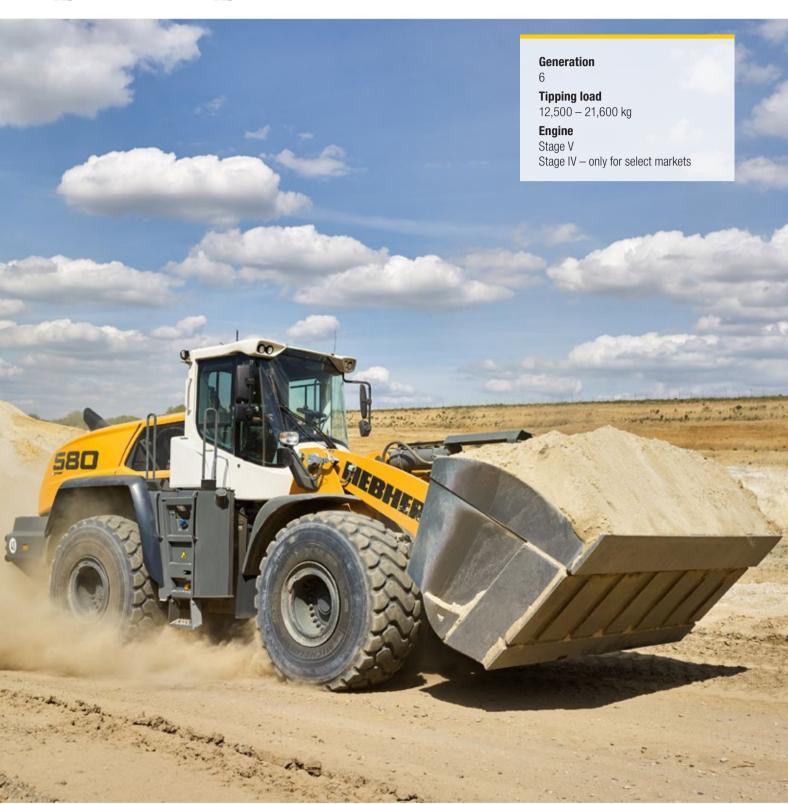
# Wheel Loaders

# L 550 - L 586

mpower®

xpower®



# LIEBHERR



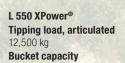
reddot award 2016

#### **Performance**

Power for Increased Productivity

# **Economy**

Minimum Costs at High Handling Capacity



3.4 m<sup>3</sup>
Operating weight

18,550 kg

Engine output 163 kW/222 HP

L 556 XPower® Tipping load, articulated 13,750 kg

**Bucket capacity** 3.7 m<sup>3</sup>

Operating weight 19,600 kg

Engine output 183 kW/249 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 203 kW/276 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 218 kW/296 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 233 kW/317 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 263 kW/358 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-XPower® 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 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 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**

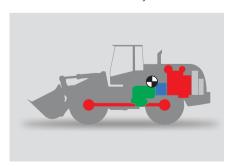
The wide range of attachments means the right tool is always to hand. As a result, a multitude of uses can easily be covered. This increases utilisation of the machine and raises productivity. Liebherr wheel loaders can manoeuvre quickly and efficiently thanks to their compact design – the best choice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

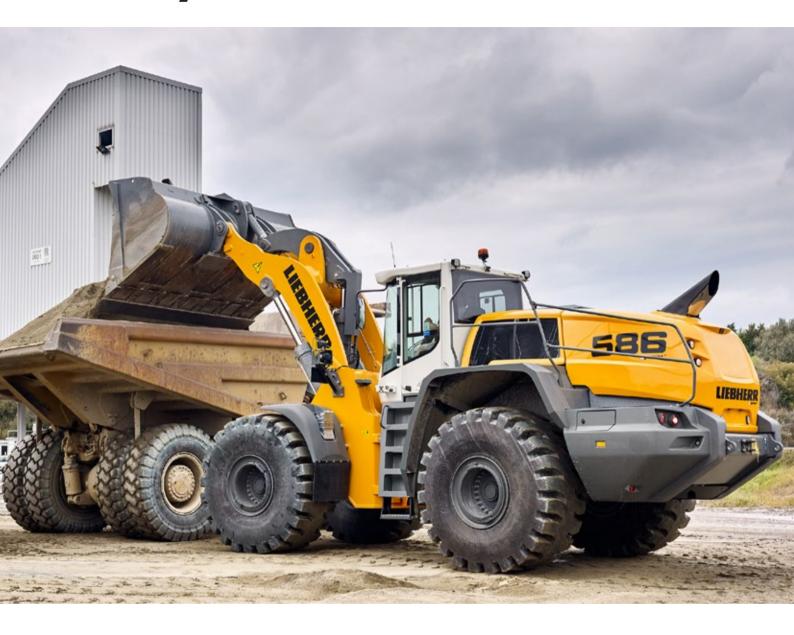


#### **An All-Purpose Loader**

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

# Save Costs and Protect the Environment

# I iDAT

#### **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 %.

#### Innovative Exhaust Gas Treatment 1)

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.

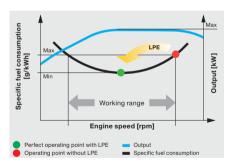
#### **Economical Use of Resources**

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.

#### **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 vou comprehensive work deployment documentation, greater availability thanks to shorter downtimes, faster support from the manufacturer, quicker detection of strain/overload 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 as standard incl. 1 year free-of-charge use

# Reliability



# **Robustness and Quality for Durable Machines**

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

# OEM Quality Components

#### **Durable and Powerful**

Liebherrhas 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

#### **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 1)

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.



#### **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.



## **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 Machine Availability**

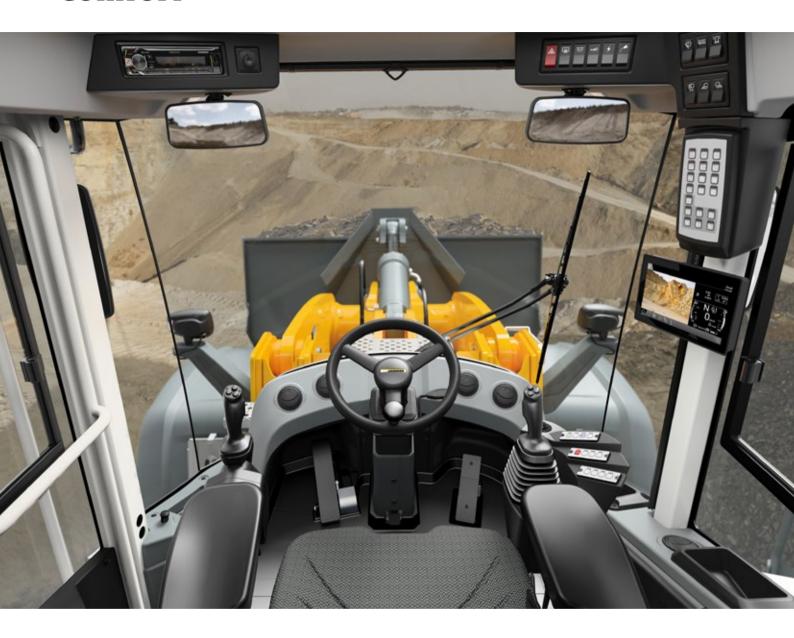
- Reduced load on the driveline through the subdivision of forces
- High, safe and versatile usage thanks to robust, low-wear components
- Tried and tested exhaust gas treatment system



## **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 door 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



# Joystick Steering (optional)

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

# Simple and Intuitive Operation

#### **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. Elimination 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 9" touchscreen display, which comes as standard, allows all operating-relevant machine data to be viewed and configured quickly. Visual and acoustic warning devices ensure high operational reliability.

#### LIKUFIX for Industrial Lift Arm (optional)

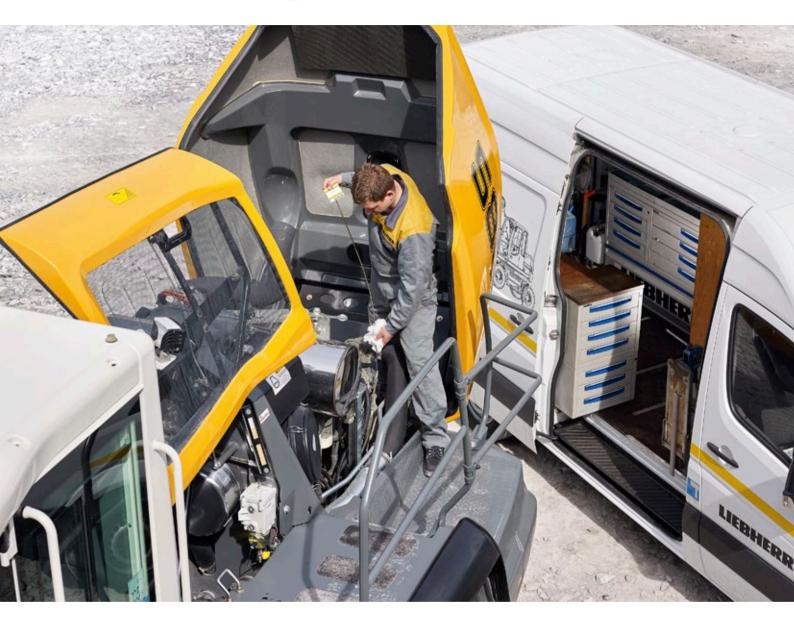
LIKUFIX is a hydraulic quick hitch with an integral automated hydraulic coupling system, which is available as an option. A wide range of hydraulic and mechanical attachments can be changed fully automatically, safely and without any oil leaks direct from the cab in a matter of seconds by pressing a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

#### **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-XPower® 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

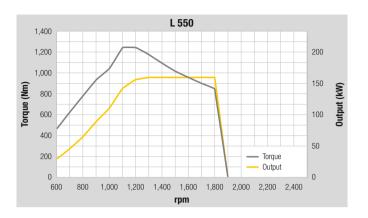
# **Technical Data**

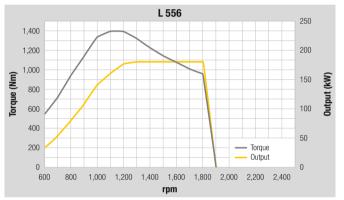
Engine
Liigiiic

		L 550	L 556
Diesel engine		D934 A7	D944 A7
Design		Water-cooled i	n-series engine with charge-air
		cooling	
Cylinder inline		4	4
Fuel injection process	S	Electronic Con	nmon Rail high-pressure injection
Output			
to ISO 9249/	kW/HP	160/218	180/245
ECE-R.24	at RPM	1,800	1,800
Rated output			
to ISO 14396/			
ECE-R.120	kW/HP	163/222	183/249
Nominal speed	at RPM	1,800	1,800
Max. torque			
to ISO 14396/	Nm	1,248	1,403
ECE-R.120	at RPM	1,100	1,150
Displacement		7.014	7.964
Bore / Stroke	mm	122/150	130/150
Stage IV – available			
Harmful emissions va	alues		egulation ECE-R.96 Power Band (
Emission control		Liebherr-SCR	technology
Fuel tank	litres	280	280
Stage V			
Harmful emissions va	alues		egulation (EU) 2016/1628
Emission control		Liebherr-SCR	technology and closed diesel
		particle filter sy	
Fuel tank	litres		280
DEF tank	litres		67.5
Air cleaner system			with main and safety element,
		pre-cleaner, se display	ervice indicator on the Liebherr
Electrical system			
Operating voltage	V	24	24
Capacity	Ah	2 x 140	2 x 140
Alternator	V/A	28/140	28/140
Starter		24/7.8	24/7.8

# Driveline

Dilveille	
Continuous power spl	it XPower® driveline
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
Travel speed range	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





# **I**→ Axles

	L 550	L 556				
Four-wheel drive						
Front axle	Fixed					
Rear axle	Centre pivot, with 13° oscillating angle to easide					
Height of obstacles which						
can be driven over	nm 460	442				
	with all four w	with all four wheels remaining in contact with				
	the ground					
Differentials	Automatic lim	Automatic limited-slip differentials				
Reduction gear	Planetary fina	Planetary final drive in wheel hubs				
Track width	2.003 mm wit	h all types of tyres				

# Brakes

Wear-free service brake	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)
Parking brake	Electro-hydraulically actuated spring-loaded disc brake system on the transmission

The braking system meets the requirements of the ISO 3450.



"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

# Attachment Hydraulics

		L 550	L 556		
Design		"Load-sensing" swash plate type variable flov pump with output and flow control, and press cut-off in the control block			
Cooling		Hydraulic oil cooling using thermostatically controlled fan and oil cooler			
Filtration		Return lin	ne filter in the hydraulic reservoir		
Control		Liebherr control lever, electro-hydraulically operated			
Lifting function		Lifting, neutral, lowering Automatic lift arm position and lowering by Liebherr control lever Float position controlled by Liebherr control lever			
Tilt function		Automat	neutral, dump c bucket return for tilting back and controlled by Liebherr control lever		
Max. flow	l/min.	234	290		
Max. pressure					
Z-bar linkage	bar	350	350		
Industrial lift arm	bar	380	380		

# Attachment

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



I ☐ Operator's Ca	□ □ Operator's Cab				
Design	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				
Liebherr operator's seat	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				
Cab heating and ventilation	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 ■

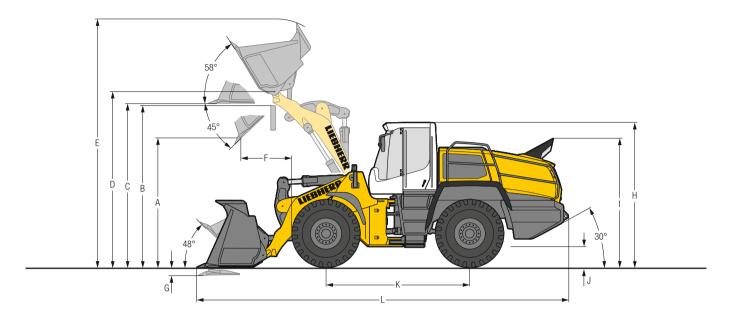
	L 550	L 556
Sound pressure le to ISO 6396	evel	
L <sub>pA</sub> (inside cab)	dB(A) 68	68
Sound power level to 2000/14/EC	el	
L <sub>WA</sub> (surround noise	) dB(A) 104	104

# Capacities

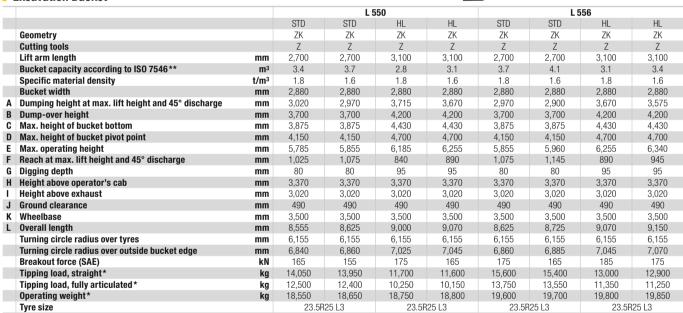
	L 550	L 556
Engine oil		
(inclusive filter change)	I 26	26
Pump distribution		
gearbox	l 1.2	1.2
XPower® gearbox	I 53	53
Coolant	I 67	67
Front axle	I 35	42
Rear axle	I 35	35
Hydraulic tank	l 105	105
Hydraulic system, total	l 175	180
Air conditioning		
system R134a	g 1,250	1,250

# **Dimensions**

#### **Z-bar Linkage**



#### **Excavation Bucket**



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

STD = Standard lift arm length

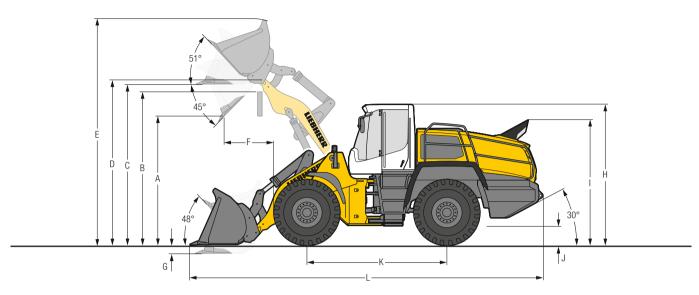
HL = High Lift

ZK = Z-bar linkage

= Welded-on tooth holder with add-on teeth

<sup>\*\*</sup> 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.

# **Dimensions Industrial Lift Arm**



# Excavation Bucket



			L 550		L 556		
		STD	HL	HL	STD	HL	HL
Geometry		IND-QH	IND-QH	IND-QH	IND-QH	IND-QH	IND-QH
Cutting tools		T	T	T	T	T	T
Lift arm length	mm	2,700	3,000	3,000	2,700	3,000	3,000
Bucket capacity according to ISO 7546**	m <sup>3</sup>	3.1	2.6	2.8	3.4	2.8	3.1
Specific material density	t/m³	1.8	1.8	1.6	1.8	1.8	1.6
Bucket width	mm	2,880	2,880	2,880	2,880	2,880	2,880
A Dumping height at max. lift height and 45° discharge	mm	2,920	3,525	3,490	2,870	3,490	3,440
B Dump-over height	mm	3,700	4,100	4,100	3,700	4,100	4,100
C Max. height of bucket bottom	mm	3,865	4,385	4,385	3,865	4,385	4,385
D Max. height of bucket pivot point	mm	4,145	4,665	4,665	4,145	4,665	4,665
E Max. operating height	mm	5,845	6,240	6,290	5,925	6,290	6,365
F Reach at max. lift height and 45° discharge	mm	1,150	835	870	1,210	870	920
G Digging depth	mm	100	100	100	100	100	100
Height above operator's cab	mm	3,370	3,370	3,370	3,370	3,370	3,370
Height above exhaust	mm	3,020	3,020	3,020	3,020	3,020	3,020
J Ground clearance	mm	490	490	490	490	490	490
K Wheelbase	mm	3,500	3,500	3,500	3,500	3,500	3,500
Overall length	mm	8,785	9,025	9,075	8,865	9,075	9,145
Turning circle radius over tyres	mm	6,155	6,155	6,155	6,155	6,155	6,155
Turning circle radius over outside bucket edge	mm	6,875	6,980	7,000	6,895	7,000	7,020
Breakout force (SAE)	kN	140	150	145	155	175	165
Tipping load, straight*	kg	12,900	11,200	11,100	14,300	12,400	12,300
Tipping load, fully articulated*	kg	11,400	9,800	9,700	12,500	10,800	10,700
Operating weight*	kg	19,200	19,300	19,350	20,200	20,300	20,350
Tyre size			23.5R25 L3			23.5R25 L3	

<sup>\*</sup> 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.

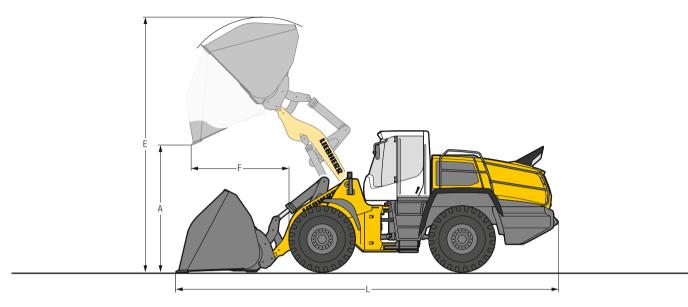
= Standard lift arm length

HL = High Lift

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

= Welded-on tooth holder with add-on teeth

# Attachment **Light Material Bucket**



# Heavy Material Density



		L	550	L 556	
		STD	HL	STD	HL
Geometry		IND-QH	IND-QH	IND-QH	IND-QH
Cutting tools		BOCE	BOCE	BOCE	BOCE
Bucket capacity	m³	5.0	4.5	5.5	5.0
Specific material density	t/m³	1.0	1.0	1.0	1.0
Bucket width	mm	2,950	2,950	2,950	2,950
Dumping height at max. lift height	mm	2,630	3,190	2,530	3,145
Max. operating height	mm	5,975	6,560	6,040	6,490
Reach at maximum lift height	mm	1,420	1,120	1,500	1,185
Overall length	mm	8,970	9,245	9,105	9,330
Tipping load, straight*	kg	12,200	10,600	13,600	11,800
Tipping load, fully articulated*	kg	10,600	9,200	11,700	10,200
Operating weight*	kg	19,500	19,600	20,500	20,600
Tyre size		23.5	R25 I 3	23 5R:	2513

# Light Material Density



		L 5	550	L 5	56
		STD	HL	STD	HL
	Geometry	IND-QH	IND-QH	IND-QH	IND-QH
	Cutting tools	BOCE	BOCE	BOCE	BOCE
	Bucket capacity m <sup>3</sup>	9.5	8.5	10.0	9.0
	Specific material density t/m <sup>3</sup>	0.5	0.5	0.5	0.5
	Bucket width mm	3,400	3,400	3,400	3,400
Α	Dumping height at max. lift height mm	2,320	2,910	2,300	2,870
Ε	Max. operating height mm	6,240	6,730	6,245	6,760
F	Reach at maximum lift height mm	1,740	1,435	1,740	1,475
L	Overall length mm	9,415	9,670	9,435	9,730
	Tipping load, straight* kg	11,900	10,200	13,300	11,300
	Tipping load, fully articulated* kg	10,200	8,800	11,500	9,700
	Operating weight* kg	20,100	20,200	21,100	21,200
	Tyre size	23.5F	325 L3	23.5R	25 L3

<sup>\*</sup> 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)

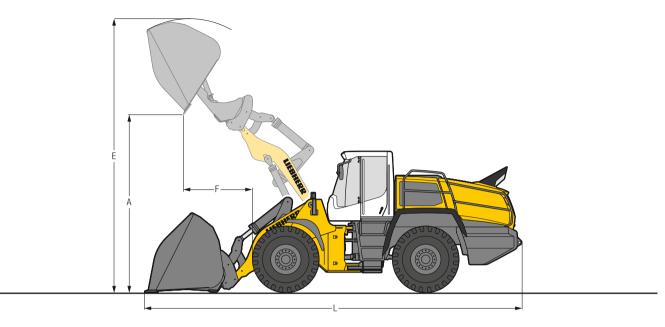
STD = Standard lift arm length

= 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 5	56
		STD	HL	STD	HL
Geometry		IND-QH	IND-QH	IND-QH	IND-QH
Cutting tools		BOCE	BOCE	BOCE	BOCE
Bucket capacity	m³	4.5	4.0	5.0	4.5
Specific material density	t/m³	1.0	1.0	1.0	1.0
Bucket width	mm	2,700	2,700	2,700	2,700
Dumping height at max. lift height	mm	4,645	5,235	4,570	5,190
Max. operating height	mm	6,865	7,360	6,920	7,400
Reach at maximum lift height	mm	1,685	1,400	1,750	1,445
Overall length	mm	9,250	9,545	9,350	9,610
Tipping load, straight*	kg	11,900	10,100	13,600	11,300
Tipping load, fully articulated*	kg	10,300	8,700	11,800	9,600
Operating weight*	kg	19,900	20,000	20,400	21,000
Tyre size		23.5	R2513	23.5R	2513

# Light Material Density



		L	550	L 5	56
		STD	HL	STD	HL
	Geometry	IND-QH	IND-QH	IND-QH	IND-QH
	Cutting tools	BOCE	BOCE	BOCE	BOCE
	Bucket capacity m	9.0	8.0	9.5	8.5
	Specific material density t/m	0.5	0.5	0.5	0.5
	Bucket width mr	a 3,400	3,400	3,400	3,400
Α	Dumping height at max. lift height mr	<b>1</b> 4,335	4,955	4,290	4,895
Ε	Max. operating height mr	n 7,090	7,505	7,135	7,560
F	Reach at maximum lift height mr	n 1,720	1,420	1,760	1,470
L	Overall length mi	n 9,410	9,670	9,470	9,750
	Tipping load, straight* k	g 11,400	9,700	12,800	10,900
	Tipping load, fully articulated*	9,800	8,300	11,000	9,300
	Operating weight*	g 20,500	20,600	21,500	21,600
	Tyre size	23.5	R25 L3	23.5R	25 L3

<sup>\*</sup> 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)

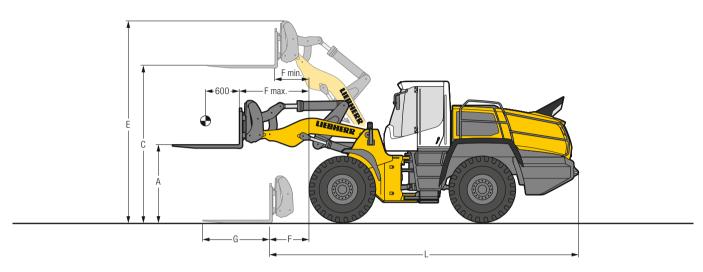
STD = Standard lift arm length

= High Lift

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

BOCE = Bolt-on cutting edge

# Attachment **Fork Carrier and Fork**



# FEM IV Fork Carrier and Fork



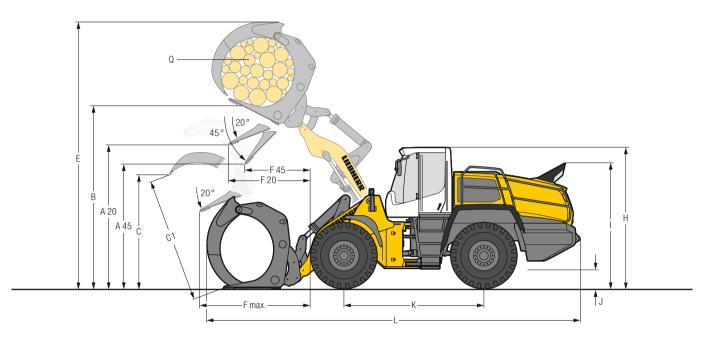
			L 550	L 556
	Geometry		IND-QH	IND-QH
A	Lifting height at max. reach	mm	1,805	1,805
;	Max. lifting height	mm	3,905	3,905
	Max. operating height	mm	4,895	4,895
	Reach at loading position	mm	1,080	1,080
max.	Max. reach	mm	1,710	1,710
min.	Reach at max. lifting height	mm	715	715
ì	Fork length	mm	1,500	1,500
	Length – basic machine	mm	7,570	7,570
	Tipping load, straight*	kg	10,940	12,200
	Tipping load, fully articulated*	kg	9,630	10,700
	Recommended payload for uneven ground = 60% of tipping load, articulated 1)	ka	E 700	6.420
		kg	5,780	6,420
	Recommended payload for smooth surfaces		7.740	0.500
	= 80 % of tipping load, articulated 1)	kg	7,710	8,560
	Operating weight*	kg	18,500	19,480
	Tyre size		23.5R25 L3	23.5R25 L3

<sup>\*\*</sup>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)

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

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

# Attachment Log Grapple



# Log Grapple

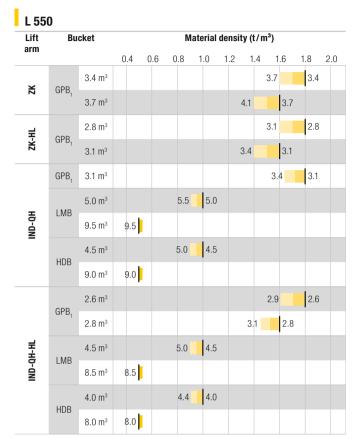


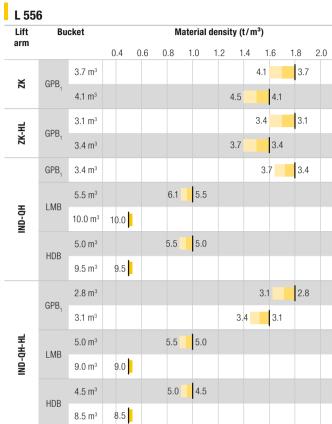
		L 550	L 556
	Geometry	IND-QH	IND-QH
A20	Discharge height at 20° mi	<b>n</b> 3,420	3,350
A45	Discharge height at 45° mi	<b>n</b> 2,940	2,770
В	Manipulation height mi	<b>n</b> 4,550	4,655
C	Max. grapple opening in loading position mi	<b>n</b> 2,395	2,740
C1	Max. grapple opening mi	<b>n</b> 2,590	2,990
E	Max. height mi	<b>n</b> 6,350	6,650
F20	Reach at max. lifting height at 20° discharge mi	<b>n</b> 1,590	1,810
F45	Reach at max. lifting height at 45° discharge mi	<b>n</b> 1,160	1,330
F max.	Max. reach mi	<b>n</b> 2,590	2,810
Н	Height above operator's cab mi	<b>n</b> 3,395	3,395
I	Height above exhaust mi	<b>n</b> 3,045	3,045
J	Ground clearance mi	<b>n</b> 490	490
K	Wheelbase mi	<b>n</b> 3,500	3,500
L	Overall length mi	<b>n</b> 8,800	9,080
	Width over tyres mi	<b>n</b> 2,650	2,650
Q	Grapple diameter n	1.8	2.4
	Grapple width mi	<b>n</b> 1,600	1,600
	Payload* k	<b>g</b> 6,300	6,400
	Operating weight*	<b>g</b> 20,000	21,000
	Tyre size	23.5R25 L4	23.5R25 L4

<sup>\*</sup> 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**





# **Bucket Filling Factor**



# Lift Arm

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

# Bucket

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

## Bulk Material Densities and Bucket Filling Factors

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

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

			t/m³	%
Glass wa	ste	broken	1.4	100
		solid	1.0	100
Compost		dry	8.0	105
		wet	1.0	110
Wood chi	ps/Saw	dust	0.5	110
Paper		shredded/loose	0.6	110
		recovered paper/cardboard	1.0	110
Coal		heavy material density	1.2	110
		light material density	0.9	110
Waste		domestic waste	0.5	100
		bulky waste	1.0	100

# Tyres

# Tyre Types

	Size		Change of	Width	Change in vertical	Use
	and tread code		operating weight kg	over tyres mm	dimensions* mm	
L 550 XPowe	er®/L 556 XPower®		9			
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	332	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)

<sup>\*</sup> 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.

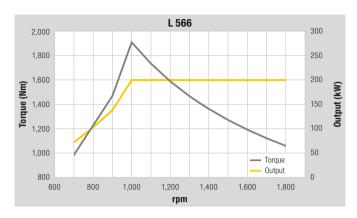
# **Technical Data**

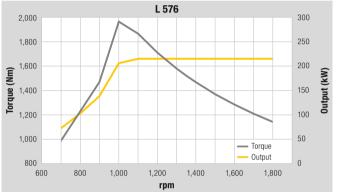
# Motor

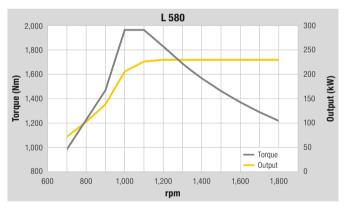
		L 566	L 576	L 580	L 586					
Diesel engine		D936 A7	D936 A7	D936 A7	D936 A7					
Design		Water-coc	Water-cooled in-series engine with charge-air							
		cooling								
Cylinder inline		6	6	6	6					
Fuel injection proce	SS	Electronic	Common R	ail high-pres	sure injection					
Output										
to ISO 9249/		200/272	215/292	230/313	260/354					
ECE-R.24	at RPM	1,800	1,800	1,800	1,800					
Rated output to ISO 14396/										
ECE-R.120	kW/HP	203/276	218/296	233/317	263/358					
Nominal speed	at RPM	1,800	1,800	1,800	1,800					
Max. torque										
to ISO 14396/		1,914	1,969	1,969	1,969					
ECE-R.120	at RPM	1,000	1,000	1,000	1,000					
		10.52	10.52 122/150	10.52	10.52					
Bore/Stroke		122/150	122/150	0 122/150						
Stage IV – availab										
Harmful emissions	values	According to regulation ECE-R.96 Power Band C								
Emission control		Liebherr-SCR technology								
Fuel tank	litres	365	365	365	500					
Stage V										
Harmful emissions	values	According to regulation (EU) 2016/1628								
Emission control		Liebherr-S particle filt	CR technologier system	ogy and clos	ed diesel					
Fuel tank	litres	365	365	365	500					
DEF tank	litres	67.5	67.5	67.5	67.5					
Air cleaner syster	n	Dry type fi	Iter with mai	n and safety	element,					
		pre-cleaner, service indicator on the Liebherr display								
Electrical system										
Operating voltage		24	24	24	24					
Capacity		2 x 180	2 x 180	2 x 180	2 x 180					
Alternator		28/180	28/180	28/180	28/180					
Starter	V/kW	24/7.8	24/7.8	24/7.8	24/7.8					

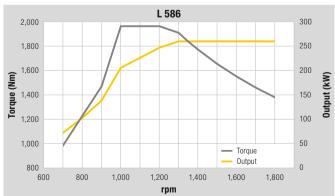
# Driveline

Continuous power spli	t XPower® driveline
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
Travel speed range	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				
Four-wheel drive									
Front axle		Fixed							
Rear axle		Centre p	ivot, with 13	° oscillating a	angle to each				
Height of obstacles w	hich								
can be driven over	mm	492	473	473	523				
		with all four wheels remaining in contact with							
		the ground							
Differentials		Automat	ic limited-sli	p differentials	3				
Reduction gear		Planetar	y final drive	in wheel hub	S				
Track width		2,230 m	m with all ty	pes of tyres (	L 566, L 576,				
		L 580)	-						
		2,440 m	m with all ty	pes of tyres (	L 586)				

Prokon
Brakes

Wear-free service brake	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)
Parking brake	Electro-hydraulically actuated spring-loaded disc brake system on the transmission
Parking brake	, , , ,

The braking system meets the requirements of the ISO 3450.

# Steering

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

# Attachment Hydraulics

M Attachine	ні пус	liaulic	5		
		L 566	L 576	L 580	L 586
Design		pump w	0	d flow contro	variable flow ol, and pressure
Cooling		,	c oil cooling ed fan and oi	0	ostatically
Filtration		Return li	ne filter in th	e hydraulic r	eservoir
Control		Liebher	r control leve d	r, electro-hy	rdraulically
Lifting function		Automa: Liebherr	neutral, lower tic lift arm po control leve sition contro	sition and lo	0 ,
Tilt function		Automa	k, neutral, du tic bucket ret g controlled b	turn for tilting	•
Max. flow	l/min.	290	290	320	410
Max. pressure					
Z-bar linkage	bar	350	380	380	350
Industrial lift arm	bar	380		380	



	L 566	;	L 576	L 580	)	L 586
Geometry variants						
Optional		rful Z-ba cross-tu	_	e with til	t cylinde	r and ca
		trial lift a as stanc				aulic qui
Bearings	Seale	d				
Cycle time at						
nominal load	ZK	IND	ZK	ZK	IND	ZK
Lifting	s 6.1	6.1	6.1	6.2	6.2	6.4
Dumping	s 1.2	2.0	1.2	1.4	2.2	1.5
Lowering (empty)	s 3.2	3.2	3.2	3.4	3.4	3.6

Operator's Ca	b
Design	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 singlepane safety glass ESG, heated rear window ESG, all windows are tinted. 3 way continuous adjustable steering column
Liebherr operator's seat	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
Cab heating and ventilation	4-zone air conditioning with new improved cooling output as standard, electrically heated rear window, all filters are easy to access and

# Sound Level

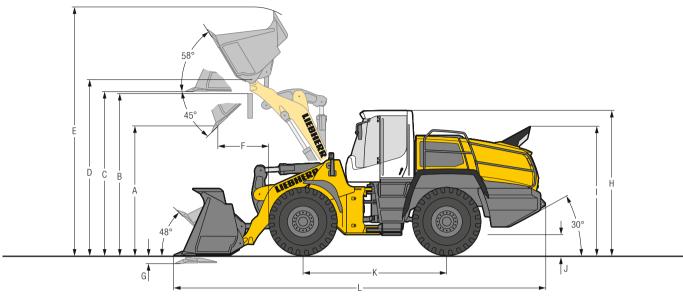
	L 566	L 576	L 580	L 586
Sound pressure leve to ISO 6396	el			
L <sub>pA</sub> (inside cab)	dB(A) 68	68	68	68
Sound power level to 2000/14/EC				
L <sub>WA</sub> (surround noise)	dB(A) 105	105	105	107

# Capacities

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

# **Dimensions**

# **Z-bar Linkage**



Country		_oading Bucket		ı					ı				
Cutting fools				L 5	566	L	576		L 580			L 586	
Lift am length Bucket capacity according to ISO 7546**  m³ 4.2 4.7 4.7 5.2 5.2 5.7 5.7" 6.0 6.5 5.5  Specific material density t/m³ 1.8 1.6 1.8 1.6 1.8 1.6 1.7 1.8 1.6 1.8  Bucket width mm 3,000 3,000 3,000 3,000 3,000 3,000 3,300 3,300 3,300 3,403 3,650 3,400  A Dumping height at max. lift height and 45° discharge mm 3,205 3,130 3,355 3,285 3,285 3,220 3,220 3,260 3,260 3,290  B Dump-over height mm 4,050 4,050 4,270 4,270 4,270 4,270 4,270 4,270 4,330 4,330 4,300  D Max. height of bucket pivot point mm 4,360 4,360 4,580 4,580 4,580 4,580 4,580 4,680 4,680 4,680 4,680 4,680 4,680 4,680 4,680 4,680 4,680 4,580 4,580 4,680 4,580 4,680 4		Geometry		ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK
Bucket capacity according to ISO 7546**   m³   4.2   4.7   4.7   5.2   5.2   5.7   5.7   6.0   6.5   5.5		Cutting tools		T	T	T	T	T	T	BOCE	T	T	ROB
Specific material density   t/m³   1.8   1.6   1.8   1.6   1.8   1.6   1.8   1.6   1.7   1.8   1.6   1.5   1.40   1.5   1.40   1.4   1.5   1.40   1.5   1.40   1.4   1.5   1.40   1.4   1.5   1.45   1.		Lift arm length	mm	2,920	2,920	3,050	3,050	3,050	3,050	3,050	3,150	3,150	3,150
Bucket width		Bucket capacity according to ISO 7546**	$m^3$	4.2	4.7	4.7	5.2	5.2	5.7	5.71)	6.0	6.5	5.5
A Dumping height at max. lift height and 45° discharge         mm         3,205         3,130         3,355         3,285         3,220         3,220         3,260         3,260         3,290           B Dump-over height         mm         3,900         3,900         4,100         4,100         4,100         4,100         4,150         4,270         4,270         4,270         4,270         4,270         4,270         4,270         4,270         4,270         4,270         4,270		Specific material density	t/m³	1.8	1.6	1.8	1.6	1.8	1.6	1.7	1.8	1.6	1.8
B Dump-over height         mm         3,900         3,900         4,100         4,100         4,100         4,100         4,100         4,100         4,100         4,100         4,100         4,100         4,100         4,100         4,100         4,150         4,150         4,150            C Max. height of bucket pivot point         mm         4,360         4,380         4,580         4,580         4,580         4,580         4,580         4,680         4,640         4,640         4,660           E Max. operating height         mm         6,120         6,220         6,440         6,540         6,500         0,000         0.000         0.000 <th< th=""><th></th><th>Bucket width</th><th>mm</th><th>3,000</th><th>3,000</th><th>3,000</th><th>3,000</th><th>3,000</th><th>3,300</th><th>3,300</th><th>3,430</th><th>3,650</th><th>3,400</th></th<>		Bucket width	mm	3,000	3,000	3,000	3,000	3,000	3,300	3,300	3,430	3,650	3,400
C         Max. height of bucket bottom         mm         4,050         4,050         4,050         4,270         4,270         4,270         4,270         4,270         4,330         4,330         4,300           D         Max. height of bucket pivot point         mm         4,360         4,360         4,580         4,580         4,580         4,580         4,640         4,640         4,660           E         Max. operating height         mm         6,120         6,220         6,440         6,540         6,500         6,500         6,530         6,530         6,450           F         Reach at max. lift height and 45° discharge         mm         1,190         1,270         1,135         1,205         1,285         1,285         1,430         1,430         1,390           G         Digging depth         mm         100 <td< th=""><th>Α</th><th>Dumping height at max. lift height and 45° discharge</th><th>mm</th><th>3,205</th><th>3,130</th><th>3,355</th><th>3,285</th><th>3,285</th><th>3,220</th><th>3,220</th><th>3,260</th><th>3,260</th><th>3,290</th></td<>	Α	Dumping height at max. lift height and 45° discharge	mm	3,205	3,130	3,355	3,285	3,285	3,220	3,220	3,260	3,260	3,290
D         Max. height of bucket pivot point         mm         4,360         4,360         4,580         4,580         4,580         4,580         4,580         4,640         4,640         4,660           E         Max. operating height         mm         6,120         6,220         6,440         6,540         6,540         6,500         6,500         6,530         6,530         6,450           F         Reach at max. lift height and 45° discharge         mm         1,190         1,270         1,135         1,205         1,205         1,285         1,285         1,430         1,430         1,390           G         Digging depth         mm         100	В	Dump-over height	mm	3,900	3,900	4,100	4,100	4,100	4,100	4,100	4,150	4,150	4,150
E         Max. operating height         mm         6,120         6,220         6,440         6,540         6,540         6,500         6,500         6,530         6,530         6,450           F         Reach at max. lift height and 45° discharge         mm         1,190         1,270         1,135         1,205         1,205         1,285         1,285         1,430         1,430         1,390           G         Digging depth         mm         100	C	Max. height of bucket bottom	mm	4,050	4,050	4,270	4,270	4,270	4,270	4,270	4,330	4,330	4,300
F         Reach at max. lift height and 45° discharge         mm         1,190         1,270         1,135         1,205         1,205         1,285         1,285         1,430         1,430         1,390           G         Digging depth         mm         100         140           Height above exhaust         mm         3,590         3,590         3,590         3,590         3,590         3,590         3,5	D	Max. height of bucket pivot point	mm	4,360	4,360	4,580	4,580	4,580	4,580	4,580	4,640	4,640	4,660
G         Digging depth         mm         100         140           H Height above operator's cab         mm         3,590         3,590         3,590         3,590         3,590         3,590         3,590         3,590         3,590         3,500         3,600         3,20	E	Max. operating height	mm	6,120	6,220	6,440	6,540	6,540	6,500	6,500	6,530	6,530	6,450
H         Height above operator's cab         mm         3,590         3,590         3,590         3,590         3,590         3,590         3,590         3,590         3,590         3,590         3,590         3,590         3,740         3,740         3,760           I         Height above exhaust         mm         3,200         3,2	F	Reach at max. lift height and 45° discharge	mm	1,190	1,270	1,135	1,205	1,205	1,285	1,285	1,430	1,430	1,390
Height above exhaust	G	Digging depth	mm	100	100	100	100	100	100	100	100	100	140
J         Ground clearance         mm         535         535         540         540         465         465         465         575         575         595           K         Wheelbase         mm         3,560         3,600         3,600         3,630         3,710         3,710         3,710         3,900         3,900         3,900           L         Overall length         mm         9,165         9,275         9,445         9,545         9,620         9,720         9,800         9,980         9,990           Turning circle radius over tyres         mm         6,690         6,690         6,780         6,780         6,885         6,885         6,885         7,485         7,545           Turning circle radius over outside bucket edge         mm         7,340         7,370         7,500         7,530         7,615         7,780         7,780         8,350         8,400         8,300           Breakout force (SAE)         kN         200         190         205         20         20         24,000         245           Tipping load, straight*         kg         18,150         17,900         20,100         19,900         21,750         21,250         22,200         24,500         23	Н	Height above operator's cab	mm	3,590	3,590	3,590	3,590	3,590	3,590	3,590	3,740	3,740	3,760
K         Wheelbase         mm         3,560         3,560         3,630         3,630         3,710         3,710         3,900         3,	1	Height above exhaust	mm	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,300	3,300	3,320
L         Overall length Turning circle radius over tyres         mm         9,165         9,275         9,445         9,545         9,620         9,720         9,720         9,980         9,980         9,990           Turning circle radius over tyres         mm         6,690         6,690         6,780         6,885         6,885         6,885         7,485         7,485         7,545           Turning circle radius over outside bucket edge         mm         7,340         7,500         7,500         7,530         7,615         7,780         7,780         8,350         8,400         8,300           Breakout force (SAE)         kN         200         190         20         19         22.5         20         24         24         245           Tipping load, straight*         kg         18,500         17,600         17,600         17,500         21,750         21,250         22,200         24,500         23,900         25,600           Tipping load, fully articulated*         kg         15,650         17,600         17,400         19,200         18,700         21,600         21,000         22,500           Operating weight*         kg         23,900         24,000         25,700         25,800         27,650         27,	J	Ground clearance	mm	535	535	540	540	465	465	465	575	575	595
Turning circle radius over tyres         mm         6,690         6,690         6,780         6,780         6,885         6,885         6,885         7,485         7,485         7,545           Turning circle radius over outside bucket edge         mm         7,340         7,370         7,500         7,530         7,615         7,780         7,780         8,350         8,400         8,300           Breakout force (SAE)         kN         200         190         20         190         225         205         200         240         240         245           Tipping load, straight*         kg         18,150         17,900         20,100         19,900         21,750         21,250         22,200         24,500         23,900         25,600           Tipping load, fully articulated*         kg         15,900         15,650         17,600         17,400         19,200         18,700         19,500         21,600         21,000         22,500           Operating weight*         kg         23,900         24,000         25,700         25,800         27,650         27,800         28,800         32,600         33,050         33,700	K	Wheelbase	mm	3,560	3,560	3,630	3,630	3,710	3,710	3,710	3,900	3,900	3,900
Turning circle radius over outside bucket edge         mm         7,340         7,370         7,500         7,530         7,615         7,780         7,780         8,350         8,400         8,300           Breakout force (SAE)         kN         200         190         200         190         225         205         200         240         245           Tipping load, straight*         kg         18,150         17,900         20,100         19,900         21,750         21,250         22,200         24,500         23,900         25,600           Tipping load, fully articulated*         kg         15,900         15,650         17,600         17,400         19,200         18,700         19,500         21,600         21,000         22,500           Operating weight*         kg         23,900         24,000         25,700         25,800         27,650         27,800         28,800         32,600         33,050         33,700	L	Overall length	mm	9,165	9,275	9,445	9,545	9,620	9,720	9,720	9,980	9,980	9,990
Breakout force (SAE)         kN         200         190         200         190         225         205         200         240         245           Tipping load, straight*         kg         18,150         17,900         20,100         19,900         21,750         21,250         22,200         24,500         23,900         25,600           Tipping load, fully articulated*         kg         15,900         15,650         17,600         17,400         19,200         18,700         19,500         21,600         21,000         22,500           Operating weight*         kg         23,900         24,000         25,700         25,800         27,650         27,800         28,800         32,600         33,050         33,700		Turning circle radius over tyres	mm	6,690	6,690	6,780	6,780	6,885	6,885	6,885	7,485	7,485	7,545
Tipping load, straight*         kg         18,150         17,900         20,100         19,900         21,750         21,250         22,200         24,500         23,900         25,600           Tipping load, fully articulated*         kg         15,900         15,650         17,600         17,400         19,200         18,700         19,500         21,600         21,000         22,500           Operating weight*         kg         23,900         24,000         25,700         25,800         27,650         27,800         28,800         32,600         33,050         33,700		Turning circle radius over outside bucket edge	mm	7,340	7,370	7,500	7,530	7,615	7,780	7,780	8,350	8,400	8,300
Tipping load, fully articulated*         kg         15,900         15,650         17,600         17,400         19,200         18,700         19,500         21,600         21,000         22,500           Operating weight*         kg         23,900         24,000         25,700         25,800         27,650         27,800         28,800         32,600         33,050         33,700		Breakout force (SAE)	kN	200		200		225				240	
Operating weight*         kg         23,900         24,000         25,700         25,800         27,650         27,800         28,800         32,600         33,050         33,700		Tipping load, straight*	kg	18,150	17,900	20,100	19,900	21,750	21,250	22,200	24,500	23,900	25,600
		Tipping load, fully articulated*	kg	15,900	15,650	17,600	17,400	19,200	18,700	19,500	21,600	21,000	22,500
Tyre size         26.5R25 L3         26.5R25 L3         26.5R25 L3         29.5R25 L3         29.5R25 L3         29.5R25 L3		Operating weight*	kg	23,900	24,000	25,700	25,800	27,650	27,800	28,800	32,600	33,050	33,700
		Tyre size		26.5F	R25 L3	26.5F	R25 L3		26.5R25 L3		29.5F	R25 L3	29.5R25 L5

<sup>\*</sup> 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)

= 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

= Welded-on tooth holder with add-on teeth

BOCE = Bolt-on cutting edge

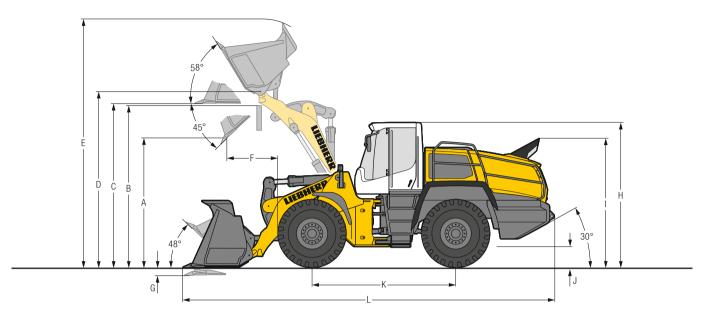
= Rock bucket with delta cutting edge, welded-on tooth holder with add-on teeth and bolted intermediate sections

<sup>\*\*</sup> 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.

# **Dimensions**

## **Z-bar Linkage High Lift**



ı	Loading Bucket				1							
			L 5	566	L t	576		L 580			L 586	
	Geometry		ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK
	Cutting tools		T	T	T	T	T	T	BOCE	T	T	ROB
	Lift arm length	mm	3,250	3,250	3,250	3,250	3,250	3,250	3,250	3,450	3,450	3,450
	Bucket capacity according to ISO 7546**	m³	3.7	4.2	4.2	4.7	4.7	5.2	5.21)	5.5	6.0	5.0
	Specific material density	t/m³	1.8	1.6	1.8	1.6	1.8	1.6	1.7	1.8	1.6	1.8
	Bucket width	mm	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,400	3,400	3,400
Α	Dumping height at max. lift height and 45° discharge	mm	3,720	3,650	3,650	3,575	3,560	3,490	3,425	3,725	3,670	3,745
В	Dump-over height	mm	4,300	4,300	4,300	4,300	4,300	4,300	4,300	4,500	4,500	4,500
C	Max. height of bucket bottom	mm	4,470	4,470	4,470	4,470	4,470	4,470	4,470	4,750	4,750	4,770
D	Max. height of bucket pivot point	mm	4,780	4,780	4,780	4,780	4,780	4,780	4,780	5,060	5,060	5,080
E	Max. operating height	mm	6,460	6,555	6,555	6,650	6,650	6,740	6,700	6,950	6,980	6,800
F	Reach at max. lift height and 45° discharge	mm	1,130	1,200	1,130	1,215	1,190	1,265	1,340	1,370	1,410	1,370
G	Digging depth	mm	140	140	140	140	140	140	140	100	100	140
Н	Height above operator's cab	mm	3,590	3,590	3,590	3,590	3,590	3,590	3,590	3,740	3,740	3,760
1	Height above exhaust	mm	3,200	3,200	3,200	3,200	3,200	3,200	3,200	3,300	3,300	3,320
J	Ground clearance	mm	535	535	540	540	465	465	465	575	575	575
K	Wheelbase	mm	3,560	3,560	3,630	3,630	3,710	3,710	3,710	3,900	3,900	3,900
L	Overall length	mm	9,500	9,590	9,590	9,700	9,770	9,870	9,970	10,250	10,280	10,300
	Turning circle radius over tyres	mm	6,690	6,690	6,780	6,780	6,885	6,885	6,885	7,485	7,485	7,545
	Turning circle radius over outside bucket edge	mm	7,480	7,510	7,560	7,590	7,680	7,710	7,740	8,500	8,550	8,450
	Breakout force (SAE)	kN	210	200	210	200	240	225	225	250	240	260
	Tipping load, straight*	kg	15,850	15,650	18,650	18,550	20,200	20,000	20,600	22,400	21,700	22,700
	Tipping load, fully articulated*	kg	13,850	13,650	16,350	16,250	17,800	17,600	18,200	19,700	19,000	20,000
	Operating weight*	kg	24,000	24,100	25,650	25,750	27,650	27,750	28,600	32,600	33,000	33,900
	Tyre size		26.5F	R25 L3	26.5F	R25 L3		26.5R25 L3		29.5F	R25 L3	29.5R25 L5

<sup>\*</sup> 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)

= 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

= Welded-on tooth holder with add-on teeth

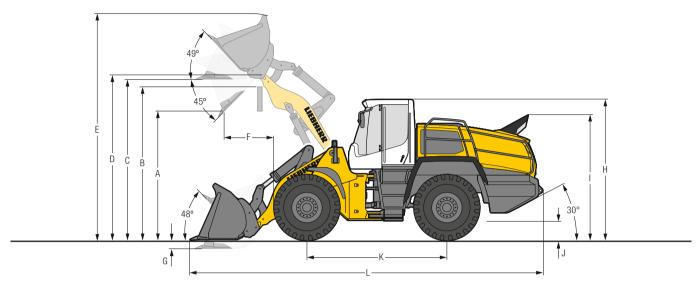
BOCE = Bolt-on cutting edge

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

<sup>\*\*</sup> 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.

# **Dimensions Industrial Lift Arm**



# Excavation Bucket



		L	566	L 5	80
Geometry		IND-QH	IND-QH	IND-QH	IND-QH
Cutting tools		T	T	T	T
Lift arm length	mm	2,900	2,900	2,900	2,900
Bucket capacity according to ISO 7546 **	m³	3.5	4.0	4.5	5.0
Specific material density	t/m³	1.8	1.6	1.8	1.6
Bucket width	mm	3,000	3,000	3,000	3,000
Dumping height at max. lift height and 45° discharge	mm	3,210	3,140	3,070	3,000
Dump-over height	mm	3,900	3,900	3,900	3,900
Max. height of bucket bottom	mm	4,145	4,145	4,145	4,145
Max. height of bucket pivot point	mm	4,490	4,490	4,490	4,490
Max. operating height	mm	6,045	6,165	6,265	6,330
Reach at max. lift height and 45° discharge	mm	1,270	1,340	1,290	1,230
Digging depth	mm	100	100	100	100
Height above operator's cab	mm	3,590	3,590	3,590	3,590
Height above exhaust	mm	3,200	3,200	3,200	3,200
Ground clearance	mm	535	535	465	465
Wheelbase	mm	3,630	3,630	3,710	3,710
Overall length	mm	9,270	9,370	9,545	9,650
Turning circle radius over tyres	mm	6,780	6,780	6,885	6,885
Turning circle radius over outside bucket edge	mm	7,410	7,440	7,560	7,590
Breakout force (SAE)	kN	200	185	200	185
Tipping load, straight*	kg	17,100	16,650	20,150	19,700
Tipping load, fully articulated*	kg	15,000	14,550	17,750	17,300
Operating weight*	kg	24,800	24,950	28,050	28,200
Tyre size		26.5	R25 L3	26.5R2	25 L3

<sup>\*</sup> 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

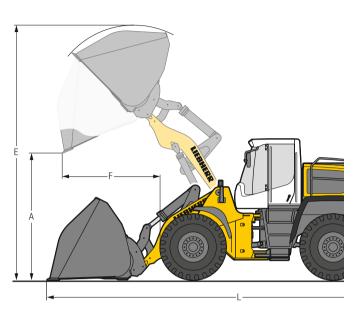
$$\begin{split} \text{IND-QH} &= \text{Industrial lift arm with parallel guidance incl. quick hitch} \\ \text{T} &= \text{Welded-on tooth holder with add-on teeth} \end{split}$$

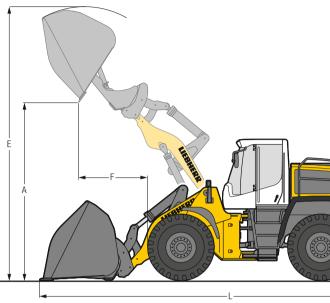
load. (Tipping load, fully articulated according to ISO 14397-1)

\*\* 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.

# Attachment

# Light Material Bucket and High-Dump Bucket





Light Material Bucket		I		1	10		
			L!	566	L 5	80	L 586
	Geometry		IND-QH	IND-QH	IND-QH	IND-QH	ZK
	Cutting tools		BOCE	BOCE	BOCE	BOCE	BOCE
	Bucket capacity	m <sup>3</sup>	6.5	12.0	7.5	14.0	8.5
	Specific material density	t/m³	1.0	0.45	1.0	0.45	1.1
	Bucket width	mm	3,200	3,700	3,400	4,000	3,500
Α	Dumping height at max. lift height	mm	2,885	2,620	2,810	2,480	2,940
E	Max. operating height	mm	6,470	6,700	6,580	6,800	6,835
F	Reach at maximum lift height	mm	1,485	1,860	1,550	1,950	1,770
L	Overall length	mm	9,545	10,025	9,715	10,200	10,200
	Tipping load, straight*	kg	15,700	14,600	19,300	17,900	24,000
	Tipping load, fully articulated*	kg	13,700	12,600	16,900	15,500	21,000
	Operating weight*	kg	25,350	26,300	28,650	29,600	32,800
	Tyre size		26.5F	R25 L3	26.5R	25 L3	29.5R25 L3

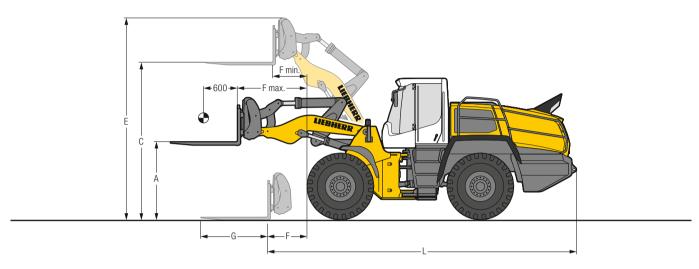
High-Dump Bucket				D		
		L :	566	L 5	80	L 586
Geometry		IND-QH	IND-QH	IND-QH	IND-QH	ZK
Cutting tools		BOCE	BOCE	BOCE	BOCE	BOCE
Bucket capacity	m³	6.0	11.0	7.0	13.0	8.5
Specific material density	t/m³	1.0	0.45	1.0	0.45	1.0
Bucket width	mm	3,200	3,700	3,200	4,000	3,500
A Dumping height at max. lift height	mm	5,130	4,840	4,970	4,780	5,100
E Max. operating height	mm	7,215	7,490	7,420	7,650	7,700
F Reach at maximum lift height	mm	1,780	2,140	2,040	2,060	2,000
L Overall length	mm	9,815	10,125	10,060	10,300	10,500
Tipping load, straight*	kg	14,700	14,100	17,800	17,100	23,200
Tipping load, fully articulated*	kg	12,700	12,100	15,500	14,800	20,300
Operating weight*	kg	26,000	26,900	29,100	30,100	33,500
Tyre size		26.5F	R25 L3	26.5R	25 L3	29.5R25 L3

<sup>\*</sup> 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)

 $\label{eq:ND-QH} \mbox{IND-QH} = \mbox{Industrial lift arm with parallel guidance incl. quick hitch}$ 

ZK = Z-bar linkage BOCE = Bolt-on cutting edge

# Attachment **Fork Carrier and Fork**



# FEM IV Fork Carrier and Fork



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

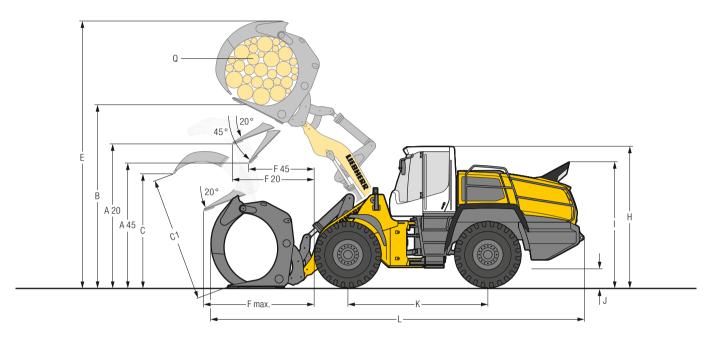
<sup>\*</sup> The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tyres and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

1) According to EN 474-3

2) Payload is limited by FEM IV fork carrier and forks

 $\label{eq:inductive} \mbox{IND-QH} = \mbox{Industrial lift arm with parallel guidance incl. quick hitch}$ 

# Attachment Log Grapple



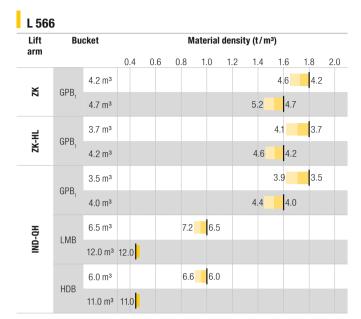
# Log Grapple

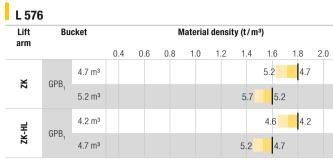


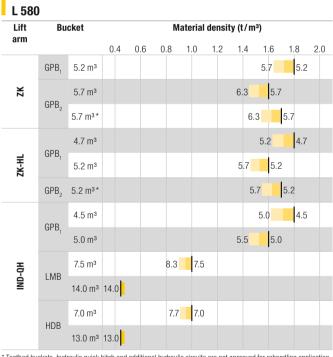
		L 566	L 580
	Geometry	IND-QH	IND-QH
A20	Discharge height at 20° mm	3,570	3,520
A45	Discharge height at 45° mm	2,930	2,805
В	Manipulation height mm	5,125	5,125
C	Max. grapple opening in loading position mm	2,650	2,930
C1	Max. grapple opening mm	3,050	3,340
E	Max. height mm	7,400	7,500
F20	Reach at max. 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
Н	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

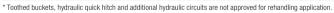
<sup>\*</sup> The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tyres and optional equipment will change the operating weight and payload. IND-QH = Industrial lift arm with parallel guidance incl. quick hitch

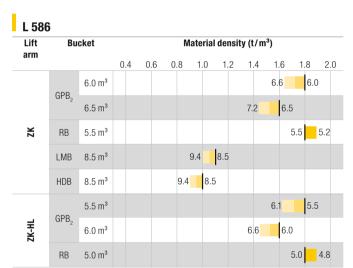
# **Bucket Selection**











# Bucket Filling Factor



# Lift Arm

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

# Bucket

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

# Bulk Material Densities and Bucket Filling Factors

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

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

		t/m³	%
Glass waste	broken	1.4	100
	solid	1.0	100
Compost	dry	8.0	105
	wet	1.0	110
Wood chips/Saw	dust	0.5	110
Paper	shredded/loose	0.6	110
	recovered paper/cardboard	1.0	110
Coal	heavy material density	1.2	110
	light material density	0.9	110
Waste	domestic waste	0.5	100
	bulky waste	1.0	100

# 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
ray luau = -	2
Dualist samultu	Pay load (t)
Bucket capacity = -	Specific bulk weight of material (t/m3)



	Size and tread code		Change of operating weight	Width over tyres	Change in vertical dimensions*	Use
			kg	mm	mm	
. 566 XPowe	er®					
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	197	3,070	- 39	Gravel, Industry, Wood (all ground conditions)
Continental	26.5R25 EM-Master	L3	100	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)
				2,990	63	
Goodyear	26.5R25 RL-5S	L5	1,460			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	152	3,100	- 26	Sand, Gravel, Industry, Wood (all ground conditions)
Michelin	26.5R25 XHA2	L3	0	2,960	0	Sand, Gravel (all ground conditions)
/lichelin	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	- 4	3,060	<b>–</b> 57	Gravel, Industry, Wood (all ground conditions)
576 XPowe	er®/L 580 XPower®					
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)
	26.5R25 VSDT	L5	1,038	2,970	50	Stone, Mining spoil (firm ground conditions)
Bridgestone						
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	178	3,070	- 39	Gravel, Industry, Wood (all ground conditions)
Continental	26.5R25 EM-Master	L3	100	2,980	41	Bulk material (firm ground conditions)
Continental	26.5R25 EM-Master	L4	528	2,980	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	132	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	- 24	3,060	- 57	Gravel, Industry, Wood (Illin ground conditions)
				, , , , ,		
. 586 XPowe		10	146	0.000	4-5	D. H. and A. M. Common and A. M. P.
Bridgestone	29.5R25 VJT	L3	146	3,260	15	Bulk material (firm ground conditions)
Bridgestone	29.5R25 VLTS	L4	406	3,270	40	Gravel, Stone (firm ground conditions)
Bridgestone	29.5R25 VSDT	L5	1,370	3,270	50	Stone, Mining spoil (firm ground conditions)
Bridgestone	29.5R25 VSDL	L5	1,730	3,270	60	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	29.5R25 VSNT	L4	712	3,270	50	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	504	3,280	40	Gravel, Industry, Wood (firm ground conditions)
Goodyear	29.5R25 TL-3A+	L3	532	3,290	36	Sand, Gravel, Earthworks, Clay (all ground conditions)
Goodyear	29.5R25 GP-4D	L4	504	3,260	24	Gravel, Industry, Wood (firm ground conditions)
Goodyear	29.5R25 RL-4K	L4	1,124	3,270	44	Gravel, Industry, Stone (firm ground conditions)
Goodyear	29.5R25 RL-5K	L5	1,600	3,310	66	Stone, Scrap, Recycling (firm ground conditions)
Goodyear	29.5R25 RT-5D	L5	1,508	3,300	56	Stone, Mining spoil (firm ground conditions)
Goodyear	29.5R25 RL-5S	L5	2,100	3,270	66	Scrap, Recycling, Slag (firm ground conditions)
Michelin	29.5R25 XHA2	L3	0	3,250	0	Sand, Gravel (all ground conditions)
Michelin	29.5R25 XLD D2A	L5 L4	936 606	3,260 3,280	26 26	Stone, Mining spoil (firm ground conditions) Gravel, Industry, Wood (firm ground conditions)
Michelin	29.5R25 XTXL					

<sup>\*</sup> 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

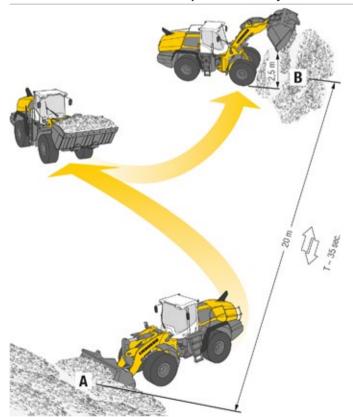
Wheel Loader						
		L 506 Compact	L 507 Stereo	L 508 Compact	L 509 Stereo	L 514 Stereo
Tipping load	kg	3,450	3,750	3,850	4,430	5,750
Bucket capacity	m³	0.8	0.9	1.0	1.2	1.5
Operating weight	kg	5,180	5,550	5,600	6,390	8,860
Engine output	kW/HP	46/63	50/68	50/68	54/73	76/103

Wheel Loader						
		L 518 Stereo	L 526	L 538	L 546	L 550 XPower®
Tipping load	kg	6,550	8,000	9,500	10,500	12,500
Bucket capacity	m³	1.7	2.1	2.6	2.8	3.4
Operating weight	kg	9,190	11,770	13,500	14,200	18,550
Engine output	kW/HP	76/103	100/136	123/167	138/188	163/222

Wheel Loader						
		L 556 XPower®	L 566 XPower®	L 576 XPower®	L 580 XPower®	L 586 XPower®
Tipping load	kg	13,750	15,900	17,600	19,200	21,600
Bucket capacity	m <sup>3</sup>	3.7	4.2	4.7	5.2	6.0
Operating weight	kg	19,600	23,900	25,700	27,650	32,600
Engine output	kW/HP	183/249	203/276	218/296	233/317	263/358

01.21

## 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:

400		Consumption	
Number of loading cycles	=	per hour	

Values for the Li	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	6.2									
L 538: 2.6 m <sup>3</sup>	n = 40	2.7	10.0	6.9									
L 546: 2.8 m <sup>3</sup>	n = 38	2.6	10.5	7.0									
L 550: 3.4 m <sup>3</sup>	n = 32	2.6	12.5	9.1									
L 556: 3.7 m <sup>3</sup>	n = 29	2.6	13.8	9.9									
L 566: 4.2 m <sup>3</sup>	n = 22	3.0	18.2	12.1									
L 576: 4.7 m <sup>3</sup>	n = 21	2.8	19.1	12.7									
L 580: 5.2 m <sup>3</sup>	n = 20	2.7	20.0	13.9									
L 586: 6.0 m <sup>3</sup>	n = 15	3.1	26.7	16.5									

<sup>\*</sup> Wheel loader in practical customer applications with individual machine configurations. Average data from LiDAT from 25.01.2021.



Experience just how much fuel you can save!

www.efficiencyplus.liebherr.com

# Equipment

Basic Wheel Loader	L 550	L 556	7 29e	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 limitor 20 km/h as a factory preset	+	+	+	+	+	+
Speed limitor V <sub>MAX</sub> adjustable key on the control unit DFF 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 biodegredable 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	+	+	+	+	+	+

			-				
Equipment	. 550	. 556	. 566	. 576	. 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 guick hitch	+	+	+	+	+	+	
Hydraulic quick hitch LIKUFIX (for industrial lift arm)	+	+	+	_	+	_	
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	•	•	•	•	•	•	
1st electro-hydraulic, proportional additional function,							
adjustable delivery flow	+	+	+	+	+	+	
1st additional electro-hydraulic function for continuous							
sweeper and snow blower operation	+	+	+	+	+	+	
2nd electro-hydraulic, proportional additional function,							
adjustable delivery flow	+	+	+	+	+	-	
2nd additional electro-hydraulic function for continuous							
sweeper and snow blower operation	+	+	+	+	+	_	

Operator's Cab	L 550	T 226	T 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						
1st and 2nd electro-hydraulic, proportional additional						
function 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)	+	+	+	+	+	+

Operator's Cab	L 550	L 556	T 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 rear, sixfold, 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	+	+	+	+	+	+
Roof camera for front area monitoring						
with Liebherr camera via Liebherr display)	+	+	+	+	+	+
country-specific versions	+	+	+	+	+	+
mergency steering system	•	•	•	•	•	•
eversing 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:



• = Standard + = Option - = not available

Here you can download our wheel loader brochures:



# Printed in Germany by DHW RG-BK LBH/PM-12272715-1-02.21\_enGB All illustrations and data may differ from standard equipment. Subject to change without notice.

# 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 48,000 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