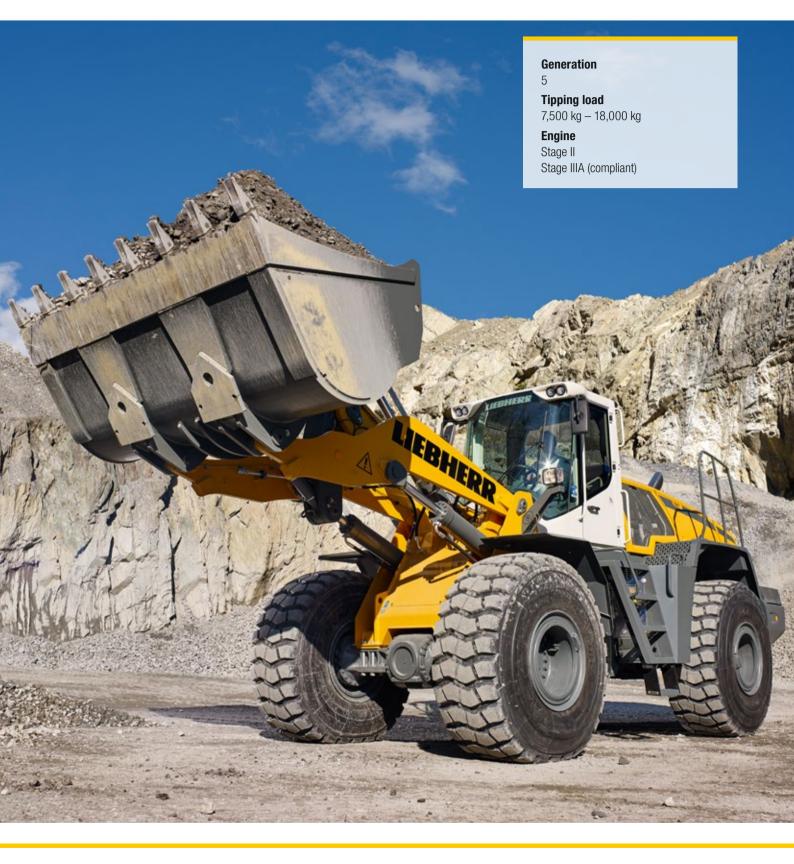
Wheel Loaders

L 524 - L 580







Economy Minimum Costs at High Handling Capacity

L 524

Tipping load, articulated 7,500 kg Bucket capacity 2.0 m³ Operating weight 10,400 kg Engine output (ISO 14396) 86 kW/117 HP

L 538

Tipping load, articulated 9,500 kg Bucket capacity 2.5 m³ Operating weight 12,800 kg Engine output (ISO 14396) 104 kW/141 HP

L 550

Tipping load, articulated 12,350 kg Bucket capacity 3.2 m³ Operating weight 17,350 kg Engine output (ISO 14396) 140 kW/190 HP

L 566

Tipping load, articulated 15,550 kg **Bucket capacity** 4.0 m³ **Operating weight** 23,100 kg **Engine output (ISO 14396)** 200 kW/272 HP

L 580

Tipping load, articulated 18,000 kg Bucket capacity 5.0 m³ Operating weight 24,720 kg Engine output (ISO 14396) 200 kW/272 HP



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 524 – L 580 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 Liebherr wheel loaders the perfect solution for all applications, especially for industrial use. The wide variety of options for specific requirements also increase 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 L 524 – L 538 or the industrial lift arm for L 550 – L 580 wheel loaders. The parallel linkage or the industrial lift arm 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

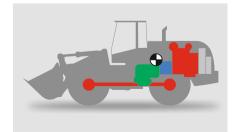
- L 524 L 580
- Optimum weight distribution due to its unique component mounting position
- Higher tipping loads at low operating weight
- · Ideal visibility due to its compact design

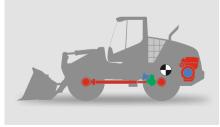
Higher Productivity at Lower Weight

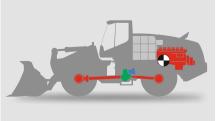
- L 524 L 550 transverse installation of the diesel engine
- L 566 L 580 lengthways-installed diesel engine, output shaft is facing to the rear
- Components act as counterweight

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







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

With Liebherr wheel loaders it is simple to do more, moving larger volumes of material with less fuel compared with conventional wheel loaders. The Liebherr driveline 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 %.

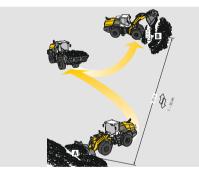
Economical Use of Resources

The lower fuel consumption 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.



Lower Fuel Consumption

- A fuel saving of up to 5 litres per operating hour represents a cost saving of up to 25%
- The Liebherr Standard Consumption Test demonstrates the operating efficiency of Liebherr wheel loaders



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
- High availability and fast support from the manufacturer

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

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.

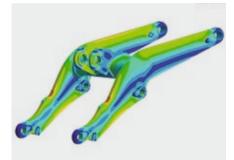
Reliable Cooling System

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





- 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



High Machine Availability

- L 524 L 550 cooling air is drawn in directly behind the cabin and blown out upwards at the rear
- L 566 L 580 lengthways-installed cooler package for improved visibility and easier cleaning and maintenance
- High, safe and versatile usage thanks to robust and powerful components

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 optional air-suspended operator's seat offers high seating comfort and relaxed working.

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 and the optional rear space camera provide ideal viewing towards the rear. 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 increase operator well-being. The air conditioning system as standard ensures a pleasant working atmosphere. This gives the operator maximum comfort and high productivity.

Simple and Intuitive Operation

Ergonomic Controls

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.

Liebherr Control Lever

The Liebherr control lever allows all working and manoeuvring operations to be performed with a high degree of precision and sensitivity. This means accurate and safe handling, and the left hand always remains on the steering wheel. This increases safety at the job site.

The proportional control of hydraulic attachment is carried out by the Liebherr control lever with mini-joystick which is optional for L 566 – L 580. The hydraulic attachment can be controlled with great sensitivity and very ergonomically.

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





Powerful

Air-Conditioning System

Greatest operator comfort

· Exceptional cooling output due

for high productivity

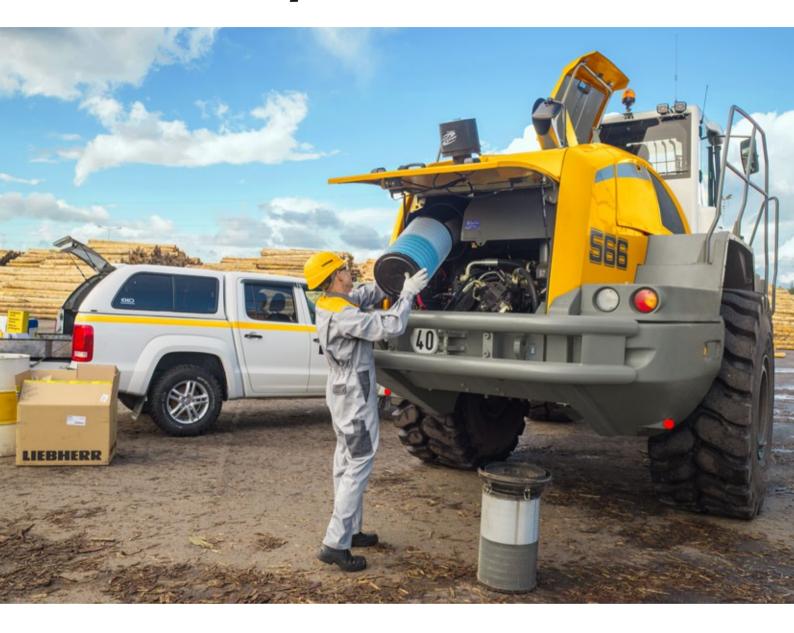
to 4-level air control

Liebherr Control Lever

- Ergonomic and comfortable operation
- Control all driving and operating manoeuvres with a single control lever
- Precise, sensitive and safe control of the machine



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

At L 524 - L 550 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.

At L 566 – L 580 most access points for daily maintenance can be reached from ground level, by opening one access panel. Work on the diesel engine and pump distributor gear is carried out while standing on the machine. Great care has been taken to ensure maximum safety in these areas as well.

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

- Most access points for daily maintenance are accessible via just one enclosure
- Most important 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
- Quick replacement part provision
- Quick and reliable service carried out by qualified service specialists



Wheel Loaders L 524 – L 580 Overview

EBHERR

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
- ✓ Z-bar linkage and parallel linkage/industrial lift arm optional

11111

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
- ✓ 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
- ✓ 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 the most important 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

Engine

Alternator

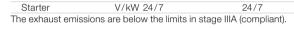
Starter

Engine			
		L 524	L 538
Diesel engine		4045HF286	4045HF286
Design		Water-cooled, tu	rbo charged, intercooled
Cylinder inline		4	4
Fuel injection proce	SS	Electronic Comm	non Rail high-pressure injection
Max. gross output			
to ISO 3046	kW/HP	86/117	104/141
and SAE J1995	at RPM	2,200	2,200
Max. net output			
to ISO 9249	kW/HP	85/116	102/139
and SAE J1349	at RPM	2,200	2,200
Rated output			
to ISO 14396	kW/HP	86/117	104/141
	at RPM	2,400	2,400
Max. net torque			
to ISO 9249	Nm	416	508
and SAE J1349	at RPM	1,400	1,400
Displacement	litres	4.5	4.5
Bore/Stroke	mm	106/127	106/127
Air cleaner syster	n	Dry air filter with	main and safety element,
		pre-cleaner, serv	ice indicator
Electrical system			
Operating voltage	V	24	24
Battery	Ah	2 x 135	2 x 135

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 - 4 km/h Speed range A1 - 2 0 - 15 km/h Speed range A1 - 3 0 - 40 km/h forward and reverse Speeds quoted apply with the tyres indicated as standard on loader model.

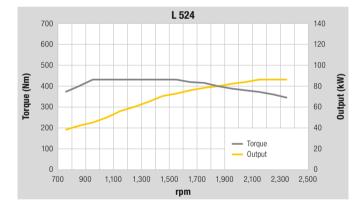
L 538 700 140 120 600 100 500 Torque (Nm) Output (kW) 400 80 60 300 40 200 - Torque 100 20 - Output 0 0 700 1,100 1,300 1,500 1,700 1,900 2,100 2,300 2,500 900 rpm



V/A 28/100

28/100

24/7



Axles

		L 524	L 538
		L 524	L 336
Four-wheel drive			
Front axle		Fixed	
Rear axle		Centre pivo side	ot, with 10° oscillating angle to each
Height of obstacles w	/hich		
can be driven over	mm	470	470
		with all four	r wheels remaining in contact with
		the ground	0
Differentials		Automatic	limited-slip differentials
Reduction gear		Planetary f	inal drive in wheel hubs
Track width		1,960 mm	with all types of tyres (L 524)
		1 900 mm	with all types of tyres (L. 538)



in Drakes	
Wear-free service	Self-locking of the hydrostatic driveline
brake	(acting on all four wheels) and additional
	pump-accumulator brake system with wet
	multi-disc brakes located in the differential
	housing (two seperate brake circuits)
Parking brake	Electro-hydraulically actuated spring-loaded
	disc brake system on the front axle
The braking system meets	the requirements of the ISO 3450.

🖉 Tyres

-	
Standard size L 524	17.5R25 L3
Standard size L 538	20.5R25 L3
Special tyres	By arrangement with the manufacturer



•	
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, optional

Attachment Hydraulics

		L 524	L 538		
Design		"Load-sensing" swash plate type variable flow pump with output and flow control, and pressure cut-off in the control block			
Cooling		-	lic oil cooling using thermostatically ed fan and oil cooler		
Filtration		Return li	line filter in the hydraulic reservoir		
Control		Liebherr control	r control lever with hydraulic servo		
Lift circuit		Float po	neutral, lowering osition controlled by Liebherr control th detent		
Tilt circuit			k, neutral, dump atic bucket return to dig as standard		
Max. flow	l/min.	102	170		
Max. pressure	bar	315	350		

Ktachment

	L 524		L 538		
Geometry variants					
Optional		Powerfull Z-bar linkage with tilt cylinder and steel cross-tube			
	Parallel cross-ti	0	two tilt cylir	nders and steel	
Bearings	Sealed				
Cycle time at					
nominal load	ZK	PK	ZK	PK	
Lifting	s 6.6	6.6	5.3	5.3	
Dumping	s 1.8	3.5	1.6	3.5	
Lowering (empty)	s 4.0	4.0	4.0	4.0	

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. Operator's door with 105° opening angle, ventilation opening on the right hand side, front windscreen made of laminated safety glass, green tinted as standard, side panels with single-pane safety glass, grey tinted, heated rear window. Continuously adjustable steering column and joystick control as standard
Liebherr operator's seat	6 way adjustable, vibration-damped operator's seat "Standard" (mechanically sprung, ajdustable to operator's weight)
Cab heating and ventilation	4-level air control, cooling water heating, mechanical controlled heating and air conditioning system as standard

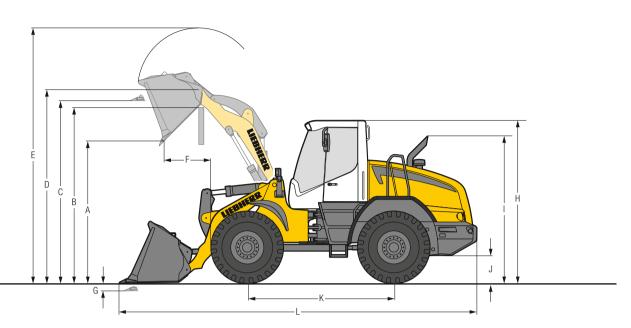
) Sound Level

	L 524	L 538	
Sound pressure le to ISO 6396	evel		
L _{pA} (inside cab)	dB(A) 69	69	
Sound power leve to 2000/14/EC	1		
L _{WA} (surround noise)) dB(A) 102	103	
) dB(A) 102	103	

Capacities

	L 524	L 538
Fuel tank	l 225	225
Engine oil		
(inclusive filter change)	14.7	14.7
Transmission	3.8	3.8
Coolant	36	36
Front axle	l 16.3/2.6	16.3/2.6
Rear axle	l 15/2.6	15/2.6
Hydraulic tank	l 110	110
Hydraulic system, total	170	180

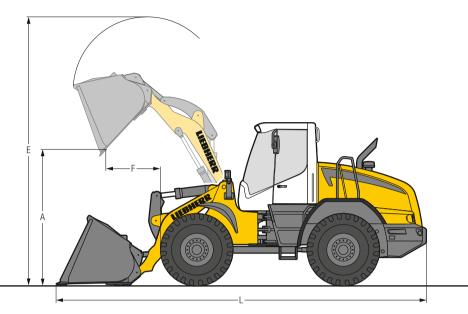
Dimensions Z-bar Linkage



Excavation Bucket	1					
		-	524		L 538	
Geometry		ZK	ZK-QC	ZK	ZK	ZK-QC
Cutting tools		Т	Т	Т	Т	Т
Lift arm length	mm	2,400	2,400	2,500	2,500	2,500
Bucket capacity according to ISO 7546**	m ³	2.0	1.7	2.5	2.7	2.2
Specific material density	t/m ³	1.8	1.8	1.8	1.6	1.8
Bucket width	mm	2,500	2,500	2,500	2,500	2,500
A Dumping height at max. lift height and 45° discharge	mm	2,870	2,765	2,900	2,845	2,770
B Dump-over height	mm	3,335	3,320	3,480	3,480	3,475
C Max. height of bucket bottom	mm	3,530	3,530	3,680	3,680	3,680
D Max. height of bucket pivot point	mm	3,775	3,775	3,930	3,930	3,930
E Max. operating height	mm	4,860	4,915	5,170	5,260	5,230
F Reach at max. lift height and 45° discharge	mm	850	900	960	1,005	1,015
G Digging depth	mm	80	80	80	80	80
H Height above operator's cab	mm	3,200	3,200	3,250	3,250	3,250
Height above exhaust	mm	2,860	2,860	2,910	2,910	2,910
J Ground clearance	mm	460	460	490	490	490
K Wheelbase	mm	2,850	2,850	2,975	2,975	2,975
L Overall length	mm	6,820	6,935	7,150	7,225	7,280
Turning circle radius over outside bucket edge	mm	5,690	5,720	5,840	5,870	5,880
Turning circle radius over tyres	mm	5,170	5,170	5,350	5,350	5,350
Width over tyres	mm	2,460	2,460	2,470	2,470	2,470
Breakout force (SAE)	kN	91	85	117	114	109
Tipping load, straight*	kg	8,500	7,900	10,700	10,500	10,200
Tipping load, fully articulated *	kg	7,500	7,000	9,500	9,300	9,000
Operating weight*	kg	10,400	10,800	12,800	13,000	13,200
Tyre size		17.5	R25 L3		20.5R25 L3	

The figures shown here are valid with tyres above (optional tyres will change the vertical dimensions), includes 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.

Attachment Light Material Bucket



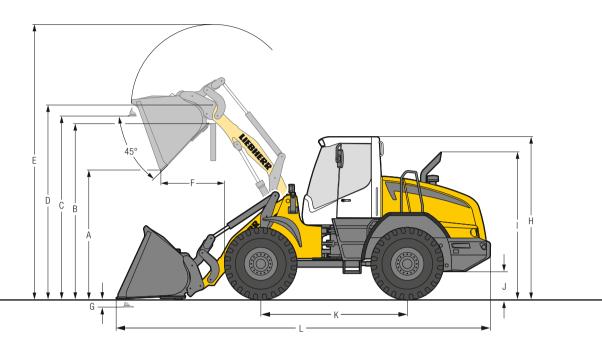
Light Material Bucket						1		
			L 5	24			L 538	
Geometry		ZK	ZK	ZK	ZK-QC	ZK	ZK	ZK-QC
Cutting tools		BOCE	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE
Bucket capacity	m ³	2.4	3.0	4.0	4.0	3.5	4.0	4.0
Specific material density	t/m ³	1.0	0.8	0.5	0.5	1.0	0.8	0.8
Bucket width	mm	2,500	2,500	2,700	2.700	2,700	2,700	2,700
A Dumping height at max. lift height	mm	2,755	2,640	2,490	2,370	2,730	2,715	2,520
E Max. operating height	mm	5,025	5,160	5,300	5,430	5,360	5,440	5,590
F Reach at maximum lift height	mm	990	1,110	1,260	1,300	1,140	1,300	1,285
L Overall length	mm	7,345	7,130	7,340	7,410	7,360	7,695	7,700
Tipping load, straight*	kg	8,450	8,260	7,970	7,370	10,420	10,190	9,520
Tipping load, fully articulated *	kg	7,450	7,290	7,040	6,510	9,190	9,000	8,390
Operating weight*	kg	10,850	10,980	11,105	11,290	13,180	13,300	13,470
Tyre size	Ŭ		17.5P	2513			20.5B2513	

 TYPE SIZE
 T7.5R25 L3
 20.5R25 L3

 * The figures shown here are valid with tyres above (optional tyres will change the vertical dimensions), includes 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, fully articulated according to ISO 14397-1)

ZK = Z-bar linkage ZK-QC = Z-bar linkage incl. quick coupler BOCE = Bolt-on cutting edge

Dimensions Parallel Linkage



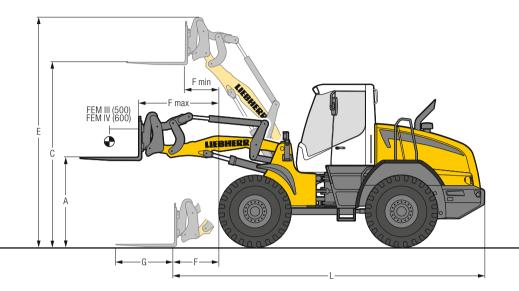
Light Material	Bucket

Light material Ducket						
		L 524 L 538				
Geometry		PK-QC	PK-QC	PK-QC	PK-QC	
Cutting tools		BOCE	BOCE	BOCE	BOCE	
Lift arm length	mm	2,500	2,500	2,500	2,500	
Bucket capacity according to ISO 7546**	m ³	3.0	5.5	4.0	6.5	
Specific material density	t/m ³	1.0	0.5	1.0	0.5	
Bucket width	mm	2,750	2,750	2,750	2,700	
A Dumping height at max. lift height and 45° discharge	mm	2,630	2,230	2,520	2,185	
3 Dump-over height	mm	3,380	3,380	3,430	3,430	
C Max. height of bucket bottom	mm	3,595	3,595	3,645	3,645	
) Max. height of bucket pivot point	mm	3,835	3,835	3,890	3,890	
Max. operating height	mm	5,290	5,670	5,460	5,925	
Reach at max. lift height and 45° discharge	mm	1,220	1,630	1,300	1,650	
a Digging depth	mm	55	55	35	35	
Height above operator's cab	mm	3,200	3,200	3,250	3,250	
Height above exhaust	mm	2,860	2,860	2,910	2,910	
Ground clearance	mm	460	460	490	490	
Wheelbase	mm	2,850	2,850	2,975	2,975	
. Overall length	mm	7,355	7,930	7,765	8,250	
Turning circle radius over outside bucket edge	mm	5,765	5,930	6,070	6,240	
Turning circle radius over tyres	mm	5,170	5,170	5,350	5,350	
Width over tyres	mm	2,460	2,460	2,470	2,470	
Breakout force (SAE)	kN	63		87		
Tipping load, straight*	kg	7,920	7,330	9,900	9,400	
Tipping load, fully articulated *	kg	6,980	6,470	8,730	8,300	
Operating weight*	kg	11,800	12,200	13,600	13,950	
Tyre sizes		17.5	R25 L3	20.5R	25 L3	

* The figures shown here are valid with tyres above (optional tyres will change the vertical dimensions), includes all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tyres and optional equipment will charge 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.

PK-QC = Parallel linkage incl. quick coupler

BOCE = Bolt-on cutting edge



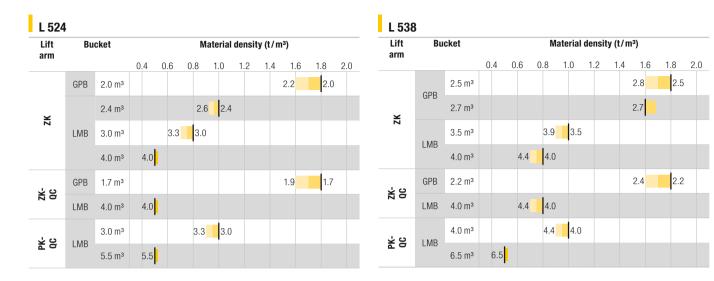
			L 52	24	L 5;	38
	Geometry		ZK-QC	PK-QC	ZK-QC	PK-QC
1	Lifting height at max. reach	mm	1,690	1,690	1,781	1,739
;	Max. lifting height	mm	3,580	3,645	3,738	3,697
	Max. operating height	mm	4,510	4,560	4,662	4,612
-	Reach at loading position	mm	975	1,110	939	975
max.	Max. reach	mm	1,625	1,720	1,635	1,635
min.	Reach at max. lifting height	mm	695	780	694	695
3	Fork length	mm	1,200	1,200	1,200	1,200
-	Length – basic machine	mm	6,190	6,325	6,350	6,390
	Tipping load, straight *	kg	6,000	6,480	7,880	8,150
	Tipping load, fully articulated *	kg	5,300	5,700	6,940	7,200
	Recommended payload for uneven ground					
	= 60 % of tipping load, articulated ¹⁾	kg	3,180	3,420	4,150	4,320
	Recommended payload for smooth surfaces					
	= 80% of tipping load, articulated 1)	kg	4,010 ³⁾	4,580	5,000 2)	5,000 ³⁾
	Operating weight*	kg	10,600	11,260	12,700	12,900
	Tyre size		17.5R2	25 L3	20.5R2	25 L3

* The figures shown here are valid with tyres above (optional tyres will change the vertical dimensions), includes 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⁾ Load capacity for the fork carrier and forks is limited to 5,000 kg
 ³⁾ Payload on forks is limited by tilt cylinder

 $\label{eq:constraint} \begin{array}{l} \mathsf{ZK}\mbox{-}\mathsf{QC} = \mathsf{Z}\mbox{-}\mathsf{bar}\ \mbox{linkage incl. quick coupler} \\ \mathsf{PK}\mbox{-}\mathsf{QC} = \mathsf{Parallel linkage incl. quick coupler} \end{array}$

Bucket Selection



Bucket Filling Factor

110% 105% 100% 95%

Lift Arm	1	Bucke	t
ZK	Z-bar linkage, standard lift arm length	GPB	General purpose bucket (Excavation bucket)
ZK-QC	Z-bar linkage, with quick coupler, standard lift arm length	LMB	Light material bucket
PK-QC	Parallel linkage with quick coupler, standard lift arm length		

Bulk Material Densities and Bucket Filling Factors

		t/m³	%			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	dry	1.7	105	Sandstone		1.6	100	Paper	shredded/loose	0.6	110
Sand	wet	2.0	100	Slate		1.75	100		recovered paper/cardboard	1.0	110
Sand/Clay		1.6	110	Bauxite		1.4	100	Coal	heavy material density	1.2	110
Clay	natural	1.6	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
Clay/Gravel	dry	1.4	110	Coke		0.5	110		bulky waste	1.0	100
	wet	1.6	100	Slag	broken	1.8	100				

Technical Data

Engine L 550 L 566 L 580 **Diesel engine** 6068HFL84 Stage II: Stage II: 6090HFL75 6090HFL75 Stage IIIA: Stage IIIA: 6090HFL85 6090HFL85 Design Water-cooled, turbo charged, intercooled Cylinder inline 6 6 6 Fuel injection process Electronic Common Rail high-pressure injection Max. gross output kW/HP 147/200 to ISO 3046 209/284 209/284 and SAE J1995 at RPM 1,600 1,600 1,600 Max. net output to ISO 9249 kW/HP 146/199 206/280 206/280 at RPM 2,000 and SAF J1349 1,600 1,600 Rated output to ISO 14396 kW/HP 140/190 200/272 200/272 at RPM 2,400 2.000 2,000 Max. net torque 1,300 1,300 to ISO 9249 Nm 848 and SAE J1349 at RPM 1,300 1,500 1,500 Displacement 9.0 9.0 litres 6.8 Bore/Stroke mm 106/127 118.4/136 118.4/136 Dry air filter with main and safety element, Air cleaner system pre-cleaner, service indicator Electrical system

Operating voltage	V 24	24	24	
Battery	Ah 2 x 140	2 x 180	2 x 180	
Alternator	V/A 28/100	28/100	28/100	
Starter	V/kW 24/7.8	24/7.8	24/7.8	

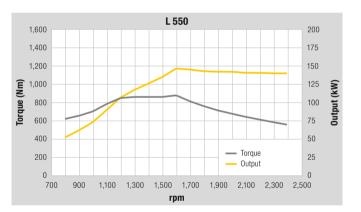
L 550: Available for exhaust emission limits of stage II, China III, Bharat stage III (India).

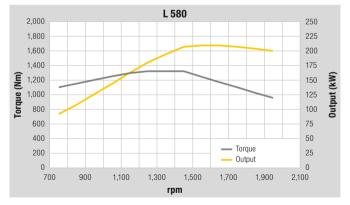
L 566/L 580: Availability of models with exhaust standards of stage II or stage IIIA (compliant) depends on emission regulations in respective countries.

L 566 2,000 250 1,800 225 1,600 200 1,400 175 Torque (Nm) Output (kW) 1,200 150 125 1,000 100 800 75 600 50 400 - Torque 200 25 Output 0 0 700 900 1,100 1,300 1,500 1.700 1,900 2,100 rpm

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	L 550:			
	Speed range 1 0 - 4 km/h Speed range A1 - 2 0 - 15 km/h Speed range A1 - 3 0 - 40 km/h forward and reverse L 566/L 580:			
	Speed range 1 0 – 10 km/h			
	Speed range 2 and A2 0 – 20 km/h Speed range A3 0 – 40 km/h forward and reverse			
	Speeds quoted apply with the tyres indicated as standard on loader model.			





Technical Data

Axles

		L 550	L 566	L 580		
Four-wheel drive						
Front axle		Fixed				
Rear axle		Centre pivo side	t, with 13° osci	illating angle to each		
Height of obstacles whi	ch					
can be driven over	mm	460	490	490		
		with all four the ground	wheels remain	ing in contact with		
Differentials		Automatic I	imited-slip diffe	erentials		
Reduction gear		Planetary final drive in wheel hubs				
Track width		2,000 mm with all types of tyres (L 550)				
2,230 mm with all types of tyres (L 566, L				f tyres (L 566, L 580)		



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 (two seperate brake circuits)
Parking brake	Electro-hydraulically actuated spring-loaded
	disc brake system on the transmission

The braking system meets the requirements of the ISO 3450.

Tyres

Standard size L 550	23.5R25 L3
Standard size L 566	26.5R25 L3
Standard size L 580	26.5R25 L3
Special tyres	By arrangement with the manufacturer



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

Attachment Hydraulics

	L	550	L 566	L 580	
Design	р	ump wi	· ·	late type variable flow ow control, and press ck	
Cooling		·	c oil cooling usi ed fan and oil co	ng thermostatically oler	
Filtration	R	eturn li	ne filter in the h	ydraulic reservoir	
Control		iebherr ontrol	control lever w	th hydraulic servo	
Lift circuit	F	loat po	eutral, lowering sition controlled h detent	by Liebherr control	
Tilt circuit			, neutral, dump ic bucket returr	n to dig as standard	
Max. flow	l/min. 2	34	290	290	
Max. pressure	bar 3	60	380	380	



L 550 L 566 L 580 Geometry variants Optional Powerful Z-bar linkage with tilt cylinder and cast steel cross-tube Industrial lift arm with tilt cylinder, hydraulic quick coupler as standard Bearings Sealed Cycle time at nominal load IND ZK ZK IND ZK IND Lifting s 5.5 5.5 5.5 5.5 5.5 5.5 Dumping s 2.3 3.5 2.0 3.0 2.0 3.2 Lowering (empty) s 2.7 2.7 3.5 3.5 3.5 3.5

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 Operator's door with 105° (L 550)/180° (L 566, L 580) opening angle, ventilation opening on the right hand side, front windscreen made of laminated safety glass, green tinted as standard, side panels with single-pane safety glass, grey tinted, heated rear window. Continuously adjustable steering column and joystick control as standard
Liebherr operator's seat	6 way adjustable, vibration-damped operator's seat "Standard" (mechanically sprung, ajdustable to operator's weight)
Cab heating and ventilation	4-level air control, cooling water heating, mechanical controlled heating and air conditioning system as standard

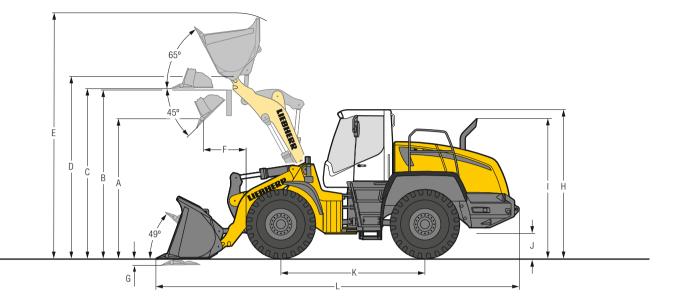
🔊 Sound Level

	L 550	L 566	L 580
Sound pressure lev to ISO 6396	el		
L _{pA} (inside cab)	dB(A) 75	71	71
Sound power level to 2000/14/EC			
Lwa (surround noise)	dB(A) 105	106	106

Capacities

	L 550	L 566	L 580
Fuel tank	300	400	400
Engine oil			
(inclusive filter change)	l 19.5	34	34
Pump distribution			
gearbox	1	2.5	2.5
Transmission	4.1	11.5	11.5
Coolant	38	42	42
Front axle	1 35	42	42
Rear axle	35	42	42
Hydraulic tank	l 135	135	135
Hydraulic system, total	240	290	290

Dimensions Z-bar Linkage



Excavation Bucket

			L 550			L 566			L 580	
		STD	STD	HL	STD	STD	HL	STD	STD	HL
Geometry		ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK
Cutting tools		Т	Т	Т	Т	Т	Т	Т	Т	Т
Lift arm length	mm	2,750	2,750	3,050	2,920	2,920	3,250	3,050	3,050	3,250
Bucket capacity according to ISO 7546**	m ³	3.2	3.6	3.2	4.0	4.5	4.0	5.0	5.5	5.0
Specific material density	t/m³	1.8	1.6	1.6	1.8	1.6	1.6	1.8	1.6	1.6
Bucket width	mm	2,700	2,700	2,700	3,000	3,000	3,000	3,300	3,300	3,300
A Dumping height at max. lift height and 45° discharge	mm	3,140	3,050	3,590	3,240	3,185	3,665	3,320	3,250	3,530
B Dump-over height	mm	3,700	3,700	4,100	3,900	3,900	4,300	4,100	4,100	4,300
Max. height of bucket bottom	mm	3,920	3,920	4,330	4,050	4,050	4,470	4,270	4,270	4,470
Max. height of bucket pivot point	mm	4,180	4,180	4,600	4,360	4,360	4,780	4,580	4,580	4,780
Max. operating height	mm	5,660	5,750	6,100	5,870	5,960	6,285	6,340	6,420	6,540
Reach at max. lift height and 45° discharge	mm	1,020	1,100	960	1,180	1,240	1,070	1,150	1,220	1,215
Digging depth	mm	85	85	130	100	100	140	100	100	140
Height above operator's cab	mm	3,360	3,360	3,360	3,590	3,590	3,590	3,590	3,590	3,590
Height above exhaust	mm	3,015	3,015	3,015	3,000	3,000	3,000	3,000	3,000	3,000
Ground clearance	mm	490	490	490	535	535	535	535	535	535
K Wheelbase	mm	3,305	3,305	3,305	3,780	3,780	3,780	3,900	3,900	3,900
Overall length	mm	8,300	8,400	8,720	9,260	9,340	9,715	9,645	9,745	9,915
Turning circle radius over outside bucket edge	mm	6,480	6,540	6,700	7,580	7,600	7,765	7,910	7,940	8,025
Turning circle radius over tyres	mm	5,885	5,885	5,885	6,995	6,995	6,995	7,150	7,150	7,150
Width over tyres	mm	2,650	2,650	2,650	2,960	2,960	2,960	2,960	2,960	2,960
Breakout force (SAE)	kN	140	130	120	200	190	175	190	175	175
Tipping load, straight*	kg	14,150	13,950	12,240	18,000	17,800	15,015	20,750	20,550	19,020
Tipping load, fully articulated *	kg	12,350	12,150	10,800	15,550	15,350	13,245	18,000	17,800	16,845
Operating weight*	kg	17,350	17,450	17,440	23,100	23,200	23,620	24,720	24,870	25,540
Tyre sizes			23.5R25 L3			26.5R25 L3			26.5R25 L3	

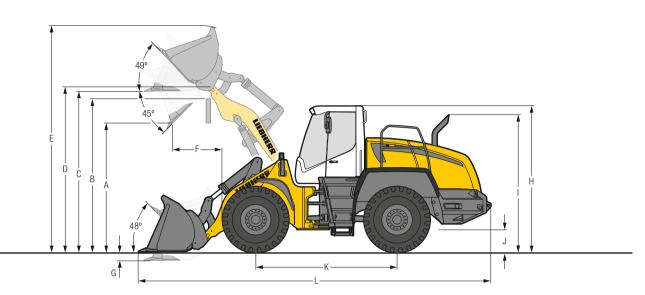
The figures shown here are valid with tyres above (optional tyres will change the vertical dimensions), includes all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tyres and optional equipment will change the operating weight and tipping load, (Tipping load, fully articulated 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 29.

 $\begin{array}{l} \text{STD} = \text{Standard lift arm length} \\ \text{HL} &= \text{High Lift} \end{array}$

ZK = Z-bar linkage

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

Dimensions Industrial Lift Arm



Excavation Bucket				
		L 550	L 566	L 580
Geometry		IND-QC	IND-QC	IND-QC
Cutting tools		Т	Т	Т
Lift arm length	mm	2,600	2,900	2,900
Bucket capacity according to ISO 7546**	m ³	3.0	3.5	4.5
Specific material density	t/m ³	1.8	1.8	1.8
Bucket width	mm	2,700	3,000	3,000
Dumping height at max. lift height and 45° discharge	mm	2,880	3,210	3,070
Dump-over height	mm	3,500	3,900	3,900
Max. height of bucket bottom	mm	3,795	4,145	4,145
Max. height of bucket pivot point	mm	4,075	4,490	4,490
Max. operating height	mm	5,580	6,045	6,265
Reach at max. lift height and 45° discharge	mm	1,135	1,270	1,290
Digging depth	mm	80	100	100
Height above operator's cab	mm	3,360	3,590	3,590
Height above exhaust	mm	3,015	3,000	3,000
Ground clearance	mm	490	535	535
Wheelbase	mm	3,305	3,780	3,900
Overall length	mm	8,350	9,345	9,545
Turning circle radius over outside bucket edge	mm	6,500	7,575	7,720
Turning circle radius over tyres	mm	5,885	6,995	7,150
Width over tyres	mm	2,650	2,960	2,960
Breakout force (SAE)	kN	125	200	200
Tipping load, straight*	kg	12,700	15,650	19,800
Tipping load, fully articulated*	kg	10,950	13,400	17,100
Operating weight*	kg	17,950	24,150	25,750
Tyre sizes		23.5R25 L3	26.5R25 L3	26.5R25 L3

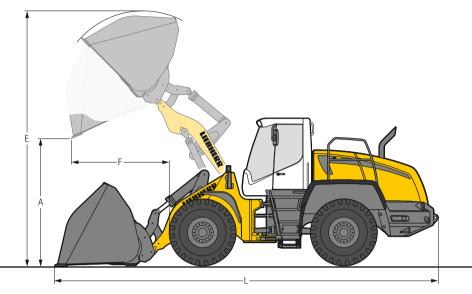
The figures shown here are valid with tyres above (optional tyres will change the vertical dimensions), includes all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tyres and optional equipment will change the operating weight and tipping load, fully articulated according 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 29.

IND-QC = Industrial lift arm with parallel guidance incl. quick coupler

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

Attachment Light Material Bucket



Light Material Bucket

Light Material Bucket							
		L 550		Lt	66	L 580	
Geometry		IND-QC	IND-QC	IND-QC	IND-QC	IND-QC	IND-QC
Cutting tools		BOCE	BOCE	BOCE	BOCE	BOCE	BOCE
Bucket capacity	m ³	5.0	9.0	6.5	12.0	7.5	14.0
Specific material density	t/m³	1.0	0.5	1.0	0.45	1.0	0.45
Bucket width	mm	2,950	3,400	3,200	3,700	3,400	4,000
Dumping height at max. lift height	mm	2,550	2,340	2,885	2,620	2,810	2,480
Max. operating height	mm	5,900	6,110	6,470	6,700	6,580	6,800
Reach at maximum lift height	mm	1,450	1,705	1,485	1,860	1,550	1,950
Overall length	mm	8,600	8,970	9,620	10,100	9,715	10,200
Tipping load, straight*	kg	11,950	11,450	14,600	13,850	18,700	16,450
Tipping load, fully articulated *	kg	10,300	9,750	12,400	12,100	16,000	14,400
Operating weight*	kg	18,250	18,950	24,700	25,650	26,400	27,300
Tyre size		23.5F	25 L3	26.5F	25 L3	26.5F	25 L3

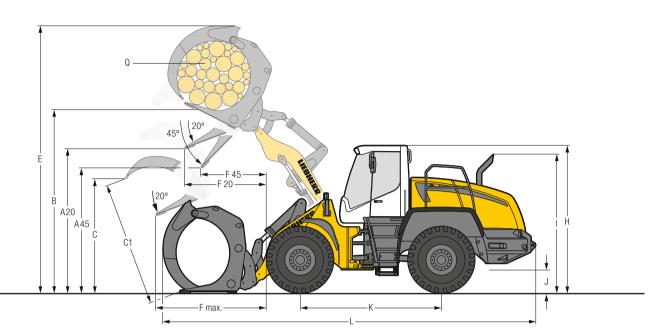
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* The figures shown here are valid with tyres above (optional tyres will change the vertical dimensions), includes all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tyres and optional equipment will change the operating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

$$\label{eq:IND-QC} \begin{split} \text{IND-QC} &= \text{Industrial lift arm with parallel guidance incl. quick coupler} \\ \text{BOCE} &= \text{Bolt-on cutting edge} \end{split}$$

Attachment Log Grapple



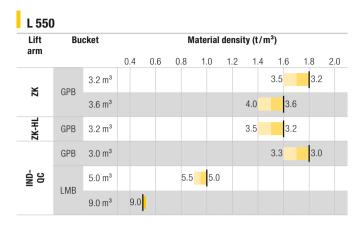


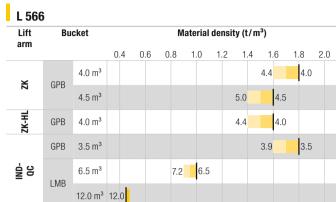
			L 550	L 566	L 580
	Geometry		IND-QC	IND-QC	IND-QC
20	Discharge height at 20°	mm	3,570	3,570	3,520
45	Discharge height at 45°	mm	2,950	2,930	2,805
140	Manipulation height	mm	4,530	5,125	5,125
	Max. grapple opening in loading position	mm	2,740	2,650	2,930
;1	Max. grapple opening	mm	2,990	3,050	3,340
	Max. height	mm	6,480	7,400	7,500
20	Reach at max. lifting height at 20° discharge	mm	1,890	2,165	2,215
45	Reach at max. lifting height at 45° discharge	mm	1,530	1,620	1,625
max.	Max. reach	mm	2,820	3,110	3,160
	Height above operator's cab	mm	3,360	3,590	3,590
	Height above exhaust	mm	3,015	3,000	3,000
	Ground clearance	mm	490	535	535
	Wheelbase	mm	3,305	3,780	3,900
	Overall length	mm	8,700	9,880	10,050
	Width over tyres	mm	2,650	2,970	2,970
1	Grapple diameter	m ²	2.4	3.1	3.5
	Grapple width	mm	1,600	1,800	1,800
	Payload*	kg	6,400	8,200	9,200
	Operating weight*	kg	19,450	25,750	28,000
	Tyre size		23.5R25 L3	26.5R25 L3	26.5R25 L3

* The figures shown here are valid with tyres above (optional tyres will change the vertical dimensions), includes 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.

IND-QC = Industrial lift arm with parallel guidance incl. quick coupler

Bucket Selection





L 580

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
zК	GPB	5.0 m ³							5.5	5.0	
	GFD	5.5 m ³						6.0	5.5		
ZK-HL	GPB	5.0 m ³						5.5	5.0		
	GPB	4.5 m ³							5.0	4.5	
- GN SC	LMB	7.5 m ³			8.3	7.5					
	LIVID	14.0 m ³	14.0								

Bucket Filling Factor



Lift Arm

ZK	Z-bar linkage, standard lift arm length
ZK-HL	Z-bar linkage, High Lift
IND-QC	Industrial lift arm with guick coupler, standard lift arm length

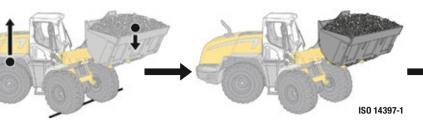
Bulk Material Densities and Bucket Filling Factors

		t/m³	%			t/m³	%			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/S	Saw dust	0.5	110
Gravel and	dry	1.7	105	Sandstone		1.6	100	Paper	shredded/loose	0.6	110
Sand	wet	2.0	100	Slate		1.75	100		recovered paper/cardboard	1.0	110
Sand/Clay		1.6	110	Bauxite		1.4	100	Coal	heavy material density	1.2	110
Clay	natural	1.6	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
Clay/Gravel	dry	1.4	110	Coke		0.5	110		bulky waste	1.0	100
	wet	1.6	100	Slag	broken	1.8	100				

Bucket

GPB	General purpose bucket (Excavation bucket)
LMB	Light material bucket

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.

Pay load =	Tipping load, articulated
	Pav load (t)
Bucket capacity = -	Specific bulk weight of material (t/m3)

Specific bulk weight of material (t/m³)

13.5

17.3

19.1

The Liebherr Wheel Loaders

Wheel Loader					NO LOS	NOR
		L 524	L 538	L 550	L 566	L 580
Tipping load	kg	7,500	9,500	12,350	15,550	18,000
Bucket capacity	m ³	2.0	2.5	3.2	4.0	5.0
Operating weight	kg	10,400	12,800	17,350	23,100	24,720
Engine output (ISO 14396)	kW/HP	86/117	104/141	140/190	200/272	200/272

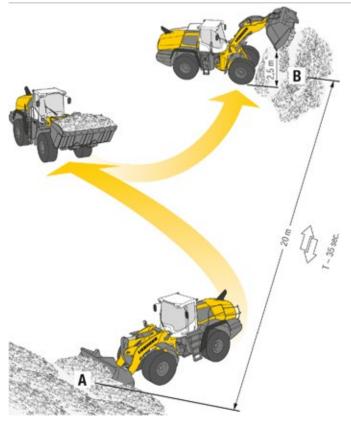
L 550: 3.2 m³

L 566: 4.0 m³

L 580: 5.0 m³

06.17

Environmental Protection Can Help You Earn Money!



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

n = 30

n = 23

n = 21

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:

400ConsumptionNumber of loading cyclesper hour						
Values for the Liebherr Wheel Loaders						
	Numbers of working cycles	Litres/ 100 tons	Litres/ hour			
L 524: 2.0 m ³	n = 47	2.9	8.5			
L 538: 2.5 m ³	n = 39	2.9	10.3			

2.9

3.0

2.6

Equipment

ම් Basic Wheel Loader	L 524	L 538	L 550	L 566	L 580
Crash protection, rear	+	+	+	+	+
Automatic central lubrication system	+	+	+	+	+
Battery main switch (lockable)	•	•	•	•	٠
Ride control	+	+	+	+	+
Parking brake	•	•	•	٠	٠
Fluff trap for radiator	+	+	+	+	+
Speed limitor V _{max} adjustable key on the control unit	•	•	•	٠	٠
Pre-heat system for cold starting	•	٠	٠	٠	٠
Rear license panel light	+	+	+	+	+
Combined inching-braking system	•	٠	٠	٠	٠
Steel mudguard	•	•	•	•	٠
Steel fuel tank	•	٠	٠	٠	٠
Fuel pre-filter	•	•	•	٠	٠
Fuel pre-filter with pre-heating	•	٠	٠	•	٠
Large-mesh radiator	+	+	+	+	+
Cooling water pre-heating 230 V	+	+	+	+	+
Multi-disc limited slip differentials in both axles	•	•	•	•	٠
Reversible fan drive	+	+	+	+	+
Headlights rear, single design (on tail flap), halogen	•	•	•	٠	٠
Auxiliary heater (Additional heating with engine preheating)	+	+	+	+	+
Lockable doors and engine hood	•	•	•	٠	٠
Chassis protection rear	+	+	+	+	+
Chassis protection front	+	+	+	+	+
Chock	+	+	+	+	+
Air pre-cleaner TOP SPIN	+	+	+	+	+
Toolbox with toolkit	•	٠	•	•	٠
Towing hitch	•	•	•	•	٠

Equipment	L 524	L 538	L 550	L 566	L 580
Working hydraulics lockout	•	•	٠	٠	٠
Automatic hoist kick-out – adjustable	-	-	+	+	+
Automatic bucket return – adjustable	•	•	•	•	•
Fork carrier and pallet forks	+	+	+	+	+
High-dump bucket	+	+	+	+	+
Log grapple	+	+	+	+	+
High Lift arms	-	-	+	+	+
Industrial lift arm	-	-	+	+	+
Lift arm parallel linkage	+	+	-	-	-
Lift arm Z-bar linkage	•	•	•	٠	٠
Hydraulic quick coupler	+	+	+	+	+
Tilt cylinder protection	+	+	+	+	+
Loading buckets incl. a range of cutting tools	+	+	+	+	+
Light material bucket	+	+	+	+	+
Load holding valves	+	+	+	+	+
Float position	•	٠	٠	٠	•
3rd hydraulic control circuit	+	+	+	+	+

Equipment

Dperator's Cab	L 524	L 538	L 550	L 566	L 580
Exterior mirror, tiltable and adjustable	•	٠	•	•	٠
Operating hour meter (integrated in display unit)	•	•	٠	٠	٠
Storage box	•	•	•	•	•
Operator's seat – air sprung	+	+	+	+	+
Operator seat "Comfort" – air sprung with seat heating	+	+	+	+	+
Operator seat "Standard" – mechanically sprung	•	•	٠	•	٠
Heater	•	•	•	•	٠
Floor mat	•	٠	٠	٠	٠
Clothes hook	•	•	٠	٠	٠
Air conditioning system	•	•	٠	٠	٠
Headrest	+	+	+	+	+
Steering column adjustable	•	•	٠	•	٠
Liebherr control lever – adjustable	•	•	•	•	•
Radio Liebherr "Standard" (SD/USB/AUX)	•	•	٠	٠	٠
Interior rear-view mirror	•	•	•	•	٠
Amber beacon swiveling/fixed	+	+	+	+	+
Soundproof ROPS/FOPS cab	•	•	•	•	٠
Wipe and wash system	•	•	٠	٠	٠
Headlights rear, single design, halogen	•	•	•	•	•
Headlights rear, double design, halogen	+	+	+	-	-
Headlights rear, double design, LED	-	-	-	+	+
Headlights front, double design, halogen	•	•	٠	٠	٠
Windscreen guard	+	+	+	+	+
Sun visor front	•	•	٠	•	•
Power socket 12 V	•	•	•	•	•
Preperation for LiDAT	+	+	+	+	+
Cigarette lighter	•	•	•	•	•

Safety	L 524	L 538	L 550	L 566	L 580
Country-specific versions	+	+	+	+	+
Emergency steering system	+	+	+	+	+
Back-up alarm acoustic	•	•	•	•	•
Rear space monitoring with camera	+	+	+	+	+

• = Standard + = Option - = not available

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