Wheel Loaders

L 550 – L 586

Xpower® Xpower®

Generation
6

Tipping load
26,895 – 47,620 lb

Engine
Tier 4f

LIEBHERR

reddot award 2016
winner

Performance
Power for Increased Productivity

Economy
Minimum Costs at High Handling Capacity

L 550 XPower®
Tipping load, articulated 26,895 lb
Bucket capacity 4.2 yd³
Operating weight 39,020 lb
Engine output (ISO 14396)
140 kW / 188 HP

L 556 XPower®
Tipping load, articulated 30,205 lb
Bucket capacity 4.7 yd³
Operating weight 40,565 lb
Engine output (ISO 14396)
165 kW / 221 HP

L 566 XPower®
Tipping load, articulated 35,055 lb
Bucket capacity 5.5 yd³
Operating weight 52,690 lb
Engine output (ISO 14396)
200 kW / 268 HP

L 580 XPower®
Tipping load, articulated 42,330 lb
Bucket capacity 6.8 yd³
Operating weight 60,955 lb
Engine output (ISO 14396)
230 kW / 308 HP

L 586 XPower®
Tipping load, articulated 47,620 lb
Bucket capacity 7.8 yd³
Operating weight 71,870 lb
Engine output (ISO 14396)
260 kW / 349 HP

Reliability
Ruggedness 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 adjustment of acceleration in all speed ranges, without noticeable gear shifting or interruption in tractive force. Powerful working and high driving comfort increases productivity.

High Handling Capacity
Unnecessary counterweight can be avoided through the unique component mounting position at the rear of the machine. Ideal weight distribution results in high tipping loads and greater handling capacity per hour of operation.

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

Flexibility and Versatility

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

An alternative is available in the form of the industrial lift arm for L 550 – L 580 wheel loaders at no extra charge. The industrial lift arm features 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.

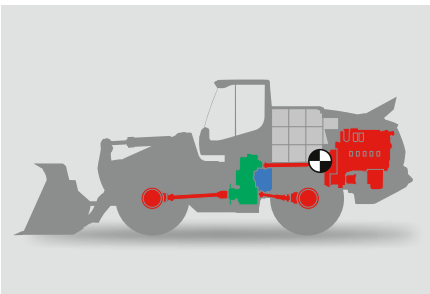
Optimal Bucket Filling
The new robust bucket design from Liebherr allows the bucket to be filled quickly and efficiently. Fully filled attachments increase productivity. The bucket's good penetration and simple filling mechanism result in lower fuel consumption.

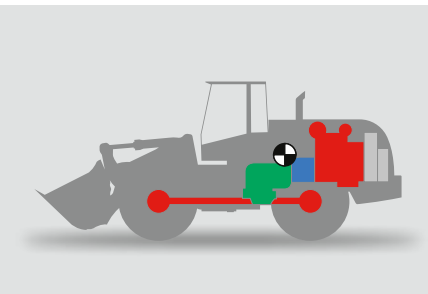
Wide Range of Applications
The wide range of attachments means the right tool is always to hand. As a result, a multitude of uses can easily be covered. This increases utilisation of the machine and raises productivity. Liebherr wheel loaders can manoeuvre quickly and efficiently thanks to their compact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

Liebherr-XPower Driveline L 550 – L 586
- Trend-setting driveline for powerful uses
- Optimum weight distribution due to its unique component mounting position
- Ideal visibility due to its compact design

Conventional Travel Gear
- Centre of gravity in the middle of the machine
- Additional ballast is needed to increase the tipping load and improve stability
- This leads to bad visibility

An All-Purpose Loader
The option to choose between industrial lift arm and Z-bar linkage means the right machine is always available for the use specifically required by the customer.





Economy

Minimum Costs at High Handling Capacity

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

Low Operating Costs

Lower Fuel Consumption
The Liebherr-XPower driveline with Liebherr-Power-Efficiency (LPE) achieves a reduction in fuel consumption of up to 30 % when compared to conventional travel gears. At highest efficiency this reduces operating costs and increases profitability.

Practically No 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 Tire Wear
Its continuous traction control, combined with automatic self-locking differential, prevents wheelspin. Productivity is increased and tire wear reduced by up to 25 %.

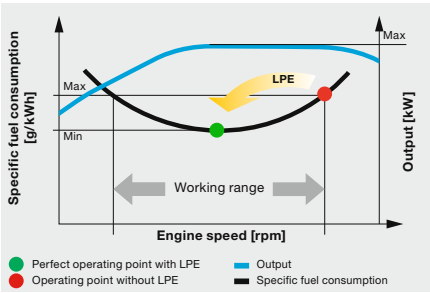
Save Costs and Protect the Environment

Innovative Exhaust Gas Treatment
The Liebherr-SCR technology is an efficient system for the gas treatment of exhaust gases. Consumables around the engine, such as diesel particle filters, are not required. Regeneration is no longer necessary and maintenance is reduced. Higher productivity provide fuel savings and a reduction in operating costs.

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

LiDAT

Efficient Management
LiDAT, Liebherr's own data transmission and positioning system, facilitates efficient management, monitoring and control of the entire fleet park in terms of machinery data recording, data analysis, fleet park management and service. All of the important machinery data can be viewed at any time in a web browser. LiDAT offers you comprehensive work deployment documentation, greater availability thanks to shorter downtimes, faster support from the manufacturer, quicker detection of strain / overload and subsequently a longer service life of the machine as well as greater planning efficiency in your company. This service includes 1 year of use free of charge as standard for the L 550 XPower® – L 586 XPower® wheel loaders.



Low Fuel Consumption Thanks to Intelligent Machine Control
- Liebherr-Power-Efficiency (LPE) optimises the interaction between diesel engine, gearbox and working hydraulics for maximum efficiency
- LPE – maximum performance from every drop of fuel

Reduced Brake Wear
- Hardly any brake wear due to hydraulic-mechanical braking action of the driveline

Reduced Tire 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

Ruggedness and Quality for Durable Machines

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

OEM Quality Components

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

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

High Safe and Versatile Usage

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.

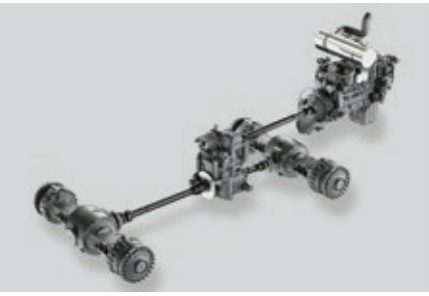
Continuous Use
Thanks to Liebherr's unique SCR technology, fewer components – such as diesel particle filters or exhaust gas recirculation – are not needed at the engine. This minimises the risk of failure and reduces maintenance expense. This sophisticated technology ensures efficient, continuous work.

Reliable Cooling System

Optimal Cooling Performance
The cooling system is fitted directly behind the operator's cab and is thus able to take in air which is free of dust. In especially dusty applications, the reversible fan drive is a standard feature, a particle protection for the radiator and a large mesh radiator are available as options to 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
- Fewer components around the engine mean reduced risk of failure

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 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.

Simple and Intuitive Operation

Ergonomic Controls
The operating and control instruments are well laid out and user-friendly. All operation-relevant data can be viewed quickly and efficiently. The high operating comfort allows the operator to work efficiently and safely.

Joystick Steering (optional)
The optional joystick steering integrated in the operator's seat is a new, innovative and improved steering system. This means that all working and driving functions of the machine 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. Moving your hands between the steering unit and the control unit is not necessary, which increases safety and comfort.

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

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

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
+ Tire wear reduced by up to 25 %
+ Practically no brake wear
+ Maximum stability and safety on all terrains

✓ Drive components optimally suited to each other by LPE
✓ Powerful power split driveline
✓ Rugged and durable driveline
✓ Ideal weight distribution by intelligent arrangement of drive components
✓ Continuous tractive force prevents wheelspin
✓ Self-locking hydraulic-mechanical brake system

Comfortable Operator's Cab

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

✓ New, modern and ergonomic cab design
✓ Control of working and travel functions with Liebherr control lever mounted into the operator's seat
✓ Generous glass surfaces

Intelligent Cooling System

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

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

Optimum Service Accessibility

+ Time savings in daily maintenance
+ Short service times for more productivity

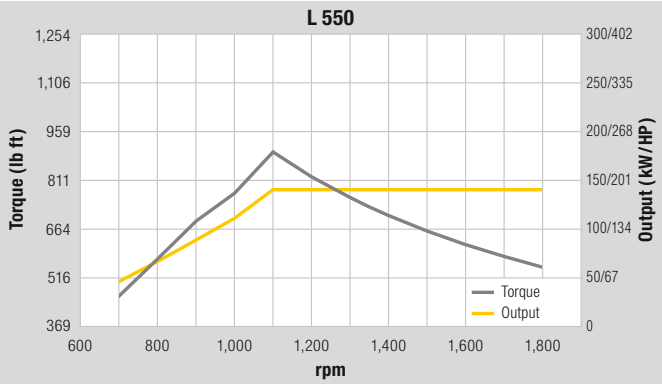
✓ Rapid control of the most important maintenance points in the access area
✓ Safe, simple and quick access to all points important for operations

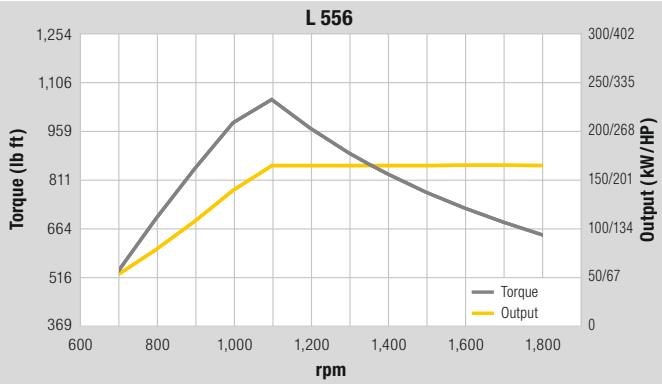
Technical Data

Engine

		L 550	L 556
Diesel engine		D934 A7	D944 A7
Design		Water-cooled in-line engine with charge-air cooling, exhaust gas treatment through Liebherr-SCR technology	
Cylinder inline		4	4
Fuel injection process		Electronic Common Rail high-pressure injection	
Max. gross output to ISO 3046 and SAE J1995	kW/HP	143/192	168/225
	at RPM	1,100 – 1,800	1,100 – 1,800
Max. net output to ISO 9249 and SAE J1349	kW/HP	140/188	165/221
	at RPM	1,100 – 1,800	1,100 – 1,800
Rated output to ISO 14396	kW/HP	140/188	165/221
	at RPM	1,800	1,800
Max. net torque to ISO 9249 and SAE J1349	lb ft	896	1,055
	at RPM	1,100	1,100
Displacement	in^3	428	486
Bore/Stroke	in	4.8"/5.91"	5.12"/5.91"
Air cleaner system		Dry type filter with main and safety element, pre-cleaner, service indicator on the Liebherr display	
Electrical system			
Operating voltage	V	24	24
Capacity	Ah	2 x 140	2 x 140
Alternator	V/A	28/140	28/140
Starter	V/HP	24/10.5	24/10.5

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





Driveline

Continuous power split 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 switch is used to control forward and reverse travel
Travel speed range		0 – 24.9 mph forward and reverse, fully-automatic Speed restriction available upon request. Speeds quoted apply with the standard tires as indicated on loader model.

Axles

		L 550	L 556
Four-wheel drive			
Front axle		Fixed	
Rear axle		Center pivot, with 13° oscillating angle to each side	
Height of obstacles which can be driven over	ft in	1'6"	1'5"
		with all four wheels remaining in contact with the ground	
Differentials		Automatic limited-slip differentials	
Reduction gear		Planetary final drive in wheel hubs	
Track width		6'7" with all types of tires	

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.

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	40° to each side
Emergency steering	Electro-hydraulic emergency steering system

Attachment Hydraulics

		L 550	L 556
Design		"Load-sensing" swash plate type variable flow pump with output and flow control, and pressure cut-off in the control block	
Cooling		Hydraulic oil cooling using thermostatically controlled fan and oil cooler	
Filtration		Return line filter in the hydraulic reservoir	
Control		Liebherr control lever, electro-hydraulically operated	
Lift circuit		Lifting, neutral, lowering Automatic lift arm position and lowering by Liebherr control lever Float position controlled by Liebherr control lever	
Tilt circuit		Tilt back, neutral, dump Automatic bucket return for tilting back and dumping controlled by Liebherr control lever	
Max. flow	gpm	62	62
Max. pressure			
Z-bar linkage	psi	4,786	5,221
Industrial lift arm	psi	5,076	5,511

Attachment

		L 550		L 556	
Geometry variants					
Optional		Powerful Z-bar linkage with tilt cylinder and cast steel cross-tube			
		Industrial lift arm with tilt cylinder, hydraulic quick coupler 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

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 standard (air-cushioned with seat heating adjustable to operator's weight), Liebherr control lever mounted into the operator's seat standard
Cab heating and ventilation	4-zone air conditioning with new improved cooling output standard, electrically heated rear window, all filters are easy to access and replaceable

Sound Level

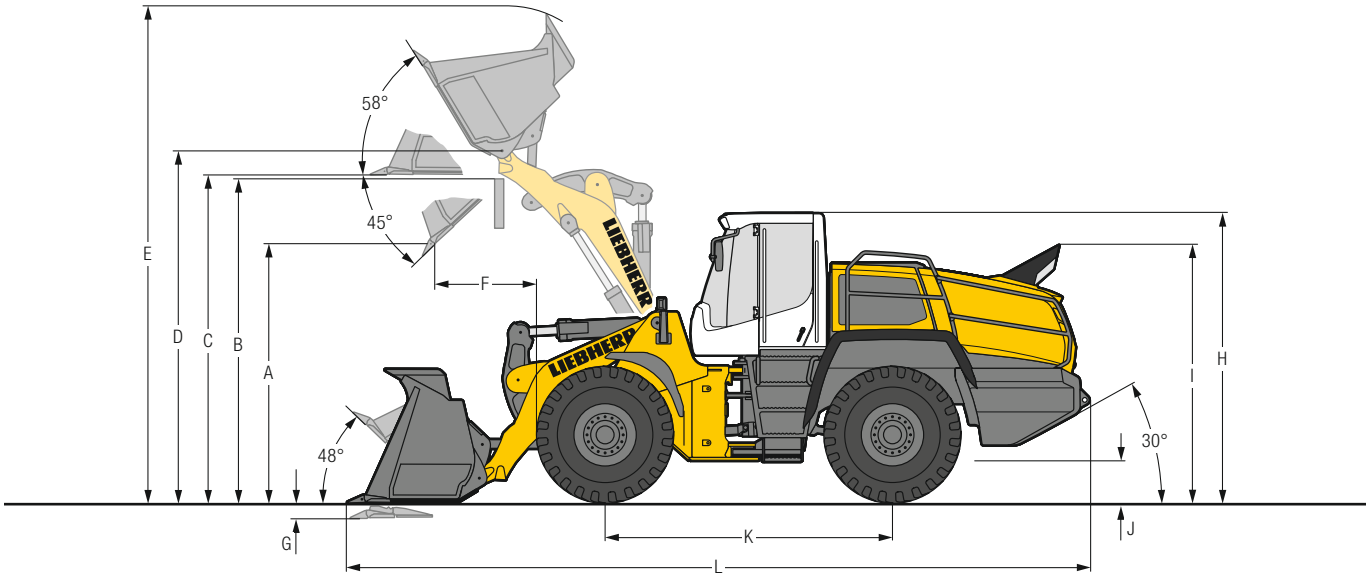
		L 550	L 556
Sound pressure level to ISO 6396			
L_{pA} (inside cab)	dB(A)	68	68
Sound power level to 2000/14/EC			
L_{WA} (surround noise)	dB(A)	104	104

Capacities

		L 550	L 556
Fuel tank	gal	74	74
Engine oil (inclusive filter change)	gal	6.9	6.9
DEF tank	gal	17.8	17.8
Pump distribution gearbox	gal	0.3	0.3
XPower® gearbox	gal	14	14
Coolant	gal	17.7	17.7
Front axle	gal	9.2	11.1
Rear axle	gal	9.2	9.2
Hydraulic tank	gal	27.7	27.7
Hydraulic system, total	gal	46.2	46.2
Air conditioning system R134a	lb	2.8	2.8

Dimensions

Z-bar Linkage



Excavation Bucket

			L 550		L 556	
	Geometry		ZK	ZK	ZK	ZK
	Cutting tools		T	T	T	T
	Lift arm length	**ft in**	8'6"	8'6"	8'6"	8'6"
	Bucket capacity according to ISO 7546**	**yd³**	4.2	4.7	4.7	5.2
	Specific material density	**lb/yd³**	3,118	2,781	3,118	2,781
	Bucket width	**ft in**	8'10"	8'10"	8'10"	8'10"
A	**Dumping height at max. lift height and 45° discharge**	**ft in**	9'5"	9'3"	9'3"	9'
B	**Dump-over height**	**ft in**	11'6"	11'6"	11'6"	11'6"
C	**Max. height of bucket bottom**	**ft in**	12'	12'	12'	12"
D	**Max. height of bucket pivot point**	**ft in**	12'10"	12'10"	12'10"	12'10"
E	**Max. operating height**	**ft in**	18'4"	18'8"	18'8"	18'11"
F	**Reach at max. lift height and 45° discharge**	**ft in**	3'7"	3'10"	3'10"	4'1"
G	**Digging depth**	**ft in**	3"	3"	3"	3"
H	**Height above operator's cab**	**ft in**	11'1"	11'1"	11'1"	11'1"
I	**Height above exhaust**	**ft in**	9'11"	9'11"	9'11"	9'11"
J	**Ground clearance**	**ft in**	1'7"	1'7"	1'7"	1'7"
K	**Wheelbase**	**ft in**	11'2"	11'2"	11'2"	11'2"
L	**Overall length**	**ft in**	27'6"	27'10"	27'10"	28'2"
	Turning circle radius over outside bucket edge	**ft in**	21'7"	21'8"	21'8"	21'9"
	Breakout force (SAE)	**lbf**	31,475	29,225	33,720	31,475
	Tipping load, straight*	**lb**	30,865	30,425	34,720	34,280
	Tipping load, fully articulated*	**lb**	26,895	26,455	30,205	29,760
	Operating weight*	**lb**	39,020	39,240	40,565	40,785
	Tire size		23.5R25 L3		23.5R25 L3	

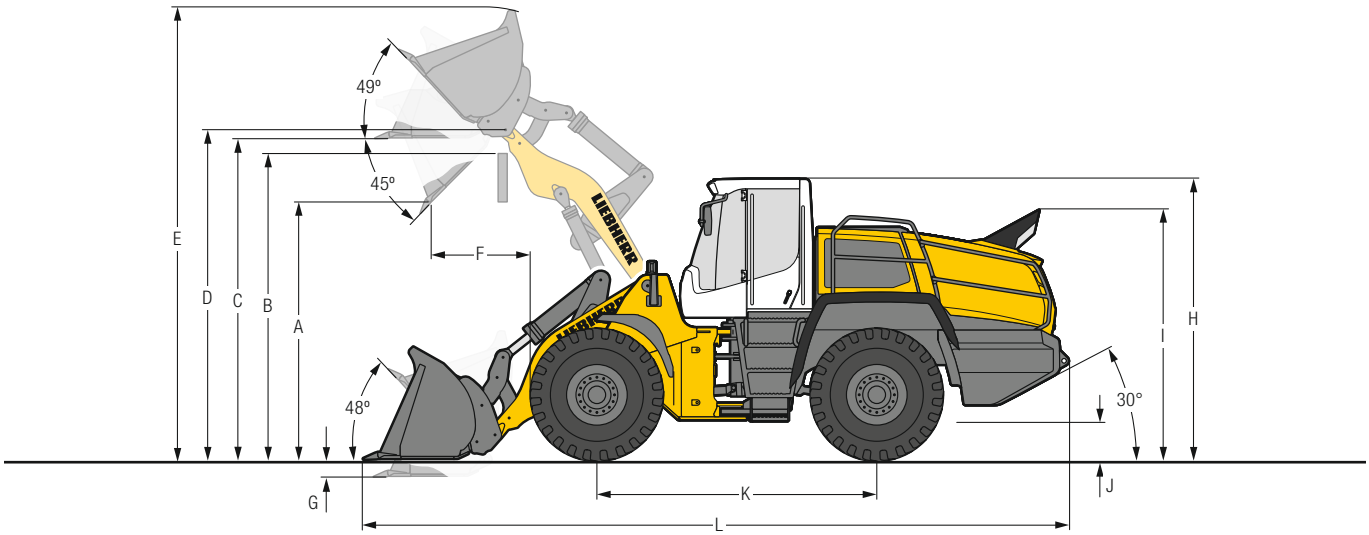
* The figures shown include the above tires, all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tires and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

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

ZK = Z-bar linkage
T = Welded-on tooth holder with add-on teeth

Dimensions

Industrial Lift Arm



Excavation Bucket

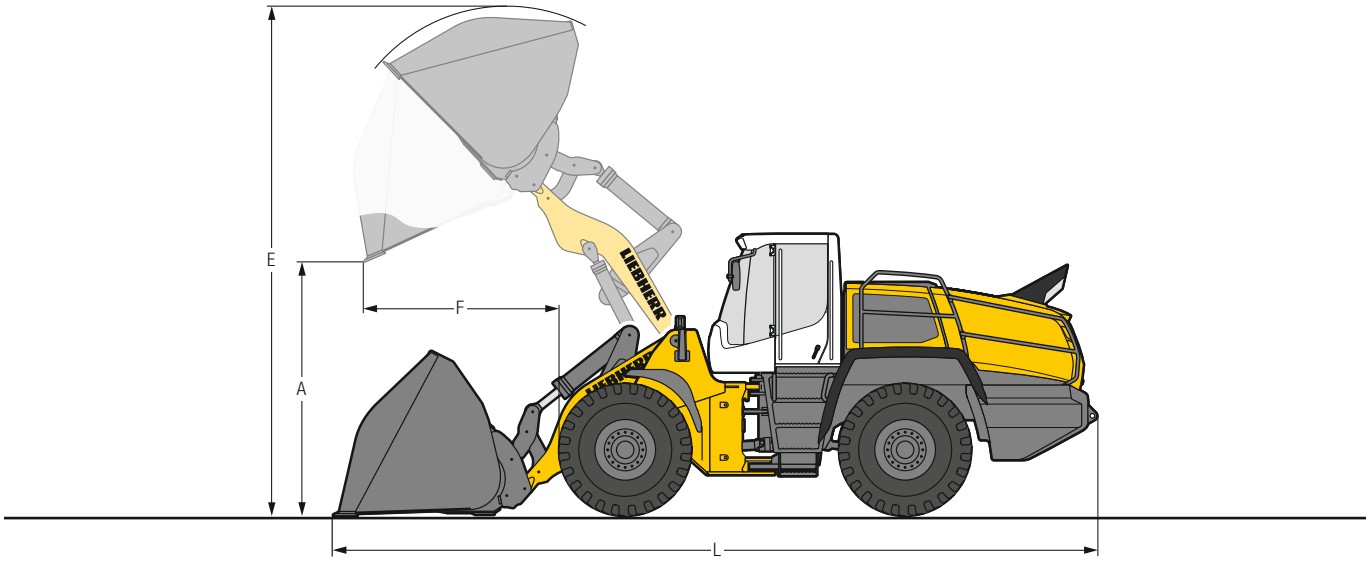
			L 550			L 556		
			STD	HL	HL	STD	HL	HL
	Geometry		IND-QC	IND-QC	IND-QC	IND-QC	IND-QC	IND-QC
	Cutting tools		T	T	T	T	T	T
	Lift arm length	**ft in**	8'6"	9'10"	9'10"	8'6"	9'10"	9'10"
	Bucket capacity according to ISO 7546**	**yd³**	3.9	3.4	3.7	4.3	3.7	3.9
	Specific material density	**lb/yd³**	3,034	3,034	2,697	3,034	3,034	2,697
	Bucket width	**ft in**	8'10"	8'10"	8'10"	8'10"	8'10"	8'10"
A	**Dumping height at max. lift height and 45° discharge**	**ft in**	9'5"	11'8"	11'7"	9'4"	11'7"	11'4"
B	**Dump-over height**	**ft in**	11'6"	13'5"	13'5"	11'6"	13'5"	13'5"
C	**Max. height of bucket bottom**	**ft in**	12'5"	14'4"	14'4"	12'5"	14'4"	14'4"
D	**Max. height of bucket pivot point**	**ft in**	13'4"	15'3"	15'3"	13'4"	15'3"	15'3"
E	**Max. operating height**	**ft in**	18'4"	20'	20'1"	18'5"	20'1"	20'3"
F	**Reach at max. lift height and 45° discharge**	**ft in**	3'9"	3'1"	3'2"	3'10"	3'2"	3'4"
G	**Digging depth**	**ft in**	3"	3"	3"	3"	3"	3"
H	**Height above operator's cab**	**ft in**	11'1"	11'1"	11'1"	11'1"	11'1"	11'1"
I	**Height above exhaust**	**ft in**	9'11"	9'11"	9'11"	9'11"	9'11"	9'11"
J	**Ground clearance**	**ft in**	1'7"	1'7"	1'7"	1'7"	1'7"	1'7"
K	**Wheelbase**	**ft in**	11'2"	11'2"	11'2"	11'2"	11'2"	11'2"
L	**Overall length**	**ft in**	28'1"	29'4"	29'6"	28'3"	29'6"	29'9"
	Turning circle radius over outside bucket edge	**ft in**	21'9"	22'5"	22'6"	21'10"	22'6"	22'7"
	Breakout force (SAE)	**lbf**	28,100	30,575	30,125	29,225	30,125	28,100
	Tipping load, straight*	**lb**	28,220	23,590	23,370	31,745	26,455	26,015
	Tipping load, fully articulated*	**lb**	24,470	20,280	20,060	27,335	22,705	22,265
	Operating weight*	**lb**	41,225	41,665	41,775	42,990	43,430	43,540
	Tire size			23.5R25 L3			23.5R25 L3	

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

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

STD = Standard lift arm length
HL = High Lift
IND-QC = Industrial lift arm with parallel guidance incl. quick coupler
T = 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-QC	IND-QC	IND-QC	IND-QC
	Cutting tools		BOCE	BOCE	BOCE	BOCE
	Bucket capacity	**yd³**	6.5	5.9	7.2	6.5
	Specific material density	**lb/yd³**	1,686	1,686	1,686	1,601
	Bucket width	**ft in**	9'8"	9'8"	9'8"	9'8"
A	**Dumping height at max. lift height**	**ft in**	8'4"	10'7"	8'	10'3"
E	**Max. operating height**	**ft in**	19'4"	20'9"	19'11"	21'3"
F	**Reach at maximum lift height**	**ft in**	4'9"	4'1"	5'1"	4'4"
L	**Overall length**	**ft in**	28'9"	30'1"	29'2"	30'5"
	Tipping load, straight*	**lb**	26,235	21,605	29,100	24,470
	Tipping load, fully articulated*	**lb**	22,485	18,300	24,910	20,725
	Operating weight*	**lb**	42,330	42,770	44,310	44,755
	Tire size		23.5R25 L3		23.5R25 L3	

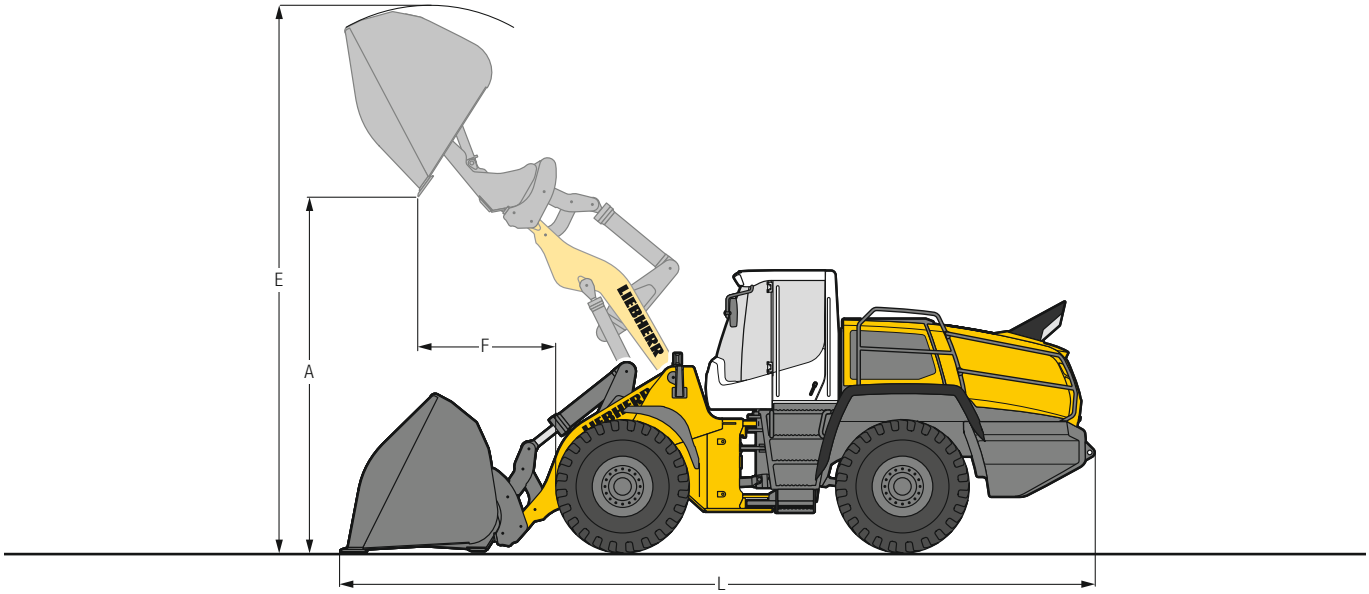
Light Material Density

			L 550		L 556	
			STD	HL	STD	HL
	Geometry		IND-QC	IND-QC	IND-QC	IND-QC
	Cutting tools		BOCE	BOCE	BOCE	BOCE
	Bucket capacity	**yd³**	11.8	10.5	13.1	11.8
	Specific material density	**lb/yd³**	843	843	843	843
	Bucket width	**ft in**	11'2"	11'2"	11'2"	11'2"
A	**Dumping height at max. lift height**	**ft in**	7'8"	9'7"	7'5"	9'4"
E	**Max. operating height**	**ft in**	20'1"	21'3"	20'6"	21'8"
F	**Reach at maximum lift height**	**ft in**	5'7"	5'	5'10"	5'3"
L	**Overall length**	**ft in**	30'	31'5"	30'4"	31'9"
	Tipping load, straight*	**lb**	25,355	20,725	28,880	23,590
	Tipping load, fully articulated*	**lb**	21,605	17,415	24,470	19,620
	Operating weight*	**lb**	43,430	43,870	45,195	45,855
	Tire size		23.5R25 L3		23.5R25 L3	

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

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

Attachment
High-Dump Bucket



Heavy Material Density

			L 550		L 556	
			STD	HL	STD	HL
	Geometry		IND-QC	IND-QC	IND-QC	IND-QC
	Cutting tools		BOCE	BOCE	BOCE	BOCE
	Bucket capacity	**yd³**	5.9	5.2	6.5	5.9
	Specific material density	**lb/yd³**	1,686	1,686	1,686	1,686
	Bucket width	**ft in**	8'10"	8'10"	8'10"	8'10"
A	**Dumping height at max. lift height**	**ft in**	14'11"	16'6"	15'1"	16'11"
E	**Max. operating height**	**ft in**	21'11"	23'4"	22'6"	23'11"
F	**Reach at maximum lift height**	**ft in**	5'10"	5'1"	6'	5'5"
L	**Overall length**	**ft in**	29'6"	30'10"	29'11"	31'4"
	Tipping load, straight*	**lb**	25,130	20,280	28,440	23,150
	Tipping load, fully articulated*	**lb**	21,385	16,975	24,030	19,620
	Operating weight*	**lb**	43,430	43,870	45,415	45,855
	Tire size		23.5R25 L3		23.5R25 L3	

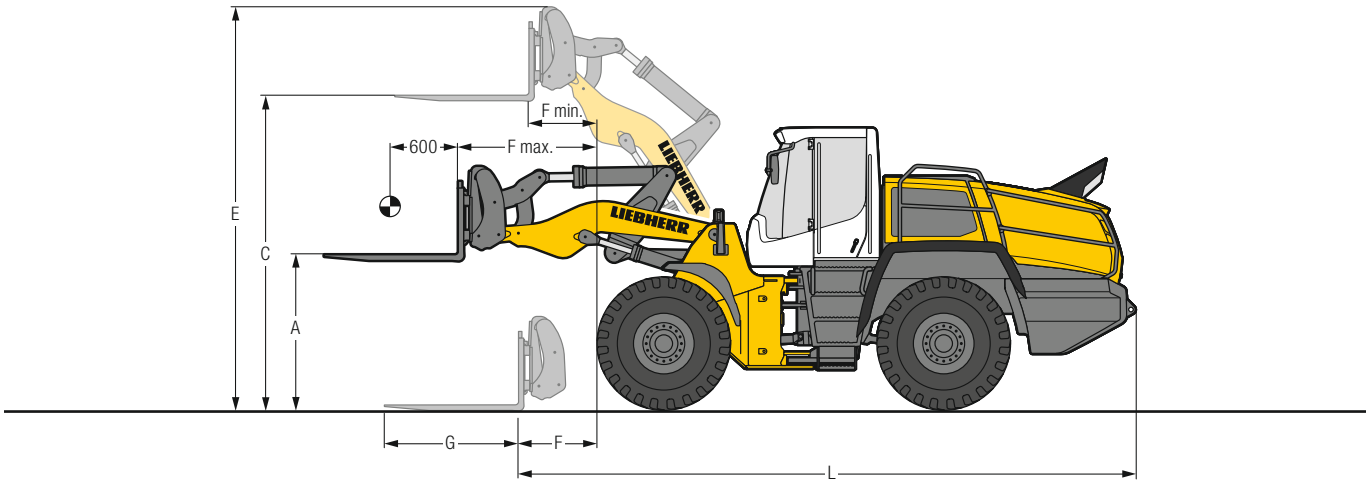
Light Material Density

			L 550		L 556	
			STD	HL	STD	HL
	Geometry		IND-QC	IND-QC	IND-QC	IND-QC
	Cutting tools		BOCE	BOCE	BOCE	BOCE
	Bucket capacity	**yd³**	11.1	9.8	12.4	11.1
	Specific material density	**lb/yd³**	843	843	843	843
	Bucket width	**ft in**	11'2"	11'2"	11'2"	11'2"
A	**Dumping height at max. lift height**	**ft in**	14'7"	15'9"	15'1"	16'3"
E	**Max. operating height**	**ft in**	22'8"	23'7"	23'5"	24'7"
F	**Reach at maximum lift height**	**ft in**	5'11"	5'2"	6'1"	5'5"
L	**Overall length**	**ft in**	30'2"	31'6"	30'6"	32'
	Tipping load, straight*	**lb**	24,030	19,180	27,560	22,265
	Tipping load, fully articulated*	**lb**	20,505	16,095	23,150	18,520
	Operating weight*	**lb**	44,755	44,975	46,740	46,960
	Tire size		23.5R25 L3		23.5R25 L3	

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

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

Attachment
Fork Carrier and Fork



FEM IV Fork Carrier and Fork

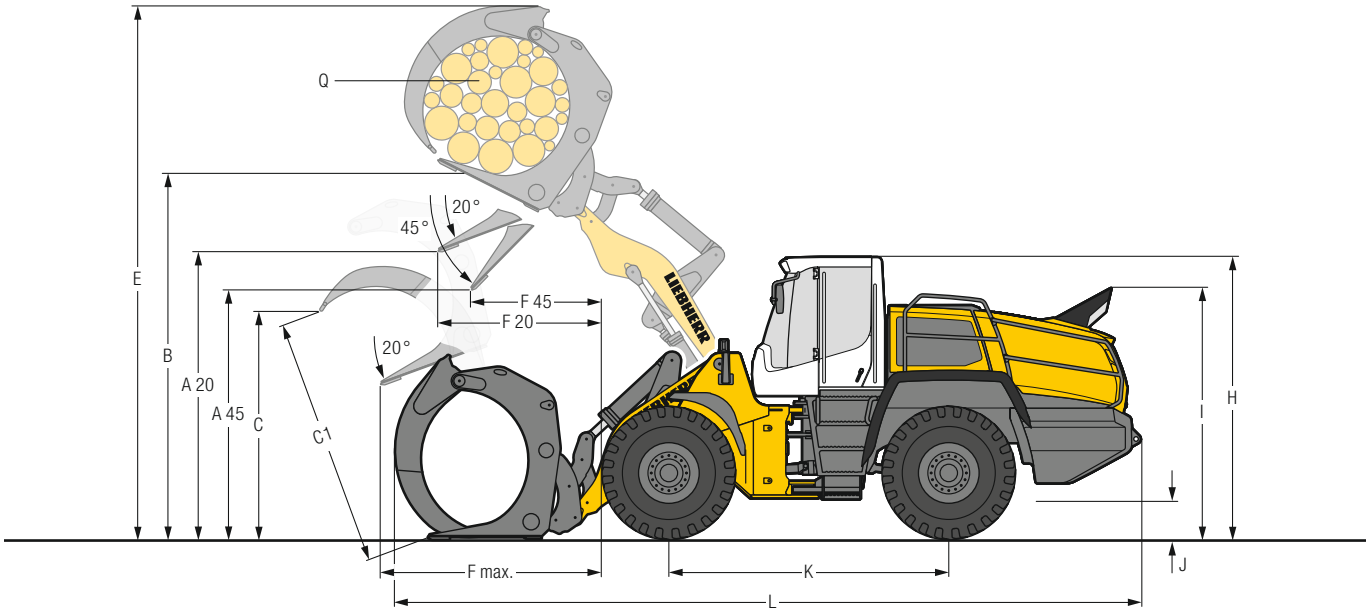
			L 550	L 556
	Geometry		IND-QC	IND-QC
A	**Lifting height at max. reach**	**ft in**	6'	6'
C	**Max. lifting height**	**ft in**	12'7"	12'7"
E	**Max. operating height**	**ft in**	15'10"	15'10"
F	**Reach at loading position**	**ft in**	3'3"	3'3"
F max.	**Max. reach**	**ft in**	5'6"	5'6"
F min.	**Reach at max. lifting height**	**ft in**	2'6"	2'6"
G	**Fork length**	**ft in**	4'11"	4'11"
L	**Length – basic machine**	**ft in**	24'3"	24'3"
	Tipping load, straight*	**lb**	20,945	23,590
	Tipping load, fully articulated*	**lb**	18,300	20,280
	Recommended payload for uneven ground = 60% of tipping load, articulated[1)]	**lb**	10,980	12,170
	Recommended payload for smooth surfaces = 80% of tipping load, articulated[1)]	**lb**	14,640	16,225
	Operating weight*	**lb**	39,240	40,785
	Tire size		23.5R25 L3	23.5R25 L3

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

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

Attachment
Log Grapple



Log Grapple

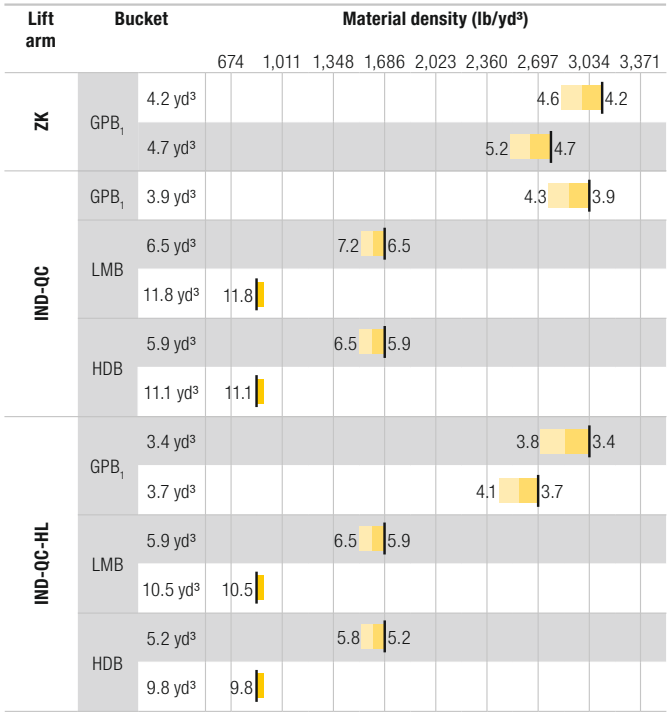
			L 550	L 556
	Geometry		IND-QC	IND-QC
A20	**Discharge height at 20°**	**ft in**	11'9"	11'9"
A45	**Discharge height at 45°**	**ft in**	9'11"	9'8"
B	**Manipulation height**	**ft in**	14'10"	14'10"
C	**Max. grapple opening in loading position**	**ft in**	7'10"	9'
C1	**Max. grapple opening**	**ft in**	8'6"	9'10"
E	**Max. height**	**ft in**	20'9"	21'3"
F20	**Reach at max. lifting height at 20° discharge**	**ft in**	5'9"	6'2"
F45	**Reach at max. lifting height at 45° discharge**	**ft in**	4'8"	5'
F max.	**Max. reach**	**ft in**	8'9"	9'3"
H	**Height above operator's cab**	**ft in**	11'2"	11'2"
I	**Height above exhaust**	**ft in**	10'	10'
J	**Ground clearance**	**ft in**	1'8"	1'8"
K	**Wheelbase**	**ft in**	11'2"	11'2"
L	**Overall length**	**ft in**	28'7"	29'1"
	Width over tires	**ft in**	8'8"	8'8"
Q	**Grapple diameter**	**yd²**	2.15	2.85
	Grapple width	**ft in**	5'3"	5'3"
	Payload*	**lb**	13,890	14,110
	Operating weight*	**lb**	43,430	45,195
	Tire size		23.5R25 L4	23.5R25 L4

* The figures shown include the above tires, all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tires and optional equipment will change the operating weight and payload.

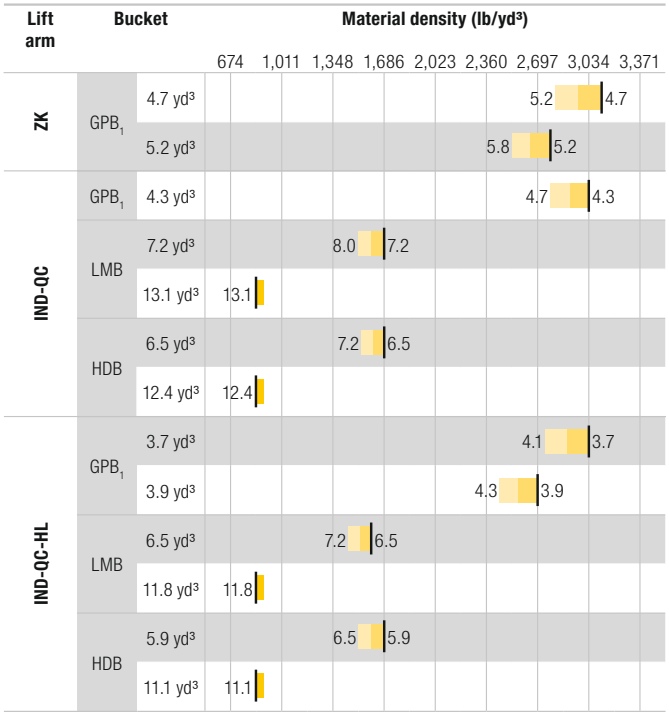
IND-QC = Industrial lift arm with parallel guidance incl. quick coupler

Bucket Selection

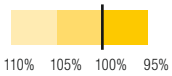
L 550



L 556



Bucket Filling Factor



Lift Arm

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

Bucket

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

Bulk Material Densities and Bucket Filling Factors

		lb/yd³	%
Gravel	moist	3,203	105
	dry	2,697	105
	crushed stone	2,528	100
Sand	dry	2,528	105
	wet	3,203	110
Gravel and Sand	dry	2,865	105
	wet	3,371	100
Sand / Clay		2,697	110
Clay	natural	2,697	110
	dry	2,360	110
Clay / Gravel	dry	2,360	110
	wet	2,697	100

		lb/yd³	%
Earth	dry	2,191	115
	wet excavated	2,697	110
Topsoil		1,854	110
Basalt		3,287	100
Granite		3,034	95
Sandstone		2,697	100
Slate		2,950	100
Bauxite		2,360	100
Limestone		2,697	100
Gypsum	broken	3,034	100
Coke		843	110
Slag	broken	3,034	100

		lb/yd³	%
Glass waste	broken	2,360	100
	solid	1,686	100
Compost	dry	1,348	105
	wet	1,686	110
Wood chips / Saw dust		843	110
Paper	shredded / loose	1,011	110
	recovered paper / cardboard	1,686	110
Coal	heavy material density	2,023	110
	light material density	1,517	110
Waste	domestic waste	843	100
	bulky waste	1,686	100

Tires

Tire Types

	Size and tread code		Change of operating weight lb	Width over tires ft in	Change in vertical dimensions* ft in	Use
L 550 XPower® / L 556 XPower®						
Bridgestone	23.5R25 VJT	L3	304	8'9"	0.24"	Bulk material (firm ground conditions)
Bridgestone	23.5R25 VLTS	L4	794	8'9"	1.54"	Gravel, Industry (firm ground conditions)
Bridgestone	23.5R25 VSDL	L5	1,980	8'9"	2.56"	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	23.5R25 VSDT	L5	1,876	8'9"	2.17"	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	650/65R25 VTS	L3	9	8'10"	– 1.18"	Gravel (all ground conditions)
Bridgestone	750/65R25 VTS	L3	1,605	9'5"	0.43"	Gravel, Industry, Wood (all ground conditions)
Continental	23.5R25 EM-Master	L4	864	8'9"	0.79"	Gravel, Industry, Wood (firm ground conditions)
Goodyear	23.5R25 RT-3B	L3	414	8'9"	0.79"	Gravel (all ground conditions)
Goodyear	23.5R25 TL-3A+	L3	626	8'9"	1.42"	Sand, Gravel, Earthworks, Clay (all ground conditions)
Goodyear	23.5R25 GP-4D	L4	723	8'10"	0.98"	Gravel, Industry, Wood (firm ground conditions)
Goodyear	23.5R25 RL-4K	L4	1,102	8'10"	1.54"	Gravel, Industry, Stone (firm ground conditions)
Goodyear	23.5R25 RL-5K	L5	2,064	8'10"	2.24"	Stone, Scrap, Recycling (firm ground conditions)
Goodyear	23.5R25 RL-5S	L5	2,134	8'10"	2.24"	Scrap, Recycling, Slag (firm ground conditions)
Goodyear	23.5R25 RT-5D	L5	1,808	8'9"	2.17"	Stone, Mining spoil (firm ground conditions)
Goodyear	750/65R25 TL-3A+	L3	1,499	9'7"	0.94"	Sand, Gravel, Industry, Wood (all ground conditions)
Michelin	23.5R25 XHA2	L3	0	8'8"	0"	Sand, Gravel (all ground conditions)
Michelin	23.5R25 XTLA	L2	– 26	8'8"	– 0.16"	Gravel, Earthworks, Clay (all ground conditions)
Michelin	23.5R25 X MINE PRO	L5	1,825	8'10"	2.20"	Stone, Scrap, Recycling (firm ground conditions)
Michelin	23.5R25 XLD D2A	L5	1,349	8'9"	1.02"	Stone, Mining spoil (firm ground conditions)
Michelin	650/65R25 XLD65	L3T	– 247	8'10"	– 2.09"	Gravel, Industry, Wood (all ground conditions)
Michelin	750/65R25 XLD65	L3T	1,155	9'5"	– 0.28"	Gravel, Industry, Wood (all ground conditions)

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

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

Technical Data

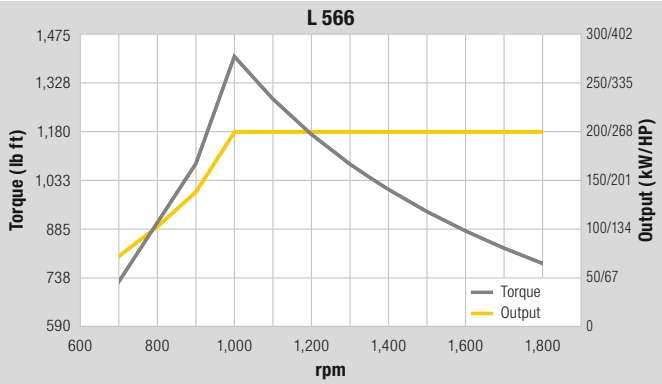
Engine

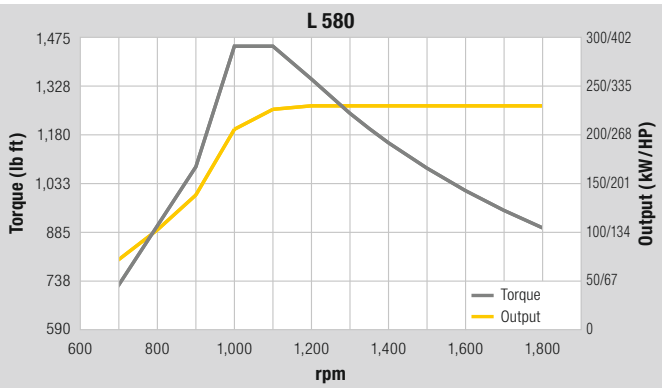
		L 566	L 580	L 586
Diesel engine		D936 A7	D936 A7	D936 A7
Design		Water-cooled in-line engine with charge-air cooling, exhaust gas treatment through Liebherr-SCR technology		
Cylinder inline		6	6	6
Fuel injection process		Electronic Common Rail high-pressure injection		
Max. gross output to ISO 3046 and SAE J1995	kW/HP at RPM	203/272 1,000 – 1,800	233/312 1,200 – 1,800	263/353 1,300 – 1,800
Max. net output to ISO 9249 and SAE J1349	kW/HP at RPM	200/268 1,000 – 1,800	230/308 1,200 – 1,800	260/349 1,300 – 1,800
Rated output to ISO 14396	kW/HP at RPM	200/268 1,800	230/308 1,800	260/349 1,800
Max. net torque to ISO 9249 and SAE J1349	lb ft at RPM	1,409 1,100	1,450 1,100	1,450 1,100
Displacement	in^3	642	642	642
Bore/Stroke	ft in	4.8"/5.91"	4.8"/5.91"	4.8"/5.91"
Air cleaner system		Dry type filter with main and safety element, pre-cleaner, service indicator on the Liebherr display		
Electrical system				
Operating voltage	V	24	24	24
Capacity	Ah	2 x 180	2 x 180	2 x 180
Alternator	V/A	28/180	28/180	28/180
Starter	V/HP	24/10.5	24/10.5	24/10.5

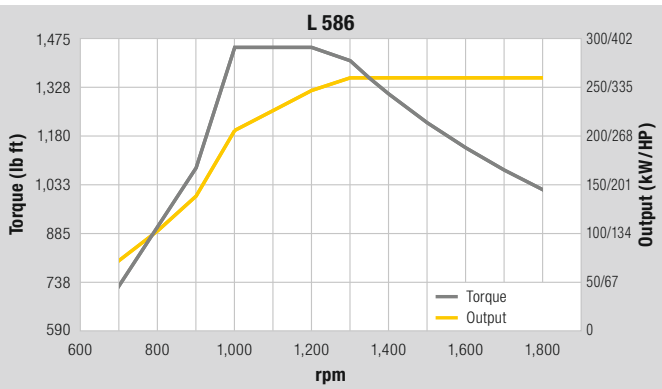
The exhaust emissions are below the limits in Tier 4f.

Driveline

Continuous power split 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 switch is used to control forward and reverse travel
Travel speed range	L 566 – L 580: 0 – 24.9 mph forward and reverse, fully-automatic L 586: 0 – 20.5 mph forward and reverse, fully-automatic Speed restriction available upon request. Speeds quoted apply with the standard tires as indicated on loader model.







Axles

		L 566	L 580	L 586
Four-wheel drive				
Front axle		Fixed		
Rear axle		Center pivot, with 13° oscillating angle to each side		
Height of obstacles which can be driven over	ft in	1'7.4"	1'6.6"	1'8.6"
		with all four wheels remaining in contact with the ground		
Differentials		Automatic limited-slip differentials		
Reduction gear		Planetary final drive in wheel hubs		
Track width		7'4" with all types of tires (L 566, L 580) 8' with all types of tires (L 586)		

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.

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 580) 37° to each side (L 586)
Emergency steering	Electro-hydraulic emergency steering system

Attachment Hydraulics

		L 566	L 580	L 586
Design		"Load-sensing" swash plate type variable flow pump with output and flow control, and pressure cut-off in the control block		
Cooling		Hydraulic oil cooling using thermostatically controlled fan and oil cooler		
Filtration		Return line filter in the hydraulic reservoir		
Control		Liebherr control lever, electro-hydraulically operated		
Lift circuit		Lifting, neutral, lowering Automatic lift arm position and lowering by Liebherr control lever Float position controlled by Liebherr control lever		
Tilt circuit		Tilt back, neutral, dump Automatic bucket return for tilting back and dumping controlled by Liebherr control lever		
Max. flow	gpm	77	84	108
Max. pressure				
Z-bar linkage	psi	5,076	5,511	4,786
Industrial lift arm	psi	5,511	5,511	

Attachment

		L 566		L 580		L 586
Geometry variants						
Optional		Powerful Z-bar linkage with tilt cylinder and cast steel cross-tube				
		Industrial lift arm with tilt cylinder, hydraulic quick coupler standard (L 566, L 580)				
Bearings		Sealed				
Cycle time at nominal load		ZK	IND	ZK	IND	ZK
Lifting	s	6.1	6.1	6.2	6.2	6.4
Dumping	s	1.2	2.0	1.4	2.2	1.5
Lowering (empty)	s	3.2	3.2	3.4	3.4	3.6

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 standard (air-cushioned with seat heating adjustable to operator's weight), Liebherr control lever mounted into the operator's seat standard
Cab heating and ventilation	4-zone air conditioning with new improved cooling output standard, electrically heated rear window, all filters are easy to access and replaceable

Sound Level

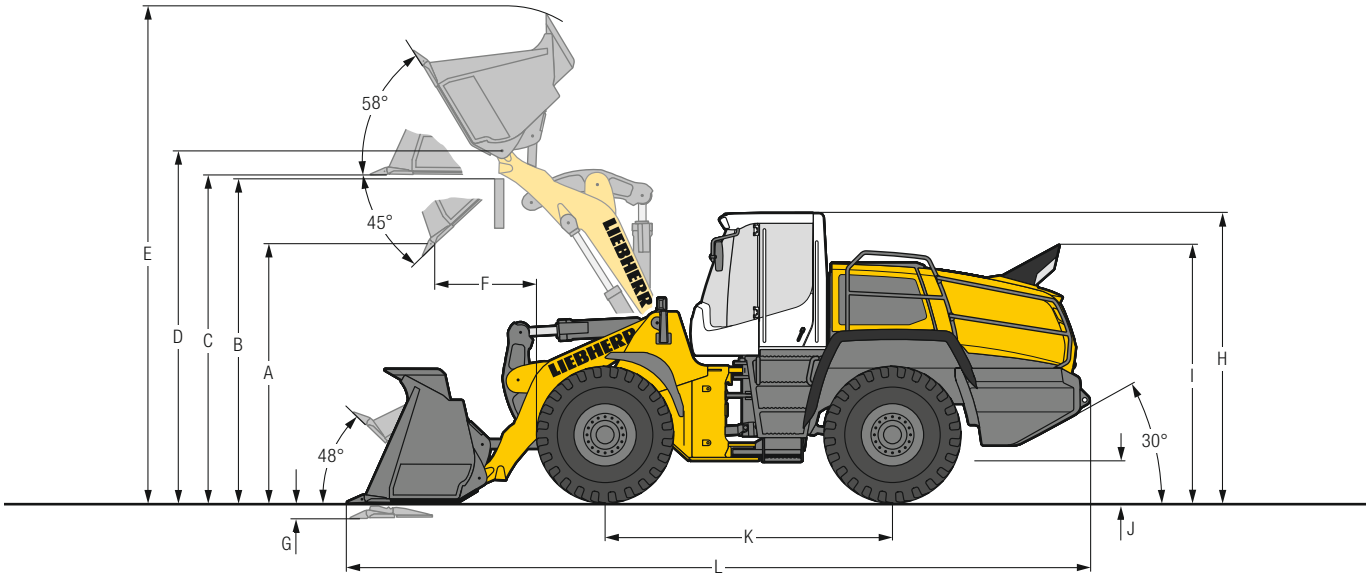
		L 566	L 580	L 586
Sound pressure level to ISO 6396				
L_{pA} (inside cab)	dB(A)	68	68	68
Sound power level to 2000/14/EC				
L_{WA} (surround noise)	dB(A)	105	105	107

Capacities

		L 566	L 580	L 586
Fuel tank	gal	96	96	132
Engine oil (inclusive filter change)	gal	11.1	11.1	11.1
DEF tank	gal	17.8	17.8	17.8
Pump distribution gearbox	gal	0.3	0.3	0.3
XPower® gearbox	gal	14.5	14.5	14.5
Coolant	gal	19.3	19.3	19.3
Front axle	gal	11.1	15.3	15.9
Rear axle	gal	11.1	15.3	15.9
Hydraulic tank	gal	27.7	27.7	25.1
Hydraulic system, total	gal	50.2	50.2	55.5
Air conditioning system R134a	lb	2.8	2.8	2.8

Dimensions

Z-bar Linkage



Excavation Bucket

			L 566		L 580			L 586		
	Geometry		ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK
	Cutting tools		T	T	T	T	BOCE	T	T	ROB
	Lift arm length	**ft in**	9'7"	9'7"	10'	10'	10'	10'4"	10'4"	10'4"
	Bucket capacity according to ISO 7546**	**yd³**	5.5	6.1	6.8	7.5	7.5 [1)]	7.8	8.5	7.2
	Specific material density	**lb/yd³**	3,034	2,697	3,034	2,697	2,865	3,034	2,697	3,034
	Bucket width	**ft in**	9'10"	9'10"	9'10"	10'10"	10'10"	11'3"	12'	11'2"
A	**Dumping height at max. lift height and 45° discharge**	**ft in**	10'6"	10'3"	10'9"	10'7"	10'7"	10'8"	10'8"	10'10"
B	**Dump-over height**	**ft in**	12'10"	12'10"	13'5"	13'5"	13'5"	13'7"	13'7"	13'7"
C	**Max. height of bucket bottom**	**ft in**	13'3"	13'3"	14'	14'	14'	14'2"	14'2"	14'1"
D	**Max. height of bucket pivot point**	**ft in**	14'4"	14'4"	15'	15'	15'	15'3"	15'3"	15'3"
E	**Max. operating height**	**ft in**	20'1"	20'5"	21'5"	21'4"	21'4"	21'5"	21'5"	21'2"
F	**Reach at max. lift height and 45° discharge**	**ft in**	3'11"	4'2"	3'11"	4'3"	4'3"	4'8"	4'8"	4'7"
G	**Digging depth**	**ft in**	4"	4"	4"	4"	4"	4"	4"	6"
H	**Height above operator's cab**	**ft in**	11'9"	11'9"	11'9"	11'9"	11'9"	12'3"	12'3"	12'4"
I	**Height above exhaust**	**ft in**	10'6"	10'6"	10'6"	10'6"	10'6"	10'10"	10'10"	10'11"
J	**Ground clearance**	**ft in**	1'9"	1'9"	1'6"	1'6"	1'6"	1'11"	1'11"	1'11"
K	**Wheelbase**	**ft in**	11'8"	11'8"	12'2"	12'2"	12'2"	12'10"	12'10"	12'10"
L	**Overall length**	**ft in**	30'1"	30'5"	31'7"	31'11"	31'11"	32'9"	32'9"	32'9"
	Turning circle radius over outside bucket edge	**ft in**	24'1"	24'2"	25'	25'6"	25'6"	27'5"	27'7"	27'3"
	Breakout force (SAE)	**lbf**	44,960	42,715	50,580	46,085	44,960	53,955	53,955	55,080
	Tipping load, straight*	**lb**	40,015	39,460	47,950	46,850	48,940	54,015	52,690	56,440
	Tipping load, fully articulated*	**lb**	35,055	34,500	42,330	41,225	42,990	47,620	46,295	49,605
	Operating weight*	**lb**	52,690	52,910	60,955	61,290	63,490	71,870	72,860	74,295
	Tire size		26.5R25 L3		26.5R25 L3			29.5R25 L3		29.5R25 L5

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

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

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

= Excavation bucket with back grading edge for direct mounting

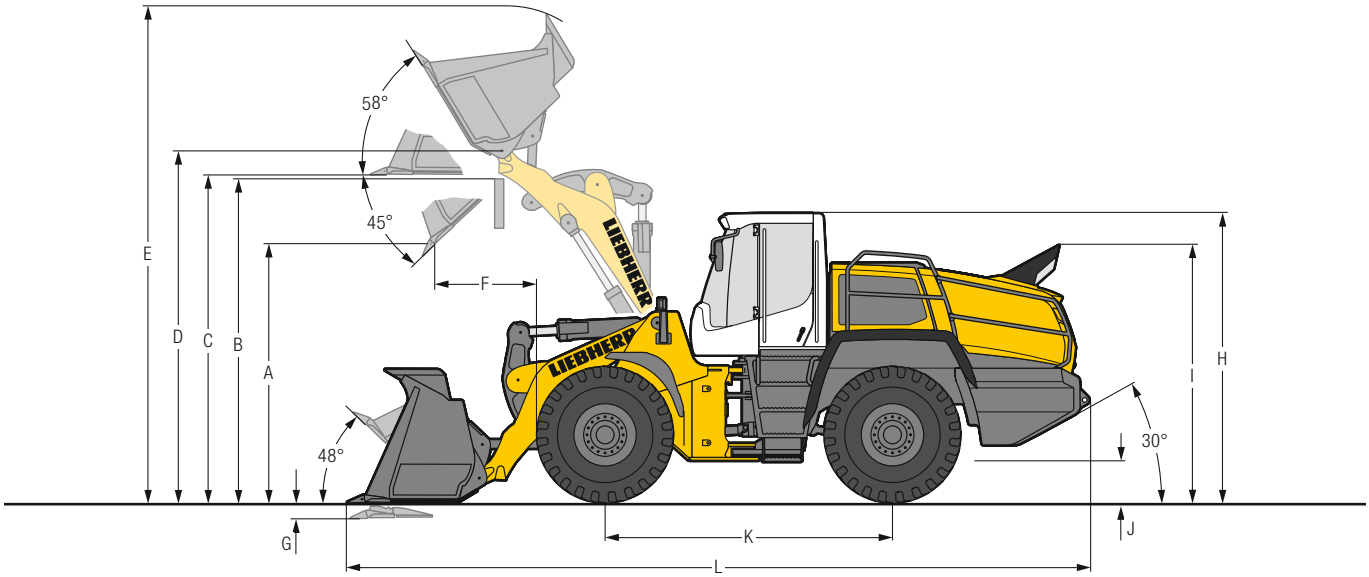
= Rehandling bucket for direct mounting

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

ZK = Z-bar linkage
T = Welded-on tooth holder with add-on teeth
BOCE = Bolt-on cutting edge
ROB = Rock bucket with delta cutting edge, welded-on tooth holder with add-on teeth and bolted intermediate sections

Dimensions

Z-bar Linkage High Lift



Loading Bucket

			L 566		L 580			L 586		
	Geometry		ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK
	Cutting tools		T	T	T	T	BOCE	T	T	ROB
	Lift arm length	**ft in**	10'8"	10'8"	10'8"	10'8"	10'8"	11'4"	11'4"	11'4"
	Bucket capacity according to ISO 7546**	**yd³**	4.8	5.5	6.1	6.8	6.8 [1)]	7.2	7.8	6.5
	Specific material density	**lb/yd³**	3,034	2,697	3,034	2,697	2,865	3,034	2,697	3,034
	Bucket width	**ft in**	9'10"	9'10"	9'10"	9'10"	9'10"	11'2"	11'2"	11'2"
A	**Dumping height at max. lift height and 45° discharge**	**ft in**	12'2"	12'	11'8"	11'5"	11'3"	12'3"	12'	12'3"
B	**Dump-over height**	**ft in**	14'1"	14'1"	14'1"	14'1"	14'1"	14'9"	14'9"	14'9"
C	**Max. height of bucket bottom**	**ft in**	14'8"	14'8"	14'8"	14'8"	14'8"	15'7"	15'7"	15'8"
D	**Max. height of bucket pivot point**	**ft in**	15'8"	15'8"	15'8"	15'8"	15'8"	16'7"	16'7"	16'8"
E	**Max. operating height**	**ft in**	21'2"	21'6"	21'10"	22'1"	22'	22'10"	22'11"	22'4"
F	**Reach at max. lift height and 45° discharge**	**ft in**	3'8"	3'11"	3'11"	4'2"	4'5"	4'6"	4'8"	4'6"
G	**Digging depth**	**ft in**	6"	6"	6"	6"	6"	4"	4"	6"
H	**Height above operator's cab**	**ft in**	11'9"	11'9"	11'9"	11'9"	11'9"	12'3"	12'3"	12'4"
I	**Height above exhaust**	**ft in**	10'6"	10'6"	10'6"	10'6"	10'6"	10'10"	10'10"	10'11"
J	**Ground clearance**	**ft in**	1'9"	1'9"	1'6"	1'6"	1'6"	1'11"	1'11"	1'11"
K	**Wheelbase**	**ft in**	11'8"	11'8"	12'2"	12'2"	12'2"	12'10"	12'10"	12'10"
L	**Overall length**	**ft in**	31'2"	31'6"	32'1"	32'5"	32'9"	33'8"	33'9"	33'10"
	Turning circle radius over outside bucket edge	**ft in**	24'6"	24'8"	25'2"	25'4"	25'5"	27'11"	28'1"	27'9"
	Breakout force (SAE)	**lbf**	47,210	44,960	53,955	50,580	50,580	56,200	53,955	58,450
	Tipping load, straight*	**lb**	34,945	34,500	44,535	44,090	45,415	49,385	47,840	50,045
	Tipping load, fully articulated*	**lb**	30,535	30,095	39,240	38,800	40,125	43,430	41,885	44,090
	Operating weight*	**lb**	52,910	53,130	60,955	61,180	63,050	71,870	72,750	74,735
	Tire size		26.5R25 L3		26.5R25 L3			29.5R25 L3		29.5R25 L5

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

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

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

= Excavation bucket with back grading edge for direct mounting

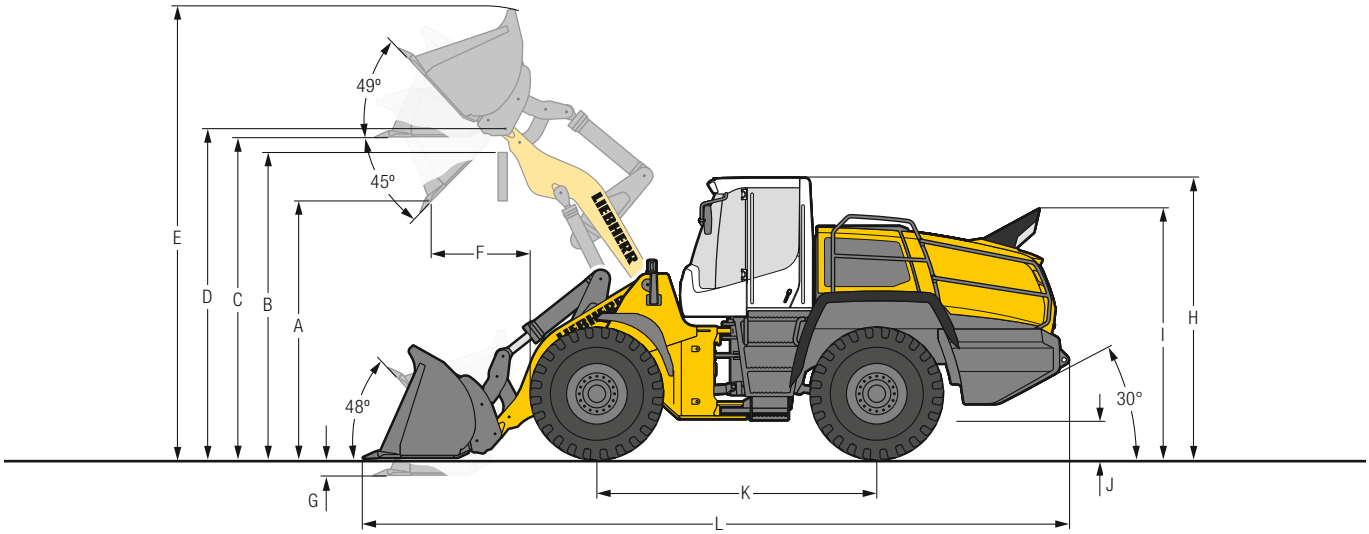
= Rehandling bucket for direct mounting

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

ZK = Z-bar linkage
T = Welded-on tooth holder with add-on teeth
BOCE = Bolt-on cutting edge
ROB = Rock bucket with delta cutting edge, welded-on tooth holder with add-on teeth and bolted intermediate sections

Dimensions

Industrial Lift Arm



Excavation Bucket

			L 566		L 580	
	Geometry		IND-QC	IND-QC	IND-QC	IND-QC
	Cutting tools		T	T	T	T
	Lift arm length	**ft in**	9'6"	9'6"	9'6"	9'6"
	Bucket capacity according to ISO 7546**	**yd³**	4.6	5.2	5.9	6.5
	Specific material density	**lb/yd³**	3,034	2,697	3,034	2,697
	Bucket width	**ft in**	9'10"	9'10"	9'10"	9'10"
A	**Dumping height at max. lift height and 45° discharge**	**ft in**	10'6"	10'4"	10'1"	9'10"
B	**Dump-over height**	**ft in**	12'10"	12'10"	12'10"	12'10"
C	**Max. height of bucket bottom**	**ft in**	13'7"	13'7"	13'7"	13'7"
D	**Max. height of bucket pivot point**	**ft in**	14'9"	14'9"	14'9"	14'9"
E	**Max. operating height**	**ft in**	19'10"	20'3"	20'7"	20'9"
F	**Reach at max. lift height and 45° discharge**	**ft in**	4'2"	4'5"	4'3"	4'
G	**Digging depth**	**ft in**	4"	4"	4"	4"
H	**Height above operator's cab**	**ft in**	11'9"	11'9"	11'9"	11'9"
I	**Height above exhaust**	**ft in**	10'6"	10'6"	10'6"	10'6"
J	**Ground clearance**	**ft in**	1'9"	1'9"	1'6"	1'6"
K	**Wheelbase**	**ft in**	11'11"	11'11"	12'2"	12'2"
L	**Overall length**	**ft in**	30'5"	30'9"	31'4"	31'8"
	Turning circle radius over outside bucket edge	**ft in**	24'4"	24'5"	24'10"	24'11"
	Breakout force (SAE)	**lbf**	44,960	41,590	44,960	41,590
	Tipping load, straight*	**lb**	37,700	36,705	44,425	43,430
	Tipping load, fully articulated*	**lb**	33,070	32,075	39,130	38,140
	Operating weight*	**lb**	54,675	55,005	61,840	62,170
	Tire size		26.5R25 L3		26.5R25 L3	

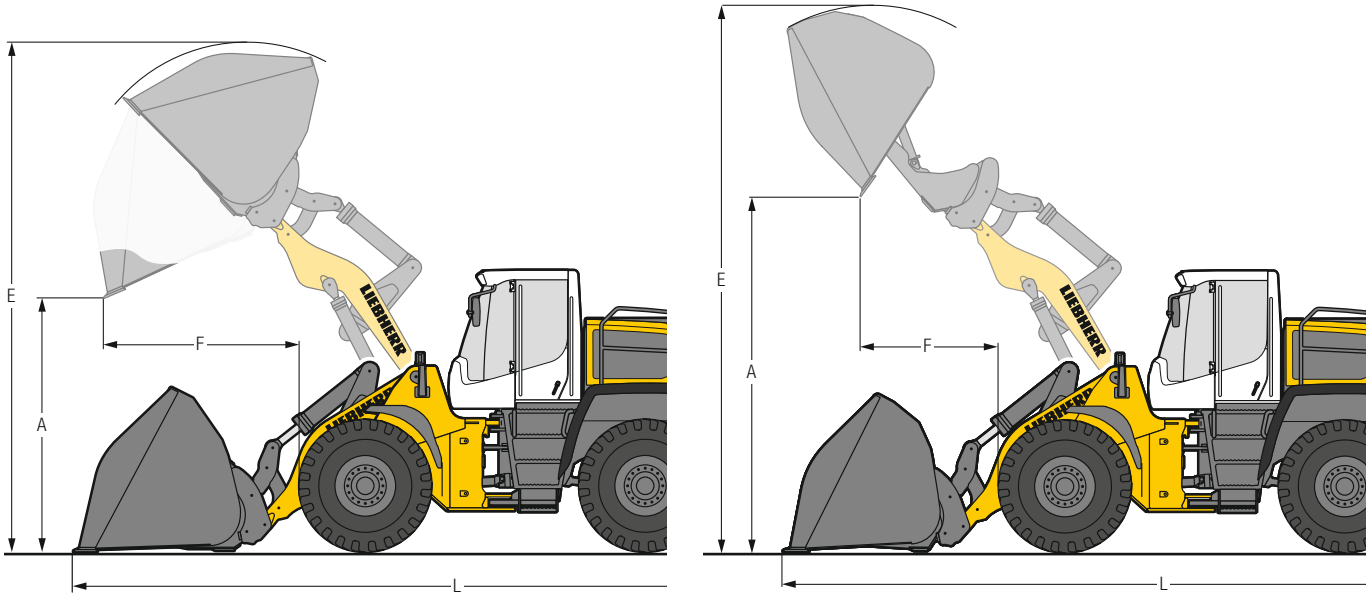
* The figures shown include the above tires, all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tires and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

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

IND-QC = Industrial lift arm with parallel guidance incl. quick coupler
T = Welded-on tooth holder with add-on teeth

Attachment

Light Material Bucket and High-Dump Bucket



Light Material Bucket

			L 566		L 580		L 586
	Geometry		IND-QC	IND-QC	IND-QC	IND-QC	ZK
	Cutting tools		BOCE	BOCE	BOCE	BOCE	BOCE
	Bucket capacity	**yd³**	8.5	15.7	9.8	18.3	11.1
	Specific material density	**lb/yd³**	1,686	758	1,686	758	1,854
	Bucket width	**ft in**	10'6"	12'2"	11'2"	13'1"	11'6"
A	**Dumping height at max. lift height**	**ft in**	9'6"	8'7"	9'3"	8'2"	9'8"
E	**Max. operating height**	**ft in**	21'3"	22'	21'7"	22'4"	22'5"
F	**Reach at maximum lift height**	**ft in**	4'10"	6'1"	5'1"	6'5"	5'10"
L	**Overall length**	**ft in**	31'4"	32'11"	31'10"	33'6"	33'6"
	Tipping load, straight*	**lb**	34,610	32,185	30,645	39,460	52,910
	Tipping load, fully articulated*	**lb**	30,205	27,780	37,260	34,170	46,295
	Operating weight*	**lb**	55,885	57,980	63,160	65,255	72,310
	Tire size		26.5R25 L3		26.5R25 L3		29.5R25 L3

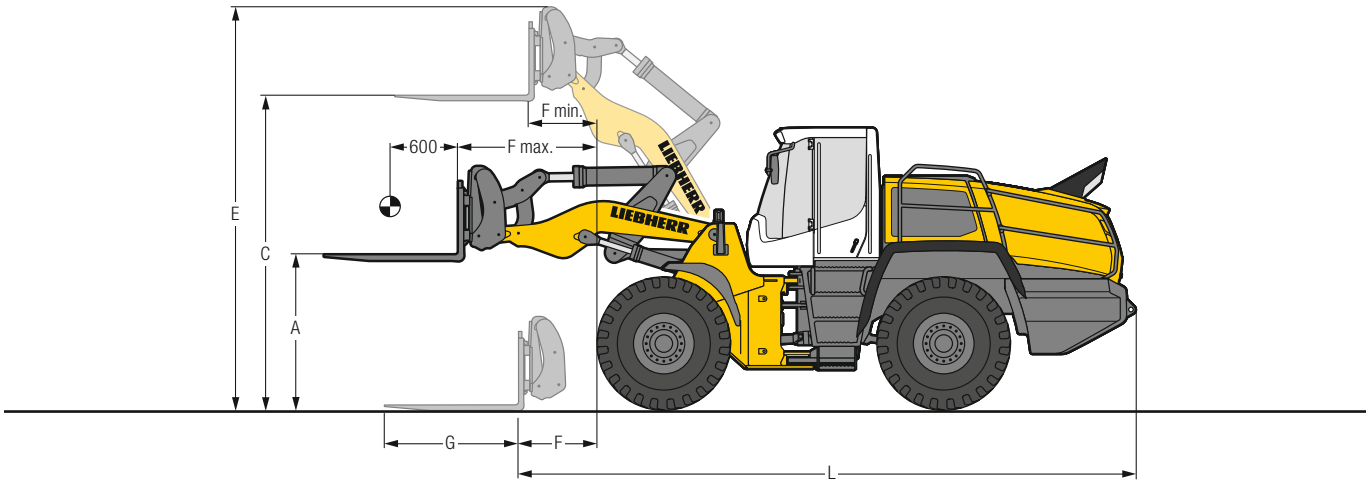
High-Dump Bucket

			L 566		L 580		L 586
	Geometry		IND-QC	IND-QC	IND-QC	IND-QC	ZK
	Cutting tools		BOCE	BOCE	BOCE	BOCE	BOCE
	Bucket capacity	**yd³**	7.8	14.4	9.2	17.0	11.1
	Specific material density	**lb/yd³**	1,686	758	1,686	758	1,686
	Bucket width	**ft in**	10'6"	12'2"	10'6"	13'1"	11'6"
A	**Dumping height at max. lift height**	**ft in**	16'10"	15'11"	16'4"	15'8"	16'9"
E	**Max. operating height**	**ft in**	23'8"	24'7"	24'4"	25'1"	25'3"
F	**Reach at maximum lift height**	**ft in**	5'10"	7'	6'8"	6'9"	6'7"
L	**Overall length**	**ft in**	32'2"	33'3"	33'	33'10"	34'5"
	Tipping load, straight*	**lb**	32,410	31,085	39,240	37,700	51,145
	Tipping load, fully articulated*	**lb**	28,000	26,675	34,170	32,630	44,755
	Operating weight*	**lb**	57,320	59,305	64,155	66,360	73,855
	Tire size		26.5R25 L3		26.5R25 L3		29.5R25 L3

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

IND-QC = Industrial lift arm with parallel guidance incl. quick coupler
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-QC	IND-QC
A	**Lifting height at max. reach**	**ft in**	6'10"	6'10"
C	**Max. lifting height**	**ft in**	13'9"	13'10"
E	**Max. operating height**	**ft in**	17'1"	17'1"
F	**Reach at loading position**	**ft in**	3'9"	3'4"
F max.	**Max. reach**	**ft in**	6'4"	5'11"
F min.	**Reach at max. lifting height**	**ft in**	3'3"	2'10"
G	**Fork length**	**ft in**	5'11"	5'11"
L	**Length – basic machine**	**ft in**	26'7"	26'10"
	Tipping load, straight*	**lb**	29,760	35,935
	Tipping load, fully articulated*	**lb**	26,235	31,745
	Recommended payload for uneven ground = 60 % of tipping load, articulated[1)]	**lb**	15,740	19,050
	Recommended payload for smooth surfaces = 80 % of tipping load, articulated[1)]	**lb**	20,990	22,045[2)]
	Operating weight*	**lb**	52,800	59,305
	Tire size		26.5R25 L3	26.5R25 L3

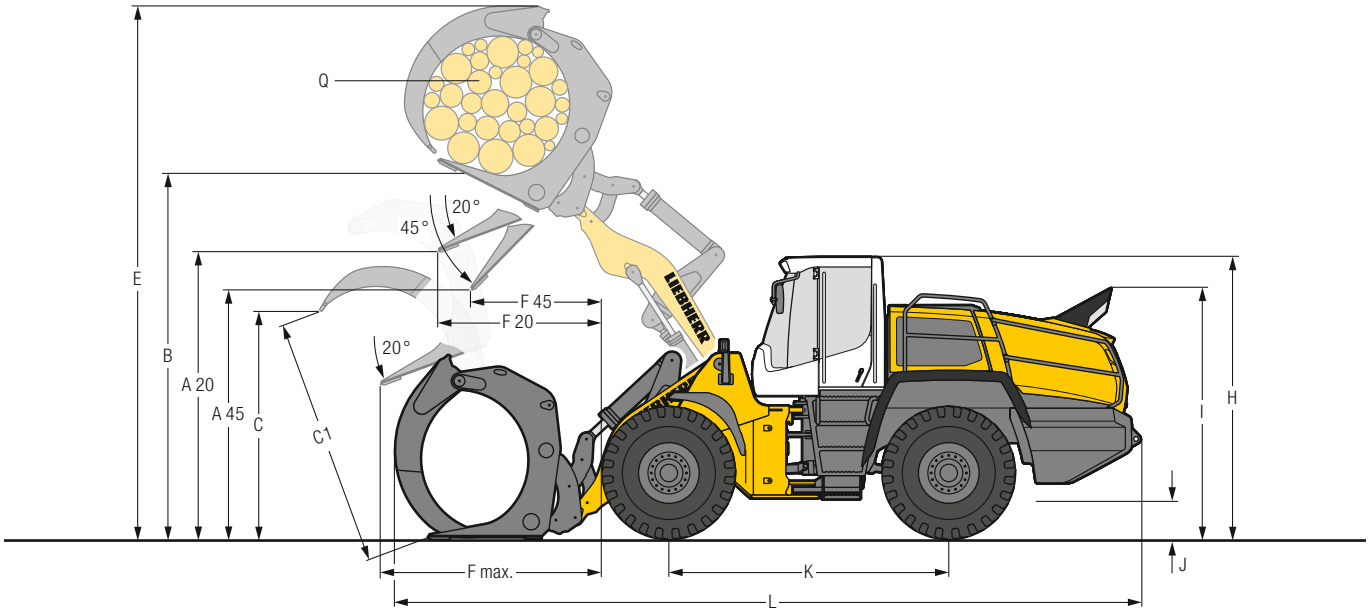
* The figures shown include the above tires, all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tires and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

[1)] According to EN 474-3

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

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

Attachment
Log Grapple



Log Grapple

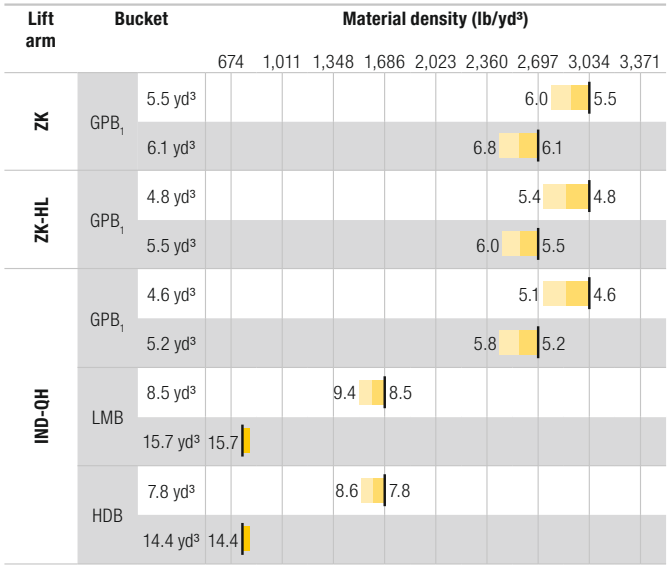
			L 566	L 580
	Geometry		IND-QC	IND-QC
A20	**Discharge height at 20°**	**ft in**	11'9"	11'7"
A45	**Discharge height at 45°**	**ft in**	9'7"	9'2"
B	**Manipulation height**	**ft in**	16'10"	16'10"
C	**Max. grapple opening in loading position**	**ft in**	8'8"	9'7"
C1	**Max. grapple opening**	**ft in**	10'	10'11"
E	**Max. height**	**ft in**	24'3"	24'7"
F20	**Reach at max. lifting height at 20° discharge**	**ft in**	7'1"	7'3"
F45	**Reach at max. lifting height at 45° discharge**	**ft in**	5'4"	5'4"
F max.	**Max. reach**	**ft in**	10'2"	10'4"
H	**Height above operator's cab**	**ft in**	11'10"	11'10"
I	**Height above exhaust**	**ft in**	10'7"	10'7"
J	**Ground clearance**	**ft in**	1'10"	1'7"
K	**Wheelbase**	**ft in**	11'11"	12'2"
L	**Overall length**	**ft in**	32'2"	33'
	Width over tires	**ft in**	9'9"	9'9"
Q	**Grapple diameter**	**yd²**	3.70	4.20
	Grapple width	**ft in**	5'11"	5'11"
	Payload*	**lb**	18,080	20,280
	Operating weight*	**lb**	59,415	65,805
	Tire size		26.5R25 L4	26.5R25 L4

* The figures shown include the above tires, all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tires and optional equipment will change the operating weight and payload.

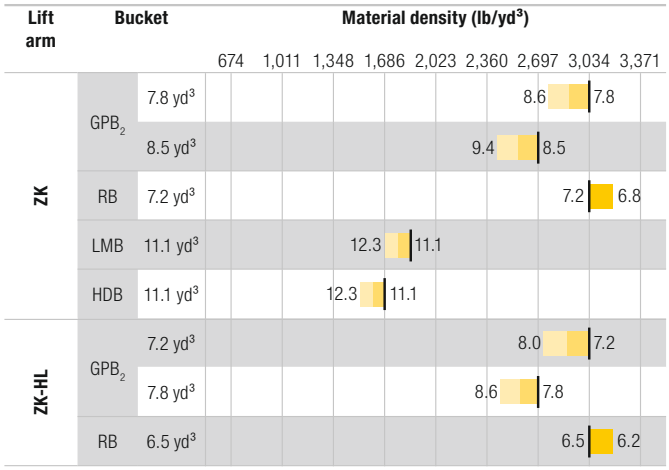
IND-QC = Industrial lift arm with parallel guidance incl. quick coupler

Bucket Selection

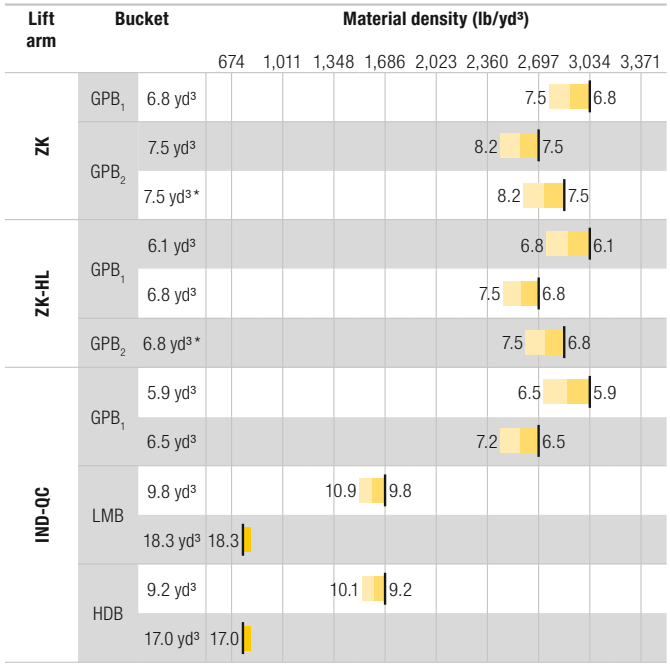
L 566



L 586



L 580



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

Bucket Filling Factor

110% 105% 100% 95%

Lift Arm

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

Bucket

GPB$_1$	General purpose bucket (Excavation bucket)
GPB$_2$	General purpose bucket (Rehandling bucket)
RB	Rock bucket
LMB	Light material bucket
HDB	High-dump bucket

Bulk Material Densities and Bucket Filling Factors

		lb/yd³	%
Gravel	moist	3,203	105
	dry	2,697	105
	crushed stone	2,528	100
Sand	dry	2,528	105
	wet	3,203	110
Gravel and Sand	dry	2,865	105
	wet	3,371	100
Sand / Clay		2,697	110
Clay	natural	2,697	110
	dry	2,360	110
Clay / Gravel	dry	2,360	110
	wet	2,697	100

		lb/yd³	%
Earth	dry	2,191	115
	wet excavated	2,697	110
Topsoil		1,854	110
Basalt		3,287	100
Granite		3,034	95
Sandstone		2,697	100
Slate		2,950	100
Bauxite		2,360	100
Limestone		2,697	100
Gypsum	broken	3,034	100
Coke		843	110
Slag	broken	3,034	100

		lb/yd³	%
Glass waste	broken	2,360	100
	solid	1,686	100
Compost	dry	1,348	105
	wet	1,686	110
Wood chips / Saw dust		843	110
Paper	shredded / loose	1,011	110
	recovered paper / cardboard	1,686	110
Coal	heavy material density	2,023	110
	light material density	1,517	110
Waste	domestic waste	843	100
	bulky waste	1,686	100

Tipping Load

ISO 14397-1

What is tipping load?
Load at center 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 center 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.

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

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

Tires

Tire Types

	Size and tread code		Change of operating weight lb	Width over tires ft in	Change in vertical dimensions* ft in	Use
L 566 XPower®						
Bridgestone	26.5R25 VJT	L3	353	9'9"	0.55"	Bulk material (firm ground conditions)
Bridgestone	26.5R25 VLTS	L4	926	9'9"	1.73"	Gravel, Industry (firm ground conditions)
Bridgestone	26.5R25 VSDT	L5	2,288	9'9"	1.97"	Stone, Mining spoil (firm ground conditions)
Bridgestone	26.5R25 VSDL	L5	2,844	9'9"	2.24"	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	26.5R25 VSMS	L5	3,525	9'9"	2.76"	Scrap, Recycling, Slag (firm ground conditions)
Bridgestone	26.5R25 VSNT	L4	1,270	9'9"	1.85"	Gravel, Industry, Wood (firm ground conditions)
Bridgestone	750/65R25 VTS	L3	428	10'1"	– 1.54"	Gravel, Industry, Wood (all ground conditions)
Continental	26.5R25 EM-Master	L4	1,164	9'7"	1.89"	Gravel, Industry, Wood (firm ground conditions)
Goodyear	26.5R25 RT-3B	L3	714	9'9"	1.02"	Gravel (all ground conditions)
Goodyear	26.5R25 TL-3A+	L3	767	9'9"	1.18"	Sand, Gravel, Earthworks, Clay (all ground conditions)
Goodyear	26.5R25 GP-4D	L4	961	9'9"	1.02"	Gravel, Industry, Wood (firm ground conditions)
Goodyear	26.5R25 RL-4K	L4	1,711	9'10"	2.48"	Gravel, Industry, Stone (firm ground conditions)
Goodyear	26.5R25 RL-5K	L5	2,743	9'10"	2.48"	Stone, Scrap, Recycling (firm ground conditions)
Goodyear	26.5R25 RL-5S	L5	3,219	9'10"	2.48"	Scrap, Recycling, Slag (firm ground conditions)
Goodyear	26.5R25 RT-5D	L5	2,222	9'10"	2.48"	Stone, Mining spoil (firm ground conditions)
Goodyear	750/65R25 TL-3A+	L3	326	10'2"	– 1.02"	Sand, Gravel, Industry, Wood (all ground conditions)
Michelin	26.5R25 XHA2	L3	0	9'9"	0"	Sand, Gravel (all ground conditions)
Michelin	26.5R25 X MINE PRO	L5	2,619	9'11"	2.28"	Stone, Scrap, Recycling (firm ground conditions)
Michelin	26.5R25 XLD D2A	L5	1,534	9'9"	1.50"	Stone, Mining spoil (firm ground conditions)
Michelin	26.5R25 XTXL	L4	1,076	9'9"	0.91"	Gravel, Industry, Wood (firm ground conditions)
Michelin	750/65R25 XLD 65	L3T	– 18	10'	– 2.24"	Gravel, Industry, Wood (all ground conditions)
L 580 XPower®						
Bridgestone	26.5R25 VJT	L3	0	9'9"	0"	Bulk material (firm ground conditions)
Bridgestone	26.5R25 VLTS	L4	573	9'9"	1.18"	Gravel, Industry (firm ground conditions)
Bridgestone	26.5R25 VSDT	L5	1,936	9'9"	1.42"	Stone, Mining spoil (firm ground conditions)
Bridgestone	26.5R25 VSDL	L5	2,491	9'9"	1.69"	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	26.5R25 VSMS	L5	3,172	9'9"	2.20"	Scrap, Recycling, Slag (firm ground conditions)
Bridgestone	26.5R25 VSNT	L4	917	9'9"	1.30"	Gravel, Industry, Wood (firm ground conditions)
Bridgestone	750/65R25 VTS	L3	– 163	10'1"	– 2.09"	Gravel, Industry, Wood (all ground conditions)
Continental	26.5R25 EM-Master	L4	811	9'7"	1.34"	Gravel, Industry, Wood (firm ground conditions)
Goodyear	26.5R25 RT-3B	L3	362	9'9"	0.47"	Gravel (all ground conditions)
Goodyear	26.5R25 TL-3A+	L3	414	9'9"	0.63"	Sand, Gravel, Earthworks, Clay (all ground conditions)
Goodyear	26.5R25 GP-4D	L4	608	9'9"	0.47"	Gravel, Industry, Wood (firm ground conditions)
Goodyear	26.5R25 RL-4K	L4	1,358	9'10"	1.93"	Gravel, Industry, Stone (firm ground conditions)
Goodyear	26.5R25 RL-5K	L5	2,390	9'10"	1.93"	Stone, Scrap, Recycling (firm ground conditions)
Goodyear	26.5R25 RL-5S	L5	2,866	9'10"	1.93"	Scrap, Recycling, Slag (firm ground conditions)
Goodyear	26.5R25 RT-5D	L5	1,870	9'10"	1.93"	Stone, Mining spoil (firm ground conditions)
Goodyear	750/65R25 TL-3A+	L3	– 262	10'2"	– 1.57"	Sand, Gravel, Industry, Wood (all ground conditions)
Michelin	26.5R25 XHA2	L3	– 353	9'9"	– 0.55"	Sand, Gravel (all ground conditions)
Michelin	26.5R25 X MINE PRO	L5	2,266	9'11"	1.73"	Stone, Scrap, Recycling (firm ground conditions)
Michelin	26.5R25 XLD D2A	L5	1,182	9'9"	0.94"	Stone, Mining spoil (firm ground conditions)
Michelin	26.5R25 XTXL	L4	723	9'9"	0.35"	Gravel, Industry, Wood (firm ground conditions)
Michelin	750/65R25 XLD 65	L3T	– 606	10'	– 2.80"	Gravel, Industry, Wood (all ground conditions)
L 586 XPower®						
Bridgestone	29.5R25 VJT	L3	0	10'8"	0"	Bulk material (firm ground conditions)
Bridgestone	29.5R25 VLTS	L4	573	10'9"	0.98"	Gravel, Stone (firm ground conditions)
Bridgestone	29.5R25 VSDT	L5	2,698	10'9"	1.38"	Stone, Mining spoil (firm ground conditions)
Bridgestone	29.5R25 VSDL	L5	3,492	10'9"	1.77"	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	29.5R25 VSNT	L4	1,248	10'9"	1.38"	Gravel, Industry, Wood (firm ground conditions)
Continental	29.5R25 EM-Master	L4	789	10'9"	0.98"	Gravel, Industry, Wood (firm ground conditions)
Goodyear	29.5R25 TL-3A+	L3	851	10'10"	0.83"	Sand, Gravel, Earthworks, Clay (all ground conditions)
Goodyear	29.5R25 GP-4D	L4	789	10'8"	0.35"	Gravel, Industry, Wood (firm ground conditions)
Goodyear	29.5R25 RL-4K	L4	2,156	10'9"	1.14"	Gravel, Industry, Stone (firm ground conditions)
Goodyear	29.5R25 RL-5K	L5	3,205	10'10"	2.01"	Stone, Scrap, Recycling (firm ground conditions)
Goodyear	29.5R25 RT-5D	L5	3,003	10'10"	1.61"	Stone, Mining spoil (firm ground conditions)
Goodyear	29.5R25 RL-5S	L5	4,288	10'9"	2.01"	Scrap, Recycling, Slag (firm ground conditions)
Michelin	29.5R25 XHA2	L3	– 322	10'8"	– 0.59"	Sand, Gravel (all ground conditions)
Michelin	29.5R25 XLD D2A	L5	1,742	10'8"	0.43"	Stone, Mining spoil (firm ground conditions)
Michelin	29.5R25 XTXL	L4	1,014	10'9"	0.43"	Gravel, Industry, Wood (firm ground conditions)
Michelin	29.5R25 X MINE PRO	L5	2,791	10'10"	1.06"	Stone, Scrap, Recycling (firm ground conditions)

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

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

The Liebherr Wheel Loaders

Wheel Loader




		L 526	L 538	L 546	L 550 XPower®
Tipping load	**lb**	16,975	20,945	23,150	26,895
Bucket capacity	**yd³**	2.7	3.4	3.7	4.2
Operating weight	**lb**	24,800	29,760	31,305	39,020
Engine output (ISO 14396)	**kW/HP**	100/134	111/149	120/161	140/188

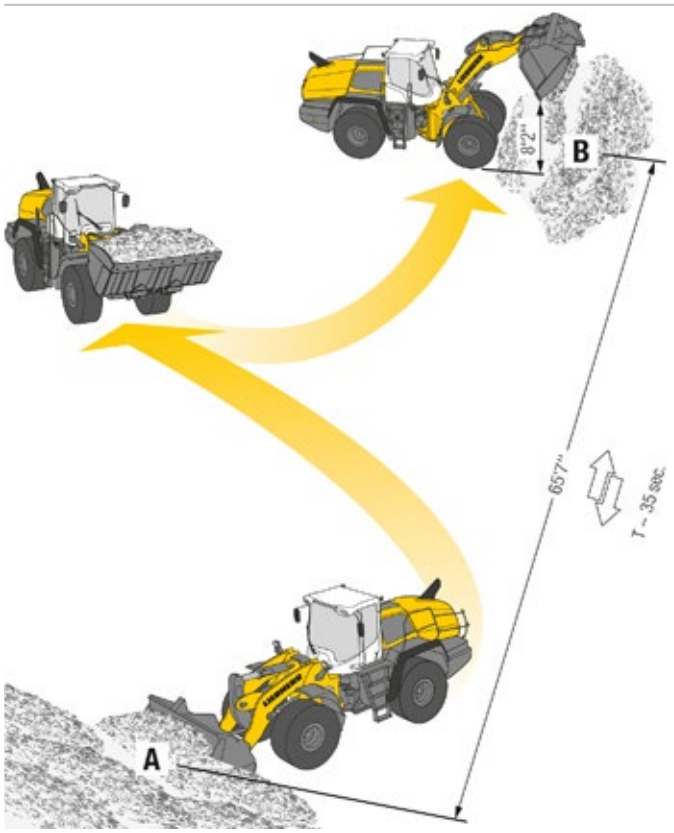
Wheel Loader




		L 556 XPower®	L 566 XPower®	L 580 XPower®	L 586 XPower®
Tipping load	**lb**	30,205	35,055	42,330	47,620
Bucket capacity	**yd³**	4.7	5.5	6.8	7.8
Operating weight	**lb**	40,565	52,690	60,955	71,870
Engine output (ISO 14396)	**kW/HP**	165/221	200/268	230/308	260/349

12.18

Environmental Protection Can Help You Earn Money!



The Liebherr Standard Consumption Test – easy to reproduce and practical.
The Liebherr Standard Consumption Test determines the number of loading cycles that can be carried out with 1.3 gal of diesel. The material is taken from pile A and carried over a distance of 65'7" 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 8'2". The working cycles continue until the 1.3 gal of diesel in the external measuring tank have been used up. The loader's fuel consumption per operating hour is calculated as follows:

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

Values for the Liebherr wheel loaders

	Numbers of working cycles	Gallons/100 US tons	Gallons/hour	Ø Gallons/hour*
L 526: 2.7 yd³	n = 48	0.82	2.19	1.59
L 538: 3.4 yd³	n = 40	0.79	2.64	1.80
L 546: 3.7 yd³	n = 38	0.76	2.77	1.86
L 550: 4.2 yd³	n = 32	0.79	3.30	2.37
L 556: 4.7 yd³	n = 29	0.79	3.65	2.61
L 566: 5.5 yd³	n = 22	0.87	4.81	3.15
L 580: 6.8 yd³	n = 20	0.79	5.28	3.61
L 586: 7.8 yd³	n = 15	0.90	7.05	4.32

* Wheel loader in practical customer applications with individual machine configurations. Average data from LiDAT from 18.10.2019.

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

Equipment

Basic Wheel Loader	L 550	L 556	L 566	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 13 lb	+	+	+	+	+
Particle protection for radiator	+	+	+	+	+
Speed limitor 12.4 mph as a factory preset	+	+	+	+	+
Speed limitor V_{max} adjustable key on the control unit	•	•	•	•	•
DEF tank	•	•	•	•	•
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	+	+	+	+	+
Liebherr-SCR technology	•	•	•	•	•
Reversible fan drive	•	•	•	•	•
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)	+	+	+	+	+
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”	+	+	+	+	+
Towing hitch	•	•	•	•	•
Additional handrails left	•	•	•	•	•
Additional handrails right	•	•	•	•	•

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

Operator's Cab

	L 550	L 556	L 566	L 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-suspension with seat heating	•	•	•	•	•
Operator seat "Premium" – active air-suspension with seat air-condition, seat heating and headrest	+	+	+	+	+
Particle filter F7	•	•	•	•	•
Fire extinguisher in cab 4 lb	•	•	•	•	•
Rear window heated electrically	•	•	•	•	•
Audible horn control integrated into Liebherr control lever	+	+	+	+	+
Interior mirror right	•	•	•	•	•
Interior mirror left and right	+	+	+	+	+
Integral tire pressure monitoring system	+	+	+	+	+
Joystick steering	+	+	+	+	+
Floor mat	•	•	•	•	•
Clothes hooks (2 pieces)	•	•	•	•	•
Air conditioning system	•	•	•	•	•
Automatic air conditioning system	+	+	+	+	+
Cool box	+	+	+	+	+
3 way continuously adjustable steering column (height-adjustable, tilting, folding)	•	•	•	•	•
Steering stabilisation	•	•	•	•	•
LiDAT total use 1 year (for free)	•	•	•	•	•
Liebherr control lever with mini-joystick for 3rd and 4th electro-hydraulic proportional control circuit moving with operator's seat	+	+	+	+	+
Liebherr control lever moving with operator's seat (incl. kick down, travel direction)	•	•	•	•	•
Liebherr multi-lever control system moving with operator's seat (incl. kick down, travel direction)	+	+	+	+	+
Liebherr key with remote control incl. Coming Home / Leaving Home function	+	+	+	+	+
Premiumdisplay (Touchscreen), with height adjustment and tilting function	•	•	•	•	•
Preparation for radio installation	•	•	•	•	•
Radio Liebherr "Comfort" (SD/USB/AUX/BLUETOOTH/handsfree set)	+	+	+	+	+
Radio Liebherr "Standard" (SD/USB/AUX)	+	+	+	+	+

Operator's Cab

	L 550	L 556	L 566	L 580	L 586
Amber beacon swiveling/fixed	+	+	+	+	+
Soundproof ROPS/FOPS cab	•	•	•	•	•
Bucket return with button integrated into Liebherr control lever	+	+	+	+	+
Wipe and wash system	•	•	•	•	•
Windscreen wiper single-sweep function with button	+	+	+	+	+
Headlights rear, single design, halogen/LED	+	+	+	+	+
Headlights rear, double design, LED	+	+	+	+	+
Headlights front, double design, halogen	•	•	•	•	•
Headlights front, double design, LED	+	+	+	+	+
Sliding window left/right	•	•	•	•	•
Slipcover for operator seat	+	+	+	+	+
Windscreen guard	+	+	+	+	+
Sunblind rear	+	+	+	+	+
Sunblind front	•	•	•	•	•
Power socket 12 V	•	•	•	•	•
Power socket USB	•	•	•	•	•
First aid kit	+	+	+	+	+
Preparation for protective ventilation and dust filtrating device	+	+	+	+	+
Wide angle mirror	+	+	+	+	+
Cigarette lighter	•	•	•	•	•
2-in-1 steering – changeable	+	+	+	+	–

Safety

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

• = Standard
+ = Option
– = not available

Further information can be found in the brochure "Assistance systems for wheel loaders".

The Liebherr Group of Companies

Diverse Product Range
The Liebherr Group is one of the largest construction equipment manufacturers in the world. Liebherr's quality products and services hold a high reputation in many industries. 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 superior quality, Liebherr products offer customers the highest benefits in practical applications.

State-of-the-art Technology
Liebherr attributes great importance to the product areas of core technology and components, in order to achieve its consistent, top-quality products. Important modules and components are developed and manufactured in-house, for instance, the entire drive and control technology for the construction equipment and mining trucks.

Worldwide and Family-Owned
Hans Liebherr founded the Liebherr family company in 1949. Since that time, the enterprise has steadily grown to a group of more than 130 companies with more than 46,000 employees located on all continents. The corporate headquarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.

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