically no brake wear
 - + Maximum stability and safety on all terrains
-
- ✓ Most efficient hydrostatic driveline
 - ✓ Drive components optimally suited to each other by LPE
 - ✓ Rugged and durable driveline
 - ✓ Ideal weight distribution by intelligent arrangement of drive components
 - ✓ Continuous tractive force prevents wheelspin
 - ✓ Self-locking hydraulic brake system





Comfortable Operator's Cab

- + Increased performance and productivity
- + Focused operator work is supported
- + Easy and safe operation
- + Excellent all-round visibility

- ✓ New, modern and ergonomic cab design
- ✓ Control of working and travel functions with one control lever
- ✓ Generous glass surfaces

Intelligent Cooling System

- + Constant and reliable cooling
- + Increased service life of components
- + High machine availability through minimal cleaning expenses

- ✓ Controlled cooling
- ✓ Heat sensors ensure reliable control
- ✓ The radiator is installed directly behind the operator's cab – the cleanest position of the wheel loader

Optimum Service Accessibility

- + Time savings in daily maintenance
- + Short service times for more productivity
- + High availability and fast support from the manufacturer

- ✓ Rapid control of all maintenance points from the ground
- ✓ Safe, simple and quick access to all points important for operations
- ✓ LiDAT – fleet park management for machinery data recording and diagnostics

Technical Data

L 526 – L 546

Engine

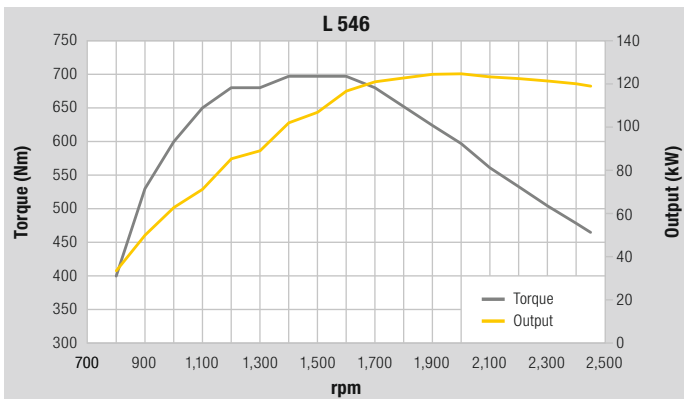
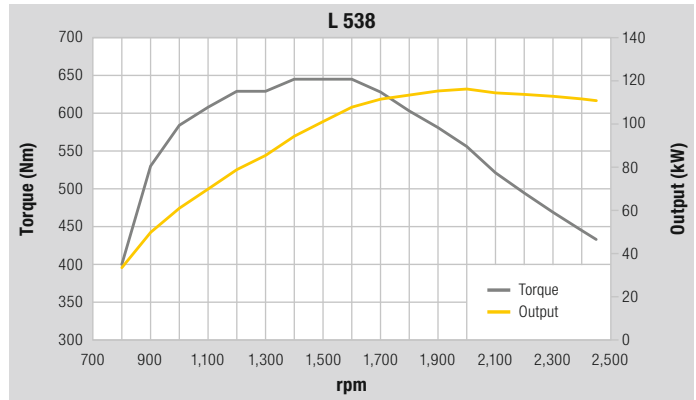
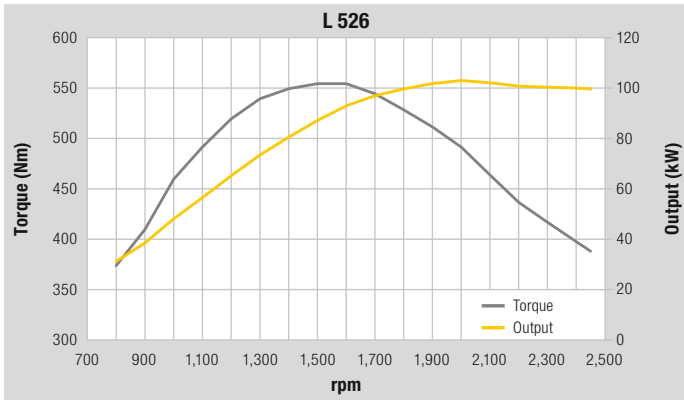
	L 526	L 538	L 546
Diesel engine	4045HFL07	4045HFL09	4045HFL09
Design	Water-cooled turbocharged in-series engine with cooled exhaust gas recirculation, exhaust after-treatment with a closed diesel particle filter system and SCR technology		
Cylinder inline	4	4	4
Fuel injection process	Electronic Common Rail high-pressure injection		
Max. gross output to ISO 3046 and SAE J1995	kW/HP 103/140 at RPM 2,000	114/155 2,000	123/167 2,000
Max. net output to ISO 9249 and SAE J1349	kW/HP 101/137 at RPM 2,000	112/152 2,000	121/165 2,000
Rated output to ISO 14396	kW/HP 100/136 at RPM 2,400	111/151 2,400	120/163 2,400
Max. net torque to ISO 9249 and SAE J1349	Nm 548 at RPM 1,500	628 1,500	682 1,500
Displacement	litres 4.5	4.5	4.5
Bore/Stroke	mm 106/127	106/127	106/127
Air cleaner system	Dry type filter with main and safety element, pre-cleaner, service indicator on the Liebherr display		
Electrical system			
Operating voltage	V 24	24	24
Battery	Ah 2 x 135	2 x 135	2 x 135
Alternator	V/A 24/100	24/100	24/100
Starter	V/kW 24/7.8	24/7.8	24/7.8

The exhaust emissions are below the limits in stage IV/Tier 4f.

Driveline

Continuous hydrostatic driveline

Design	Swash plate type variable flow pump and two variable axial piston motors in closed loop circuit and axle transfer case. Direction of travel is reversed by changing the flow-direction of the variable-displacement pump
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 – 16 km/h Speed range A1 – 3 _____ 0 – 40 km/h Speeds quoted apply with the tyres indicated as standard on loader model.



Axles

	L 526	L 538	L 546
Four-wheel drive			
Front axle	Fixed		
Rear axle	Centre pivot, with 10° oscillating angle to each side		
Height of obstacles which can be driven over	mm 470	470	470
	with all four wheels remaining in contact with the ground		
Differentials	Automatic limited-slip differentials with 45% locking action in both axles		
Reduction gear	Planetary final drive in wheel hubs		
Track width	1,960 mm with all types of tyres (L 526) 1,900 mm with all types of tyres (L 538, L 546)		

Brakes

Wear-free service brake	Self-locking of the hydrostatic driveline (acting on all four wheels) and additional pump-accumulator brake system with wet multi-disc brakes located in the differential housing (two separate brake circuits)		
Parking brake	Electro-hydraulically actuated spring-loaded disc brake system on the front axle		

The braking system meets the requirements of the EC guidelines 71/320.

Steering

Design	"Load-sensing" swash plate type variable flow pump with pressure cut-off and flow control. Central pivot with two double-acting steering cylinders		
Angle of articulation	40° to each side		
Emergency steering	Electro-hydraulic emergency steering system		

Attachment Hydraulics

	L 526	L 538	L 546
Design	"Load-sensing" variable axial piston pump with output and flow control, and pressure cut-off in the control block		
Cooling	Hydraulic oil cooling using thermostatically controlled fan and oil cooler		
Filtration	Return line filter in the hydraulic reservoir		
Control	Liebherr control lever, electro-hydraulically operated		
Lift circuit	Lifting, neutral, lowering Float position controlled by Liebherr control lever with detent		
Tilt circuit	Tilt back, neutral, dump Automatic bucket return to dig		
Max. flow	l/min. 136	170	170
Max. pressure			
Z-bar linkage	bar 330	350	350
Parallel linkage	bar 330	350	350

Attachment

	L 526	L 538	L 546			
Geometry variants						
Optional	Powerful Z-bar linkage with tilt cylinder, hydraulic quick hitch optional Parallel linkage with two tilt cylinders, hydraulic quick hitch as standard					
Bearings	Sealed					
Cycle time at nominal load	ZK	PK	ZK	PK	ZK	PK
Lifting	s 5.3	5.3	5.0	5.0	5.0	5.0
Dumping	s 2.1	4.0	2.9	4.3	2.9	4.3
Lowering (empty)	s 3.6	3.6	3.8	3.8	3.8	3.8

Operator's Cab

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 Comfort safety door with 180° opening angle with rigid window optional, fold-out window on right with 5° gap opener or 40° opening, front windscreen made of laminated safety glass, green tinted as standard, side panels with single-pane safety glass ESG, grey tinted, heated rear window ESG. Continuously adjustable steering column		
Liebherr operator's seat	6 way adjustable, vibration-damped operator's seat "Standard" with seat, depth and incline adjustment as standard (mechanically sprung, adjustable to operator's weight), Liebherr control lever mounted into the operator's seat as standard		
Cab heating and ventilation	4-level air control, cooling water heating, defroster and air conditioning with electronic valve control, as well as electronic fresh/recirculated air control, filter system with pre-filter, fresh air filter and recirculated air filter, easily replaced, air condition/automatic air conditioning system optional		

Sound Level

	L 526	L 538	L 546
Sound pressure level to ISO 6396			
L _{PA} (inside cab)	dB(A) 69	69	69
Sound power level to 2000/14/EC			
L _{WA} (surround noise)	dB(A) 101	102	102

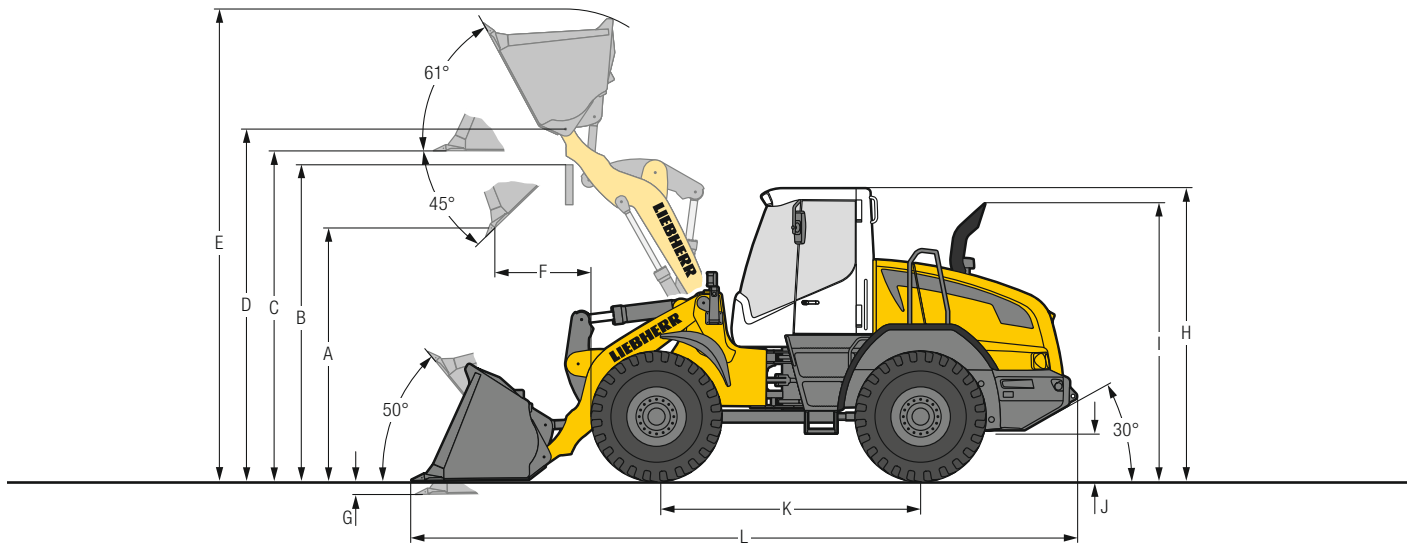
Capacities

	L 526	L 538	L 546
Fuel tank (plastic design)	l 205	205	205
Fuel tank (steel version, optional)	l 205	205	205
Engine oil (inclusive filter change)	l 22	22	22
DEF tank	l 20	20	20
Transmission	l 2.5	2.5	2.5
Coolant	l 31	31	31
Front axle / wheel hubs	l 16/2.5	19/3.5	19/3.5
Rear axle / wheel hubs	l 16/2.5	19/3.5	19/3.5
Hydraulic tank	l 95	95	95
Hydraulic system, total	l 170	180	180

Dimensions

Z-bar Linkage

L 526 – L 546



Loading Bucket



	L 526			L 538			L 546		
Geometry	ZK	ZK-QH	ZK	ZK	ZK-QH	ZK	ZK	ZK-QH	ZK
Cutting tools	T	T	BOCE	T	T	BOCE	T	T	BOCE
Lift arm length mm	2,400	2,400	2,400	2,500	2,500	2,500	2,500	2,500	2,500
Bucket capacity according to ISO 7546** m ³	2.1	1.8	2.3 ¹⁾	2.6	2.3	2.8 ¹⁾	2.8	2.5	3.1 ¹⁾
Specific material density t/m ³	1.8	1.8	1.7	1.8	1.8	1.7	1.8	1.8	1.7
Bucket width mm	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
A Dumping height at max. lift height and 45° discharge mm	2,815	2,720	2,760	2,845	2,760	2,825	2,825	2,710	2,780
B Dump-over height mm	3,330	3,320	3,320	3,480	3,480	3,480	3,480	3,480	3,480
C Max. height of bucket bottom mm	3,510	3,510	3,510	3,680	3,680	3,680	3,680	3,680	3,680
D Max. height of bucket pivot point mm	3,760	3,760	3,760	3,930	3,930	3,930	3,930	3,930	3,930
E Max. operating height mm	4,900	4,980	4,990	5,220	5,270	5,275	5,275	5,330	5,315
F Reach at max. lift height and 45° discharge mm	930	975	980	1,040	1,060	1,060	1,060	1,110	1,100
G Digging depth mm	80	80	80	40	40	40	40	40	40
H Height above operator's cab²⁾ mm	3,200	3,200	3,200	3,250	3,250	3,250	3,250	3,250	3,250
I Height above exhaust mm	2,900	2,900	2,900	2,950	2,950	2,950	2,950	2,950	2,950
J Ground clearance mm	460	460	460	490	490	490	490	490	490
K Wheelbase mm	2,925	2,925	2,925	2,975	2,975	2,975	2,975	2,975	2,975
L Overall length mm	7,280	7,380	7,255	7,530	7,610	7,470	7,560	7,680	7,530
Turning circle radius over outside bucket edge mm	5,850	5,890	5,850	6,000	6,050	6,000	6,020	6,080	6,020
Breakout force (SAE) kN	95	86	89	110	100	106	115	105	110
Tipping load, straight* kg	8,800	8,300	9,700	10,700	10,200	11,600	11,900	11,200	12,400
Tipping load, fully articulated* kg	7,700	7,200	8,500	9,500	9,000	10,200	10,500	9,800	11,000
Operating weight* kg	11,250	11,400	11,850	13,500	13,700	14,000	14,200	14,400	14,500
Tyre size	17.5R25 L3			20.5R25 L3			20.5R25 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 24/25.

¹⁾ Toothed buckets, hydraulic quick hitch and additional hydraulic circuits are not approved for rehandling application.

²⁾ Available option of "Comfort safety door (open through 180°)" the value "H" increases to 130 mm when the door is open.

= Excavation bucket with back grading edge for direct mounting

= Excavation bucket with back grading edge for quick hitch

= Rehandling bucket for direct mounting

ZK = Z-bar linkage

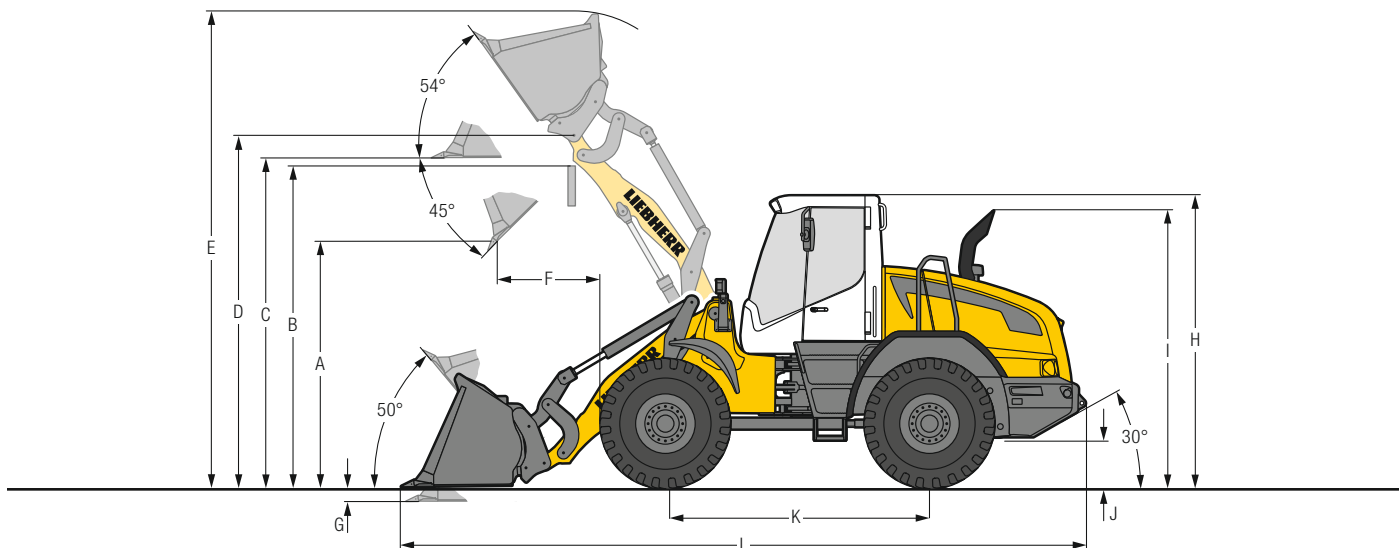
ZK-QH = Z-bar linkage incl. quick hitch

T = Welded-on tooth holder with add-on teeth

BOCE = Bolt-on cutting edge

Dimensions

Parallel Linkage



L 526 – L 546

Excavation Bucket



	L 526		L 538		L 546		
	STD	HL	STD	HL	STD	HL	
Geometry	PK-QH	PK-QH	PK-QH	PK-QH	PK-QH	PK-QH	
Cutting tools	T	T	T	T	T	T	
Lift arm length	mm	2,570	3,000	2,570	3,000	2,570	3,000
Bucket capacity according to ISO 7546**	m ³	2.1	2.1	2.3	2.3	2.5	2.5
Specific material density	t/m ³	1.8	1.5	1.8	1.5	1.8	1.5
Bucket width	mm	2,500	2,500	2,500	2,500	2,500	2,500
A Dumping height at max. lift height and 45° discharge	mm	2,775	3,335	2,790	3,350	2,740	3,305
B Dump-over height	mm	3,380	3,980	3,480	4,040	3,480	4,040
C Max. height of bucket bottom	mm	3,610	4,190	3,680	4,260	3,680	4,260
D Max. height of bucket pivot point	mm	3,860	4,435	3,930	4,510	3,930	4,510
E Max. operating height	mm	5,130	5,700	5,290	5,860	5,350	5,910
F Reach at max. lift height and 45° discharge	mm	1,170	1,100	1,110	1,030	1,160	1,080
G Digging depth	mm	120	95	55	25	55	25
H Height above operator's cab¹⁾	mm	3,200	3,200	3,250	3,250	3,250	3,250
I Height above exhaust	mm	2,900	2,900	2,950	2,950	2,950	2,950
J Ground clearance	mm	460	460	490	490	490	490
K Wheelbase	mm	2,925	2,925	2,975	2,975	2,975	2,975
L Overall length	mm	7,690	8,220	7,720	8,260	7,790	8,330
Turning circle radius over outside bucket edge	mm	5,950	6,220	6,090	6,370	6,110	6,390
Breakout force (SAE)	kN	100	100	108	108	112	112
Tipping load, straight*	kg	9,000	7,400	10,300	8,410	10,920	9,000
Tipping load, fully articulated*	kg	7,750	6,500	9,100	7,350	9,750	7,800
Operating weight*	kg	12,620	12,880	13,900	14,160	14,300	14,560
Tyre size		17.5R25 L3		20.5R25 L3		20.5R25 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 24/25.

¹⁾ Available option of "Comfort safety door (open through 180°)" the value "H" increases to 130 mm when the door is open.

STD = Standard lift arm length

HL = High Lift

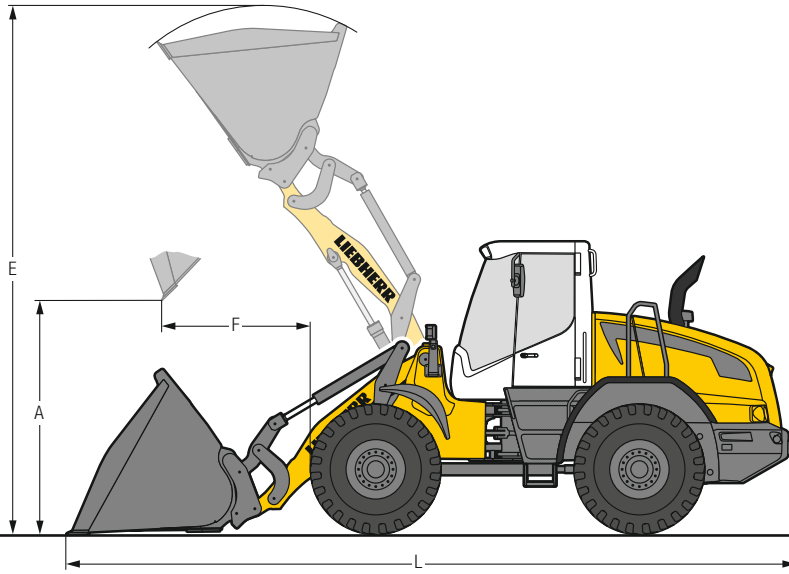
PK-QH = Parallel linkage incl. quick hitch

T = Welded-on tooth holder with add-on teeth

Attachment

Light Material Bucket

L 526 – L 546



Heavy Material Density



	L 526		L 538		L 546	
	STD	HL	STD	HL	STD	HL
Geometry	PK-QH	PK-QH	PK-QH	PK-QH	PK-QH	PK-QH
Cutting tools	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE
Bucket capacity	m ³ 3.5	3.0	4.0	3.5	4.5	4.0
Specific material density	t/m ³ 1.0	0.9	1.0	0.9	1.0	0.9
Bucket width	mm 2,700	2,700	2,700	2,700	2,700	2,700
A Dumping height at max. lift height	mm 2,480	3,215	2,490	3,140	2,380	3,110
E Max. operating height	mm 5,390	5,900	5,585	6,020	5,705	6,170
F Reach at maximum lift height	mm 1,460	1,220	1,360	1,230	1,470	1,260
L Overall length	mm 7,940	8,290	7,955	8,450	8,110	8,500
Tipping load, straight*	kg 8,450	7,150	9,900	8,000	10,200	8,700
Tipping load, fully articulated*	kg 7,400	6,280	8,730	7,040	9,010	7,600
Operating weight*	kg 12,950	13,050	14,100	14,450	14,710	14,740
Tyre size	17.5R25 L3		20.5R25 L3		20.5R25 L3	

Light Material Density



	L 526		L 538		L 546	
	STD	HL	STD	HL	STD	HL
Geometry	PK-QH	PK-QH	PK-QH	PK-QH	PK-QH	PK-QH
Cutting tools	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE
Bucket capacity	m ³ 5.5	4.5	6.5	5.5	7.5	6.5
Specific material density	t/m ³ 0.5	0.5	0.5	0.5	0.5	0.5
Bucket width	mm 2,700	2,700	2,700	2,700	3,000	2,700
A Dumping height at max. lift height	mm 2,180	2,925	2,160	2,845	2,160	2,790
E Max. operating height	mm 5,770	6,225	5,995	6,410	5,995	6,580
F Reach at maximum lift height	mm 1,760	1,505	1,670	1,520	1,670	1,570
L Overall length	mm 8,350	8,710	8,420	8,860	8,420	8,970
Tipping load, straight*	kg 7,900	6,630	9,400	7,700	10,030	8,300
Tipping load, fully articulated*	kg 6,900	5,850	8,300	6,730	8,750	7,260
Operating weight*	kg 13,250	13,360	14,680	14,750	15,150	15,310
Tyre size	17.5R25 L3		20.5R25 L3		20.5R25 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)

STD = Standard lift arm length

HL = High Lift

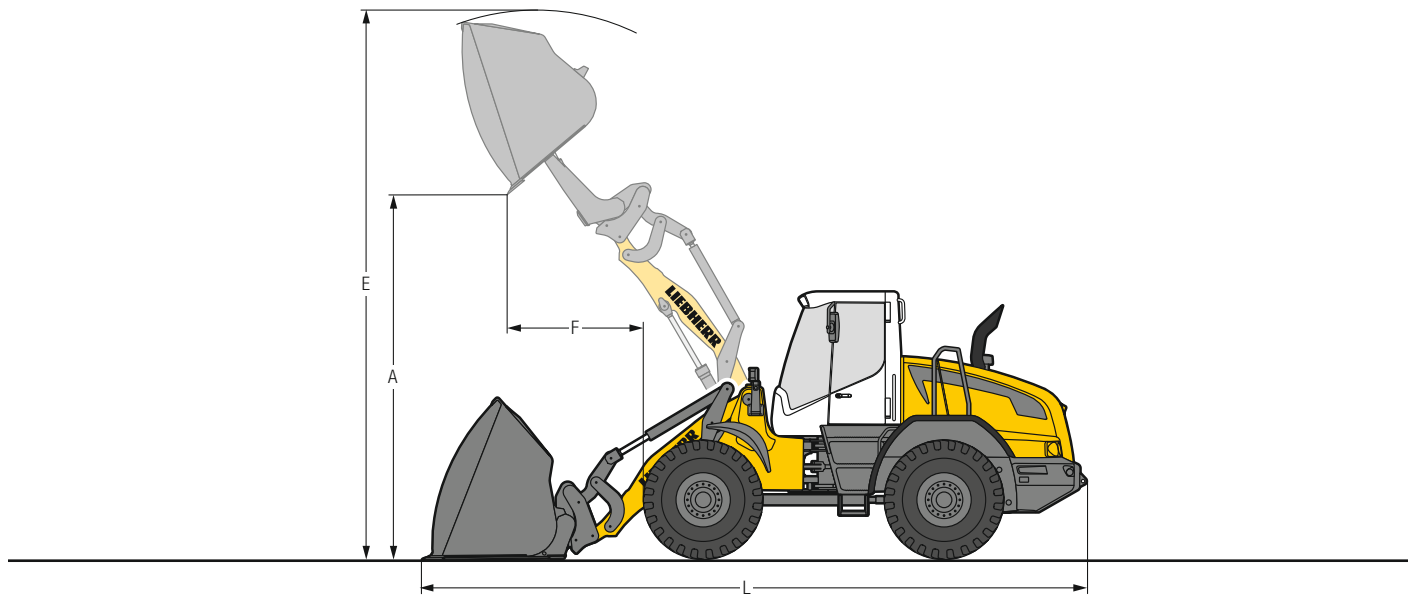
PK-QH = Parallel linkage incl. quick hitch

BOCE = Bolt-on cutting edge

Attachment

High-Dump Bucket

L 526 – L 546



Heavy Material Density



	L 526		L 538		L 546	
	STD	HL	STD	HL	STD	HL
Geometry	PK-QH	PK-QH	PK-QH	PK-QH	PK-QH	PK-QH
Cutting tools	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE
Bucket capacity	m ³ 3.0	2.5	3.5	3.0	4.0	3.5
Specific material density	t/m ³ 1.0	0.9	1.0	0.9	1.0	0.9
Bucket width	mm 2,700	2,500	2,700	2,700	2,700	2,700
A Dumping height at max. lift height	mm 4,530	5,090	4,560	5,320	4,470	5,300
E Max. operating height	mm 6,260	6,680	6,420	6,985	6,410	7,095
F Reach at maximum lift height	mm 1,550	1,370	1,460	1,250	1,550	1,270
L Overall length	mm 8,080	8,530	8,080	8,590	8,210	8,620
Tipping load, straight*	kg 7,420	6,380	8,800	7,100	9,280	7,680
Tipping load, fully articulated*	kg 6,510	5,590	7,720	6,280	8,200	6,760
Operating weight*	kg 13,590	13,450	14,930	15,090	15,360	15,560
Tyre size	17.5R25 L3		20.5R25 L3		20.5R25 L3	

Light Material Density



	L 526		L 538		L 546	
	STD	HL	STD	HL	STD	HL
Geometry	PK-QH	PK-QH	PK-QH	PK-QH	PK-QH	PK-QH
Cutting tools	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE
Bucket capacity	m ³ 5.0	4.0	6.0	5.0	7.0	5.5
Specific material density	t/m ³ 0.5	0.5	0.5	0.5	0.5	0.5
Bucket width	mm 2,700	2,700	2,700	2,700	3,000	2,700
A Dumping height at max. lift height	mm 4,430	5,240	4,430	5,245	4,350	5,225
E Max. operating height	mm 6,615	7,065	6,880	7,325	7,005	7,465
F Reach at maximum lift height	mm 1,760	1,510	1,700	1,460	1,600	1,490
L Overall length	mm 8,260	8,710	8,305	8,760	8,380	8,800
Tipping load, straight*	kg 7,470	6,300	9,150	7,260	9,660	7,860
Tipping load, fully articulated*	kg 6,560	5,490	8,050	6,380	8,510	6,960
Operating weight*	kg 13,690	13,700	15,000	15,190	15,800	15,580
Tyre size	17.5R25 L3		20.5R25 L3		20.5R25 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)

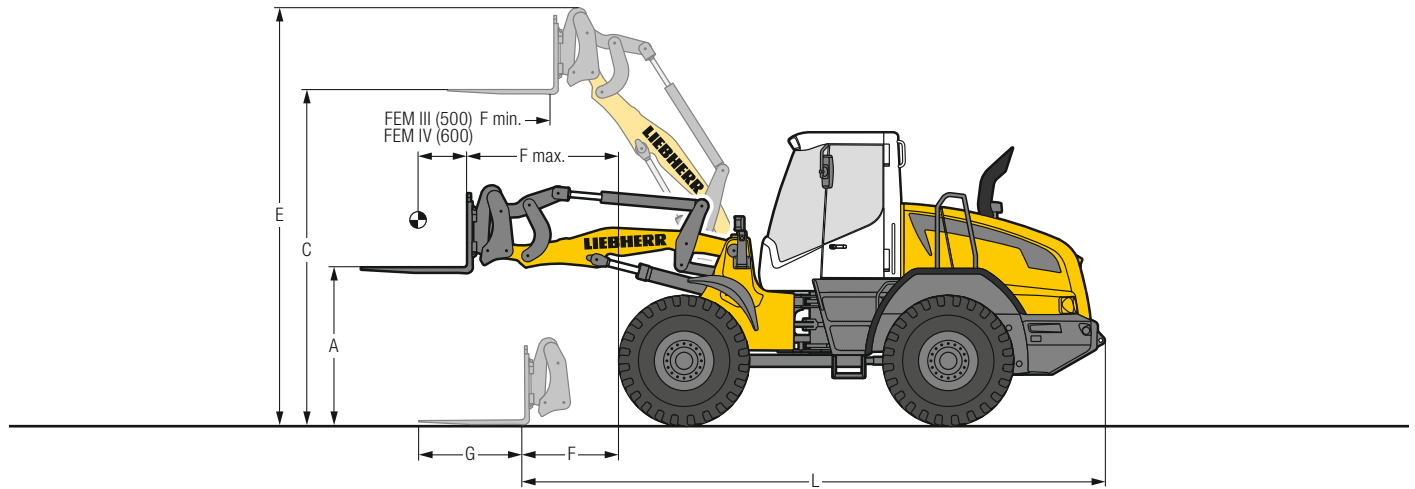
STD = Standard lift arm length
HL = High Lift

PK-QH = Parallel linkage incl. quick hitch
BOCE = Bolt-on cutting edge

Attachment

Fork Carrier and Fork

L 526 – L 546



Fork Carrier and Fork



		L 526		L 538		L 546		L 538		L 546		
		FEM III	FEM III	FEM III	FEM III	FEM III	FEM III	FEM IV	FEM IV	FEM IV	FEM IV	
		ZK-QH	PK-QH	ZK-QH	PK-QH	ZK-QH	PK-QH	ZK-QH	PK-QH	ZK-QH	PK-QH	
	Lift arm length	mm	2,400	2,570	2,500	2,570	2,500	2,570	2,500	2,570	2,500	2,570
A	Lifting height at max. reach	mm	1,680	1,670	1,780	1,740	1,780	1,740	1,700	1,740	1,700	1,700
C	Max. lifting height	mm	3,570	3,675	3,740	3,740	3,740	3,740	3,700	3,705	3,700	3,705
E	Max. operating height	mm	4,500	4,600	4,664	4,664	4,664	4,664	4,695	4,700	4,695	4,700
F	Reach at loading position	mm	1,010	1,240	965	1,060	965	1,060	995	1,080	995	1,080
F max.	Max. reach	mm	1,650	1,800	1,660	1,700	1,660	1,700	1,640	1,680	1,640	1,680
F min.	Reach at max. lifting height	mm	730	840	710	735	710	735	690	715	690	715
G	Fork length	mm	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
L	Length – basic machine	mm	6,435	6,650	6,510	6,590	6,510	6,590	6,530	6,620	6,530	6,620
	Tipping load, straight *	kg	6,200	7,110	7,700	8,150	8,580	8,750	7,620	8,080	8,500	8,650
	Tipping load, fully articulated *	kg	5,500	6,240	6,800	7,200	7,560	7,710	6,700	7,120	7,500	7,650
	Recommended payload for uneven ground = 60% of tipping load, articulated ¹⁾	kg	3,290	3,700	4,050	4,320	4,520	4,620	4,000	4,270	4,480	4,550
	Recommended payload for smooth surfaces = 80% of tipping load, articulated ¹⁾	kg	4,200 ²⁾	4,900	5,000 ³⁾	5,000 ³⁾	5,000 ³⁾	5,000 ³⁾	5,200 ²⁾	5,700	5,200 ²⁾	6,000
	Operating weight *	kg	11,060	12,200	13,200	13,430	13,820	13,810	13,450	13,670	14,060	14,040
	Tyre size		17.5R25 L3		20.5R25 L3		20.5R25 L3		20.5R25 L3		20.5R25 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)

¹⁾ According to EN 474-3

²⁾ Payload is limited by tilt cylinder of Z-bar linkage

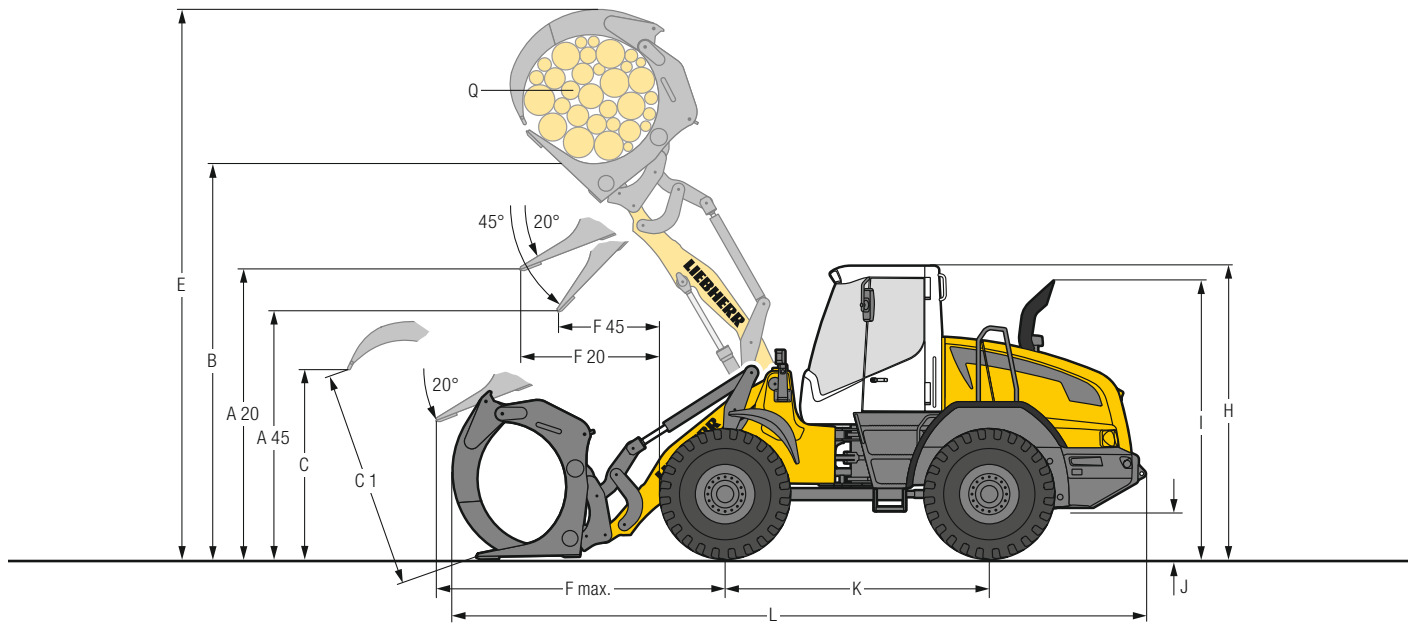
³⁾ Payload is limited by FEM III fork carrier and forks to 5,000 kg

ZK-QH = Z-bar linkage incl. quick hitch

PK-QH = Parallel linkage incl. quick hitch

Attachment

Log Grapple



L 526 – L 546

Log Grapple



			L 526	L 538	L 546
	Geometry		PK-QH	PK-QH	PK-QH
A20	Discharge height at 20°	mm	3,210	3,205	3,205
A45	Discharge height at 45°	mm	2,780	2,720	2,720
B	Manipulation height	mm	4,280	4,370	4,370
C	Max. grapple opening in loading position	mm	1,910	2,325	2,325
C1	Max. grapple opening	mm	2,100	2,580	2,580
E	Max. height	mm	5,790	6,150	6,150
F20	Reach at max. lifting height at 20° discharge	mm	1,585	1,600	1,600
F45	Reach at max. lifting height at 45° discharge	mm	1,205	1,180	1,180
F max.	Max. reach	mm	2,540	2,550	2,550
H	Height above operator's cab ¹⁾	mm	3,200	3,250	3,250
I	Height above exhaust	mm	2,900	2,950	2,950
J	Ground clearance	mm	460	490	490
K	Wheelbase	mm	2,925	2,975	2,975
L	Overall length	mm	7,800	8,150	8,150
	Width over tyres	mm	2,450	2,480	2,480
Q	Grapple diameter	m ²	1.3	1.8	1.8
	Grapple width	mm	1,600	1,600	1,600
	Payload*	kg	4,000	4,450	4,800
	Operating weight*	kg	12,740	14,380	14,750
	Tyre size		17.5R25 L3	20.5R25 L3	20.5R25 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 payload.

¹⁾ Available option of "Comfort safety door (open through 180°)" the value "H" increases to 130 mm when the door is open.

PK-QH = Parallel linkage incl. quick hitch

Bucket Selection

L 526 – L 546

L 526

Lift arm	Bucket	Material density (t/m³)									
		0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	
ZK	GPB ₁ 2.1 m³							2.3			2.1
	GPB ₂ 2.3 m³ *							2.5			2.3
ZK-QH	GPB ₁ 1.8 m³							2.0			1.8
PK-QH	GPB ₁ 2.1 m³							2.3			2.1
	LMB 3.5 m³				3.9						3.5
	LMB 5.5 m³	5.5									
	HDB 3.0 m³				3.3						3.0
	HDB 5.0 m³	5.0									
PK-QH-HL	GPB ₁ 2.1 m³							2.3			2.1
	LMB 3.0 m³				3.3						3.0
	LMB 4.5 m³	4.5									
	HDB 2.5 m³				2.8						2.5
	HDB 4.0 m³	4.0									

* Toothed buckets, hydraulic quick hitch and additional hydraulic circuits are not approved for rehandling application.

L 538

Lift arm	Bucket	Material density (t/m³)									
		0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	
ZK	GPB ₁ 2.6 m³									2.9	2.6
	GPB ₂ 2.8 m³ *									3.1	2.8
ZK-QH	GPB ₁ 2.3 m³									2.5	2.3
PK-QH	GPB ₁ 2.3 m³									2.5	2.3
	LMB 4.0 m³				4.4						4.0
	LMB 6.5 m³	6.5									
	HDB 3.5 m³				3.9						3.5
	HDB 6.0 m³	6.0									
PK-QH-HL	GPB ₁ 2.3 m³									2.5	2.3
	LMB 3.5 m³				3.9						3.5
	LMB 5.5 m³	5.5									
	HDB 3.0 m³				3.3						3.0
	HDB 5.0 m³	5.0									

* Toothed buckets, hydraulic quick hitch and additional hydraulic circuits are not approved for rehandling application.

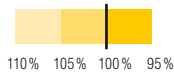
L 546

Lift arm	Bucket	Material density (t/m³)									
		0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	
ZK	GPB ₁ 2.8 m³									3.1	2.8
	GPB ₂ 3.1 m³ *									3.4	3.1
ZK-QH	GPB ₁ 2.5 m³									2.8	2.5
PK-QH	GPB ₁ 2.5 m³									2.8	2.5
	LMB 4.5 m³				5.0						4.5
	LMB 7.5 m³	7.5									
	HDB 4.0 m³				4.4						4.0
	HDB 7.0 m³	7.0									
PK-QH-HL	GPB ₁ 2.5 m³									2.8	2.5
	LMB 4.0 m³				4.4						4.0
	LMB 6.5 m³	6.5									
	HDB 3.5 m³				3.9						3.5
	HDB 5.5 m³	5.5									

* Toothed buckets, hydraulic quick hitch and additional hydraulic circuits are not approved for rehandling application.

Bucket Selection

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
PK-QH	Parallel linkage with quick hitch, standard lift arm length
PK-QH-HL	Parallel linkage with quick hitch, High Lift

Bucket

GPB₁	General purpose bucket (Excavation bucket)
GPB₂	General purpose bucket (Rehandling bucket)
LMB	Light material bucket
HDB	High-dump bucket

Bulk Material Densities and Bucket Filling Factors

		t/m ³	%			t/m ³	%			t/m ³	%
Gravel	moist	1.9	105	Earth	dry	1.3	115	Glass waste	broken	1.4	100
	dry	1.6	105		wet excavated	1.6	110		solid	1.0	100
	crushed stone	1.5	100	Topsoil		1.1	110	Compost	dry	0.8	105
Sand	dry	1.5	105	Basalt		1.95	100	wet	1.0	110	
	wet	1.9	110	Granite		1.8	95	Wood chips / Saw dust		0.5	110
Gravel and Sand	dry	1.7	105	Sandstone		1.6	100	Paper	shredded / loose	0.6	110
Sand / Clay	wet	2.0	100	Slate		1.75	100	recovered paper / cardboard	1.0	110	
Clay	natural	1.6	110	Bauxite		1.4	100	Coal	heavy material density	1.2	110
Clay / Gravel	dry	1.4	110	Limestone		1.6	100	light material density	0.9	110	
	dry	1.4	110	Gypsum	broken	1.8	100	Waste	domestic waste	0.5	100
	wet	1.6	100	Coke		0.5	110	bulky waste	1.0	100	
				Slag	broken	1.8	100				

Tipping Load



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.

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

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

Tyre Types






	Size and tread code		Change of operating weight kg	Width over tyres mm	Change in vertical dimensions* mm	Use
L 526						
Bridgestone	17.5R25 VJT L3		134	2,440	17	Bulk material (firm ground conditions)
Bridgestone	17.5R25 VSDL L5		647	2,450	56	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	20.5R25 VJT L3		545	2,480	69	Bulk material (firm ground conditions)
Bridgestone	20.5R25 VSDL L5		1,208	2,480	121	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	20.5R25 VSDR L5		1,216	2,480	121	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	550/65R25 VTS L3		396	2,500	11	Gravel (all ground conditions)
Bridgestone	650/65R25 VTS L3		1,133	2,650	77	Gravel (all ground conditions)
Goodyear	17.5R25 RT-3B L3		208	2,460	20	Gravel (all ground conditions)
Goodyear	17.5R25 TL-3A+ L3		276	2,460	22	Sand, Gravel, Earthworks, Clay (all ground conditions)
Goodyear	17.5R25 RL-4K L4		564	2,460	41	Gravel, Industry, Stone (firm ground conditions)
Goodyear	17.5R25 RL-5K L5		688	2,460	41	Stone, Scrap, Recycling (firm ground conditions)
Goodyear	20.5R25 RT-3B L3		539	2,490	77	Gravel (all ground conditions)
Goodyear	20.5R25 TL-3A+ L3		684	2,500	72	Sand, Gravel, Earthworks, Clay (all ground conditions)
Goodyear	20.5R25 GP-4D L4		856	2,470	81	Gravel, Industry, Wood (firm ground conditions)
Goodyear	20.5R25 RL-5K L5		1,280	2,500	110	Stone, Scrap, Recycling (firm ground conditions)
Michelin	17.5R25 XTLA L2		– 27	2,460	17	Gravel, Earthworks, Clay (all ground conditions)
Michelin	17.5R25 XHA L3		43	2,450	– 1	Sand, Gravel (all ground conditions)
Michelin	17.5R25 XHA2 L3		0	2,460	0	Sand, Gravel (all ground conditions)
Michelin	17.5R25 XLD D2A L5		296	2,460	36	Stone, Mining spoil (firm ground conditions)
Michelin	17.5R25 X MINE L5		557	2,480	58	Stone, Scrap, Recycling (firm ground conditions)
Michelin	20.5R25 XTLA L2		407	2,480	54	Gravel, Earthworks, Clay (all ground conditions)
Michelin	20.5R25 XHA2 L3		528	2,480	61	Sand, Gravel (all ground conditions)
Michelin	20.5R25 XLD D2A L5		959	2,480	91	Stone, Mining spoil (firm ground conditions)
Michelin	20.5R25 X MINE L5		1,227	2,470	106	Stone, Scrap, Recycling (firm ground conditions)
Michelin	550/65R25 XLD65 L3		446	2,500	17	Gravel (all ground conditions)
Michelin	650/65R25 XLD65 L3		1,016	2,640	54	Gravel (all ground conditions)
L 538 / L 546						
Bridgestone	20.5R25 VJT L3		17	2,480	8	Bulk material (firm ground conditions)
Bridgestone	20.5R25 VSDL L5		680	2,480	60	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	20.5R25 VSDR L5		688	2,480	60	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	550/65R25 VTS L3		– 44	2,500	– 50	Gravel (all ground conditions)
Bridgestone	650/65R25 VTS L3		595	2,650	16	Gravel (all ground conditions)
Goodyear	20.5R25 RT-3B L3		11	2,490	16	Gravel (all ground conditions)
Goodyear	20.5R25 TL-3A+ L3		156	2,500	11	Sand, Gravel, Earthworks, Clay (all ground conditions)
Goodyear	20.5R25 GP-4D L4		328	2,470	20	Gravel, Industry, Wood (firm ground conditions)
Goodyear	20.5R25 RL-5K L5		752	2,500	49	Stone, Scrap, Recycling (firm ground conditions)
Michelin	20.5R25 XTLA L2		– 121	2,510	– 7	Gravel, Earthworks, Clay (all ground conditions)
Michelin	20.5R25 XHA2 L3		0	2,480	0	Sand, Gravel (all ground conditions)
Michelin	20.5R25 XLD D2A L5		431	2,480	30	Stone, Mining spoil (firm ground conditions)
Michelin	20.5R25 X MINE L5		699	2,470	45	Stone, Scrap, Recycling (firm ground conditions)
Michelin	550/65R25 XLD65 L3		– 82	2,500	– 44	Gravel (all ground conditions)
Michelin	650/65R25 XLD65 L3		478	2,640	– 7	Gravel (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.

The Liebherr Wheel Loaders






Wheel Loader

						
Tipping load	kg	L 506 Compact 3,450	L 507 Stereo 3,712	L 508 Compact 3,850	L 509 Stereo 4,430	L 514 Stereo 5,750
Bucket capacity	m³	0.8	0.9	1.0	1.2	1.5
Operating weight	kg	5,180	5,470	5,600	6,390	8,860
Engine output (ISO 14396)	kW/HP	46/63	50/68	50/68	54/73	76/103

Wheel Loader

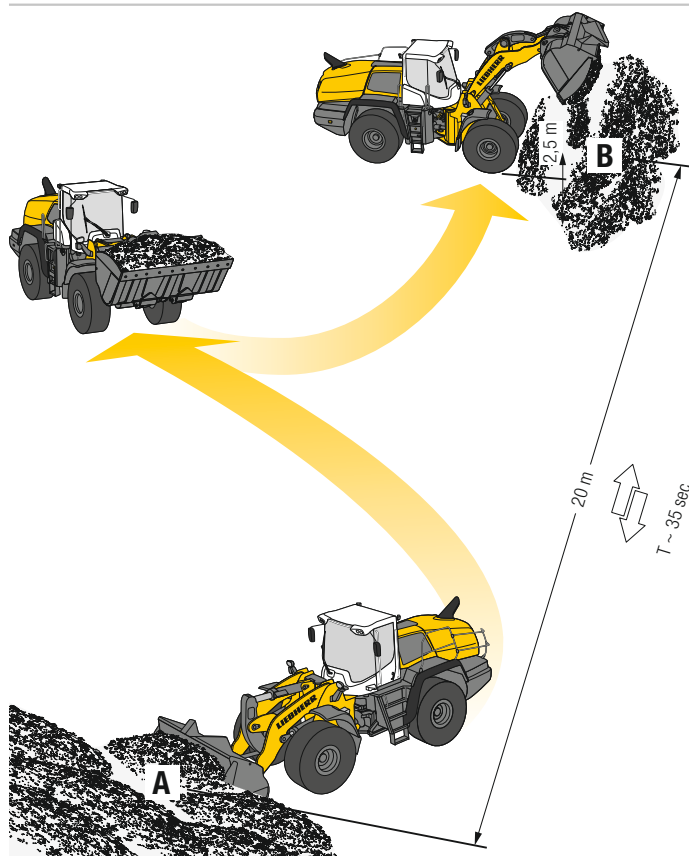
						
Tipping load	kg	L 518 Stereo 6,550	L 526 7,700	L 538 9,500	L 546 10,500	L 550 XPower® 12,200
Bucket capacity	m³	1.7	2.1	2.6	2.8	3.2
Operating weight	kg	9,190	11,250	13,500	14,200	17,700
Engine output (ISO 14396)	kW/HP	76/103	100/136	111/151	120/163	140/191

Wheel Loader

						
Tipping load	kg	L 556 XPower® 13,700	L 566 XPower® 15,900	L 576 XPower® 17,600	L 580 XPower® 19,200	L 586 XPower® 21,600
Bucket capacity	m³	3.6	4.2	4.7	5.2	6.0
Operating weight	kg	18,400	23,900	25,700	27,650	32,600
Engine output (ISO 14396)	kW/HP	165/224	200/272	215/292	230/313	260/354

06.17

Environmental Protection Can Help You Earn Money!



The Liebherr Standard Consumption Test – easy to reproduce and practical.

The Liebherr Standard Consumption Test determines the number of loading cycles that can be carried out with 5 litres of diesel. The material is taken from pile A and carried over a distance of 20 metres to point B. The time needed for each working cycle should be 35 seconds. Discharge at point B should take place from a height of 2.5 m. The working cycles continue until the 5 litres of diesel in the external measuring tank have been used up. The loader's fuel consumption per operating hour is calculated as follows:

$$\frac{400}{\text{Number of loading cycles}} = \text{Consumption per hour}$$

Values for the Liebherr wheel loaders

	Numbers of working cycles	Litres/100 tons	Litres/hour	Ø Litres/hour*
L 526: 2.1 m³	n = 48	2.8	8.3	5.9
L 538: 2.6 m³	n = 40	2.7	10.0	6.6
L 546: 2.8 m³	n = 38	2.6	10.5	6.8
L 550: 3.2 m³	n = 32	2.7	12.5	8.7
L 556: 3.6 m³	n = 29	2.7	13.8	9.6
L 566: 4.2 m³	n = 22	3.0	18.2	11.6
L 576: 4.7 m³	n = 21	2.8	19.1	12.1
L 580: 5.2 m³	n = 20	2.7	20.0	13.2
L 586: 6.0 m³	n = 15	3.1	26.7	15.9

* Wheel loader in practical customer applications with individual machine configurations. Average data from LiDAT from 12.06.2017.



Experience just how much fuel you can save!
www.encyplus.liebherr.com

Equipment



Basic Wheel Loader

	526	538	546
Crash protection, rear	+	+	+
Automatic central lubrication system	+	+	+
Battery main switch (lockable)	+	+	+
Electronic tractive force regulation for difficult ground conditions	•	•	•
Exhaust tail pipe in stainless steel	+	+	+
Ride control	+	+	+
Parking brake	•	•	•
Fire extinguisher 6 kg	+	+	+
Fluff trap for radiator	+	+	+
Speed limitation 20 km/h as a factory preset	+	+	+
Speed limitation V _{max} adjustable key on the control unit	•	•	•
DEF tank	•	•	•
Pre-heat system for cold starting	•	•	•
Rear license panel light	+	+	+
Combined inching-braking system	•	•	•
Mudguard in plastic design	•	•	•
Steel mudguard	+	+	+
Steel fuel tank	+	+	+
Fuel pre-filter	•	•	•
Fuel pre-filter with pre-heating	+	+	+
Large-mesh radiator	+	+	+
Cooling water pre-heating 230 V	+	+	+
Multi-disc limited slip differentials in both axles	•	•	•
Liebherr biodegradable hydraulic oil	+	+	+
Reversible fan drive	+	+	+
Widening for mudguard	+	+	+
Guard for headlights	+	+	+
SCR technology incl. diesel particle filter	•	•	•
Lockable doors and engine hood	•	•	•
Chassis protection rear	+	+	+
Chassis protection front	+	+	+
Air pre-cleaner TOP AIR	+	+	+
Toolbox with toolkit	+	+	+
Weigher unit Liebherr (integrated in display unit)	+	+	+
Towing hitch	•	•	•
Additional heating	+	+	+



Equipment

	526	538	546
Working hydraulics lockout	•	•	•
Automatic hoist kick-out and lowering shut-down incl. bucket return programmable	+	+	+
Automatic bucket return	•	•	•
Fork carrier and pallet forks	+	+	+
High-dump bucket	+	+	+
Log grapple	+	+	+
Lift arm parallel linkage	+	+	+
Lift arm parallel linkage High Lift	+	+	+
Lift arm Z-bar linkage	•	•	•
Hydraulic quick hitch	+	+	+
Hydraulic quick hitch LIKUFIX	+	+	+
Adjustable tipping speed	•	•	•
Tilt cylinder protection	+	+	+
Loading buckets incl. a range of cutting tools	+	+	+
Light material bucket	+	+	+
Load holding valves	+	+	+
Float position	•	•	•
Pre-fitted for use with work cage	+	+	+
3rd and 4th electro-hydraulic, proportional control circuit, adjustable delivery flow	+	+	+
3rd and 4th electro-hydraulic control circuit for continuous sweeper and snow blower operation	+	+	+



Operator's Cab

	526	538	546
Access assistance to facilitate cleaning windscreen	•	•	•
Exterior mirror, heatable	+	+	+
Exterior mirror, tiltable and adjustable	•	•	•
Fold-out window left	+	+	+
Operating hour meter (integrated in display unit)	•	•	•
Operating hour meter (mechanic)	+	+	+
Electronical theft protection with code	+	+	+
Electronical theft protection with/without driver identification	+	+	+
Operator seat "Comfort" – air sprung with seat heating	+	+	+
Operator seat "Premium" – active air-suspension with seat air-condition, seat heating and headrest	+	+	+
Operator seat "Standard" – mechanically sprung	•	•	•
Particle filter F7	•	•	•
Fire extinguisher in cab 2 kg	+	+	+
Audible horn control integrated into Liebherr control lever	+	+	+
Joystick steering	+	+	+
Floor mat	•	•	•
Clothes hook	•	•	•
Air conditioning system	+	+	+
Automatic air conditioning system	+	+	+
Comfort safety door (open through 180°)	+	+	+
Cool box	+	+	+
Steering column height-adjustable	+	+	+
Steering column folding	•	•	•
Steering stabilisation	•	•	•
LiDAT total use 1 year (for free)	•	•	•
Liebherr control lever with mini-joystick for 3rd and 4th electro-hydraulic proportional control circuit moving with operator's seat	+	+	+
Liebherr control lever moving with operator's seat (incl. travel direction)	•	•	•
Liebherr multi-lever control system moving with operator's seat (incl. travel direction)	+	+	+
Premiumdisplay (Touchscreen), with height adjustment and tilting function	•	•	•
Preparation for radio installation	+	+	+
Radio Liebherr "Comfort" (SD/USB/AUX/BLUETOOTH/handsfree set)	+	+	+
Radio Liebherr "Standard" (SD/USB/AUX)	+	+	+



Operator's Cab

	526	538	546
Interior rear-view mirror	•	•	•
Amber beacon swiveling / fixed	+	+	+
Soundproof ROPS / FOPS cab	•	•	•
Bucket return with button integrated into Liebherr control lever	+	+	+
Wipe and wash system	•	•	•
Windscreen wiper single-sweep function with button integrated into the Liebherr control lever	+	+	+
Headlights rear, single design, halogen / LED	+	+	+
Headlights rear, double design, halogen / LED	+	+	+
Headlights front, single design, XENON	+	+	+
Headlights front, double design, halogen	•	•	•
Headlights front, double design, LED	+	+	+
Windscreen guard	+	+	+
Sunblind front / rear	+	+	+
Power socket 12 V	•	•	•
First aid kit	+	+	+
Preparation for protective ventilation and dust filtrating device	+	+	+
Wide angle mirror	+	+	+
Cigarette lighter	•	•	•
2-in-1 steering – changeable	+	+	+



Safety

	526	538	546
Country-specific versions	+	+	+
Emergency steering system	•	•	•
Reversing obstruction detector	+	+	+
Back-up alarm acoustical / visual	+	+	+
Rear space monitoring with camera (integrated in display unit)	•	•	•

• = Standard, + = Option, – = not available

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 applications.

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 41,000 employees located on all continents. The corporate headquarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.

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