

Wheel Loaders

# L 550 - L 586

**Xpower**<sup>®</sup>

**Xpower**<sup>®</sup>

**Generation**

6

**Tipping load**

12,200 – 21,600 kg

**Engine**

Stage IV/Tier 4f

Stage V/Tier 4f



# LIEBHERR



reddot award 2016  
winner

## Performance

Power for Increased  
Productivity

## Economy

Minimum Costs at  
High Handling Capacity

### L 550 XPower®

**Tipping load, articulated** 12,200 kg

**Bucket capacity** 3.2 m<sup>3</sup>

**Operating weight** 17,700 kg

**Engine output (ISO 14396)**

140 kW/190 HP

### L 556 XPower®

**Tipping load, articulated** 13,700 kg

**Bucket capacity** 3.6 m<sup>3</sup>

**Operating weight** 18,400 kg

**Engine output (ISO 14396)**

165 kW/224 HP

### L 566 XPower®

**Tipping load, articulated** 15,900 kg

**Bucket capacity** 4.2 m<sup>3</sup>

**Operating weight** 23,900 kg

**Engine output (ISO 14396)**

200 kW/272 HP

### L 576 XPower®

**Tipping load, articulated** 17,600 kg

**Bucket capacity** 4.7 m<sup>3</sup>

**Operating weight** 25,700 kg

**Engine output (ISO 14396)**

215 kW/292 HP

### L 580 XPower®

**Tipping load, articulated** 19,200 kg

**Bucket capacity** 5.2 m<sup>3</sup>

**Operating weight** 27,650 kg

**Engine output (ISO 14396)**

230 kW/313 HP

### L 586 XPower®

**Tipping load, articulated** 21,600 kg

**Bucket capacity** 6.0 m<sup>3</sup>

**Operating weight** 32,600 kg

**Engine output (ISO 14396)**

260 kW/354 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-XPowerr driveline considerably increases working efficiency. Quick working cycles, high tipping loads and high machine availability lead to increased handling capacity.

# Powerful and Efficient Drive Concept

## Highest Level of Performance

The Liebherr-XPower driveline brings together the hydrostatic and mechanical drive. The interaction between these two different drives is continuously adjusted automatically to the given application. As a result, XPower® offers the optimal level of efficiency during material loading and transport, as well as providing maximum acceleration and performance along all loading cycles – including long routes. All components are also ideally adapted to each other. XPower® stands for maximum efficiency.

## Continuously Variable Transmission

The Liebherr-XPower 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 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 high tipping loads and greater handling capacity per hour of operation.

The Liebherr-XPower driveline accelerates quickly, allowing high travel speeds. Time savings can be made on flat terrain, as well as on inclines. As a result, there are considerable gains in productivity.

# 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 industrial lift arm for L 550 – L 566 and L 580 wheel loaders at no extra charge. 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 new 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-XPower Driveline L 550 – L 586

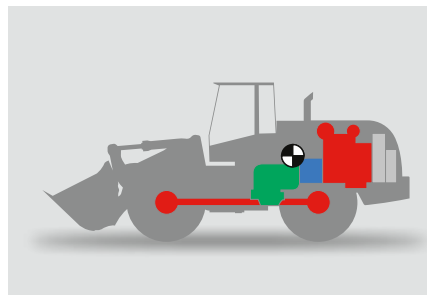
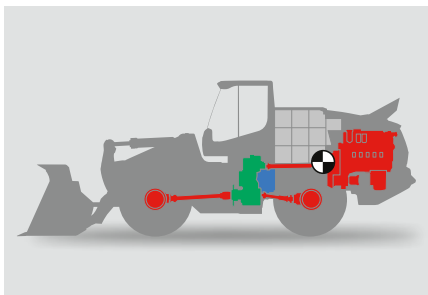
- Future-proof driveline for powerful uses
- Optimum weight distribution due to its unique component mounting position
- Ideal visibility due to its compact design

### 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 bad visibility

### An All-Purpose Loader

The option to choose between industrial lift arm 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-XPower driveline with Liebherr-Power-Efficiency (LPE) achieves a reduction in fuel consumption of up to 30%. At highest efficiency this reduces operating costs and increases profitability.

## Hardly Any Brake Wear

The Liebherr-XPower 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 Gas Treatment <sup>1)</sup>

The Liebherr-SCR technology including diesel particulate filter is an efficient system for the exhaust gas treatment. This is fitted with a diesel oxidation catalyst (DOC), a diesel particle filter (DPF) and selective catalytic reduction (SCR) so as to reduce exhaust emissions.

## Economical Use of Resources

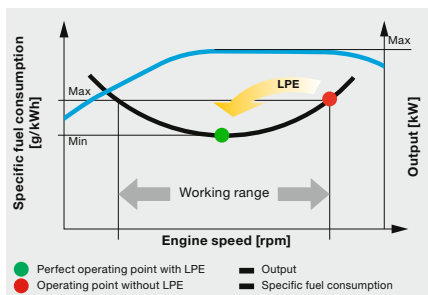
The lower fuel consumption and efficient exhaust gas treatment cut emissions. This actively saves resources. While actively protecting the environment, Liebherr wheel loaders reduce operating costs.

# 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 550 XPower® – L 586 XPower® wheel loaders.

<sup>1)</sup> For selected markets, where stage IV / Tier 4f emission standards represent the latest statutory emission regulations, the models are still available with the proven Liebherr-SCR technology.



## 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

- Practically no brake wear due to hydraulic-mechanical 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 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.



### Powerful Liebherr's Own Components

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

## High Safe and Versatile Usage

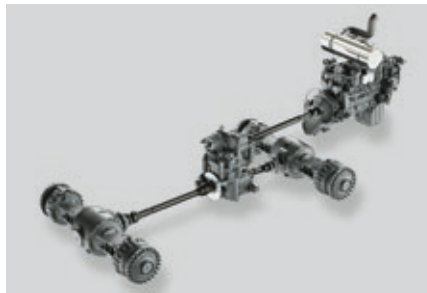
### Wear-Free Drive Concept

The components of the Liebherr XPower driveline are extremely robust and low-wear. The variable distribution of forces between the hydrostatic and mechanical drive also leads to reduced loads on the drive path. XPower® ensures a long life time of the machine and reliability in use.

### Continuous Use <sup>1)</sup>

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.

<sup>1)</sup> For selected markets, where stage IV / Tier 4f emission standards represent the latest statutory emission regulations, the models are still available with the proven Liebherr-SCR technology.



### High Machine Availability

- Reduced load on the driveline through the subdivision of forces
- High, safe and versatile usage thanks to robust, low-wear components
- Tried and tested exhaust gas treatment system

## 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 Liebherr diesel engine and produces exactly the cooling air output which is actually required. Heat sensors ensure reliable control.



### 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 optional laterally-sprung 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 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. With air conditioning as standard, the improved cooling output ensures a pleasant working atmosphere. This gives the operator maximum comfort and high productivity.

The optional Liebherr key with remote control incl. Coming Home/Leaving Home function opens the operator's doors automatically and turns on the lights – for safe and comfortable start-up of the machine.

### 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



## 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.

### Joystick Steering (optional)

The optional joystick steering integrated into the operator's seat is a new, innovative and improved steering system. All the machine's working and driving functions can be controlled precisely and with a high degree of sensitivity. The intuitive operation is similar to that of a steering wheel, and the joystick's orientation corresponds to the desired wheel loader articulation angle. In addition, the forces acting on the steering are transmitted to the joystick. This makes precise and safe operation possible at any speed.

The operator's cab is also optionally available without steering wheel and column with joystick steering only. Eliminating the need for the operator to move their hands between the steering unit and the control unit increases safety and comfort.

### 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.

### Joystick Steering (optional)

- Ergonomic and comfortable operation
- Speed-dependent force feedback for precise and safe steering behaviour
- Simple handling through intuitive operation



### Intuitive Controls

- Quick recoding of operation-relevant machine data
- Ease of controls increases working efficiency
- Liebherr reverse camera available as standard – built into the touchscreen display



# Maintainability



## Time and Cost Savings Through Simple Maintenance

The most important points for daily maintenance can be seen at a glance in the access area of Liebherr-XPowerr wheel loaders. 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 contributes to a reduction in maintenance and cleaning expenses by reducing contamination. This saves time and money.

## Safe and Free Service Access

All points requiring day-to-day maintenance can be reached comfortably, safely and cleanly. Anti-slip steps and sturdy handrails provide a high degree of safety.

## Short Service Times for More Productivity

The engine hood, which opens up electrically towards the rear, ensures safe, free access to the entire engine compartment. The service points are easy to see and reach. All maintenance work can be carried out comfortably and safely from a level base in the engine hood. This ensures time-saving maintenance and increases productivity.

Improved access to the windscreen and cab filter box is provided by the access on the right hand side of the machine. Sturdy hand rails and a fold-out ladder provide a high level of safety during cleaning and maintenance.

# 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
- The most important fill levels can be seen in the loading area
- 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 550 XPower® - L 586 XPower® Overview

## **Sturdy Attachment**

- + Quick working cycles
- + 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
- ✓ Industrial lift arm and Z-bar linkage  
optional

## **Powerful and Efficient Liebherr-XPower Driveline**

- + Fuel savings of up to 30 %
- + 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

- ✓ Drive components optimally  
suited to each other by LPE
- ✓ Powerful power split driveline
- ✓ Rugged and durable driveline
- ✓ Ideal weight distribution by intelligent  
arrangement of drive components
- ✓ Continuous tractive force prevents  
wheelspin
- ✓ Self-locking hydraulic-mechanical  
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 Liebherr control lever mounted into the operator's seat
  - ✓ 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
- 
- ✓ Rapid control of the most important maintenance points in the access area
  - ✓ Safe, simple and quick access to all points important for operations

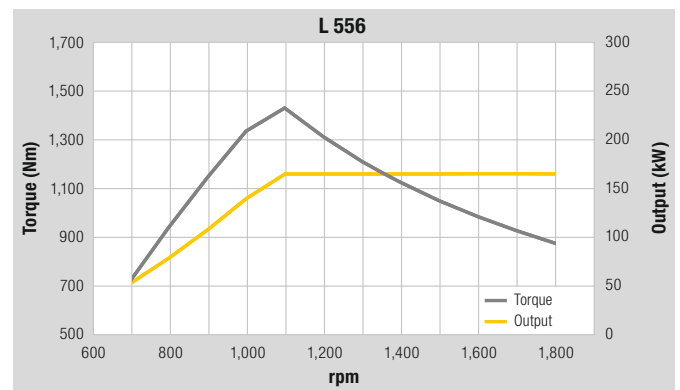
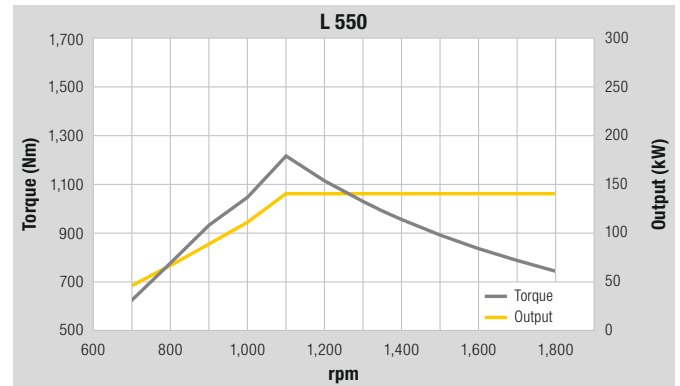
# Technical Data



## Engine

	L 550	L 556
<b>Diesel engine</b>	D934 A7	D944 A7
Design	Stage V: Water-cooled in-series engine with charge-air cooling, exhaust gas treatment through Liebherr-SCR technology, closed diesel particle filter system as standard Stage IV: Water-cooled in-series engine with charge-air cooling, exhaust gas treatment through Liebherr-SCR technology	
Cylinder inline	4	4
Fuel injection process	Electronic Common Rail high-pressure injection	
Max. gross output to ISO 3046 and SAE J1995	kW/HP 143/194 at RPM 1,100 – 1,800	168/228 1,100 – 1,800
Max. net output to ISO 9249 and SAE J1349	kW/HP 140/190 at RPM 1,100 – 1,800	165/224 1,100 – 1,800
Rated output to ISO 14396	kW/HP 140/190 at RPM 1,800	165/224 1,800
Max. net torque to ISO 9249 and SAE J1349	Nm 1,215 at RPM 1,100	1,430 1,100
Displacement	litres 7.014	7.964
Bore/Stroke	mm 122/150	130/150
<b>Air cleaner system</b>	Dry type filter with main and safety element, pre-cleaner, service indicator on the Liebherr display	
<b>Electrical system</b>		
Operating voltage	V 24	24
Capacity	Ah 2 x 140	2 x 140
Alternator	V/A 28/140	28/140
Starter	V/kW 24/7.8	24/7.8

The availability of models with stage V / Tier 4f or stage IV / Tier 4f emission standards is subject to emission regulations in the respective countries.



## Driveline

<b>Continuous power split XPower® driveline</b>	
Design	Continuous, fully-automatic XPower® driveline. No traction interruptions across the entire speed range. Hydrostatic power split with two axial piston units. Identical driving performance – forwards and in reverse
Filtration	Filter system for driveline, depend on working hydraulics
Control	Driveline is controlled from travel pedal for tractive force and speed setting with integrated inch function. The Liebherr control lever is used to control forward and reverse travel
<b>Travel speed range</b>	0 – 40 km/h forward and reverse, fully-automatic Speed restriction available upon request. Speeds quoted apply with the tyres indicated as standard on loader model.

## Axles

	L 550	L 556
<b>Four-wheel drive</b>		
<b>Front axle</b>	Fixed	
<b>Rear axle</b>	Centre pivot, with 13° oscillating angle to each side	
Height of obstacles which can be driven over	mm 460	442
	with all four wheels remaining in contact with the ground	
<b>Differentials</b>	Automatic limited-slip differentials	
<b>Reduction gear</b>	Planetary final drive in wheel hubs	
<b>Track width</b>	2,003 mm with all types of tyres	





## Brakes

<b>Wear-free service brake</b>	Self-locking of the XPower® driveline (acting on all four wheels) and additional pump-accumulator brake system with wet multi-disc brakes (two separate brake circuits)
<b>Parking brake</b>	Electro-hydraulically actuated spring-loaded disc brake system on the transmission

The braking system meets the requirements of the ISO 3450.



## Steering

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



## Attachment Hydraulics

	L 550	L 556
<b>Design</b>	"Load-sensing" swash plate type variable flow pump with output and flow control, and pressure cut-off in the control block	
<b>Cooling</b>	Hydraulic oil cooling using thermostatically controlled fan and oil cooler	
<b>Filtration</b>	Return line filter in the hydraulic reservoir	
<b>Control</b>	Liebherr control lever, electro-hydraulically operated	
<b>Lift circuit</b>	Lifting, neutral, lowering Automatic lift arm position and lowering by Liebherr control lever Float position controlled by Liebherr control lever	
<b>Tilt circuit</b>	Tilt back, neutral, dump Automatic bucket return for tilting back and dumping controlled by Liebherr control lever	
<b>Max. flow</b>	l/min. 234	234
<b>Max. pressure</b>		
Z-bar linkage	bar 330	360
Industrial lift arm	bar 350	380



## Attachment

	L 550	L 556
<b>Geometry variants</b>		
Optional	Powerful Z-bar linkage with tilt cylinder and cast steel cross-tube Industrial lift arm with tilt cylinder, hydraulic quick hitch as standard	
<b>Bearings</b>	Sealed	
<b>Cycle time at nominal load</b>	ZK	IND
Lifting	s 5.4	5.4
Dumping	s 1.0	2.2
Lowering (empty)	s 2.9	2.9



## Operator's Cab

<b>Design</b>	Hydraulically 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 sliding side window, sliding side window on right, front windscreen made of compound safety glass, side panels with single-pane safety glass ESG, heated rear window ESG, all windows are tinted. 3 way continuous adjustable steering column
<b>Liebherr operator's seat</b>	6 way adjustable, vibration-damped operator's seat "Comfort" with seat, depth and incline adjustment as standard (air-cushioned with seat heating adjustable to operator's weight), Liebherr control lever mounted into the operator's seat as standard
<b>Cab heating and ventilation</b>	4-zone air conditioning with new improved cooling output as standard, electrically heated rear window, all filters are easy to access and replaceable



## Sound Level

	L 550	L 556
<b>Sound pressure level to ISO 6396</b>		
L <sub>PA</sub> (inside cab)	dB(A) 68	68
<b>Sound power level to 2000/14/EC</b>		
L <sub>WA</sub> (surround noise)	dB(A) 104	104



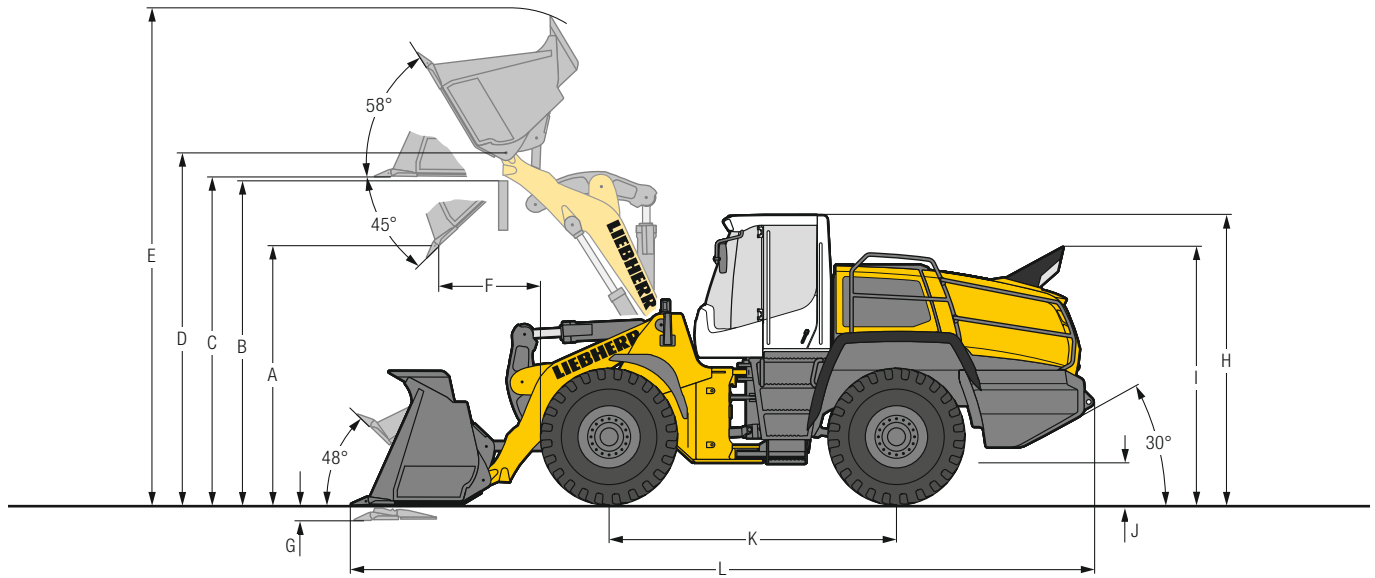
## Capacities

	L 550	L 556
<b>Fuel tank</b>	l 280	280
<b>Engine oil (inclusive filter change)</b>	l 26	26
<b>DEF tank</b>	l 67.5	67.5
<b>Pump distribution gearbox</b>	l 1.2	1.2
<b>XPower® gearbox</b>	l 53	53
<b>Coolant</b>	l 67	67
<b>Front axle</b>	l 35	42
<b>Rear axle</b>	l 35	35
<b>Hydraulic tank</b>	l 105	105
<b>Hydraulic system, total</b>	l 175	175
<b>Air conditioning system R134a</b>	g 1,250	1,250

# Dimensions

## Z-bar Linkage

L 550 – L 556



### Excavation Bucket



	L 550		L 556	
	ZK	ZK	ZK	ZK
<b>Geometry</b>				
<b>Cutting tools</b>	T	T	T	T
<b>Lift arm length</b>	mm 2,600	2,600	2,600	2,600
<b>Bucket capacity according to ISO 7546**</b>	m <sup>3</sup> 3.2	3.6	3.6	4.0
<b>Specific material density</b>	t/m <sup>3</sup> 1.85	1.65	1.85	1.65
<b>Bucket width</b>	mm 2,700	2,700	2,700	2,700
<b>A Dumping height at max. lift height and 45° discharge</b>	mm 2,880	2,810	2,810	2,740
<b>B Dump-over height</b>	mm 3,500	3,500	3,500	3,500
<b>C Max. height of bucket bottom</b>	mm 3,645	3,645	3,645	3,645
<b>D Max. height of bucket pivot point</b>	mm 3,915	3,915	3,915	3,915
<b>E Max. operating height</b>	mm 5,585	5,695	5,695	5,775
<b>F Reach at max. lift height and 45° discharge</b>	mm 1,095	1,170	1,170	1,250
<b>G Digging depth</b>	mm 85	85	85	85
<b>H Height above operator's cab</b>	mm 3,370	3,370	3,370	3,370
<b>I Height above exhaust</b>	mm 3,020	3,020	3,020	3,020
<b>J Ground clearance</b>	mm 490	490	490	490
<b>K Wheelbase</b>	mm 3,395	3,395	3,395	3,395
<b>L Overall length</b>	mm 8,380	8,480	8,480	8,580
<b>Turning circle radius over outside bucket edge</b>	mm 6,585	6,610	6,610	6,635
<b>Breakout force (SAE)</b>	kN 140	130	150	140
<b>Tipping load, straight*</b>	kg 14,000	13,800	15,750	15,550
<b>Tipping load, fully articulated*</b>	kg 12,200	12,000	13,700	13,500
<b>Operating weight*</b>	kg 17,700	17,800	18,400	18,500
<b>Tyre size</b>	23.5R25 L3		23.5R25 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)

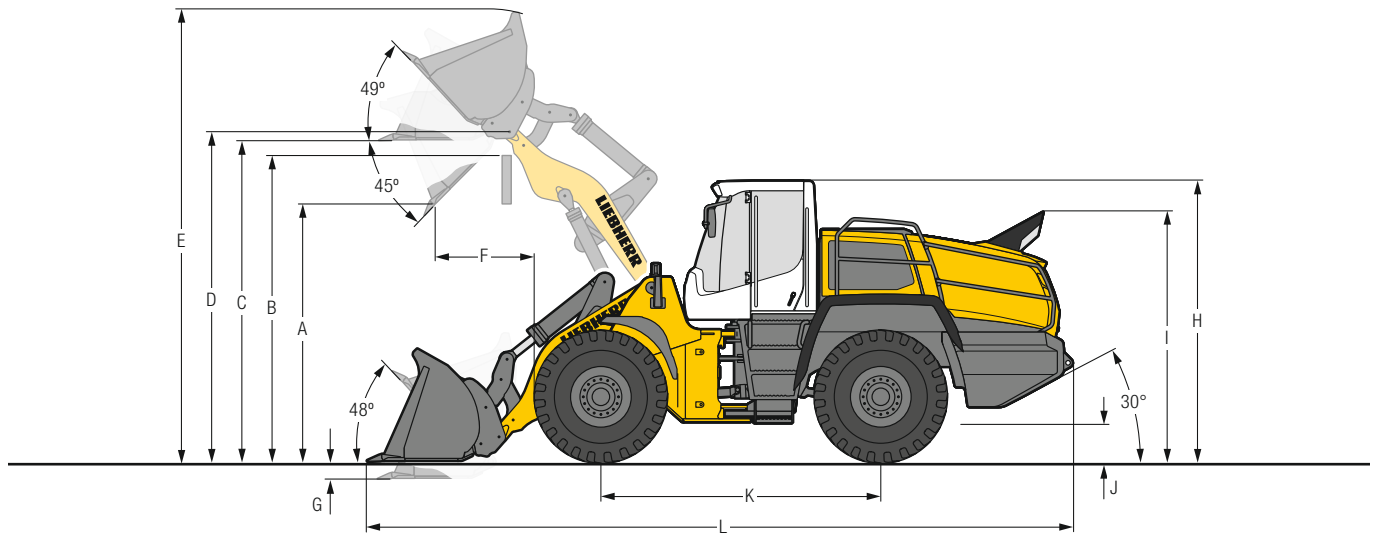
\*\* Actual bucket capacity may be approx. 10% larger than the calculation according to ISO 7546 standard. The degree to which the bucket can be filled depends on the material – see page 24.

ZK = Z-bar linkage

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

# Dimensions

## Industrial Lift Arm



### Excavation Bucket

		L 550			L 556	
		STD	HL	HL	STD	HL
<b>Geometry</b>		IND-QH	IND-QH	IND-QH	IND-QH	IND-QH
<b>Cutting tools</b>		T	T	T	T	T
<b>Lift arm length</b>	mm	2,600	3,000	3,000	2,600	3,000
<b>Bucket capacity according to ISO 7546**</b>	m <sup>3</sup>	3.0	2.6	2.8	3.3	3.0
<b>Specific material density</b>	t/m <sup>3</sup>	1.8	1.8	1.6	1.8	1.6
<b>Bucket width</b>	mm	2,700	2,700	2,700	2,700	2,700
<b>A Dumping height at max. lift height and 45° discharge</b>	mm	2,880	3,550	3,520	2,850	3,520
<b>B Dump-over height</b>	mm	3,500	4,100	4,100	3,500	4,100
<b>C Max. height of bucket bottom</b>	mm	3,795	4,360	4,360	3,795	4,360
<b>D Max. height of bucket pivot point</b>	mm	4,075	4,640	4,640	4,075	4,640
<b>E Max. operating height</b>	mm	5,580	6,090	6,120	5,620	6,120
<b>F Reach at max. lift height and 45° discharge</b>	mm	1,135	940	960	1,174	960
<b>G Digging depth</b>	mm	80	80	80	80	80
<b>H Height above operator's cab</b>	mm	3,370	3,370	3,370	3,370	3,370
<b>I Height above exhaust</b>	mm	3,020	3,020	3,020	3,020	3,020
<b>J Ground clearance</b>	mm	490	490	490	490	490
<b>K Wheelbase</b>	mm	3,395	3,395	3,395	3,395	3,395
<b>L Overall length</b>	mm	8,550	8,940	9,000	8,605	9,080
<b>Turning circle radius over outside bucket edge</b>	mm	6,630	6,830	6,850	6,650	6,850
<b>Breakout force (SAE)</b>	kN	125	136	134	130	134
<b>Tipping load, straight*</b>	kg	12,800	10,700	10,600	14,400	12,000
<b>Tipping load, fully articulated*</b>	kg	11,100	9,200	9,100	12,400	10,300
<b>Operating weight*</b>	kg	18,700	18,900	18,950	19,500	19,700
<b>Tyre size</b>		23.5R25 L3			23.5R25 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.

STD = Standard lift arm length

HL = High Lift

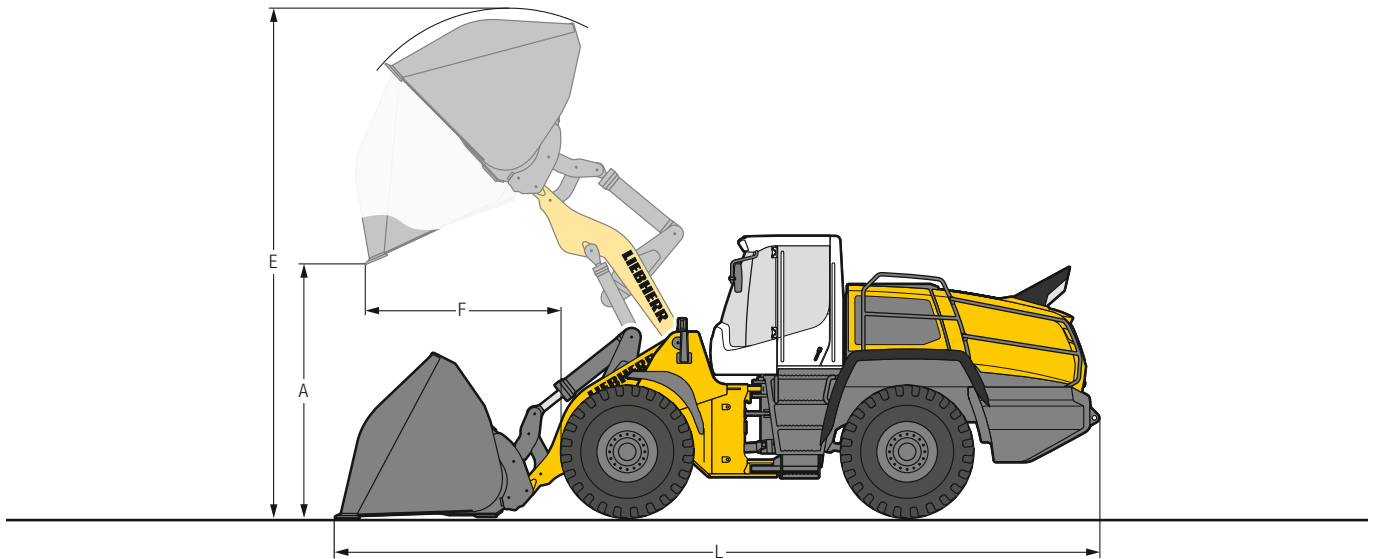
IND-QH = Industrial lift arm with parallel guidance incl. quick hitch

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

# Attachment

## Light Material Bucket

L 550 – L 556



### Heavy Material Density

	L 550		L 556	
	STD	HL	STD	HL
<b>Geometry</b>	IND-QH	IND-QH	IND-QH	IND-QH
<b>Cutting tools</b>	BOCE	BOCE	BOCE	BOCE
<b>Bucket capacity</b>	m <sup>3</sup> 5.0	4.5	5.5	5.0
<b>Specific material density</b>	t/m <sup>3</sup> 1.0	1.0	1.0	0.95
<b>Bucket width</b>	mm 2,950	2,950	2,950	2,950
<b>A Dumping height at max. lift height</b>	mm 2,550	3,220	2,450	3,130
<b>E Max. operating height</b>	mm 5,900	6,320	6,060	6,480
<b>F Reach at maximum lift height</b>	mm 1,450	1,250	1,550	1,330
<b>L Overall length</b>	mm 8,770	9,170	8,900	9,280
<b>Tipping load, straight*</b>	kg 11,900	9,800	13,200	11,100
<b>Tipping load, fully articulated*</b>	kg 10,200	8,300	11,300	9,400
<b>Operating weight*</b>	kg 19,200	19,400	20,100	20,300
<b>Tyre size</b>	23.5R25 L3		23.5R25 L3	



### Light Material Density

	L 550		L 556	
	STD	HL	STD	HL
<b>Geometry</b>	IND-QH	IND-QH	IND-QH	IND-QH
<b>Cutting tools</b>	BOCE	BOCE	BOCE	BOCE
<b>Bucket capacity</b>	m <sup>3</sup> 9.0	8.0	10.0	9.0
<b>Specific material density</b>	t/m <sup>3</sup> 0.5	0.5	0.5	0.5
<b>Bucket width</b>	mm 3,400	3,400	3,400	3,400
<b>A Dumping height at max. lift height</b>	mm 2,340	2,920	2,265	2,840
<b>E Max. operating height</b>	mm 6,110	6,470	6,250	6,600
<b>F Reach at maximum lift height</b>	mm 1,705	1,520	1,780	1,600
<b>L Overall length</b>	mm 9,140	9,570	9,250	9,690
<b>Tipping load, straight*</b>	kg 11,500	9,400	13,100	10,700
<b>Tipping load, fully articulated*</b>	kg 9,800	7,900	11,100	8,900
<b>Operating weight*</b>	kg 19,700	19,900	20,500	20,800
<b>Tyre size</b>	23.5R25 L3		23.5R25 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

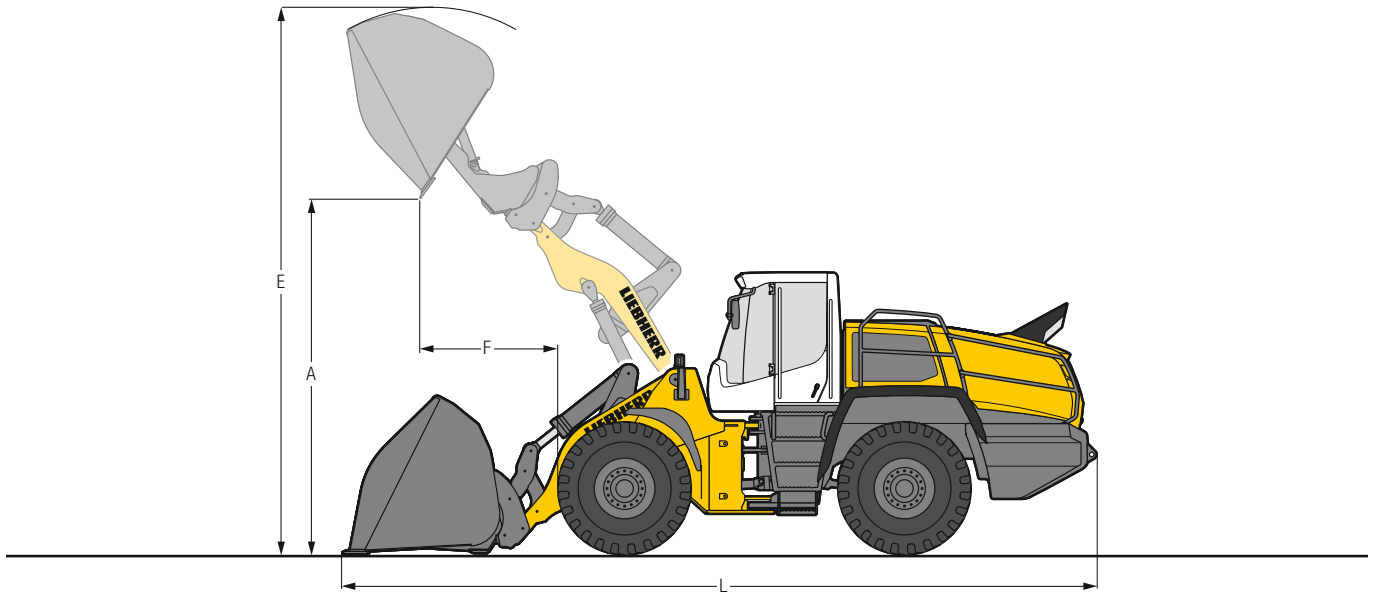
HL = High Lift

IND-QH = Industrial lift arm with parallel guidance incl. quick hitch

BOCE = Bolt-on cutting edge

# Attachment

## High-Dump Bucket



### Heavy Material Density

		L 550		L 556	
		STD	HL	STD	HL
<b>Geometry</b>		IND-QH	IND-QH	IND-QH	IND-QH
<b>Cutting tools</b>		BOCE	BOCE	BOCE	BOCE
<b>Bucket capacity</b>	m <sup>3</sup>	4.5	4.0	5.0	4.5
<b>Specific material density</b>	t/m <sup>3</sup>	1.0	1.0	1.0	1.0
<b>Bucket width</b>	mm	2,700	2,700	2,700	2,700
<b>A Dumping height at max. lift height</b>	mm	4,550	5,040	4,590	5,160
<b>E Max. operating height</b>	mm	6,680	7,120	6,850	7,300
<b>F Reach at maximum lift height</b>	mm	1,790	1,560	1,820	1,650
<b>L Overall length</b>	mm	9,000	9,410	9,120	9,550
<b>Tipping load, straight*</b>	kg	11,400	9,200	12,900	10,500
<b>Tipping load, fully articulated*</b>	kg	9,700	7,700	10,900	8,900
<b>Operating weight*</b>	kg	19,700	19,900	20,600	20,800
<b>Tyre size</b>		23.5R25 L3		23.5R25 L3	



### Light Material Density

		L 550		L 556	
		STD	HL	STD	HL
<b>Geometry</b>		IND-QH	IND-QH	IND-QH	IND-QH
<b>Cutting tools</b>		BOCE	BOCE	BOCE	BOCE
<b>Bucket capacity</b>	m <sup>3</sup>	8.5	7.5	9.5	8.5
<b>Specific material density</b>	t/m <sup>3</sup>	0.5	0.5	0.5	0.5
<b>Bucket width</b>	mm	3,400	3,400	3,400	3,400
<b>A Dumping height at max. lift height</b>	mm	4,450	4,800	4,610	4,950
<b>E Max. operating height</b>	mm	6,900	7,200	7,150	7,500
<b>F Reach at maximum lift height</b>	mm	1,800	1,580	1,860	1,650
<b>L Overall length</b>	mm	9,200	9,590	9,290	9,750
<b>Tipping load, straight*</b>	kg	10,900	8,700	12,500	10,100
<b>Tipping load, fully articulated*</b>	kg	9,300	7,300	10,500	8,400
<b>Operating weight*</b>	kg	20,300	20,400	21,200	21,300
<b>Tyre size</b>		23.5R25 L3		23.5R25 L3	

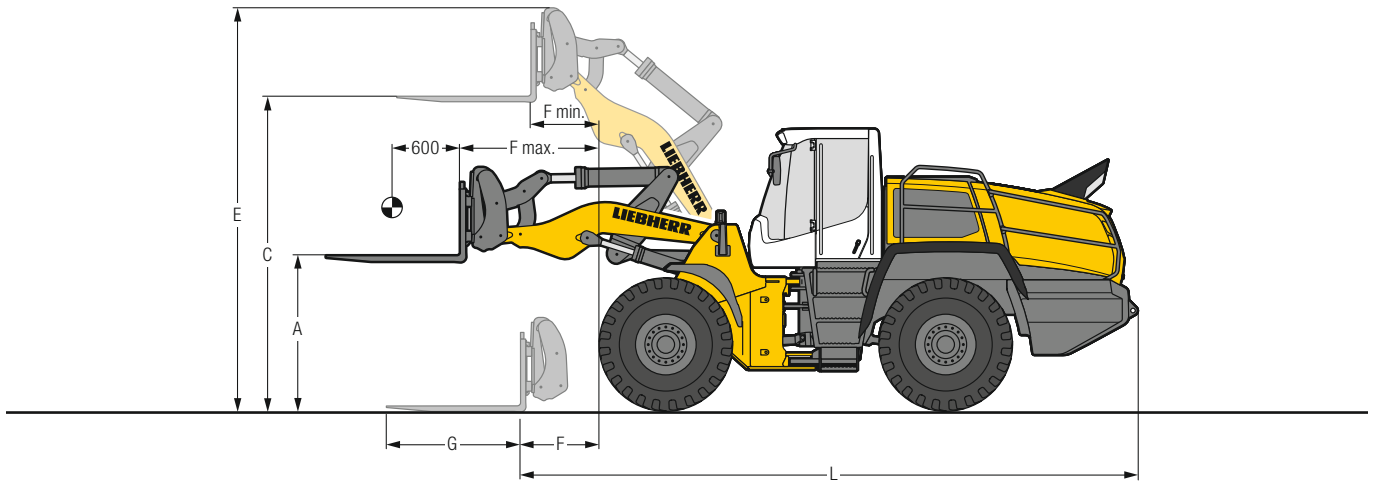
\* The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tyres and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

- STD = Standard lift arm length
- HL = High Lift
- IND-QH = Industrial lift arm with parallel guidance incl. quick hitch
- BOCE = Bolt-on cutting edge

# Attachment

## Fork Carrier and Fork

L 550 – L 556



### FEM IV Fork Carrier and Fork

		L 550	L 556
<b>Geometry</b>		IND-QH	IND-QH
<b>A</b>	Lifting height at max. reach	mm	1,840
<b>C</b>	Max. lifting height	mm	3,835
<b>E</b>	Max. operating height	mm	4,825
<b>F</b>	Reach at loading position	mm	985
<b>F max.</b>	Max. reach	mm	1,680
<b>F min.</b>	Reach at max. lifting height	mm	750
<b>G</b>	Fork length	mm	1,500
<b>L</b>	Length – basic machine	mm	7,380
	Tipping load, straight*	kg	9,500
	Tipping load, fully articulated*	kg	8,300
	Recommended payload for uneven ground = 60% of tipping load, articulated <sup>1)</sup>	kg	4,980
	Recommended payload for smooth surfaces = 80% of tipping load, articulated <sup>1)</sup>	kg	7,360
	Operating weight*	kg	17,800
	Tyre size	23.5R25 L3	23.5R25 L3

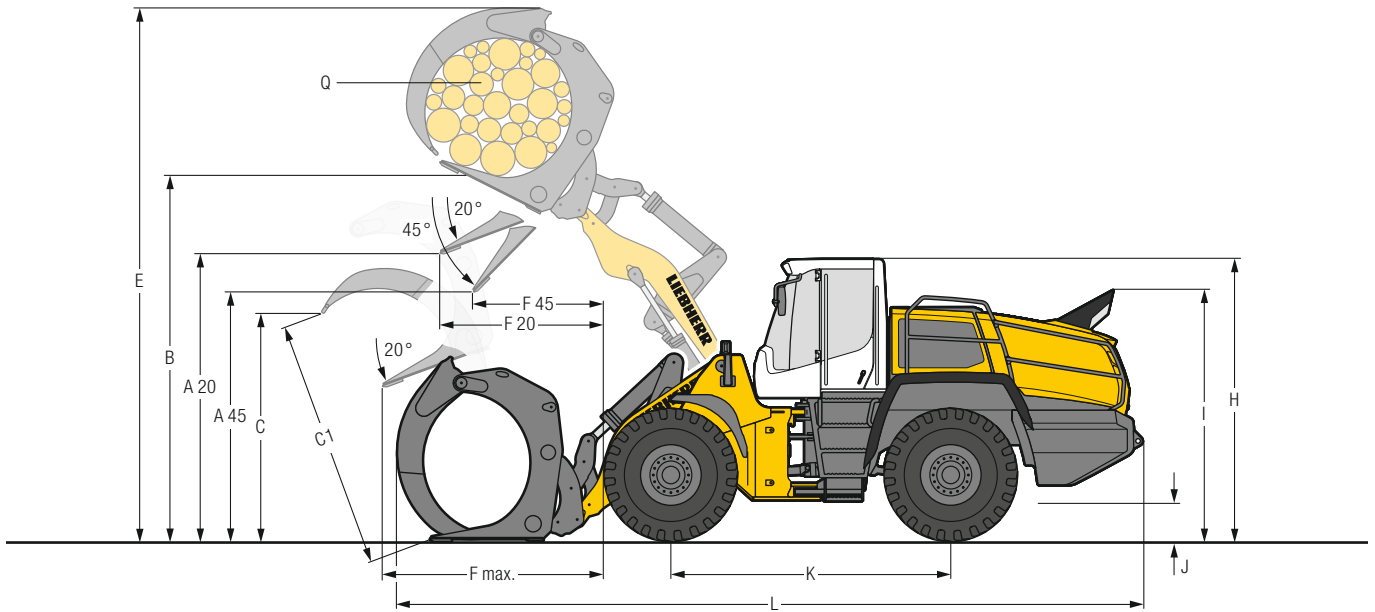
\* The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tyres and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

<sup>1)</sup> According to EN 474-3

IND-QH = Industrial lift arm with parallel guidance incl. quick hitch

# Attachment

## Log Grapple



### Log Grapple

		L 550	L 556
	<b>Geometry</b>	IND-QH	IND-QH
A20	Discharge height at 20°	3,590	3,570
A45	Discharge height at 45°	3,020	2,950
B	Manipulation height	4,530	4,530
C	Max. grapple opening in loading position	2,395	2,740
C1	Max. grapple opening	2,590	2,990
E	Max. height	6,320	6,480
F20	Reach at max. lifting height at 20° discharge	1,740	1,890
F45	Reach at max. lifting height at 45° discharge	1,410	1,530
F max.	Max. reach	2,670	2,820
H	Height above operator's cab	3,395	3,395
I	Height above exhaust	3,045	3,045
J	Ground clearance	510	510
K	Wheelbase	3,395	3,395
L	Overall length	8,720	8,870
	Width over tyres	2,650	2,650
Q	Grapple diameter	1.8	2.4
	Grapple width	1,600	1,600
	Payload*	6,300	6,400
	Operating weight*	19,700	20,500
	Tyre size	23.5R25 L4	23.5R25 L4

\* 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.

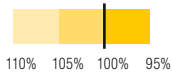
IND-QH = Industrial lift arm with parallel guidance incl. quick hitch

# Bucket Selection

L 550		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 <sub>1</sub>	3.2 m³	3.5	3.2										
		3.6 m³	4.0	3.6										
IND-QH	GPB <sub>1</sub>	3.0 m³	3.3	3.0										
		5.0 m³	5.5	5.0										
	LMB	9.0 m³	9.0											
		4.5 m³	5.0	4.5										
HDB	8.5 m³	8.5												
	GPB <sub>1</sub>	2.6 m³	2.9	2.6										
IND-QH-HL		GPB <sub>1</sub>	2.8 m³	3.1	2.8									
	4.5 m³		5.0	4.5										
	LMB	8.0 m³	8.0											
		4.0 m³	4.4	4.0										
HDB	7.5 m³	7.5												

L 556		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 <sub>1</sub>	3.6 m³	4.0	3.6										
		4.0 m³	4.4	4.0										
IND-QH	GPB <sub>1</sub>	3.3 m³	3.6	3.3										
		5.5 m³	6.1	5.5										
	LMB	10.0 m³	10.0											
		5.0 m³	5.5	5.0										
HDB	9.5 m³	9.5												
	GPB <sub>1</sub>	2.8 m³	3.1	2.8										
IND-QH-HL		GPB <sub>1</sub>	3.0 m³	3.3	3.0									
	5.0 m³		5.5	5.0										
	LMB	9.0 m³	9.0											
		4.5 m³	5.0	4.5										
HDB	8.5 m³	8.5												

## Bucket Filling Factor



## Lift Arm

<b>ZK</b>	Z-bar linkage, standard lift arm length
<b>IND-QH</b>	Industrial lift arm with quick hitch, standard lift arm length
<b>IND-QH-HL</b>	Industrial lift arm with quick hitch, High Lift

## Bucket

<b>GPB<sub>1</sub></b>	General purpose bucket (Excavation bucket)
<b>LMB</b>	Light material bucket
<b>HDB</b>	High-dump bucket

## Bulk Material Densities and Bucket Filling Factors

		t/m³	%			t/m³	%			t/m³	%
<b>Gravel</b>	moist	1.9	105	<b>Earth</b>	dry	1.3	115	<b>Glass waste</b>	broken	1.4	100
	dry	1.6	105		wet excavated	1.6	110		solid	1.0	100
	crushed stone	1.5	100	<b>Topsoil</b>		1.1	110	<b>Compost</b>	dry	0.8	105
<b>Sand</b>	dry	1.5	105	<b>Basalt</b>		1.95	100	wet	1.0	110	
	wet	1.9	110	<b>Granite</b>		1.8	95	<b>Wood chips/Saw dust</b>		0.5	110
<b>Gravel and Sand</b>	dry	1.7	105	<b>Sandstone</b>		1.6	100	<b>Paper</b>	shredded/loose	0.6	110
	wet	2.0	100	<b>Slate</b>		1.75	100	recovered paper/cardboard	1.0	110	
<b>Sand/Clay</b>		1.6	110	<b>Bauxite</b>		1.4	100	<b>Coal</b>	heavy material density	1.2	110
<b>Clay</b>	natural	1.6	110	<b>Limestone</b>		1.6	100	light material density	0.9	110	
	dry	1.4	110	<b>Gypsum</b>	broken	1.8	100	<b>Waste</b>	domestic waste	0.5	100
<b>Clay/Gravel</b>	dry	1.4	110	<b>Coke</b>		0.5	110	bulky waste	1.0	100	
	wet	1.6	100	<b>Slag</b>	broken	1.8	100				



# Tyres



## Tyre Types

	Size and tread code		Change of operating weight kg	Width over tyres mm	Change in vertical dimensions* mm	Use
<b>L 550 XPower® / L 556 XPower®</b>						
Bridgestone	23.5R25 VJT	L3	138	2,670	6	Bulk material (firm ground conditions)
Bridgestone	23.5R25 VLTS	L4	360	2,670	39	Gravel, Industry (firm ground conditions)
Bridgestone	23.5R25 VSDL	L5	898	2,660	65	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	23.5R25 VSDT	L5	851	2,670	55	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	650/65R25 VTS	L3	4	2,700	- 30	Gravel (all ground conditions)
Bridgestone	750/65R25 VTS	L3	728	2,880	11	Gravel, Industry, Wood (all ground conditions)
Continental	23.5R25 EM-Master	L3	212	2,670	29	Bulk material (firm ground conditions)
Continental	23.5R25 EM-Master	L4	392	2,660	20	Gravel, Industry, Wood (firm ground conditions)
Goodyear	23.5R25 RT-3B	L3	188	2,670	20	Gravel (all ground conditions)
Goodyear	23.5R25 TL-3A+	L3	284	2,670	36	Sand, Gravel, Earthworks, Clay (all ground conditions)
Goodyear	23.5R25 GP-4D	L4	328	2,690	25	Gravel, Industry, Wood (firm ground conditions)
Goodyear	23.5R25 RL-4K	L4	500	2,680	39	Gravel, Industry, Stone (firm ground conditions)
Goodyear	23.5R25 RL-5K	L5	936	2,680	57	Stone, Scrap, Recycling (firm ground conditions)
Goodyear	23.5R25 RL-5S	L5	968	2,680	57	Scrap, Recycling, Slag (firm ground conditions)
Goodyear	23.5R25 RT-5D	L5	820	2,660	55	Stone, Mining spoil (firm ground conditions)
Goodyear	750/65R25 TL-3A+	L3	680	2,910	24	Sand, Gravel, Industry, Wood (all ground conditions)
Michelin	23.5R25 XHA2	L3	0	2,650	0	Sand, Gravel (all ground conditions)
Michelin	23.5R25 XTLA	L2	- 12	2,650	- 4	Gravel, Earthworks, Clay (all ground conditions)
Michelin	23.5R25 X MINE PRO	L5	828	2,700	56	Stone, Scrap, Recycling (firm ground conditions)
Michelin	23.5R25 XLD D2A	L5	612	2,670	26	Stone, Mining spoil (firm ground conditions)
Michelin	650/65R25 XLD65	L3T	- 112	2,690	- 53	Gravel, Industry, Wood (all ground conditions)
Michelin	750/65R25 XLD65	L3T	524	2,870	- 7	Gravel, Industry, Wood (all ground conditions)

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

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

# Technical Data



## Engine

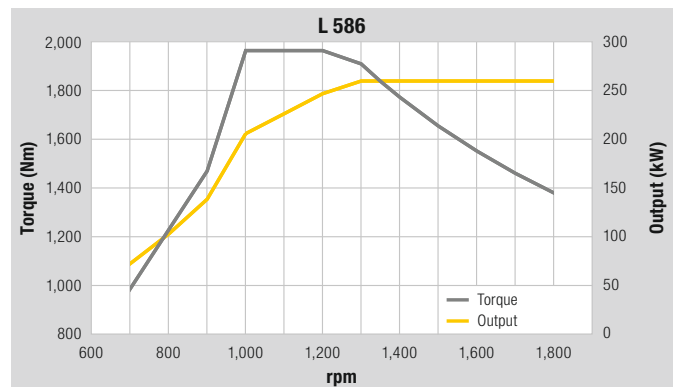
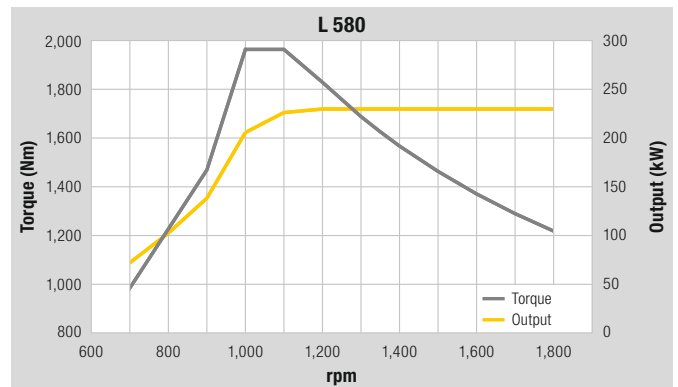
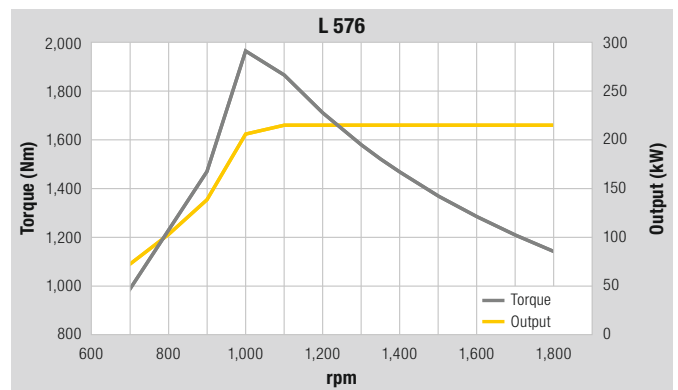
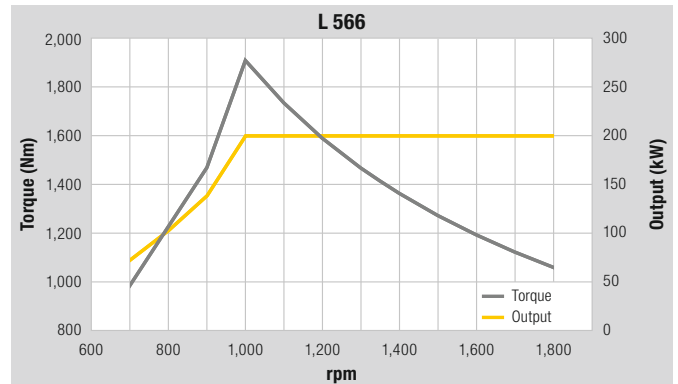
	L 566	L 576	L 580	L 586
<b>Diesel engine</b>	D936 A7	D936 A7	D936 A7	D936 A7
Design	Stage V: Water-cooled in-series engine with charge-air cooling, exhaust gas treatment through Liebherr-SCR technology, closed diesel particle filter system as standard Stage IV: Water-cooled in-series engine with charge-air cooling, exhaust gas treatment through Liebherr-SCR technology			
Cylinder inline	6	6	6	6
Fuel injection process	Electronic Common Rail high-pressure injection			
Max. gross output to ISO 3046 and SAE J1995	kW/HP at RPM 203/276 1,000 – 1,800	218/296 1,100 – 1,800	233/317 1,200 – 1,800	263/358 1,300 – 1,800
Max. net output to ISO 9249 and SAE J1349	kW/HP at RPM 200/272 1,000 – 1,800	215/292 1,100 – 1,800	230/313 1,200 – 1,800	260/354 1,300 – 1,800
Rated output to ISO 14396	kW/HP at RPM 200/272 1,800	215/292 1,800	230/313 1,800	260/354 1,800
Max. net torque to ISO 9249 and SAE J1349	Nm at RPM 1,910 1,000	1,965 1,000	1,965 1,000	1,965 1,000
Displacement	litres 10.52			
Bore/Stroke	mm 122/150			
<b>Air cleaner system</b>	Dry type filter with main and safety element, pre-cleaner, service indicator on the Liebherr display			
<b>Electrical system</b>				
Operating voltage	V 24			
Capacity	Ah 2 x 180			
Alternator	V/A 28/180			
Starter	V/kW 24/7.8			

The availability of models with stage V / Tier 4f or stage IV / Tier 4f emission standards is subject to emission regulations in the respective countries.



## Driveline

<b>Continuous power split XPower® driveline</b>	
Design	Continuous, fully-automatic XPower® driveline. No traction interruptions across the entire speed range. Hydrostatic power split with two axial piston units. Identical driving performance – forwards and in reverse
Filtration	Filter system for driveline, depend on working hydraulics
Control	Driveline is controlled from travel pedal for tractive force and speed setting with integrated inch function. The Liebherr control lever is used to control forward and reverse travel
<b>Travel speed range</b>	L 566 – L 580: 0 – 40 km/h forward and reverse, fully-automatic L 586: 0 – 33 km/h forward and reverse, fully-automatic Speed restriction available upon request. Speeds quoted apply with the tyres indicated as standard on loader model.



## Axles

	L 566	L 576	L 580	L 586
<b>Four-wheel drive</b>				
<b>Front axle</b>	Fixed			
<b>Rear axle</b>	Centre pivot, with 13° oscillating angle to each side			
Height of obstacles which can be driven over	mm 492	473	473	523
	with all four wheels remaining in contact with the ground			
<b>Differentials</b>	Automatic limited-slip differentials			
<b>Reduction gear</b>	Planetary final drive in wheel hubs			
<b>Track width</b>	2,230 mm with all types of tyres (L 566, L 576, L 580) 2,440 mm with all types of tyres (L 586)			



## Brakes

<b>Wear-free service brake</b>	Self-locking of the XPower® driveline (acting on all four wheels) and additional pump-accumulator brake system with wet multi-disc brakes (two separate brake circuits)
<b>Parking brake</b>	Electro-hydraulically actuated spring-loaded disc brake system on the transmission

The braking system meets the requirements of the ISO 3450.



## Steering

<b>Design</b>	"Load-sensing" swash plate type variable flow pump with pressure cut-off and flow control. Central pivot with two double-acting, damped steering cylinders
<b>Angle of articulation</b>	38° to each side (L 566, L 576, L 580) 37° to each side (L 586)
<b>Emergency steering</b>	Electro-hydraulic emergency steering system



## Attachment Hydraulics

	L 566	L 576	L 580	L 586
<b>Design</b>	"Load-sensing" swash plate type variable flow pump with output and flow control, and pressure cut-off in the control block			
<b>Cooling</b>	Hydraulic oil cooling using thermostatically controlled fan and oil cooler			
<b>Filtration</b>	Return line filter in the hydraulic reservoir			
<b>Control</b>	Liebherr control lever, electro-hydraulically operated			
<b>Lift circuit</b>	Lifting, neutral, lowering Automatic lift arm position and lowering by Liebherr control lever Float position controlled by Liebherr control lever			
<b>Tilt circuit</b>	Tilt back, neutral, dump Automatic bucket return for tilting back and dumping controlled by Liebherr control lever			
<b>Max. flow</b>	l/min. 290	290	320	410
<b>Max. pressure</b>				
Z-bar linkage	bar 350	380	380	330
Industrial lift arm	bar 380		380	



## Attachment

	L 566	L 576	L 580	L 586
<b>Geometry variants</b>				
Optional	Powerful Z-bar linkage with tilt cylinder and cast steel cross-tube			
	Industrial lift arm with tilt cylinder, hydraulic quick hitch as standard (L 566, L 580)			
<b>Bearings</b>	Sealed			
<b>Cycle time at nominal load</b>	ZK	IND	ZK	ZK
Lifting	s 6.1	6.1	6.1	6.2
Dumping	s 1.2	2.0	1.2	1.4
Lowering (empty)	s 3.2	3.2	3.2	3.4



## Operator's Cab

<b>Design</b>	Hydraulically 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 sliding side window, sliding side window on right, front windscreen made of compound safety glass, side panels with single-pane safety glass ESG, heated rear window ESG, all windows are tinted. 3 way continuous adjustable steering column
<b>Liebherr operator's seat</b>	6 way adjustable, vibration-damped operator's seat "Comfort" with seat, depth and incline adjustment as standard (air-cushioned with seat heating adjustable to operator's weight), Liebherr control lever mounted into the operator's seat as standard
<b>Cab heating and ventilation</b>	4-zone air conditioning with new improved cooling output as standard, electrically heated rear window, all filters are easy to access and replaceable



## Sound Level

	L 566	L 576	L 580	L 586
<b>Sound pressure level to ISO 6396</b>				
L <sub>pA</sub> (inside cab)	dB(A) 68	68	68	68
<b>Sound power level to 2000/14/EC</b>				
L <sub>WA</sub> (surround noise)	dB(A) 105	105	105	107



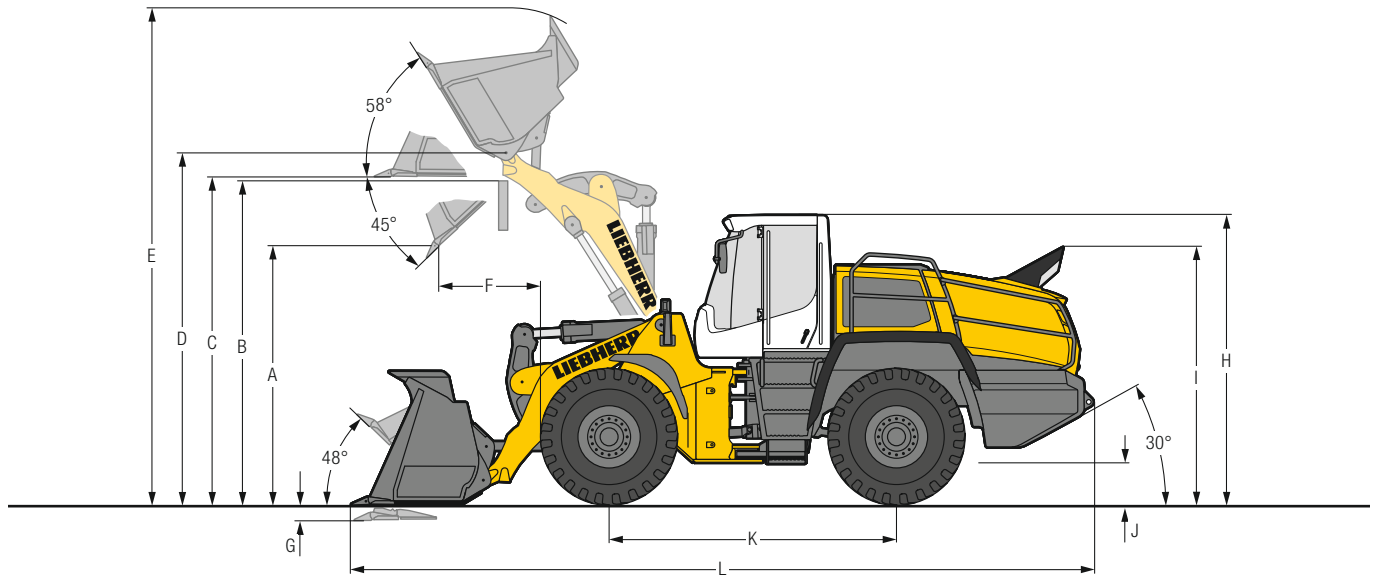
## Capacities

	L 566	L 576	L 580	L 586
<b>Fuel tank</b>	l 365	365	365	500
<b>Engine oil (inclusive filter change)</b>	l 42	42	42	42
<b>DEF tank</b>	l 67.5	67.5	67.5	67.5
<b>Pump distribution gearbox</b>	l 1.2	1.2	1.2	1.2
<b>XPower® gearbox</b>	l 55	55	55	55
<b>Coolant</b>	l 73	73	73	73
<b>Front axle</b>	l 42	58	58	60
<b>Rear axle</b>	l 42	42	58	60
<b>Hydraulic tank</b>	l 105	105	105	95
<b>Hydraulic system, total</b>	l 190	190	190	210
<b>Air conditioning system R134a</b>	g 1,250	1,250	1,250	1,250

# Dimensions

## Z-bar Linkage

L 566 – L 586



### Loading Bucket

	L 566		L 576		L 580		L 586			
Geometry	ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK
<b>Cutting tools</b>	T	T	T	T	T	T	BOCE	T	T	ROB
<b>Lift arm length</b>	mm	2,920	2,920	3,050	3,050	3,050	3,050	3,150	3,150	3,150
<b>Bucket capacity according to ISO 7546**</b>	m <sup>3</sup>	4.2	4.7	4.7	5.2	5.2	5.7 <sup>1)</sup>	6.0	6.5	5.5
<b>Specific material density</b>	t/m <sup>3</sup>	1.8	1.6	1.8	1.6	1.8	1.6	1.7	1.8	1.6
<b>Bucket width</b>	mm	3,000	3,000	3,000	3,000	3,000	3,300	3,300	3,430	3,650
<b>A Dumping height at max. lift height and 45° discharge</b>	mm	3,205	3,130	3,355	3,285	3,285	3,220	3,220	3,260	3,290
<b>B Dump-over height</b>	mm	3,900	3,900	4,100	4,100	4,100	4,100	4,100	4,150	4,150
<b>C Max. height of bucket bottom</b>	mm	4,050	4,050	4,270	4,270	4,270	4,270	4,270	4,330	4,330
<b>D Max. height of bucket pivot point</b>	mm	4,360	4,360	4,580	4,580	4,580	4,580	4,580	4,640	4,660
<b>E Max. operating height</b>	mm	6,120	6,220	6,440	6,540	6,540	6,500	6,500	6,530	6,450
<b>F Reach at max. lift height and 45° discharge</b>	mm	1,190	1,270	1,135	1,205	1,205	1,285	1,285	1,430	1,390
<b>G Digging depth</b>	mm	100	100	100	100	100	100	100	100	140
<b>H Height above operator's cab</b>	mm	3,590	3,590	3,590	3,590	3,590	3,590	3,740	3,740	3,760
<b>I Height above exhaust</b>	mm	3,200	3,200	3,200	3,200	3,200	3,200	3,300	3,300	3,320
<b>J Ground clearance</b>	mm	535	535	540	540	465	465	465	575	595
<b>K Wheelbase</b>	mm	3,560	3,560	3,630	3,630	3,710	3,710	3,710	3,900	3,900
<b>L Overall length</b>	mm	9,165	9,275	9,445	9,545	9,620	9,720	9,720	9,980	9,990
<b>Turning circle radius over outside bucket edge</b>	mm	7,340	7,370	7,500	7,530	7,615	7,780	7,780	8,350	8,300
<b>Breakout force (SAE)</b>	kN	200	190	200	190	225	205	200	240	245
<b>Tipping load, straight*</b>	kg	18,150	17,900	20,100	19,900	21,750	21,250	22,200	24,500	23,900
<b>Tipping load, fully articulated*</b>	kg	15,900	15,650	17,600	17,400	19,200	18,700	19,500	21,600	21,000
<b>Operating weight*</b>	kg	23,900	24,000	25,700	25,800	27,650	27,800	28,800	32,600	33,050
<b>Tyre size</b>		26.5R25 L3		26.5R25 L3		26.5R25 L3		29.5R25 L3		29.5R25 L5

\* 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 pages 34/35.

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



= Excavation bucket with back grading edge for direct mounting



= Rehandling bucket for direct mounting



= Rock bucket with oblique base for quarrying applications for direct mounting

ZK = Z-bar linkage

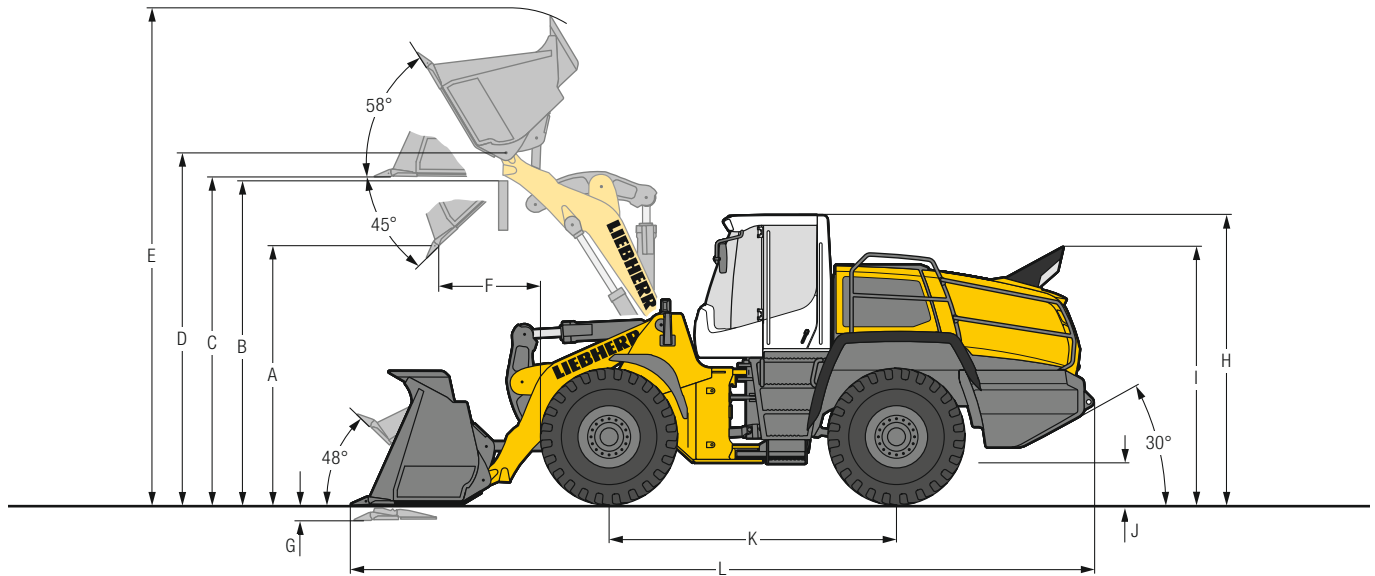
T = Welded-on tooth holder with add-on teeth

BOCE = Bolt-on cutting edge

ROB = Rock bucket with delta cutting edge, welded-on tooth holder with add-on teeth and bolted intermediate sections

# Dimensions

## Z-bar Linkage High Lift



### Loading Bucket

	L 566		L 576		L 580		L 586			
	ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK
<b>Geometry</b>										
<b>Cutting tools</b>	T	T	T	T	T	T	BOCE	T	T	ROB
<b>Lift arm length</b>	mm	3,250	3,250	3,250	3,250	3,250	3,250	3,450	3,450	3,450
<b>Bucket capacity according to ISO 7546**</b>	m <sup>3</sup>	3.7	4.2	4.2	4.7	4.7	5.2 <sup>1)</sup>	5.5	6.0	5.0
<b>Specific material density</b>	t/m <sup>3</sup>	1.8	1.6	1.8	1.6	1.8	1.6	1.7	1.8	1.6
<b>Bucket width</b>	mm	3,000	3,000	3,000	3,000	3,000	3,000	3,400	3,400	3,400
<b>A Dumping height at max. lift height and 45° discharge</b>	mm	3,720	3,650	3,650	3,575	3,560	3,490	3,425	3,725	3,670
<b>B Dump-over height</b>	mm	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,500	4,500
<b>C Max. height of bucket bottom</b>	mm	4,470	4,470	4,470	4,470	4,470	4,470	4,470	4,750	4,750
<b>D Max. height of bucket pivot point</b>	mm	4,780	4,780	4,780	4,780	4,780	4,780	4,780	5,060	5,060
<b>E Max. operating height</b>	mm	6,460	6,555	6,555	6,650	6,650	6,740	6,700	6,950	6,980
<b>F Reach at max. lift height and 45° discharge</b>	mm	1,130	1,200	1,130	1,215	1,190	1,265	1,340	1,370	1,410
<b>G Digging depth</b>	mm	140	140	140	140	140	140	140	100	140
<b>H Height above operator's cab</b>	mm	3,590	3,590	3,590	3,590	3,590	3,590	3,590	3,740	3,740
<b>I Height above exhaust</b>	mm	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,300	3,320
<b>J Ground clearance</b>	mm	535	535	540	540	465	465	465	575	575
<b>K Wheelbase</b>	mm	3,560	3,560	3,630	3,630	3,710	3,710	3,710	3,900	3,900
<b>L Overall length</b>	mm	9,500	9,590	9,590	9,700	9,770	9,870	9,970	10,250	10,280
<b>Turning circle radius over outside bucket edge</b>	mm	7,480	7,510	7,560	7,590	7,680	7,710	7,740	8,500	8,550
<b>Breakout force (SAE)</b>	kN	210	200	210	200	240	225	225	250	240
<b>Tipping load, straight*</b>	kg	15,850	15,650	18,650	18,550	20,200	20,000	20,600	22,400	21,700
<b>Tipping load, fully articulated*</b>	kg	13,850	13,650	16,350	16,250	17,800	17,600	18,200	19,700	19,000
<b>Operating weight*</b>	kg	24,000	24,100	25,650	25,750	27,650	27,750	28,600	32,600	33,000
<b>Tyre size</b>		26.5R25 L3		26.5R25 L3		26.5R25 L3		29.5R25 L3		29.5R25 L5

\* 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 pages 34/35.

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



= Excavation bucket with back grading edge for direct mounting



= Rehandling bucket for direct mounting



= Rock bucket with oblique base for quarrying applications for direct mounting

ZK = Z-bar linkage

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

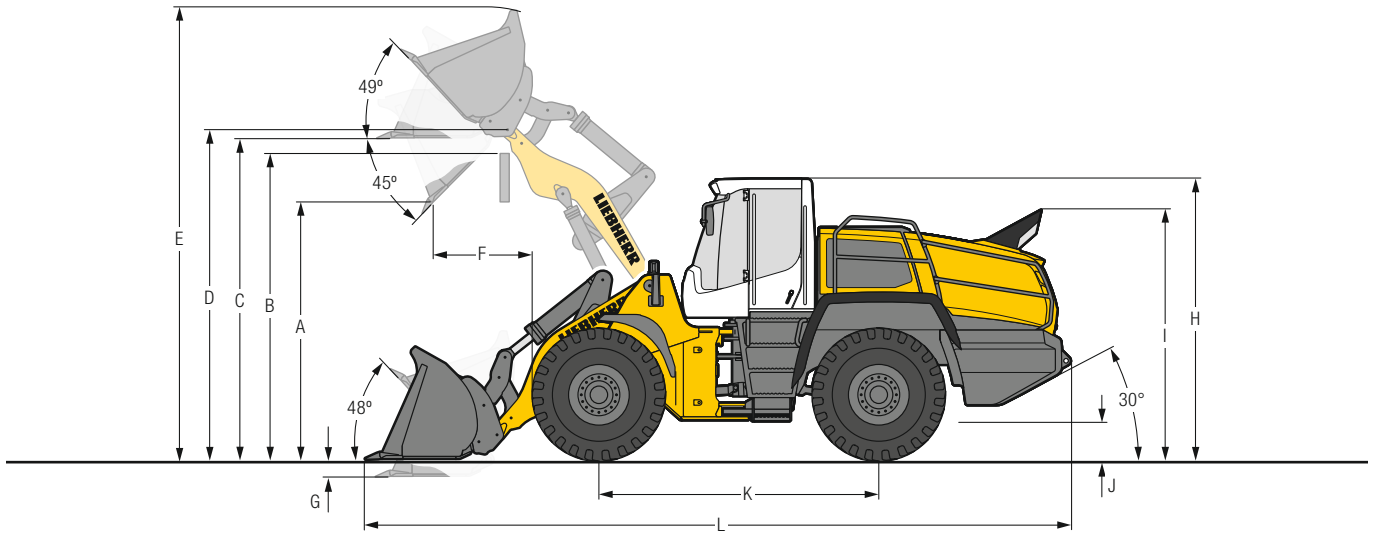
BOCE = Bolt-on cutting edge

ROB = Rock bucket with delta cutting edge, welded-on tooth holder with add-on teeth and bolted intermediate sections

# Dimensions

## Industrial Lift Arm

L 566 – L 586



### Excavation Bucket

		L 566		L 580	
		IND-QH	IND-QH	IND-QH	IND-QH
<b>Geometry</b>					
<b>Cutting tools</b>		T	T	T	T
<b>Lift arm length</b>	mm	2,900	2,900	2,900	2,900
<b>Bucket capacity according to ISO 7546**</b>	m <sup>3</sup>	3.5	4.0	4.5	5.0
<b>Specific material density</b>	t/m <sup>3</sup>	1.8	1.6	1.8	1.6
<b>Bucket width</b>	mm	3,000	3,000	3,000	3,000
<b>A Dumping height at max. lift height and 45° discharge</b>	mm	3,210	3,140	3,070	3,000
<b>B Dump-over height</b>	mm	3,900	3,900	3,900	3,900
<b>C Max. height of bucket bottom</b>	mm	4,145	4,145	4,145	4,145
<b>D Max. height of bucket pivot point</b>	mm	4,490	4,490	4,490	4,490
<b>E Max. operating height</b>	mm	6,045	6,165	6,265	6,330
<b>F Reach at max. lift height and 45° discharge</b>	mm	1,270	1,340	1,290	1,230
<b>G Digging depth</b>	mm	100	100	100	100
<b>H Height above operator's cab</b>	mm	3,590	3,590	3,590	3,590
<b>I Height above exhaust</b>	mm	3,200	3,200	3,200	3,200
<b>J Ground clearance</b>	mm	535	535	465	465
<b>K Wheelbase</b>	mm	3,630	3,630	3,710	3,710
<b>L Overall length</b>	mm	9,270	9,370	9,545	9,650
<b>Turning circle radius over outside bucket edge</b>	mm	7,410	7,440	7,560	7,590
<b>Breakout force (SAE)</b>	kN	200	185	200	185
<b>Tipping load, straight*</b>	kg	17,100	16,650	20,150	19,700
<b>Tipping load, fully articulated*</b>	kg	15,000	14,550	17,750	17,300
<b>Operating weight*</b>	kg	24,800	24,950	28,050	28,200
<b>Tyre size</b>		26.5R25 L3		26.5R25 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)

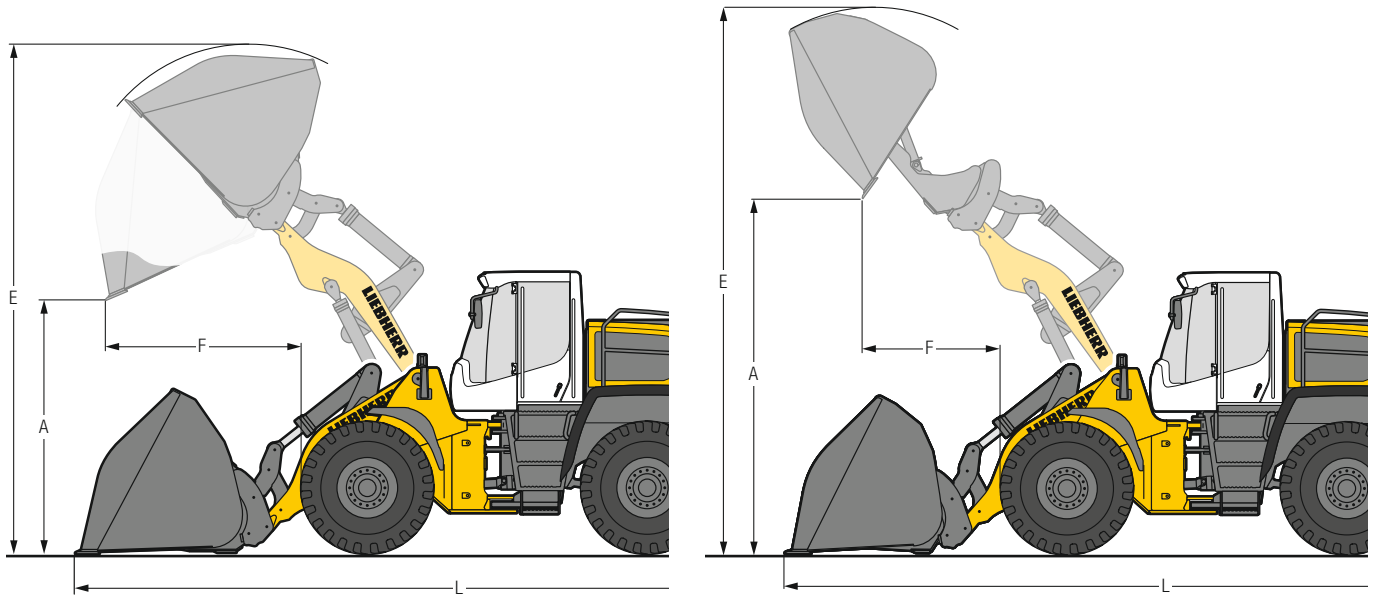
\*\* Actual bucket capacity may be approx. 10 % larger than the calculation according to ISO 7546 standard. The degree to which the bucket can be filled depends on the material – see pages 34/35.

IND-QH = Industrial lift arm with parallel guidance incl. quick hitch

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

# Attachment

## Light Material Bucket and High-Dump Bucket



L 566 – L 586

### Light Material Bucket

	L 566		L 580		L 586
<b>Geometry</b>	IND-QH	IND-QH	IND-QH	IND-QH	ZK
<b>Cutting tools</b>	BOCE	BOCE	BOCE	BOCE	BOCE
<b>Bucket capacity</b>	m <sup>3</sup> 6.5	12.0	7.5	14.0	8.5
<b>Specific material density</b>	t/m <sup>3</sup> 1.0	0.45	1.0	0.45	1.1
<b>Bucket width</b>	mm 3,200	3,700	3,400	4,000	3,500
<b>A Dumping height at max. lift height</b>	mm 2,885	2,620	2,810	2,480	2,940
<b>E Max. operating height</b>	mm 6,470	6,700	6,580	6,800	6,835
<b>F Reach at maximum lift height</b>	mm 1,485	1,860	1,550	1,950	1,770
<b>L Overall length</b>	mm 9,545	10,025	9,715	10,200	10,200
<b>Tipping load, straight*</b>	kg 15,700	14,600	19,300	17,900	24,000
<b>Tipping load, fully articulated*</b>	kg 13,700	12,600	16,900	15,500	21,000
<b>Operating weight*</b>	kg 25,350	26,300	28,650	29,600	32,800
<b>Tyre size</b>	26.5R25 L3		26.5R25 L3		29.5R25 L3

### High-Dump Bucket

	L 566		L 580		L 586
<b>Geometry</b>	IND-QH	IND-QH	IND-QH	IND-QH	ZK
<b>Cutting tools</b>	BOCE	BOCE	BOCE	BOCE	BOCE
<b>Bucket capacity</b>	m <sup>3</sup> 6.0	11.0	7.0	13.0	8.5
<b>Specific material density</b>	t/m <sup>3</sup> 1.0	0.45	1.0	0.45	1.0
<b>Bucket width</b>	mm 3,200	3,700	3,200	4,000	3,500
<b>A Dumping height at max. lift height</b>	mm 5,130	4,840	4,970	4,780	5,100
<b>E Max. operating height</b>	mm 7,215	7,490	7,420	7,650	7,700
<b>F Reach at maximum lift height</b>	mm 1,780	2,140	2,040	2,060	2,000
<b>L Overall length</b>	mm 9,815	10,125	10,060	10,300	10,500
<b>Tipping load, straight*</b>	kg 14,700	14,100	17,800	17,100	23,200
<b>Tipping load, fully articulated*</b>	kg 12,700	12,100	15,500	14,800	20,300
<b>Operating weight*</b>	kg 26,000	26,900	29,100	30,100	33,500
<b>Tyre size</b>	26.5R25 L3		26.5R25 L3		29.5R25 L3

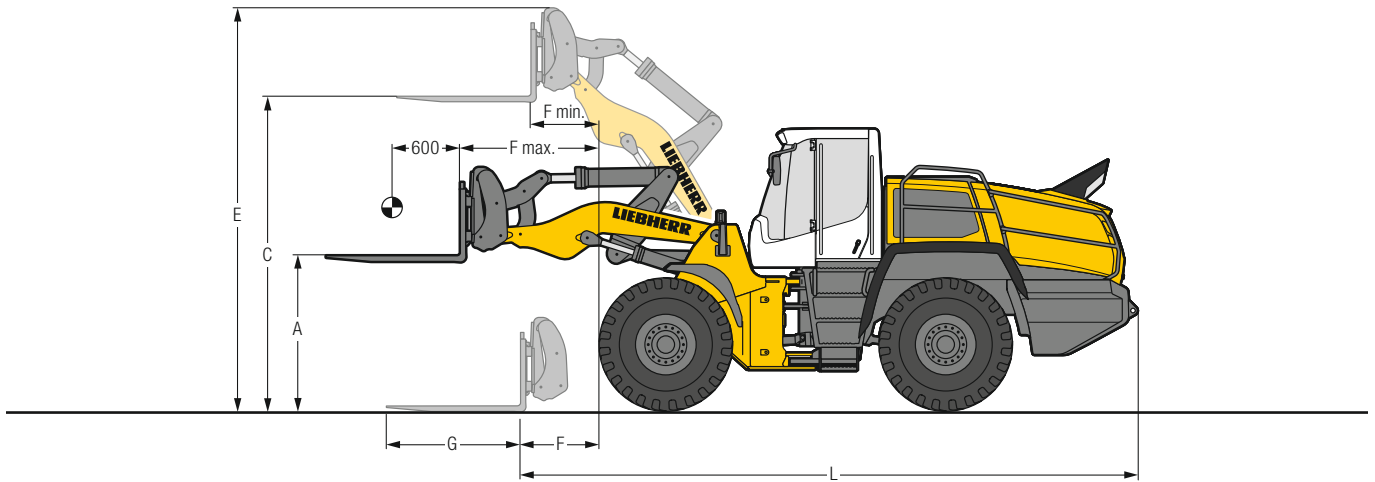
\* The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tyres and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

IND-QH = Industrial lift arm with parallel guidance incl. quick hitch  
 ZK = Z-bar linkage  
 BOCE = Bolt-on cutting edge

# Attachment

## Fork Carrier and Fork

L 566 – L 586



### FEM IV Fork Carrier and Fork

		L 566	L 580
<b>Geometry</b>		IND-QH	IND-QH
<b>A</b>	Lifting height at max. reach	2,075	2,075
<b>C</b>	Max. lifting height	4,220	4,220
<b>E</b>	Max. operating height	5,200	5,200
<b>F</b>	Reach at loading position	1,145	1,025
<b>F max.</b>	Max. reach	1,925	1,805
<b>F min.</b>	Reach at max. lifting height	980	860
<b>G</b>	Fork length	1,800	1,800
<b>L</b>	Length – basic machine	8,100	8,170
	Tipping load, straight*	13,500	16,300
	Tipping load, fully articulated*	11,900	14,400
	Recommended payload for uneven ground = 60% of tipping load, articulated <sup>1)</sup>	7,140	8,640
	Recommended payload for smooth surfaces = 80% of tipping load, articulated <sup>1)</sup>	9,520	10,000 <sup>2)</sup>
	Operating weight*	23,950	26,900
	Tyre size	26.5R25 L3	26.5R25 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)

<sup>1)</sup> According to EN 474-3

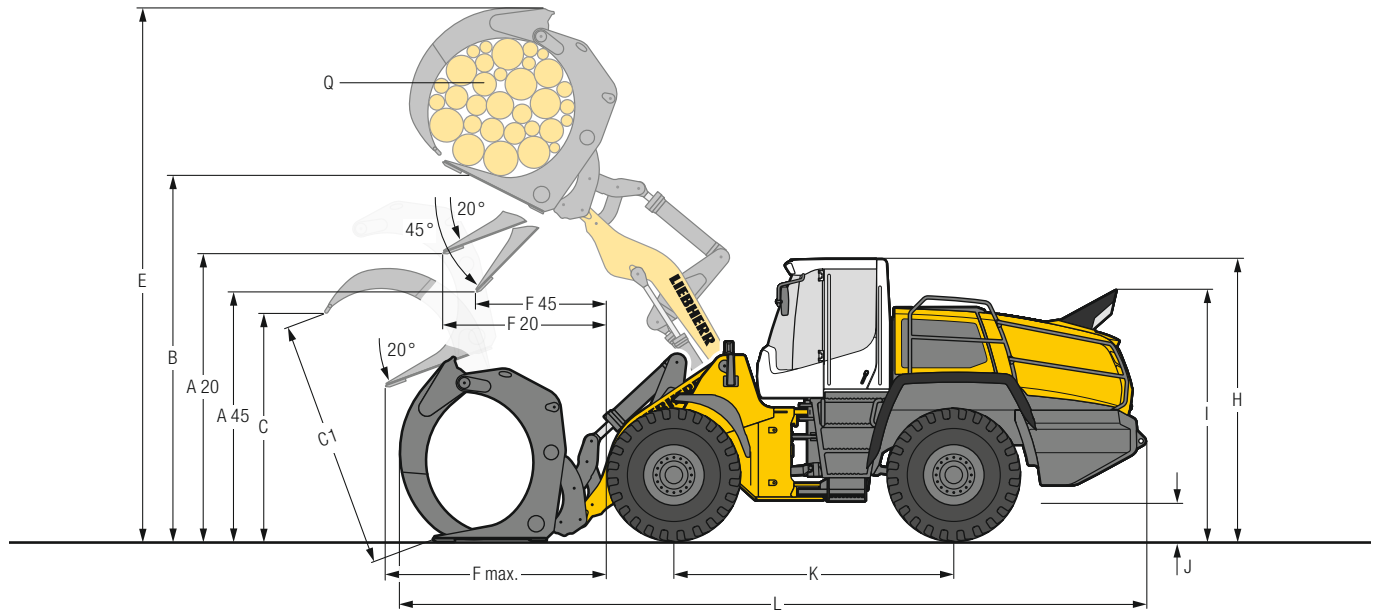
<sup>2)</sup> Payload is limited by FEM IV fork carrier and forks

IND-QH = Industrial lift arm with parallel guidance incl. quick hitch



# Attachment

## Log Grapple



L 566 – L 586

### Log Grapple



			L 566	L 580
<b>Geometry</b>			IND-QH	IND-QH
A20	Discharge height at 20°	mm	3,570	3,520
A45	Discharge height at 45°	mm	2,930	2,805
B	Manipulation height	mm	5,125	5,125
C	Max. grapple opening in loading position	mm	2,650	2,930
C1	Max. grapple opening	mm	3,050	3,340
E	Max. height	mm	7,400	7,500
F20	Reach at max. lifting height at 20° discharge	mm	2,165	2,215
F45	Reach at max. lifting height at 45° discharge	mm	1,620	1,625
F max.	Max. reach	mm	3,110	3,160
H	Height above operator's cab	mm	3,615	3,615
I	Height above exhaust	mm	3,225	3,225
J	Ground clearance	mm	555	485
K	Wheelbase	mm	3,630	3,710
L	Overall length	mm	9,810	10,050
	Width over tyres	mm	2,970	2,970
Q	Grapple diameter	m <sup>2</sup>	3.1	3.5
	Grapple width	mm	1,800	1,800
	Payload*	kg	8,200	9,200
	Operating weight*	kg	26,950	29,850
	Tyre size		26.5R25 L4	26.5R25 L4

\* 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.

IND-QH = Industrial lift arm with parallel guidance incl. quick hitch

# Bucket Selection

L 566 – L 586

## L 566

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 <sub>1</sub> 4.2 m³							4.6		4.2	
	4.7 m³						5.2		4.7		
ZK-HL	GPB <sub>1</sub> 3.7 m³							4.1		3.7	
	4.2 m³						4.6		4.2		
IND-QH	GPB <sub>1</sub> 3.5 m³							3.9		3.5	
	4.0 m³						4.4		4.0		
	LMB 6.5 m³			7.2						6.5	
	12.0 m³	12.0									
	HDB 6.0 m³			6.6						6.0	
	11.0 m³	11.0									

## L 576

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 <sub>1</sub> 4.7 m³								5.2	4.7	
	5.2 m³								5.7	5.2	
ZK-HL	GPB <sub>1</sub> 4.2 m³								4.6	4.2	
	4.7 m³								5.2	4.7	

## L 580

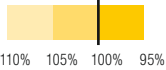
Lift arm	Bucket	Material density (t/m³)									
		0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	
ZK	GPB <sub>1</sub> 5.2 m³							5.7		5.2	
	5.7 m³						6.3		5.7		
	5.7 m³*						6.3		5.7		
ZK-HL	GPB <sub>1</sub> 4.7 m³							5.2		4.7	
	5.2 m³						5.7		5.2		
	GPB <sub>2</sub> 5.2 m³*						5.7		5.2		
IND-QH	GPB <sub>1</sub> 4.5 m³							5.0		4.5	
	5.0 m³						5.5		5.0		
	LMB 7.5 m³			8.3						7.5	
	14.0 m³	14.0									
	HDB 7.0 m³			7.7						7.0	
	13.0 m³	13.0									

## L 586

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 <sub>2</sub> 6.0 m³								6.6	6.0	
	6.5 m³								7.2	6.5	
	RB 5.5 m³								5.5	5.2	
	LMB 8.5 m³				9.4					8.5	
	HDB 8.5 m³			9.4						8.5	
ZK-HL	GPB <sub>2</sub> 5.5 m³								6.1	5.5	
	6.0 m³						6.6		6.0		
	RB 5.0 m³								5.0	4.8	

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

## Bucket Filling Factor



## Lift Arm

<b>ZK</b>	Z-bar linkage, standard lift arm length
<b>IND-QH</b>	Industrial lift arm with quick hitch, standard lift arm length
<b>ZK-HL</b>	Z-bar linkage, High Lift

## Bucket

<b>GPB<sub>1</sub></b>	General purpose bucket (Excavation bucket)
<b>GPB<sub>2</sub></b>	General purpose bucket (Rehandling bucket)
<b>RB</b>	Rock bucket
<b>LMB</b>	Light material bucket
<b>HDB</b>	High-dump bucket

## Bulk Material Densities and Bucket Filling Factors

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

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

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

# Tyres

## Tyre Types

L 566 – L 586

	Size and tread code		Change of operating weight kg	Width over tyres mm	Change in vertical dimensions* mm	Use
<b>L 566 XPower®</b>						
Bridgestone	26.5R25 VJT	L3	160	2,970	14	Bulk material (firm ground conditions)
Bridgestone	26.5R25 VLTS	L4	420	2,970	44	Gravel, Industry (firm ground conditions)
Bridgestone	26.5R25 VSDT	L5	1,038	2,970	50	Stone, Mining spoil (firm ground conditions)
Bridgestone	26.5R25 VSDL	L5	1,290	2,970	57	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	26.5R25 VSMS	L5	1,599	2,960	70	Scrap, Recycling, Slag (firm ground conditions)
Bridgestone	26.5R25 VSNT	L4	576	2,960	47	Gravel, Industry, Wood (firm ground conditions)
Bridgestone	750/65R25 VTS	L3	194	3,070	- 39	Gravel, Industry, Wood (all ground conditions)
Continental	26.5R25 EM-Master	L3	8,400	2,980	41	Bulk material (firm ground conditions)
Continental	26.5R25 EM-Master	L4	528	2,930	48	Gravel, Industry, Wood (firm ground conditions)
Goodyear	26.5R25 RT-3B	L3	324	2,980	26	Gravel (all ground conditions)
Goodyear	26.5R25 TL-3A+	L3	348	2,980	30	Sand, Gravel, Earthworks, Clay (all ground conditions)
Goodyear	26.5R25 GP-4D	L4	436	2,980	26	Gravel, Industry, Wood (firm ground conditions)
Goodyear	26.5R25 RL-4K	L4	776	2,990	63	Gravel, Industry, Stone (firm ground conditions)
Goodyear	26.5R25 RL-5K	L5	1,244	2,990	63	Stone, Scrap, Recycling (firm ground conditions)
Goodyear	26.5R25 RL-5S	L5	1,460	2,990	63	Scrap, Recycling, Slag (firm ground conditions)
Goodyear	26.5R25 RT-5D	L5	1,008	2,990	63	Stone, Mining spoil (firm ground conditions)
Goodyear	750/65R25 TL-3A+	L3	148	3,100	- 26	Sand, Gravel, Industry, Wood (all ground conditions)
Michelin	26.5R25 XHA2	L3	0	2,960	0	Sand, Gravel (all ground conditions)
Michelin	26.5R25 X MINE PRO	L5	1,188	3,010	58	Stone, Scrap, Recycling (firm ground conditions)
Michelin	26.5R25 XLD D2A	L5	696	2,970	38	Stone, Mining spoil (firm ground conditions)
Michelin	26.5R25 XTXL	L4	488	2,970	23	Gravel, Industry, Wood (firm ground conditions)
Michelin	750/65R25 XLD 65	L3T	- 8	3,060	- 57	Gravel, Industry, Wood (all ground conditions)
<b>L 576 XPower®/L 580 XPower®</b>						
Bridgestone	26.5R25 VJT	L3	0	2,970	0	Bulk material (firm ground conditions)
Bridgestone	26.5R25 VLTS	L4	260	2,970	30	Gravel, Industry (firm ground conditions)
Bridgestone	26.5R25 VSDT	L5	878	2,970	36	Stone, Mining spoil (firm ground conditions)
Bridgestone	26.5R25 VSDL	L5	1,130	2,970	43	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	26.5R25 VSMS	L5	1,439	2,960	56	Scrap, Recycling, Slag (firm ground conditions)
Bridgestone	26.5R25 VSNT	L4	416	2,960	33	Gravel, Industry, Wood (firm ground conditions)
Bridgestone	750/65R25 VTS	L3	- 74	3,070	- 53	Gravel, Industry, Wood (all ground conditions)
Continental	26.5R25 EM-Master	L3	8,400	2,980	41	Bulk material (firm ground conditions)
Continental	26.5R25 EM-Master	L4	368	2,930	34	Gravel, Industry, Wood (firm ground conditions)
Goodyear	26.5R25 RT-3B	L3	164	2,980	12	Gravel (all ground conditions)
Goodyear	26.5R25 TL-3A+	L3	188	2,980	16	Sand, Gravel, Earthworks, Clay (all ground conditions)
Goodyear	26.5R25 GP-4D	L4	276	2,980	12	Gravel, Industry, Wood (firm ground conditions)
Goodyear	26.5R25 RL-4K	L4	616	2,990	49	Gravel, Industry, Stone (firm ground conditions)
Goodyear	26.5R25 RL-5K	L5	1,084	2,990	49	Stone, Scrap, Recycling (firm ground conditions)
Goodyear	26.5R25 RL-5S	L5	1,300	2,990	49	Scrap, Recycling, Slag (firm ground conditions)
Goodyear	26.5R25 RT-5D	L5	848	2,990	49	Stone, Mining spoil (firm ground conditions)
Goodyear	750/65R25 TL-3A+	L3	- 119	3,100	- 40	Sand, Gravel, Industry, Wood (all ground conditions)
Michelin	26.5R25 XHA2	L3	- 160	2,960	- 14	Sand, Gravel (all ground conditions)
Michelin	26.5R25 X MINE PRO	L5	1,028	3,010	44	Stone, Scrap, Recycling (firm ground conditions)
Michelin	26.5R25 XLD D2A	L5	536	2,970	24	Stone, Mining spoil (firm ground conditions)
Michelin	26.5R25 XTXL	L4	328	2,970	9	Gravel, Industry, Wood (firm ground conditions)
Michelin	750/65R25 XLD 65	L3T	- 275	3,060	- 71	Gravel, Industry, Wood (all ground conditions)
<b>L 586 XPower®</b>						
Bridgestone	29.5R25 VJT	L3	0	3,260	0	Bulk material (firm ground conditions)
Bridgestone	29.5R25 VLTS	L4	260	3,270	25	Gravel, Stone (firm ground conditions)
Bridgestone	29.5R25 VSDT	L5	1,224	3,270	35	Stone, Mining spoil (firm ground conditions)
Bridgestone	29.5R25 VSDL	L5	1,584	3,270	45	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	29.5R25 VSNT	L4	566	3,270	35	Gravel, Industry, Wood (firm ground conditions)
Continental	29.5R25 EM-Master	L3	144	3,260	20	Bulk material (firm ground conditions)
Continental	29.5R25 EM-Master	L4	358	3,280	25	Gravel, Industry, Wood (firm ground conditions)
Goodyear	29.5R25 TL-3A+	L3	386	3,290	21	Sand, Gravel, Earthworks, Clay (all ground conditions)
Goodyear	29.5R25 GP-4D	L4	358	3,260	9	Gravel, Industry, Wood (firm ground conditions)
Goodyear	29.5R25 RL-4K	L4	978	3,270	29	Gravel, Industry, Stone (firm ground conditions)
Goodyear	29.5R25 RL-5K	L5	1,454	3,310	51	Stone, Scrap, Recycling (firm ground conditions)
Goodyear	29.5R25 RT-5D	L5	1,362	3,300	41	Stone, Mining spoil (firm ground conditions)
Goodyear	29.5R25 RL-5S	L5	1,954	3,270	51	Scrap, Recycling, Slag (firm ground conditions)
Michelin	29.5R25 XHA2	L3	- 146	3,250	- 15	Sand, Gravel (all ground conditions)
Michelin	29.5R25 XLD D2A	L5	790	3,260	11	Stone, Mining spoil (firm ground conditions)
Michelin	29.5R25 XTXL	L4	460	3,280	11	Gravel, Industry, Wood (firm ground conditions)
Michelin	29.5R25 X MINE PRO	L5	1,266	3,310	27	Stone, Scrap, Recycling (firm 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



		L 506 Compact	L 507 Stereo	L 508 Compact	L 509 Stereo	L 514 Stereo
Tipping load	kg	3,450	3,750	3,850	4,430	5,750
Bucket capacity	m <sup>3</sup>	0.8	0.9	1.0	1.2	1.5
Operating weight	kg	5,180	5,550	5,600	6,390	8,860
Engine output (ISO 14396)	kW/HP	46/63	50/68	50/68	54/73	76/103

## Wheel Loader



		L 518 Stereo	L 526	L 538	L 546	L 550 XPower®
Tipping load	kg	6,550	7,700	9,500	10,500	12,200
Bucket capacity	m <sup>3</sup>	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	140/190

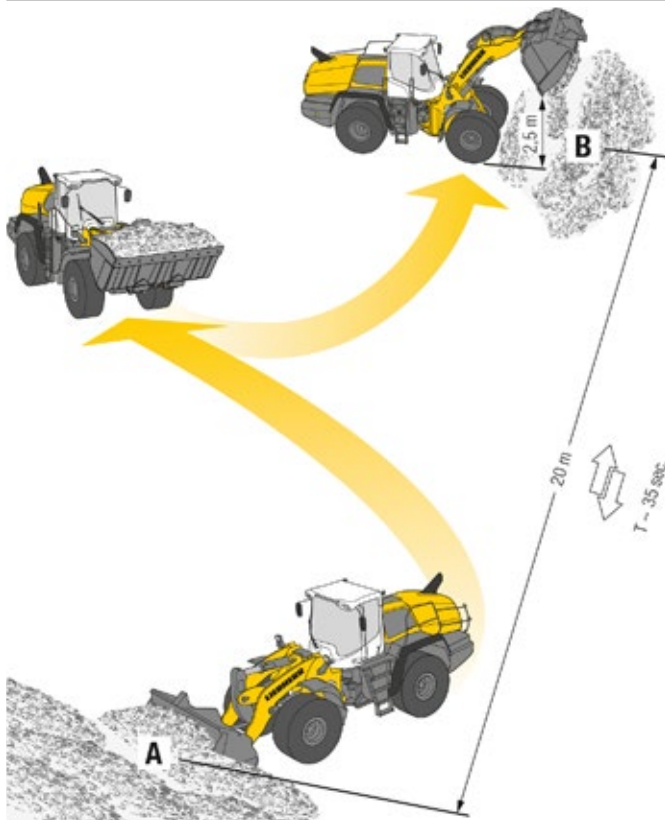
## Wheel Loader



		L 556 XPower®	L 566 XPower®	L 576 XPower®	L 580 XPower®	L 586 XPower®
Tipping load	kg	13,700	15,900	17,600	19,200	21,600
Bucket capacity	m <sup>3</sup>	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

12.18

## 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 m <sup>3</sup>	n = 48	2.8	8.3	6.1
L 538: 2.6 m <sup>3</sup>	n = 40	2.7	10.0	6.8
L 546: 2.8 m <sup>3</sup>	n = 38	2.6	10.5	7.0
L 550: 3.2 m <sup>3</sup>	n = 32	2.7	12.5	9.0
L 556: 3.6 m <sup>3</sup>	n = 29	2.7	13.8	9.9
L 566: 4.2 m <sup>3</sup>	n = 22	3.0	18.2	12.0
L 576: 4.7 m <sup>3</sup>	n = 21	2.8	19.1	12.6
L 580: 5.2 m <sup>3</sup>	n = 20	2.7	20.0	13.7
L 586: 6.0 m <sup>3</sup>	n = 15	3.1	26.7	16.4

\* Wheel loader in practical customer applications with individual machine configurations. Average data from LiDAT from 30.01.2020.



Experience just how much fuel you can save!  
[www.encyplus.liebherr.com](http://www.encyplus.liebherr.com)

# Equipment

 <b>Basic Wheel Loader</b>	L 550	L 556	L 566	L 576	L 580	L 586
Crash protection, rear	+	+	+	+	+	+
Automatic central lubrication system	+	+	+	+	+	•
Battery main switch (lockable)	•	•	•	•	•	•
Electronic tractive force regulation for difficult ground conditions	•	•	•	•	•	•
Travel light (with additional headlights) on front section halogen	+	+	+	+	+	+
Travel light (with additional headlights) on front section LED	+	+	+	+	+	+
Ride control	•	•	•	•	•	•
Parking brake	•	•	•	•	•	•
Fire extinguisher 6 kg	+	+	+	+	+	+
Fluff trap for radiator	+	+	+	+	+	+
Speed limiter 20 km/h as a factory preset	+	+	+	+	+	+
Speed limiter V <sub>max</sub> adjustable key on the control unit	•	•	•	•	•	•
DEF tank	•	•	•	•	•	•
Turbocharger insulation	+	+	+	+	+	+
Pre-heat system for cold starting	•	•	•	•	•	•
Rear license panel light	+	+	+	+	+	+
Combined inching-braking system	•	•	•	•	•	•
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	+	+	+	+	+	+
Automatic delayed engine stop	+	+	+	+	+	+
Widening for mudguard	+	+	+	+	+	+
Ramming guard with guard	+	+	+	+	+	-
Headlights halogen (double design on engine hood)	•	•	•	•	•	•
Headlights LED (double design on engine hood)	+	+	+	+	+	+
Guard for headlights	+	+	+	+	+	+
Auxiliary heater (Additional heating with engine preheating)	+	+	+	+	+	+
Dust protection for alternator	+	+	+	+	+	+
Road travel counterweight	•	•	+	-	-	-
Lockable doors and engine hood	•	•	•	•	•	•
Tunnel package	+	+	+	+	-	-
Chassis protection rear	+	+	+	+	+	+
Chassis protection front	+	+	+	+	+	+
Air pre-cleaner TOP AIR	+	+	+	+	+	+
Toolbox with toolkit	•	•	•	•	•	•
Liebherr weighing system with "Truck Payload Assist" (cannot be calibrated)	+	+	+	+	+	+
Towing hitch	•	•	•	•	•	•
Additional handrails left	•	•	•	•	•	•
Additional handrails right	+	+	+	+	+	+

 <b>Equipment</b>	L 550	L 556	L 566	L 576	L 580	L 586
Working hydraulics lockout	•	•	•	•	•	•
Automatic bucket return programmable	•	•	•	•	•	•
Stroke limit damping	+	+	+	+	+	+
Fork carrier and pallet forks	+	+	+	+	+	+
High-dump bucket	+	+	+	+	+	+
Log grapple	+	+	+	-	+	-
Automatic lift arm position and lowering programmable	•	•	•	•	•	•
High Lift arms	+	+	+	+	+	+
Industrial lift arm	+	+	+	-	+	-
Lift arm Z-bar linkage	•	•	•	•	•	•
Hydraulic quick hitch	+	+	+	+	+	+
Adjustable tipping speed	•	•	•	•	•	•
Tilt cylinder protection	+	+	+	+	+	+
Loading buckets incl. a range of cutting tools	+	+	+	+	+	+
Light material bucket	+	+	+	+	+	+
Load holding valves	+	+	+	+	+	+
Float position	•	•	•	•	•	•
Visualisation of the equipment position	•	•	•	•	•	•
3rd electro-hydraulic, proportional control circuit, adjustable delivery flow	+	+	+	+	+	+
3rd electro-hydraulic control circuit for continuous sweeper and snow blower operation	+	+	+	+	+	+
4th electro-hydraulic, proportional control circuit, adjustable delivery flow	+	+	+	+	+	-
4th electro-hydraulic control circuit for continuous sweeper and snow blower operation	+	+	+	+	+	-



## Operator's Cab

	L 550	L 556	L 566	L 576	L 580	L 586
Adapter plate for additional fastening on the multi-function rail	+	+	+	+	+	+
Adaptive working lighting	+	+	+	+	+	+
Access assistance to facilitate cleaning windscreen	•	•	•	•	•	•
Exterior mirror, electrical adjustable, with heating	+	+	+	+	+	+
Exterior mirror, tiltable and adjustable	•	•	•	•	•	•
Operating hour meter (integrated in display unit)	•	•	•	•	•	•
Operating hour meter (mechanic)	+	+	+	+	+	+
Electronical theft protection with code	+	+	+	+	+	+
Electronical theft protection with key with/without driver identification	+	+	+	+	+	+
Storage box left	•	•	•	•	•	•
Operator's cab without steering wheel / steering column (not available as street legal) – joystick steering only	+	+	+	+	+	+
Operator seat "Comfort" – air sprung with seat heating	•	•	•	•	•	•
Operator seat "Premium" – active air-suspension with seat air-condition, seat heating and headrest	+	+	+	+	+	+
Particle filter F7	•	•	•	•	•	•
Fire extinguisher in cab 2 kg	+	+	+	+	+	+
Rear window heated electrically	•	•	•	•	•	•
Audible horn control integrated into Liebherr control lever	+	+	+	+	+	+
Interior mirror right	•	•	•	•	•	•
Interior mirror left and right	+	+	+	+	+	+
Integral tyre pressure monitoring system	+	+	+	+	+	+
Joystick steering	+	+	+	+	+	+
Floor mat	•	•	•	•	•	•
Clothes hooks (2 pieces)	•	•	•	•	•	•
Air conditioning system	•	•	•	•	•	•
Automatic air conditioning system	+	+	+	+	+	+
Cool box	+	+	+	+	+	+
3 way continuously adjustable steering column (height-adjustable, tilting, 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. kick down, travel direction)	•	•	•	•	•	•
Liebherr multi-lever control system moving with operator's seat (incl. kick down, travel direction)	+	+	+	+	+	+
Liebherr key with remote control incl. Coming Home/Leaving Home function	+	+	+	+	+	+
Premiumdisplay (Touchscreen), with height adjustment and tilting function	•	•	•	•	•	•
Preparation for radio installation	+	+	+	+	+	+
Radio Liebherr "Comfort" (USB/AUX/BLUETOOTH/handsfree set)	+	+	+	+	+	+
Radio Liebherr "Standard" (USB/AUX)	+	+	+	+	+	+

• = Standard  
+ = Option  
- = not available



## Operator's Cab

	L 550	L 556	L 566	L 576	L 580	L 586
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	+	+	+	+	+	+
Headlights rear, single design, halogen / LED	+	+	+	+	+	+
Headlights rear, double design, LED	+	+	+	+	+	+
Headlights front, double design, halogen	•	•	•	•	•	•
Headlights front, double design, LED	+	+	+	+	+	+
Sliding window left/right	•	•	•	•	•	•
Slipcover for operator seat	+	+	+	+	+	+
Windscreen guard	+	+	+	+	+	+
Sunblind rear	+	+	+	+	+	+
Sunblind front	•	•	•	•	•	•
Power socket 12 V	•	•	•	•	•	•
Power socket USB	•	•	•	•	•	•
First aid kit	+	+	+	+	+	+
Preparation for protective ventilation and dust filtrating device	+	+	+	+	+	+
Wide angle mirror	+	+	+	+	+	+
Cigarette lighter	•	•	•	•	•	•
2-in-1 steering – changeable	+	+	+	+	+	-



## Safety

	L 550	L 556	L 566	L 576	L 580	L 586
Active personnel detection at the rear incl. brake assistant	+	+	+	+	+	+
Roof camera for front area monitoring (with Liebherr camera via Liebherr display)	+	+	+	+	+	+
Country-specific versions	+	+	+	+	+	+
Emergency steering system	•	•	•	•	•	•
Reversing obstruction detector	+	+	+	+	+	+
Back-up alarm acoustic/visual	+	+	+	+	+	+
Rear space monitoring with camera (with Liebherr camera via Liebherr display)	•	•	•	•	•	•
Skyview 360°	+	+	+	+	+	+

Further information can be found in the brochure "Assistance systems for wheel loaders" or you can find here:



# 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 then, the family business has steadily grown to a group of more than 130 companies with more than 46,000 employees located on all continents. The corporate headquarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.

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

## Liebherr-Werk Bischofshofen GmbH

Postfach 49, A-5500 Bischofshofen

☎ +43 50809 1-0, Fax +43 50809 11385

[www.liebherr.com](http://www.liebherr.com), E-Mail: [info.lbh@liebherr.com](mailto:info.lbh@liebherr.com)

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