

# Product Information Wheel Loader

## L 586

**xpower**<sup>®</sup>

### Generation

6

### Tipping Load

21,600 kg

### Engine

Stage IIIA (compliant) – only for select markets



# LIEBHERR



reddot award 2016  
winner

### L 586 XPower®

**Tipping Load, Articulated** 21,600 kg

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

**Operating Weight** 32,600 kg

**Engine Output** 260 kW/354 HP



## **Performance**

The Liebherr-XPowerr 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, XPowerr® 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. Additionally 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. XPowerr® stands for maximum efficiency.

## **Economy**

The Liebherr-XPowerr driveline accelerates quickly, allowing high travel speeds. Time savings can be made on flat terrain, as well as on inclines. At the same time, the innovative driveline with Liebherr-Power-Efficiency (LPE) achieves a reduction in fuel consumption of up to 30%. In addition there is minimal tyre wear and hardly any brake wear. At maximum handling capacity and efficiency, this reduces operating costs significantly, further increasing profitability.

## **Reliability**

Liebherr wheel loaders provide maximum performance even under the toughest of operating conditions. The components of the Liebherr-XPowerr 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. XPowerr® ensures a long life time of the machine and reliability in use.

## **Comfort**

The modern, ergonomic cab design provides the operator with maximum comfort enabling him to concentrate on accurate operation without fatigue, which once again means more efficiency and productivity. The Liebherr control lever, which is built into the operator's seat as standard, allows precise and sensitive control of the machine. The electro-hydraulic system allows the operator to programme the lift arm and bucket positions from the cab. The generous glass surfaces of the cab provide excellent all-round visibility. Moreover, the design of the engine hood which has been optimised for viewing and the rear area monitoring camera as standard, ensure perfect visibility. Maximum safety for people, the machine and the load is guaranteed, while increasing productivity at the same time.

## **Maintainability**

The most important points for daily maintenance can be seen at a glance in the access area of the Liebherr-XPowerr wheel loader. 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. 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.

# Wheel Loader

## 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
- ✓ Powerful Z-bar linkage

### **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**

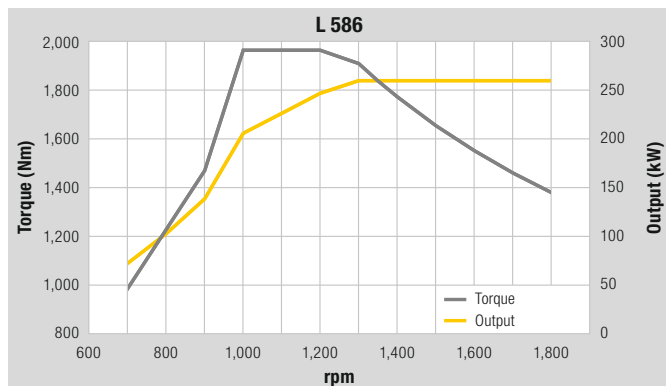
- + Time savings in daily maintenance
- + Short service times for more productivity
- ✓ Rapid control of the most important maintenance points in the access area
- ✓ Safe, simple and quick access to all points important for operations

# Technical Data



## Engine

<b>Diesel engine</b>	D936 A7
Design	Water-cooled in-series engine with charge-air cooling
Cylinder inline	6
Fuel injection process	Electronic Common Rail high-pressure injection
Rated output to ISO 9249/ ECE-R.24	kW/HP 260/354 at RPM 1,800
Max. output to ISO 14396/ ECE-R.120	kW/HP 263/358 at RPM 1,300 – 1,800
Max. torque to ISO 14396/ ECE-R.120	Nm 1,969 at RPM 1,000
Displacement	litres 10.52
Bore/Stroke	mm 122/150
<b>Stage IIIA (compliant) – available only in select markets</b>	
Harmful emissions values	According to regulation ECE-R.96 Power Band H
Fuel tank	litres 500
<b>Air cleaner system</b>	Dry type filter with main and safety element, pre-cleaner, service indicator on the Liebherr display
<b>Electrical system</b>	
Operating voltage	V 24
Capacity	Ah 2 x 180
Alternator	V/A 28/180
Starter	V/kW 24/7.8



## Driveline

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

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



## Brakes

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

The braking system meets the requirements of the ISO 3450.



## Steering

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



## Attachment Hydraulics

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



## Attachment

<b>Geometry</b>	Powerful Z-bar linkage with tilt cylinder and cast steel cross-tube
<b>Bearings</b>	Sealed
<b>Cycle time at nominal load</b>	ZK
Lifting	s 6.4
Dumping	s 1.5
Lowering (empty)	s 3.6



## Operator's Cab

<b>Design</b>	Hydraulically mounted, noise-proof cab ROPS roll over protection per EN ISO 3471 / EN 474-1 FOPS falling objects protection per EN ISO 3449 / EN 474-1, Cat. II Operator's door with sliding side window, sliding side window on right, front windscreen made of compound safety glass, side panels with single-pane safety glass ESG, heated rear window ESG, all windows are tinted. 3 way continuous adjustable steering column
<b>Liebherr operator's seat</b>	6 way adjustable, vibration-damped operator's seat "Comfort" with seat, depth and incline adjustment as standard (air-cushioned with seat heating adjustable to operator's weight), Liebherr control lever mounted into the operator's seat as standard
<b>Cab heating and ventilation</b>	4-zone air conditioning with new improved cooling output as standard, electrically heated rear window, all filters are easy to access and replaceable



## Sound Level

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

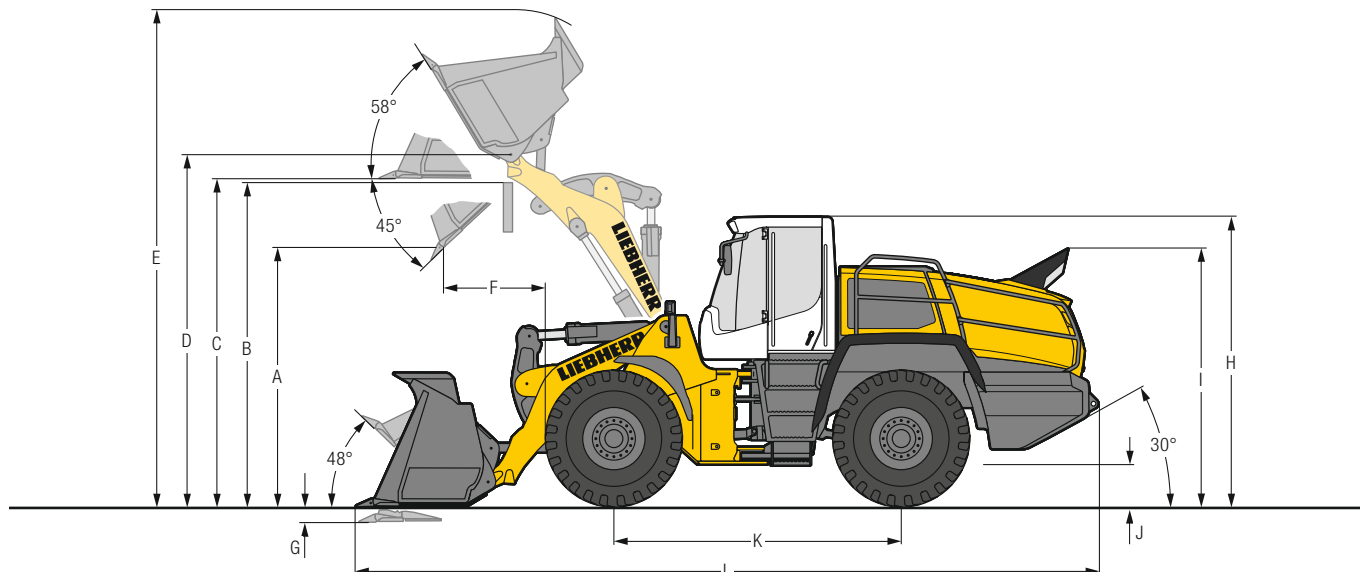


## Capacities

<b>Engine oil (inclusive filter change)</b>	l 42
<b>Pump distribution gearbox</b>	l 1.2
<b>XPower® gearbox</b>	l 55
<b>Coolant</b>	l 73
<b>Front axle</b>	l 60
<b>Rear axle</b>	l 60
<b>Hydraulic tank</b>	l 95
<b>Hydraulic system, total</b>	l 210
<b>Air conditioning system R134a</b>	g 1,250

# Dimensions

## Z-bar Linkage



### Loading Bucket

		STD	STD	HL	HL	STD	HL
		ZK	ZK	ZK	ZK	ZK	ZK
<b>Geometry</b>							
<b>Cutting tools</b>		T	T	T	T	ROB	ROB
<b>Lift arm length</b>	mm	3,150	3,150	3,450	3,450	3,150	3,450
<b>Bucket capacity according to ISO 7546**</b>	m <sup>3</sup>	6.0	6.5	5.5	6.0	5.5	5.0
<b>Specific material density</b>	t/m <sup>3</sup>	1.8	1.6	1.8	1.6	1.8	1.8
<b>Bucket width</b>	mm	3,430	3,650	3,400	3,400	3,400	3,400
<b>A Dumping height at max. lift height and 45° discharge</b>	mm	3,260	3,260	3,725	3,670	3,290	3,745
<b>B Dump-over height</b>	mm	4,150	4,150	4,500	4,500	4,150	4,500
<b>C Max. height of bucket bottom</b>	mm	4,330	4,330	4,750	4,750	4,300	4,770
<b>D Max. height of bucket pivot point</b>	mm	4,640	4,640	5,060	5,060	4,660	5,080
<b>E Max. operating height</b>	mm	6,530	6,530	6,950	6,980	6,450	6,800
<b>F Reach at max. lift height and 45° discharge</b>	mm	1,430	1,430	1,370	1,410	1,390	1,370
<b>G Digging depth</b>	mm	100	100	100	100	140	140
<b>H Height above operator's cab</b>	mm	3,740	3,740	3,740	3,740	3,760	3,760
<b>I Height above exhaust</b>	mm	3,300	3,300	3,300	3,300	3,320	3,320
<b>J Ground clearance</b>	mm	575	575	575	575	595	575
<b>K Wheelbase</b>	mm	3,900	3,900	3,900	3,900	3,900	3,900
<b>L Overall length</b>	mm	9,980	9,980	10,250	10,280	9,990	10,300
<b>Turning circle radius over outside bucket edge</b>	mm	8,350	8,400	8,500	8,550	8,300	8,450
<b>Breakout force (SAE)</b>	kN	240	240	250	240	245	260
<b>Tipping load, straight*</b>	kg	24,500	23,900	22,400	21,700	25,600	22,700
<b>Tipping load, fully articulated*</b>	kg	21,600	21,000	19,700	19,000	22,500	20,000
<b>Operating weight*</b>	kg	32,600	33,050	32,600	33,000	33,700	33,900
<b>Tyre size</b>	kg	29.5R25 L3				29.5R25 L5	

\* The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator.

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

\*\* Actual bucket capacity may be approx. 10% larger than the calculation according to ISO 7546 standard.

The degree to which the bucket can be filled depends on the material – see pages 11.



= Rehandling bucket for direct mounting



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

STD = Standard lift arm length

HL = High Lift

ZK = Z-bar linkage

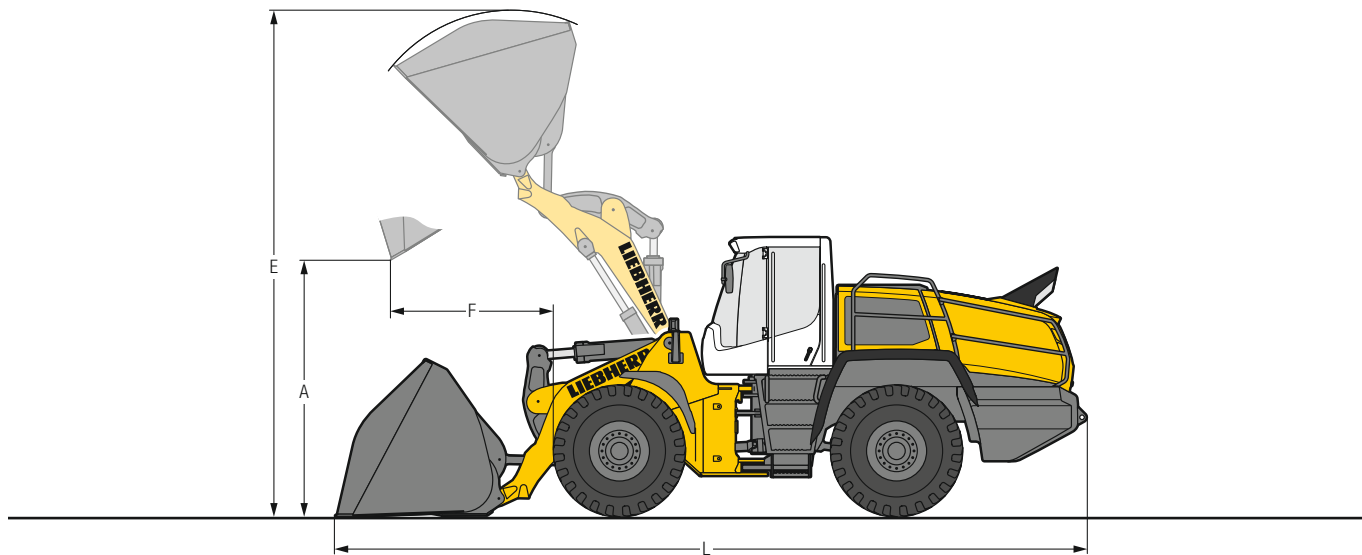
T = Welded-on tooth holder with add-on teeth

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



# Attachment

## Light Material Bucket



### Light Material Bucket



Geometry		ZK
Cutting tools		BOCE
Bucket capacity	m <sup>3</sup>	8,5
Specific material density	t/m <sup>3</sup>	1,1
Bucket width	mm	3,500
<b>A</b> Dumping height at max. lift height	mm	2,940
<b>E</b> Max. operating height	mm	6,835
<b>F</b> Reach at maximum lift height	mm	1,770
<b>L</b> Overall length	mm	10,200
Tipping load, straight*	kg	24,000
Tipping load, fully articulated*	kg	21,000
Operating weight*	kg	32,800
Tyre size		29.5R25 L3

\* The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator.

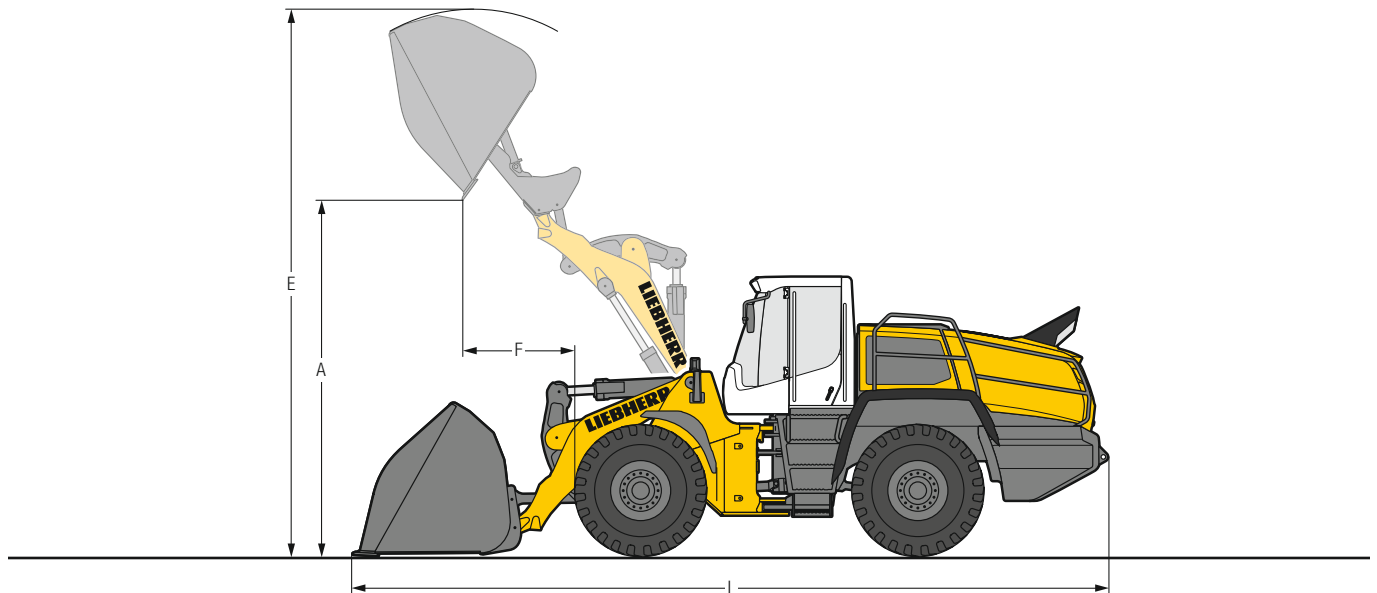
Different tyres and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

ZK = Z-bar linkage

BOCE = Bolt-on cutting edge

# Attachment

## High-Dump Bucket



### High-Dump Bucket



Geometry		ZK
Cutting tools		BOCE
Bucket capacity	m <sup>3</sup>	8,5
Specific material density	t/m <sup>3</sup>	1,0
Bucket width	mm	3,500
<b>A</b> Dumping height at max. lift height	mm	5,100
<b>E</b> Max. operating height	mm	7,700
<b>F</b> Reach at maximum lift height	mm	2,000
<b>L</b> Overall length	mm	10,500
Tipping load, straight*	kg	23,200
Tipping load, fully articulated*	kg	20,300
Operating weight*	kg	33,500
Tyre size		29.5R25 L3

\* The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator.

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

ZK = Z-bar linkage

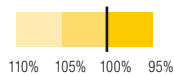
BOCE = Bolt-on cutting edge

# Bucket Selection

## L 586

Lift arm	Bucket	Material density (t/m <sup>3</sup> )									
		0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	
ZK	GPB <sub>2</sub> 6.0 m <sup>3</sup>							6.6	6.0		
	GPB <sub>2</sub> 6.5 m <sup>3</sup>						7.2	6.5			
	RB 5.5 m <sup>3</sup>							5.5	5.2		
	LMB 8.5 m <sup>3</sup>				9.4	8.5					
	HDB 8.5 m <sup>3</sup>				9.4	8.5					
ZK-HL	GPB <sub>2</sub> 5.5 m <sup>3</sup>							6.1	5.5		
	GPB <sub>2</sub> 6.0 m <sup>3</sup>						6.6	6.0			
	RB 5.0 m <sup>3</sup>							5.0	4.8		

## Bucket Filling Factor



## Lift Arm

<b>ZK</b>	Z-bar linkage, standard lift arm length
<b>ZK-HL</b>	Z-bar linkage, High Lift

## Bucket

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

## Bulk Material Densities and Bucket Filling Factors

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

# Tyres



## Tyre Types

	Size and tread code		Change of operating weight kg	Width over tyres mm	Change in vertical dimensions* mm	Use
<b>L 586 XPower®</b>						
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	936	3,260	26	Stone, Mining spoil (firm ground conditions)
Michelin	29.5R25 XTXL	L4	606	3,280	26	Gravel, Industry, Wood (firm ground conditions)
Michelin	29.5R25 X MINE PRO	L5	1,412	3,310	42	Stone, Scrap, Recycling (firm ground conditions)

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

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

## Tipping Load



### What is tipping load?

Load at centre of gravity of working equipment, so that the wheel loader just begins to tip over the front axle.

This is the most unfavourable static-load position for the wheel loader. Lifting arms horizontal, wheel loader fully articulated at centre pivot.

### Pay load.

The pay load must not exceed 50% of the tipping load when articulated.

This is equivalent to a static stability-margin factor of 2.0.

### Bucket capacity.

The bucket volume is determined from the pay load.

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

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

# The Liebherr Wheel Loaders

## Wheel Loader



		<b>L 524</b>	<b>L 538</b>	<b>L 550</b>
<b>Tipping load</b>	kg	7,500	9,500	12,350
<b>Bucket capacity</b>	m <sup>3</sup>	2.0	2.5	3.2
<b>Operating weight</b>	kg	10,400	12,800	17,350
<b>Engine output</b>	kW/HP	86/117	104/141	140/190

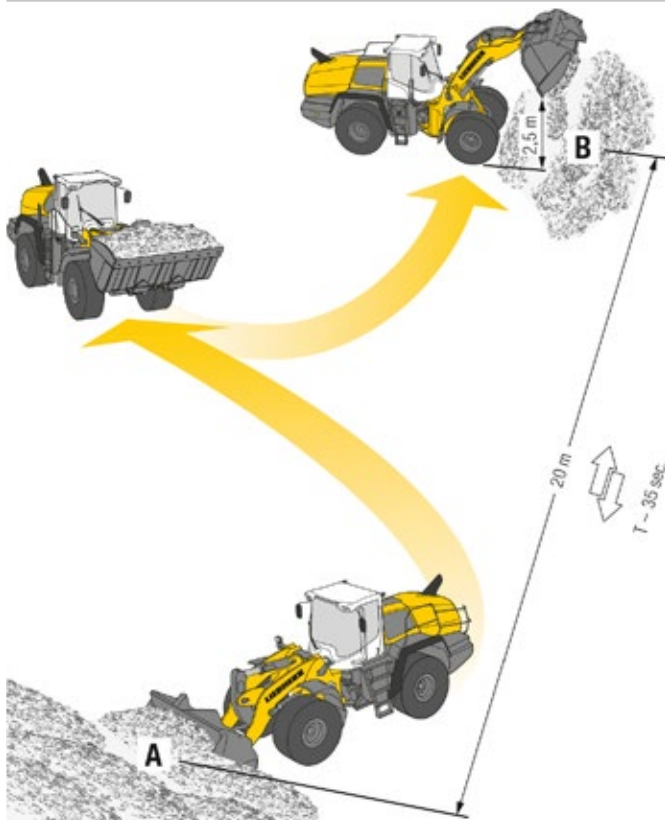
## Wheel Loader



		<b>L 566</b>	<b>L 580</b>	<b>L 586 XPower®</b>
<b>Tipping load</b>	kg	15,550	18,000	21,600
<b>Bucket capacity</b>	m <sup>3</sup>	4.0	5.0	6.0
<b>Operating weight</b>	kg	23,100	24,720	32,600
<b>Engine output</b>	kW/HP	200/272	200/272	260/354

07.20

## Environmental Protection Can Help You Earn Money!



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

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

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

### Values for the Liebherr Wheel Loaders

	<b>Numbers of working cycles</b>	<b>Litres/100 tons</b>	<b>Litres/hour</b>
<b>L 524: 2.0 m<sup>3</sup></b>	n = 47	2.9	8.5
<b>L 538: 2.5 m<sup>3</sup></b>	n = 39	2.9	10.3
<b>L 550: 3.2 m<sup>3</sup></b>	n = 30	2.9	13.5
<b>L 566: 4.0 m<sup>3</sup></b>	n = 23	3.0	17.3
<b>L 580: 5.0 m<sup>3</sup></b>	n = 21	2.6	19.1
<b>L 586: 6.0 m<sup>3</sup></b>	n = 15	3.1	26.7

# Equipment



## Basic Wheel Loader

Crash protection, rear	+
Automatic central lubrication system	•
Battery main switch (lockable)	•
Electronic tractive force regulation for difficult ground conditions	•
Travel light (with additional headlights) on front section halogen	+
Travel light (with additional headlights) on front section LED	+
Ride control	•
Parking brake	•
Fire extinguisher 6 kg	+
Fluff trap for radiator	+
Speed limiter 20 km/h as a factory preset	+
Speed limiter Vmax adjustable key on the control unit	•
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	•
Reversible fan drive	+
Automatic delayed engine stop	+
Widening for mudguard	+
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	+
Lockable doors and engine hood	•
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

Working hydraulics lockout	•
Automatic bucket return programmable	•
Stroke limit damping	+
Fork carrier and pallet forks	+
High-dump bucket	+
Automatic lift arm position and lowering programmable	•
High Lift arms	+
Lift arm Z-bar linkage	•
Hydraulic quick coupler	+
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	+



## Operator's Cab

Adapter plate for additional fastening on the multi-function rail	+
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 electro-hydraulic, proportional additional function moving with operator's seat	+
Liebherr control lever moving with operator's seat (incl. kick down, travel direction)	•
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

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	•



## Safety

Active personnel detection at the rear incl. brake assistant	+
Roof camera for front area monitoring (with Liebherr camera via Liebherr display)	+
Country-specific versions	+
Emergency steering system	•
Reversing obstruction detector	+
Back-up alarm acoustic/visual	+
Rear space monitoring with camera (integrated in display unit)	•



Here you can download our wheel loader brochures:

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

# The Liebherr Group of Companies



## Wide Product Range

The Liebherr Group is one of the largest construction equipment manufacturers in the world. Liebherr's high-value products and services enjoy a high reputation in many other fields. The wide range includes domestic appliances, aerospace and transportation systems, machine tools and maritime cranes.

## Exceptional Customer Benefit

Every product line provides a complete range of models in many different versions. With both their technical excellence and acknowledged quality, Liebherr products offer a maximum of customer benefits in practical applications.

## State-of-the-art Technology

To provide consistent, top quality products, Liebherr attaches great importance to each product area, its components and core technologies. Important modules and components are developed and manufactured in-house, for instance the entire drive and control technology for construction equipment.

## Worldwide and Independent

Hans Liebherr founded the Liebherr family company in 1949. Since 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](http://www.liebherr.com)