L 550 – L 586 XPower

LIEBHERR

Wheel loaders

Generation
6

Diesel engine
Tier 4f

Tipping load
27,560 lb–47,620 lb

Performance

More power, greater productivity –
increased performance through an
innovative travel drive

Economy

Efficient performance guaranteed –
low costs with high handling capacity

Reliability

A reliable partner –
robust and durable machines

Comfort

Well thought-out design –
when technology combines comfort and safety

Maintainability

Savings in both time and costs –
thanks to quick and simple maintenance

L 550 XPower

Tipping load, articulated
27,560 lb
Bucket capacity
4.5 yd³
Operating weight
40,895 lb
Engine output
163 kW / 219 HP

L 556 XPower

Tipping load, articulated
30,315 lb
Bucket capacity
4.8 yd³
Operating weight
43,210 lb
Engine output
183 kW / 245 HP

L 566 XPower

Tipping load, articulated
35,055 lb
Bucket capacity
5.5 yd³
Operating weight
52,690 lb
Engine output
203 kW / 272 HP

L 580 XPower

Tipping load, articulated
42,330 lb
Bucket capacity
6.8 yd³
Operating weight
60,955 lb
Engine output
233 kW / 312 HP

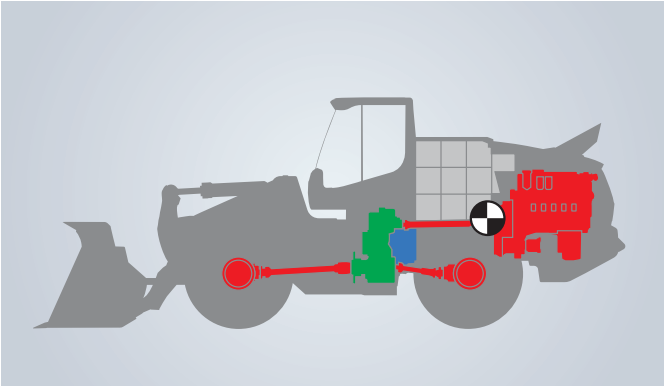
L 586 XPower

Tipping load, articulated
47,620 lb
Bucket capacity
7.8 yd³
Operating weight
71,870 lb
Engine output
263 kW / 353 HP

Performance

More power, greater productivity – increased performance through an innovative travel drive

The innovative Liebherr-XPower travel drive combines the best features of two types of drive into a unique machine design. Faster work cycles, high tipping loads, and increased machine availability result in terrific handling capacity.



Powerful machine design
- The drive components installed in the rear of the wheel loader act as a natural counterweight and are part of the sophisticated ballast design
- Ideal weight distribution results in higher tipping loads and thus greater productivity
- Balanced operating mass increases efficiency and saves fuel
- Strong designs and robust steel parts ensure a reliable and powerful machine

Maximum performance
- Liebherr-XPower travel drive combines the hydrostatic and mechanical drives
- Interaction of the two drive types is automatically and continuously adapted to the respective application
- XPower offers the highest efficiency in material pick-up and transport as well as optimum acceleration and maximum performance in all loading cycles

Lift arm variations, optimized for each use
- Standard Z-bar kinematics provide high torque in the lower lift arm range
- Particularly suitable for conventional wheel loader applications due to quick and easy filling of the bucket
- Industrial lift arms (for L 550 – L 566 / L 580) have parallel movement and offer particularly high torque in the upper lift arm range
- Particularly suitable for industrial use, large working attachments, and heavier loads

Great versatility for the optimum handling of material
- The diverse range of ex-works working attachments means that the right tool is always available
- The robust bucket design enables the bucket to be filled fast and efficiently
- Excellent bucket penetration force and easy bucket filling result in lower fuel consumption
- Modular bucket design for L 550 and L 556 G6.2 allows individual configuration, suitable for every application

Economy

Efficient performance guaranteed – low costs with high handling capacity

Power, speed, and durability combined with innovative technology result in an optimum machine design that makes a reliable contribution to cost-effective success. The efficient Liebherr-XPower travel drive and the robust components reduce operating costs in a sustainable way.

Maximum productivity with minimum fuel consumption
- Liebherr power efficiency (LPE) optimizes the interaction between the diesel engine, transmission, and working hydraulics for maximum efficiency
- Liebherr-XPower travel drive with LPE provides enormous fuel savings
- At the highest efficiency, operating costs are reduced, and profitability is increased

Minimum wear due to intelligent machine design
- Virtually no brake wear due to the hydraulic-mechanical braking action
- Continuous tractive force control combined with automatic self-locking differentials prevents wheel spin, thereby increasing productivity and significantly reducing tire wear

Liebherr Connect
- Intelligent machine networking with digital services and machine and process data
- For use in fleet and asset management systems and monitoring the condition of machines and components
- Efficient data exchange with customisation of the machine

MyLiebherr Portal
- Extensive benefits, digital services and software solutions for efficient machine operation
- Machine management, spare part orders and licence acquisition following one-time registration

Solidlink
- Optional hydraulic quick coupler with integrated automatic hydraulic coupling system
- Hydraulic working tools changed within seconds direct from the operator's cab
- The change is fully automatic, safe, and leak-free
- Time savings thanks to greater convenience lead to increased performance; saving time and money

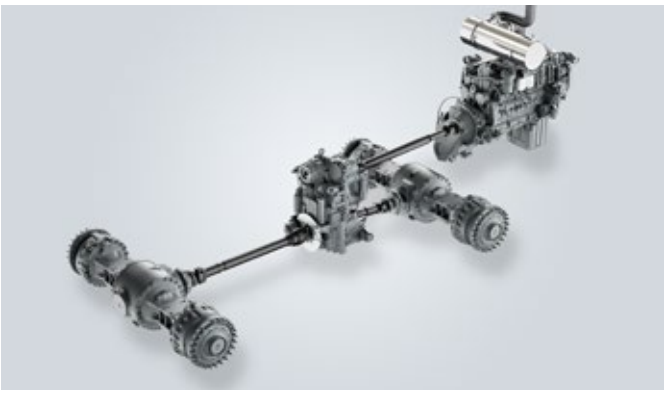
Reliability

A reliable partner – robust and durable machines

Tried and tested over decades with proven excellence – the specially developed components of Liebherr wheel loaders demonstrate their sophisticated technology and durability. The high level of quality offers maximum reliability and availability even under the toughest operating conditions.

High performance and long-lasting components
- Decades of experience in the development, design, and production of individual elements is reflected in their robustness and durability
- Components are ideally coordinated for maximum performance
- High Liebherr quality standards ensure reliability even under the toughest operating conditions

Working without interruption
- Diesel oxidation catalysts (DOC) and diesel particulate filters (DPF) as well as selective catalytic reduction (SCR) are installed for exhaust gas treatment, and lower pollutant emissions
- The diesel particulate filter can be unblocked during operation via active regeneration, thus enabling an uninterrupted work process
- Long intervals between regenerations increase productivity, save fuel, and reduce operating costs



Reliable Liebherr drive design
- Variable distribution of forces between the hydrostatic and mechanical drives means that there is less stress on each of the drive paths
- Long service life and reliable use of the machine thanks to Liebherr-XPower travel drive

Optimal cooling capacity
- The radiator is installed behind the operator's cab – the cleanest place on the wheel loader
- Demand-controlled cooling via thermostatic control for reliable operation
- High machine availability due to less radiator contamination
- The optional equipment such as the reversible fan drive, lint filter for the radiator, and the coarse-mesh radiator, additionally protect the cooling system from contamination

Comfort

Well thought-out design – when technology combines comfort and safety

A cab where you can really feel good – the modern cab design is optimally adapted to the day-to-day needs of the operators. The spacious and ergonomically designed operator's cab offers perfect conditions for comfortable and productive work, and can be individually adjusted to the operator.

Modern cab design for greater productivity
- Modern ergonomic cab design enables focused working with less fatigue
- Displays, control elements, and operator's seat are perfectly aligned with one another to form an ergonomic unit
- For the operator, the individual adjustment options on the operator's seat and the steering wheel create a comfortable working atmosphere with plenty of legroom
- Numerous storage compartments provide lots of space in the operator's cab on all sides

Keep an eye on everything – for hazard-free work
- The large windshield in the operator's cab provides excellent all-round visibility of the working attachment and the operating area
- The engine bonnet was designed with optimized visibility in mind and this, together with the integrated reversing camera, ensure an excellent overview at the rear of the machine for greater safety
- Height-adjustable 9" touch screen display provides all operating-relevant machine data at a glance

Innovative joystick steering
- Optional joystick steering is integrated into the operator's seat for ergonomic and comfortable operation
- Intuitive operating behavior resembles that of a steering wheel
- The direction of the joystick corresponds to the desired wheel loader articulation angle
- Speed-dependent force feedback ensures precise and safe steering behavior
- "Joystick steering only" allows for an operator's cab without a steering column, thereby eliminating the need to reach between the steering and control units

Assistance systems – increase safety conveniently
- Active personnel detection monitors the rear area of the wheel loader and warns of hazards with a visual and acoustic signal
- Tire pressure monitoring system transmits tire pressure values directly to the operator's display
- Skyview 360° simplifies monitoring of the entire machine environment on a separate display in the operator's cab
- The weighing device with "Truck Payload Assistant" ensures faster and more accurate loading cycles
- Further assistance systems are available upon customer request

Maintainability

Savings in both time and costs – thanks to quick and simple maintenance

Intelligent installation of components, quick and easy access to the engine compartment, and maximum efficiency down to the smallest detail are crucial for effective maintenance work. All parts to be serviced can be reached safely and quickly. This saves time and money.

Safe and well thought-out service access
- Electrically rear-opening engine bonnet provides safe and easy access to the entire engine compartment
- All maintenance work can be conveniently performed from a platform in the engine bonnet
- Improved access to the front windscreen / cab filter box is provided by the cab access on the right side of the machine
- Non-slip treads and sturdy handrails ensure maximum safety when cleaning
- Quick and simple maintenance reduces standstill times, increases productivity and saves money

Intelligent design means less time spent on maintenance
- Simple and safe maintenance ensures less downtime
- Less contamination of the radiator due to its well-thought-out position directly behind the operator's cab
- The most important fill levels can be seen in the entry area

MyLiebherr Maintenance
- Current information on the condition of the machine and attachments
- Reduced unplanned machine standstills thanks to practical recommendations and proactive maintenance planning
- Time saved when identifying, evaluating and solving problems

My Liebherr Performance
- Information on the performance data from the machines and attachments
- Efficient solutions for saving fuel and reducing idle times

Liebherr customer service
- Comprehensive service network provides effective and prompt support
- Fast and reliable service implementation by qualified service specialists

Focus on innovation and safety

Lift arms

Cleverly designed – one wheel loader, two lift arm variants, and numerous application options – while the standard Z-bar kinematics ensure high torque in the lower lift arms, the industrial kinematics provide optimum, parallel movement, and particularly high torque in the upper lift arms. This means that the XPower wheel loaders are optimally equipped for any task and can perform the work powerfully and efficiently.

Drive design

Powerful performance – the Liebherr-XPower travel drive combines the hydrostatic drive for short loading cycles with the mechanical drive for long distances and inclines. The standard combination of these two drive types offers the highest efficiency in all applications and results in a lower load on the respective drive path.

Machine networking

Liebherr Connect networks the machine into the digital world. Intelligent machine networking provides access to digital services as well as machine and process data. The system ensures an efficient data exchange and offers various options to further develop the machine and customise it to individual customer requirements.

Comfort

Intuitive and comfortable – the ergonomically optimized cab design enables comfortable and less tiring work. The large glazed area and the visibility-optimized engine hood design provide an unobstructed view in all directions. The joystick steering allows precise and productive work through intuitive and exact control. The optional “joystick steering only” provides an even better view of the lift arms and the working attachment as well as more space in the operator’s cab.

Assistance systems

Intelligent helpers – the innovative assistance systems offer comprehensive solutions to optimize safety and comfort, supporting the operator and thus enhancing performance. The simple handling and intuitive operation enable safe, efficient, and thus more economical machine operation.

Maintenance

Reliable service – the unique installation position of the components results in excellent maintenance accessibility. Supported by the latest technology, you have safe and easy access to the entire engine compartment. Short downtimes and fast maintenance work lead to greater productivity and a higher profitability of the machine.

Technical data

Diesel engine

		L 550	L 556
Diesel engine		D934 A7	D944 A7
Design		Water-cooled in-line engine with charge-air cooling	
Cylinder inline		4	4
Fuel injection process		Electronic Coft inon Rail high-pressure injection	
Output to	kW / HP	160 / 214	180 / 241
ISO 9249 / ECE-R.24	at RPM	1,800	1,800
Rated output to			
ISO 14396 / ECE-R.120	kW / HP	163 / 119	183 / 245
Nominal speed	at RPM	1,800	1,800
Max. torque to	lb ft	920	1,035
ISO 14396 / ECE-R.120	at RPM	1,100	1,150
Displacement	in^3	428	486
	liter	7.014	7.964
Bore / Stroke	in	4.8" / 5.91"	5.12" / 5.91"
Tier 4f			
Harmful emissions values		In accordance with EPA 40 CFR part 1039 and CARB 13 CCR section 2423	
Emission control		Liebherr-SCR technology	
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

Driveline

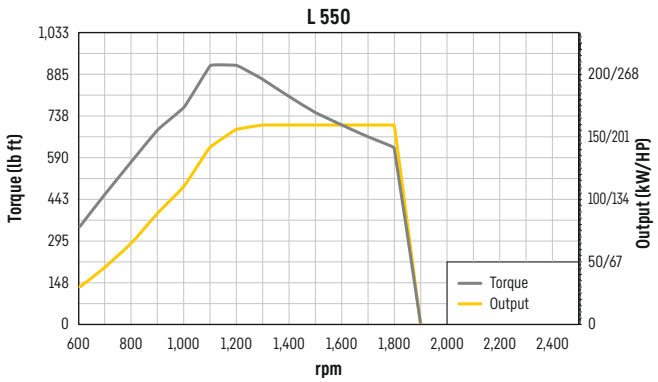
Continuous power split XPower driveline	
Design	Continuous, fully-automatic XPower driveline. No traction interruptions across the entire speed range. Hydrostatic power split with two axial piston units. Identical driving performance – forwards and in reverse
Filtration	Filter system for driveline, depend 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.

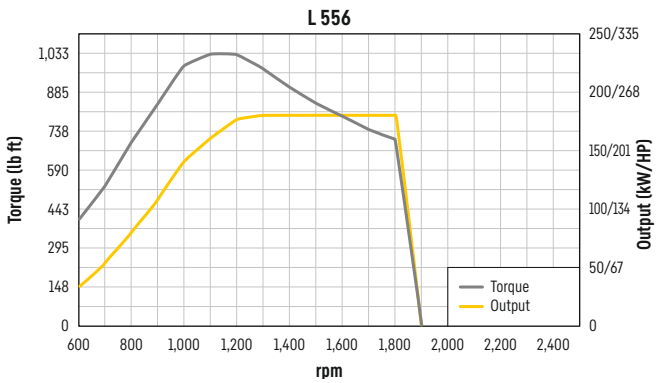
* Configuration, tyres and mounting tools can influence the maximum speed.

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.





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	

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	
Lifting function		Lifting, neutral, lowering Automatic lift arm position and lowering by Liebherr control lever Float position controlled by Liebherr control lever	
Tilt function		Tilt back, neutral, dump Automatic bucket return for tilting back and dumping controlled by Liebherr control lever	
Max. flow	gpm	62	77
Max. pressure			
Z-bar kinematics	psi	5,076	5,076
Industrial lift arm	psi	5,511	5,511

Attachment

		L 550		L 556	
Geometry variants					
Optional		Powerful Z-bar kinematics 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 improved cooling output standard, electrically heated rear window, all filters are easy to access and replaceable
Vibration emissions	
Vibrations in the hand/arm ft/s²	≤ 8.2
Vibrations through the whole body ft/s²	≤ 1.6

Sound level

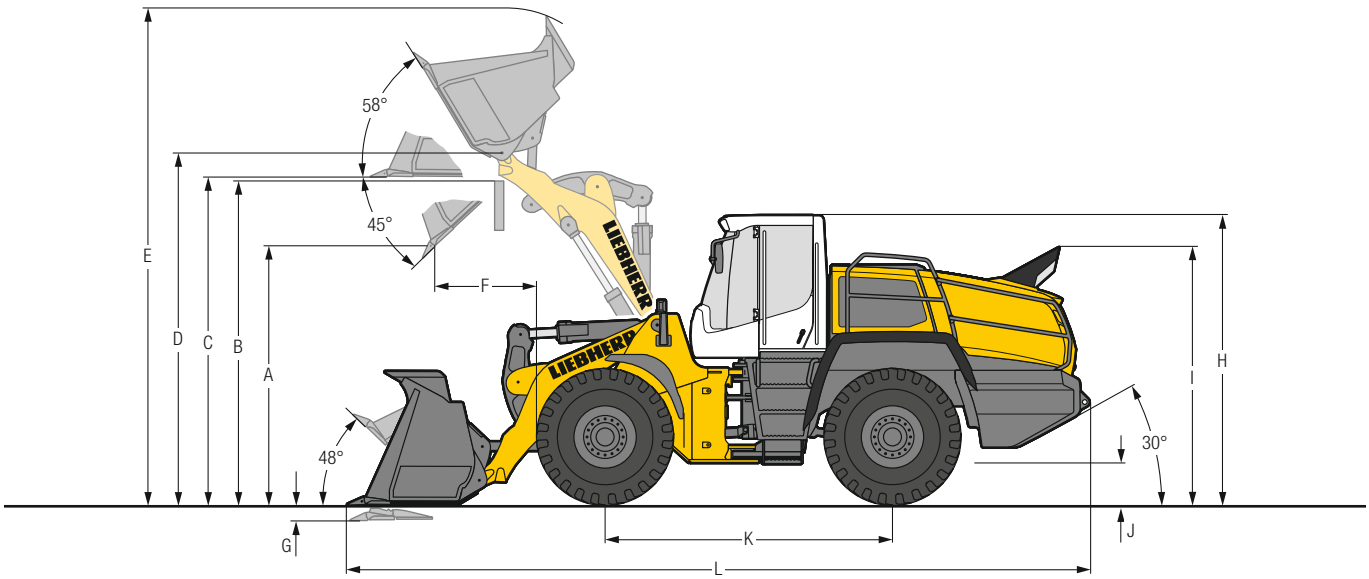
		L 550	L 556
Sound pressure level to ISO 6396			
L_{pA} (inside cab)	dB(A)	68	68
Sound power level to 2000/14/EC			
L_{WA} (surround noise)	dB(A)	104	104

Capacities

		L 550	L 556
Fuel tank	gal	74	74
DEF tank	gal	17.8	17.8
Engine oil (inclusive filter change)	gal	6.9	6.9
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	47.6
Air conditioning system R134a	lb	2.8	2.8

Dimensions

Z-bar kinematics



Excavation bucket

		L 550				L 556			
		STD	STD	HL	HL	STD	STD	HL	HL
Geometry		ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK
Cutting tools		Z	Z	Z	Z	Z	Z	Z	Z
Lift arm length	ft in	8'10"	8'10"	10'2"	10'2"	8'10"	8'10"	10'2"	10'2"
Bucket capacity according to ISO 7546 **	yd³	4.5	4.8	3.7	4.1	4.8	5.4	4.1	4.4
Specific material density	lb/yd³	3,034	2,697	3,034	2,697	3,034	2,697	3,034	2,697
Bucket width	ft in	9'5"	9'5"	9'5"	9'5"	9'5"	9'5"	9'5"	9'5"
A Dumping height at max. lift height and 45° discharge	ft in	9'11"	9'9"	12'2"	12'	9'9"	9'6"	12'	11'9"
B Dump-over height	ft in	12'2"	12'2"	13'9"	13'9"	12'2"	12'2"	13'9"	13'9"
C Max. height of bucket bottom	ft in	12'9"	12'9"	14'6"	14'6"	12'9"	12'9"	14'6"	14'6"
D Max. height of bucket pivot point	ft in	13'7"	13'7"	15'5"	15'5"	13'7"	13'7"	15'5"	15'5"
E Max. operating height	ft in	19'	19'3"	20'4"	20'6"	19'3"	19'7"	20'6"	20'10"
F Reach at max. lift height and 45° discharge	ft in	3'4"	3'6"	2'9"	2'11"	3'6"	3'9"	2'11"	3'1"
G Digging depth	ft in	3"	3"	4"	4"	3"	3"	4"	4"
H Height above operator's cab	ft in	11'1"	11'1"	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"	9'11"	9'11"
J Ground clearance	ft in	1'7"	1'7"	1'7"	1'7"	1'7"	1'7"	1'7"	1'7"
K Wheelbase	ft in	11'6"	11'6"	11'6"	11'6"	11'6"	11'6"	11'6"	11'6"
L Overall length	ft in	28'1"	28'4"	29'6"	29'9"	28'4"	28'8"	29'9"	30'
Turning circle radius over tires	ft in	20'2"	20'2"	20'2"	20'2"	20'2"	20'2"	20'2"	20'2"
Turning circle radius over outside bucket edge	ft in	22'5"	22'6"	23'1"	23'1"	22'6"	22'7"	23'1"	23'2"
Breakout force (SAE)	lbf	37,095	34,845	39,340	37,095	39,340	37,095	41,590	39,340
Tipping load, straight *	lb	30,975	30,755	25,795	25,575	34,390	33,950	28,660	28,440
Tipping load, fully articulated *	lb	27,560	27,335	22,595	22,375	30,315	29,870	25,020	24,800
Operating weight *	lb	40,895	41,115	41,335	41,625	43,210	43,430	43,650	43,760
Tire size		23,5R25 L3		23,5R25 L3		23,5R25 L3		23,5R25 L3	

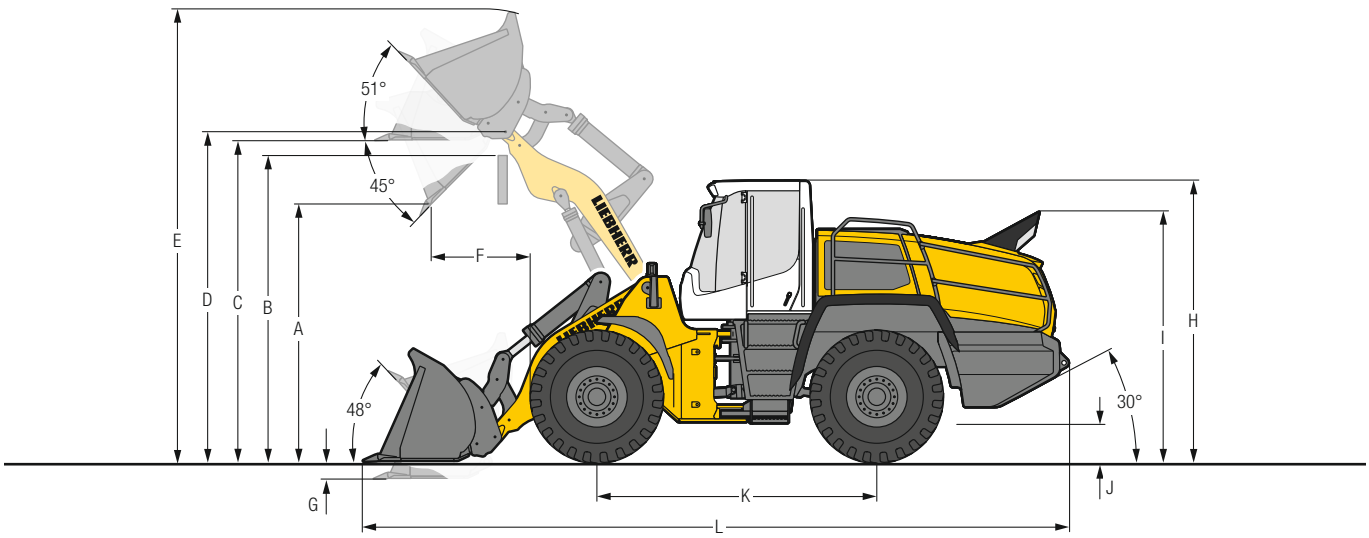
* The figures shown include the above tires, all lubricants, a full fuel tank, the ROPS / FOPS cab and the operator. Different tires and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

** 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
ZK = Z-bar kinematics
Z = 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	8'10"	9'10"	9'10"	8'10"	9'10"	9'10"
Bucket capacity according to ISO 7546 **	yd³	4.1	3.4	3.7	4.4	3.7	4.1
Specific material density	lb/yd³	3,034	3,034	2,697	3,034	3,034	2,697
Bucket width	ft in	9'5"	9'5"	9'5"	9'5"	9'5"	9'5"
A Dumping height at max. lift height and 45° discharge	ft in	9'7"	11'7"	11'5"	9'5"	11'5"	11'3"
B Dump-over height	ft in	12'2"	13'5"	13'5"	12'2"	13'5"	13'5"
C Max. height of bucket bottom	ft in	12'8"	14'5"	14'5"	12'8"	14'5"	14'5"
D Max. height of bucket pivot point	ft in	13'7"	15'4"	15'4"	13'7"	15'4"	15'4"
E Max. operating height	ft in	19'2"	20'6"	20'8"	19'5"	20'8"	20'11"
F Reach at max. lift height and 45° discharge	ft in	3'9"	2'9"	2'10"	4'	2'10"	3'
G Digging depth	ft in	4"	4"	4"	4"	4"	4"
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	11'6"	11'6"	11'6"	11'6"	11'6"	11'6"
L Overall length	ft in	28'10"	29'7"	29'9"	29'1"	29'9"	30'
Turning circle radius over tires	ft in	20'2"	20'2"	20'2"	20'2"	20'2"	20'2"
Turning circle radius over outside bucket edge	ft in	22'7"	22'11"	23'	22'7"	23'	23'
Breakout force (SAE)	lbf	31,475	33,720	32,595	34,845	39,340	37,095
Tipping load, straight *	lb	28,440	24,690	24,470	31,525	27,335	27,115
Tipping load, fully articulated *	lb	25,130	21,650	21,385	27,560	23,810	23,590
Operating weight *	lb	42,330	42,550	42,660	44,535	44,755	44,865
Tire size			23.5R25 L3			23.5R25 L3	

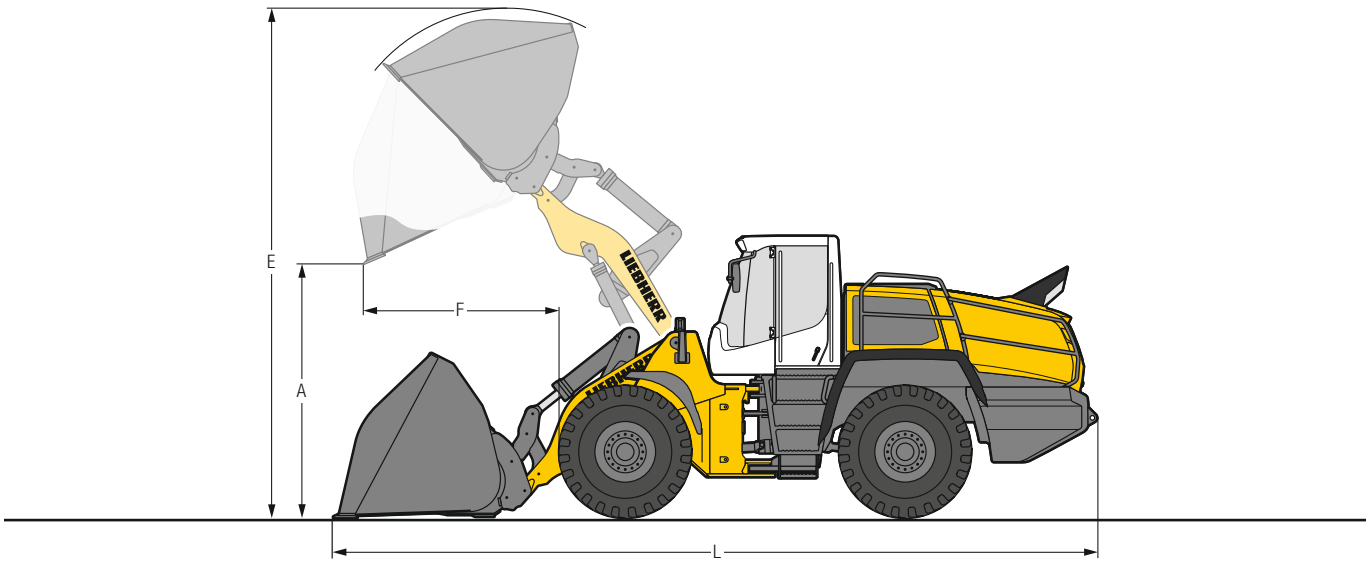
* The figures shown include the above tires, all lubricants, a full fuel tank, the ROPS / FOPS cab and the operator. Different tires and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

** 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	1,686
Bucket width	**ft in**	9'8"	9'8"	9'8"	9'8"
A Dumping height at max. lift height	**ft in**	8'8"	10'6"	8'4"	10'4"
E Max. operating height	**ft in**	19'7"	21'6"	19'10"	21'4"
F Reach at maximum lift height	**ft in**	4'8"	3'8"	4'11"	3'11"
L Overall length	**ft in**	29'5"	30'4"	29'10"	30'7"
Tipping load, straight*	**lb**	26,895	23,370	29,985	26,015
Tipping load, fully articulated*	**lb**	23,370	20,280	25,795	22,485
Operating weight*	**lb**	42,990	43,210	45,195	45,415
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**	12.4	11.1	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**	7'7"	9'7"	7'7"	9'5"
E Max. operating height	**ft in**	20'6"	22'1"	20'6"	22'2"
F Reach at maximum lift height	**ft in**	5'9"	4'8"	5'9"	4'10"
L Overall length	**ft in**	30'11"	31'9"	30'11"	31'11"
Tipping load, straight*	**lb**	26,235	22,485	29,320	24,910
Tipping load, fully articulated*	**lb**	22,485	19,400	25,355	21,385
Operating weight*	**lb**	44,310	44,535	46,515	46,730
Tire size		23.5R25 L3		23.5R25 L3	

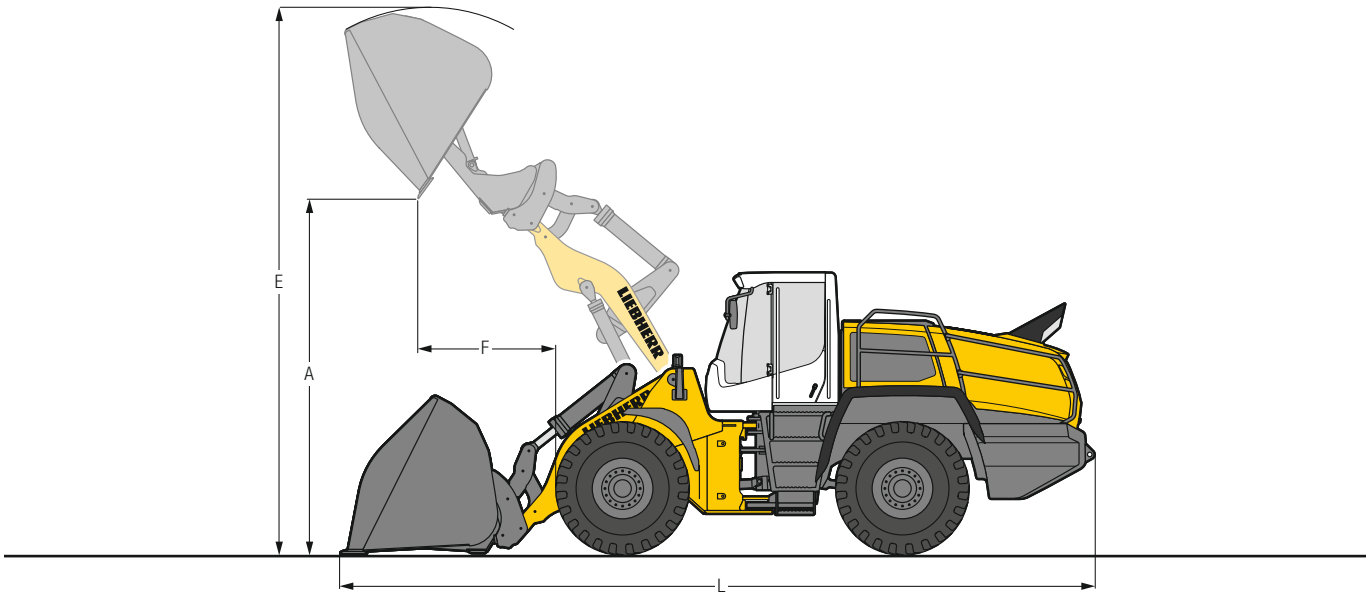
* The figures shown include the above tires, all lubricants, a full fuel tank, the ROPS / FOPS cab and the operator. Different tires and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

For wheel loaders with large light material buckets and high-dump buckets or log grapples, we supply visual aids such as mirrors or cameras for front area monitoring that meet the requirements of the ISO 5006:2017 field of vision test.

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	15'3"	17'2"	15'	17'
E Max. operating height	ft in	22'6"	24'2"	22'8"	24'3"
F Reach at maximum lift height	ft in	5'6"	4'7"	5'9"	4'9"
L Overall length	ft in	30'4"	31'4"	30'8"	31'6"
Tipping load, straight*	lb	26,235	22,265	29,985	24,910
Tipping load, fully articulated*	lb	22,705	19,180	26,015	21,165
Operating weight*	lb	43,870	44,090	44,975	46,295
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	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	14'3"	16'3"	14'1"	16'1"
E Max. operating height	ft in	23'3"	24'7"	23'5"	24'10"
F Reach at maximum lift height	ft in	5'8"	4'8"	5'9"	4'10"
L Overall length	ft in	30'10"	31'9"	31'1"	32'
Tipping load, straight*	lb	25,130	21,385	28,220	24,030
Tipping load, fully articulated*	lb	21,605	18,300	24,250	20,505
Operating weight*	lb	45,195	45,415	47,400	47,620
Tire size		23.5R25 L3		23.5R25 L3	

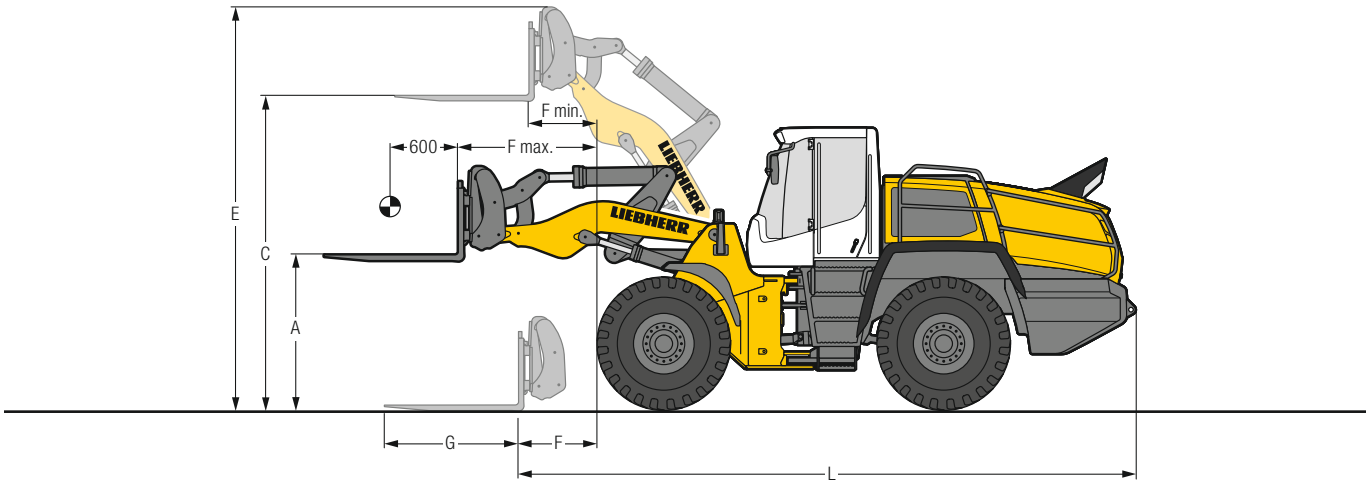
* The figures shown include the above tires, all lubricants, a full fuel tank, the ROPS / FOPS cab and the operator. Different tires and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

For wheel loaders with large light material buckets and high-dump buckets or log grapples, we supply visual aids such as mirrors or cameras for front area monitoring that meet the requirements of the ISO 5006:2017 field of vision test.

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**	5'11"	5'11"
C	**Max. lifting height**	**ft in**	12'10"	12'10"
E	**Max. operating height**	**ft in**	16'1"	16'1"
F	**Reach at loading position**	**ft in**	3'7"	3'7"
F max.	**Max. reach**	**ft in**	5'7"	5'7"
F min.	**Reach at max. lifting height**	**ft in**	2'4"	2'4"
G	**Fork length**	**ft in**	4'11"	4'11"
L	**Length – basic machine**	**ft in**	24'10"	24'10"
Tipping load, straight*		**lb**	24,120	26,895
Tipping load, fully articulated*		**lb**	21,230	23,590
Recoft inended payload for uneven ground = 60 % of tipping load, articulated[1)]		**lb**	12,745	14,155
Recoft inended payload for smooth surfaces = 80 % of tipping load, articulated[1)]		**lb**	16,995	18,870
Operating weight*		**lb**	40,785	42,945
Tire size			23.5R25 L3	23.5R25 L3

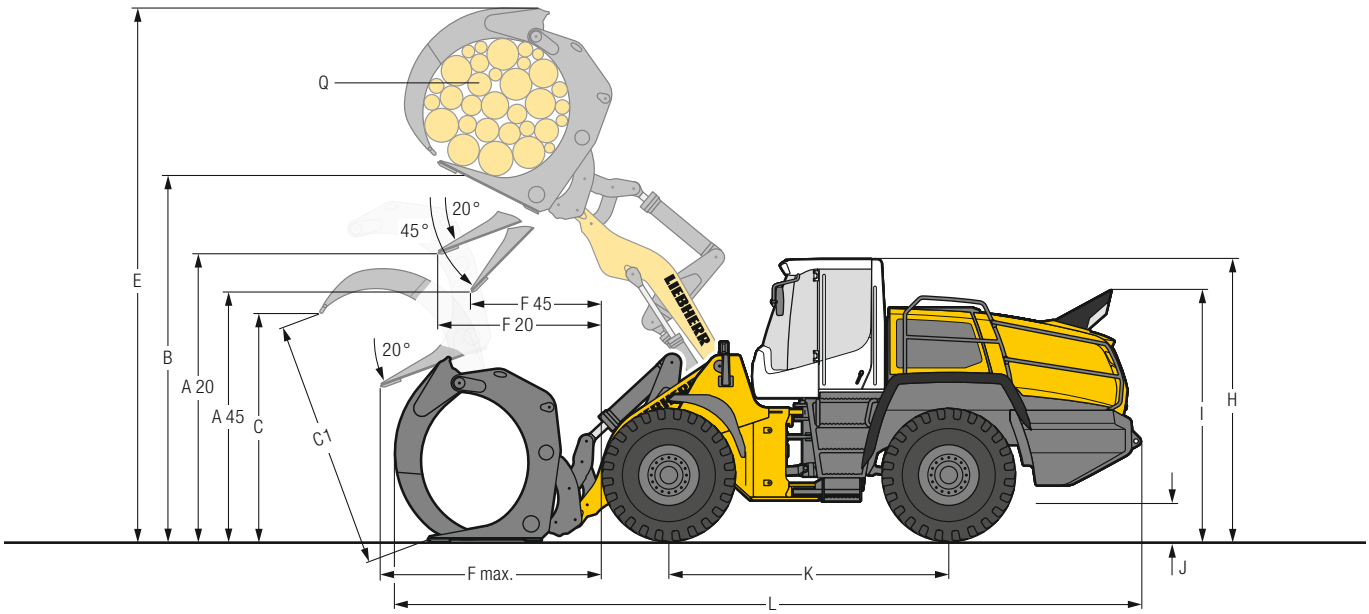
* The figures shown include the above tires, all lubricants, a full fuel tank, the ROPS / FOPS cab and the operator. Different tires and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

[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	IND-QC
A20	**Discharge height at 20°**	**ft in**	11'3"	11'	11'
A45	**Discharge height at 45°**	**ft in**	9'8"	9'1"	9'1"
B	**Manipulation height**	**ft in**	14'11"	14'11"	15'3"
C	**Max. grapple opening in loading position**	**ft in**	7'10"	9'	9'
C1	**Max. grapple opening**	**ft in**	8'6"	9'10"	9'10"
E	**Max. height**	**ft in**	20'10"	21'10"	21'10"
F20	**Reach at max. lifting height at 20° discharge**	**ft in**	5'3"	5'11"	5'11"
F45	**Reach at max. lifting height at 45° discharge**	**ft in**	3'10"	4'4"	4'4"
F max.	**Max. reach**	**ft in**	8'6"	9'3"	9'3"
H	**Height above operator's cab**	**ft in**	11'2"	11'2"	11'2"
I	**Height above exhaust**	**ft in**	10'	10'	10'
J	**Ground clearance**	**ft in**	1'7"	1'7"	1'7"
K	**Wheelbase**	**ft in**	11'6"	11'6"	11'6"
L	**Overall length**	**ft in**	28'10"	29'9"	29'9"
Width over tires		**ft in**	8'8"	8'8"	8'8"
Q	**Grapple diameter**	**m²**	2.15	2.85	2.85
Grapple width		**ft in**	5'3"	5'3"	5'3"
Payload*		**lb**	13,890	13,230	14,110
Operating weight*		**lb**	44,090	44,425	46,295
Tire size			23.5R25 L4		23.5R25 L4

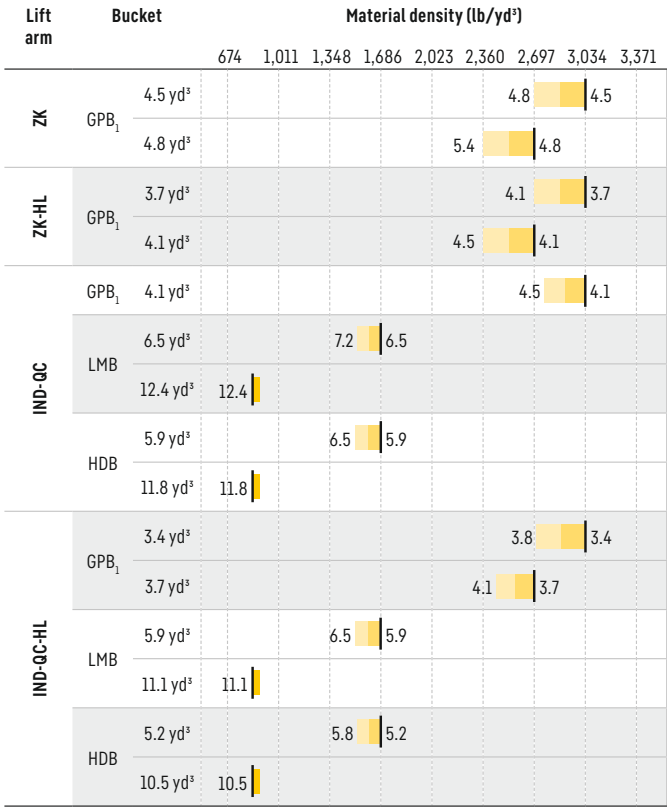
* The figures shown include the above tires, all lubricants, a full fuel tank, the ROPS / FOPS cab and the operator. Different tires and optional equipment will change the operating weight and payload.

For wheel loaders with large light material buckets and high-dump buckets or log grapples, we supply visual aids such as mirrors or cameras for front area monitoring that meet the requirements of the ISO 5006:2017 field of vision test.

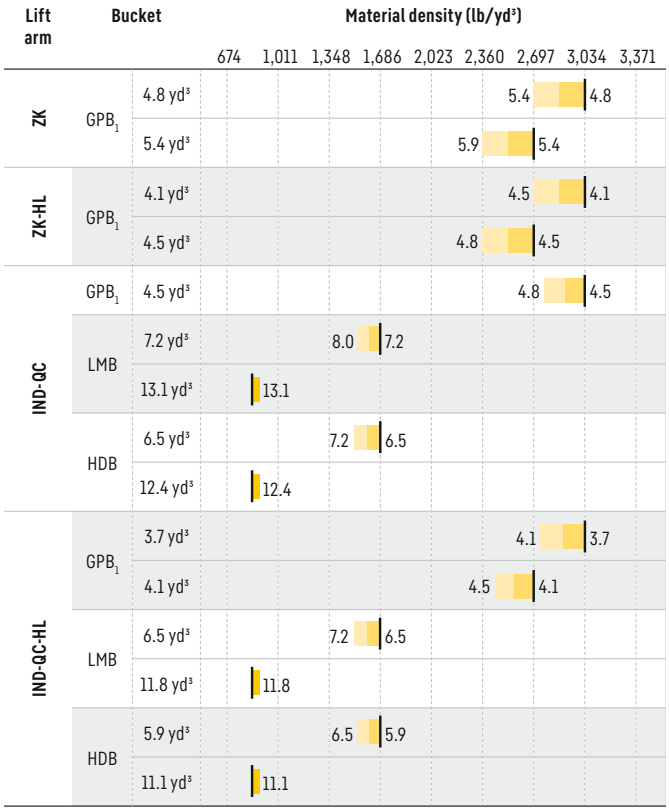
IND-QC = Industrial lift arm with parallel guidance incl. quick coupler

Bucket selection

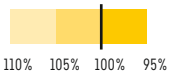
L 550



L 556



Bucket filling factor



Lift arm

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

Bucket

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

For wheel loaders with large light material buckets and high-dump buckets or log grapples, we supply visual aids such as mirrors or cameras for front area monitoring that meet the requirements of the ISO 5006:2017 field of vision test.

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 / Grave	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	750/65R25 VTS	L3	1,605	9'5"	0.43"	Gravel, Industry, Wood (all ground conditions)
Continental	23.5R25 EM-Master	L3	467	8'9"	1.14"	Bulk material (firm ground conditions)
Continental	23.5R25 EM-Master	L4	732	8'9"	0.79"	Gravel, Industry, Wood (firm 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

Diesel 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		
Cylinder inline		6	6	6
Fuel injection process		Electronic Common Rail high-pressure injection		
Output to	kW / HP	200 / 268	230 / 308	260 / 349
ISO 9249 / ECE-R.24	at RPM	1,800	1,800	1,800
Rated output to				
ISO 14396 / ECE-R.120	kW / HP	203 / 272	233 / 312	263 / 353
Nominal speed	at RPM	1,800	1,800	1,800
Max. torque to ISO	lb ft	1,412	1,452	1,452
14396 / ECE-R.120	at RPM	1,000	1,000	1,000
Displacement	in³	642	642	642
	liter	10.52	10.52	10.52
Bore / Stroke	ft in	4.8" / 5.91"	4.8" / 5.91"	4.8" / 5.91"
Tier 4f				
Harmful emissions values		In accordance with EPA 40 CFR part 1039 and CARB 13 CCR section 2423		
Emission control		Liebherr-SCR technology		
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

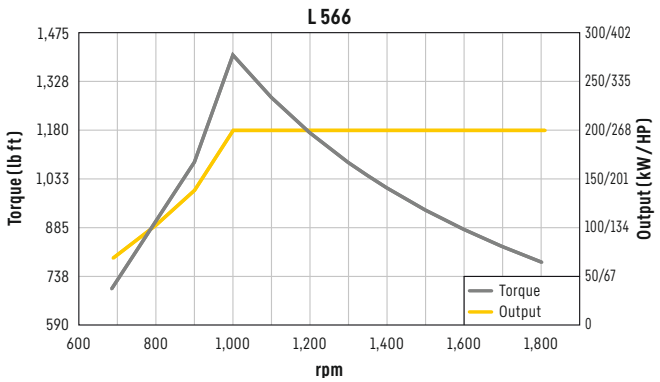
Driveline

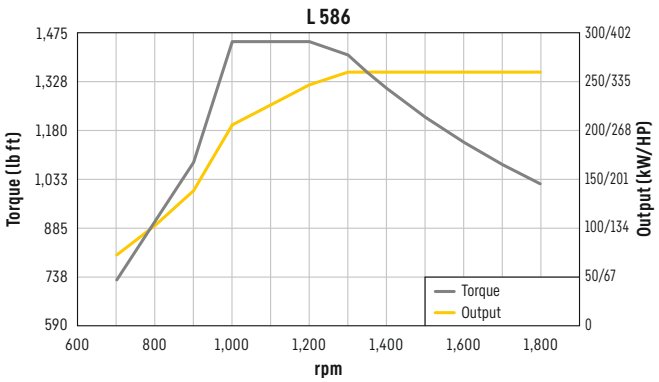
Continuous power split XPower driveline	
Design	Continuous, fully-automatic XPower driveline. No traction interruptions across the entire speed range. Hydrostatic power split with two axial piston units. Identical driving performance – forwards and in reverse
Filtration	Filter system for driveline, depend 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.

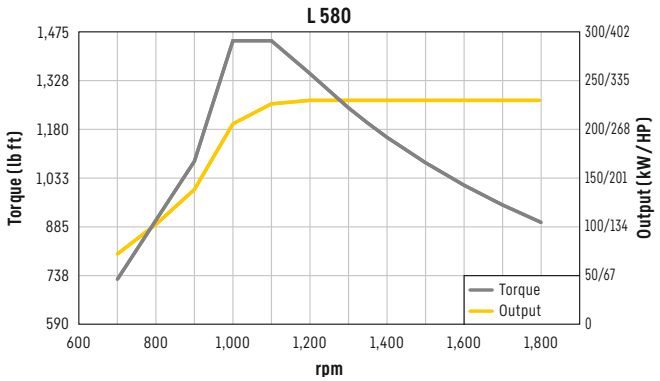
Brakes

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.







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)		

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		
Lifting function		Lifting, neutral, lowering Automatic lift arm position and lowering by Liebherr control lever Float position controlled by Liebherr control lever		
Tilt function		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 kinematics	psi	5,076	5,511	5,076
Industrial lift arm	psi	5,511	5,511	

Attachment

		L 566		L 580		L 586
Geometry variants						
Optional		Powerful Z-bar kinematics 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

Vibration emissions		
Vibrations in the hand/arm	ft/s^2	≤ 8.2
Vibrations through the whole body	ft/s^2	≤ 1.6

Sound level

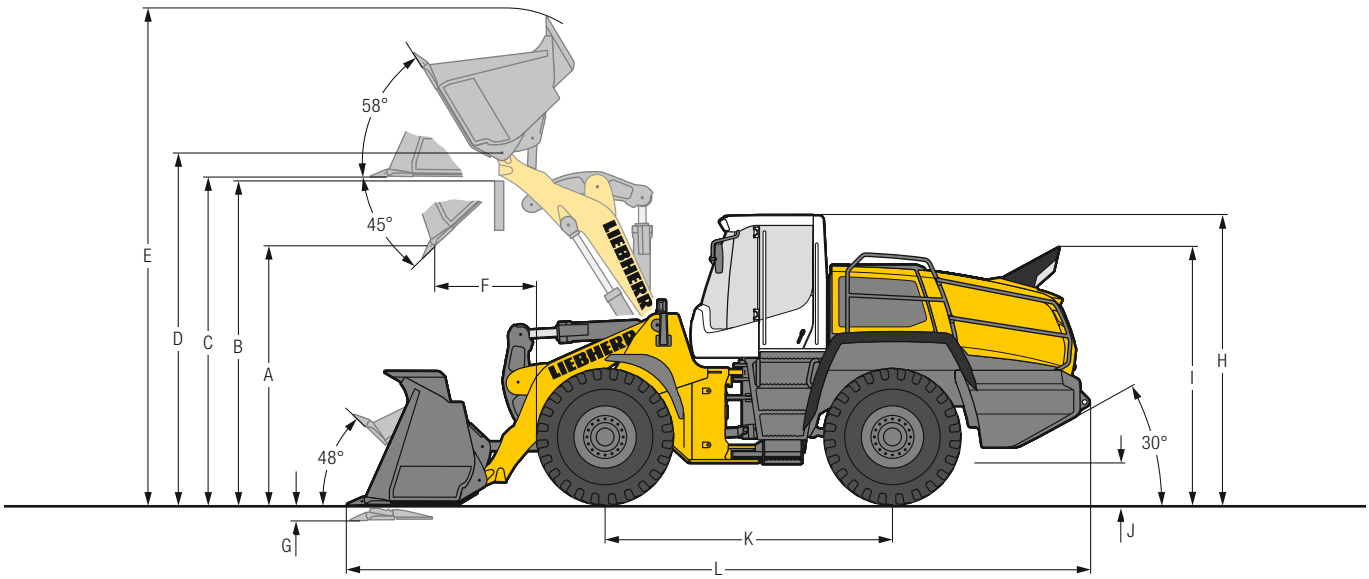
		L 566	L 580	L 586
Sound pressure level to ISO 6396				
L_{pA} (inside cab)	dB(A)	68	68	68
Sound power level to 2000/14/EC				
L_{WA} (surround noise)	dB(A)	105	105	107

Füllmengen

		L 566	L 580	L 586
Fuel tank	gal	96	96	132
DEF tank	gal	17.8	17.8	17.8
Engine oil (inclusive filter change)	gal	11.1	11.1	11.1
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 kinematics



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	9'7"	9'7"	10'	10'	10'	10'4"	10'4"	10'4"
Bucket		GPB_1	GPB_1	GPB_1	GPB_2	GPB_2	GPB_2	GPB_2	RB
Bucket capacity according to ISO 7546 **	yd^3	5.5	6.1	6.8	7.5	7.5 1)	7.8	8.5	7.2
Specific material density	lb/yd^3	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 tires	ft in	21'11"	21'11"	22'7"	22'7"	22'7"	24'7"	24'7"	24'9"
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)

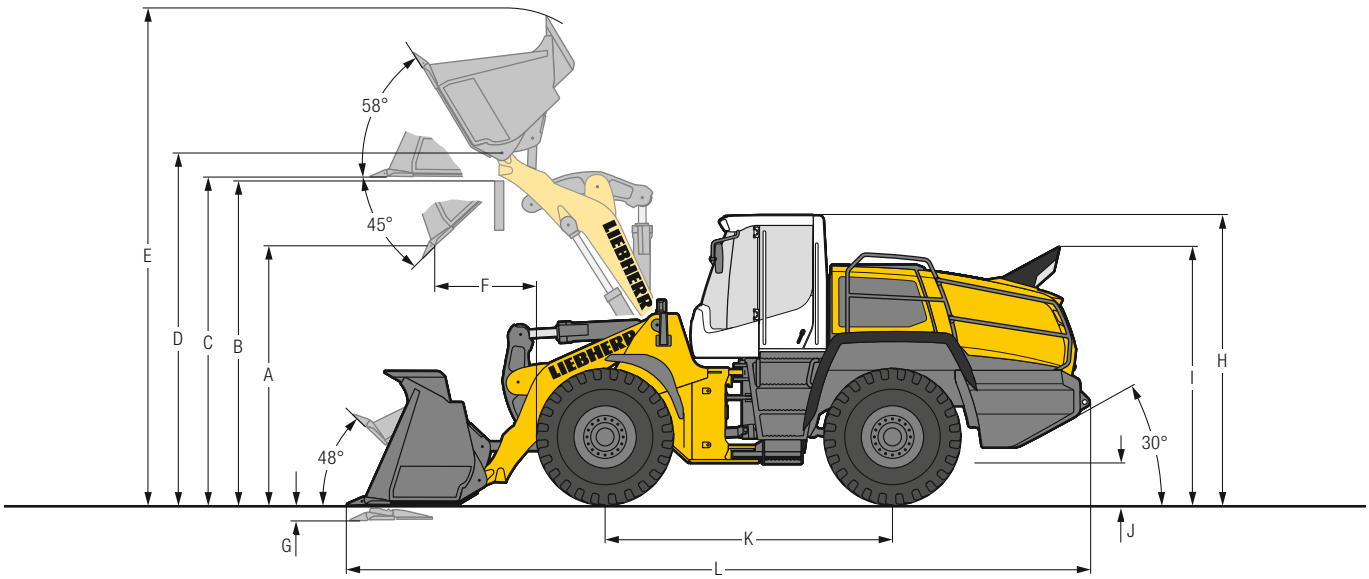
** Actual bucket capacity may be approx. 10 % larger than the calculation according to ISO 7546 standard. The degree to which the bucket can be filled depends on the material – see pages 34 / 35.

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

GPB_1 = Excavation bucket with back grading edge for direct mounting
GPB_2 = Rehandling bucket for direct mounting
RB = Rock bucket with oblique base for quarrying applications for direct mounting
ZK = Z-bar kinematics
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 kinematics 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		GPB_1	GPB_1	GPB_1	GPB_1	GPB_2	GPB_2	GPB_2	RB
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 tires	**ft in**	21'11"	21'11"	22'7"	22'7"	22'7"	24'7"	24'7"	24'9"
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)

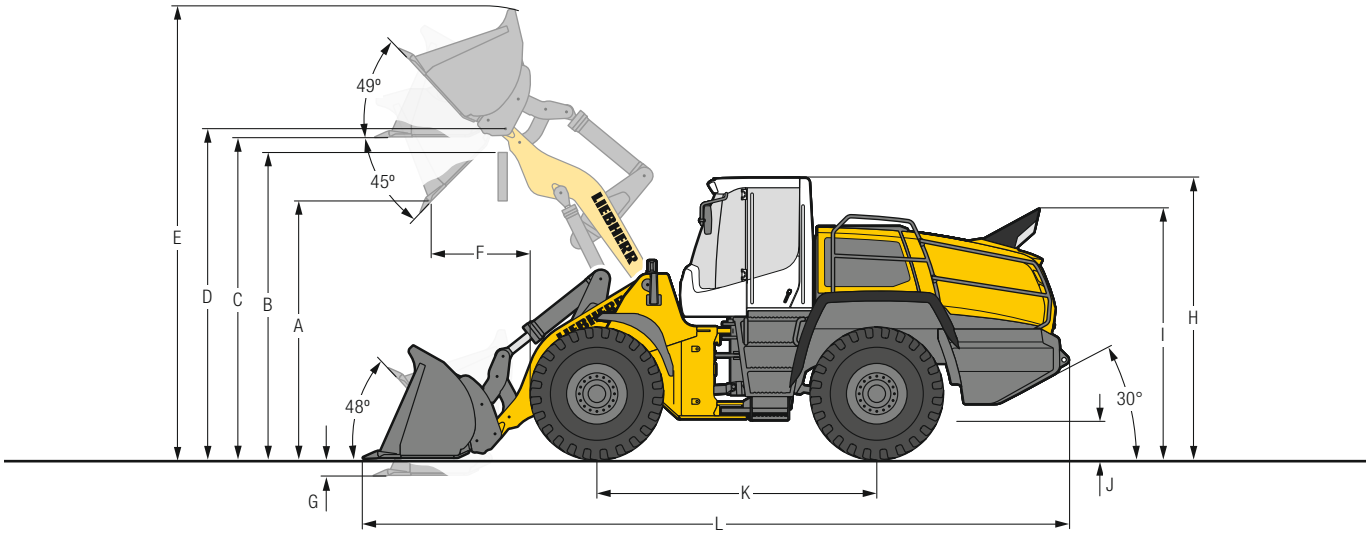
** Actual bucket capacity may be approx. 10 % larger than the calculation according to ISO 7546 standard. The degree to which the bucket can be filled depends on the material – see pages 34 / 35.

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

GPB_1 = Excavation bucket with back grading edge for direct mounting
GPB_2 = Rehandling bucket for direct mounting
RB = Rock bucket with oblique base for quarrying applications for direct mounting
ZK = Z-bar kinematics
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 tires	**ft in**	22'3"	22'3"	22'7"	22'7"
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	

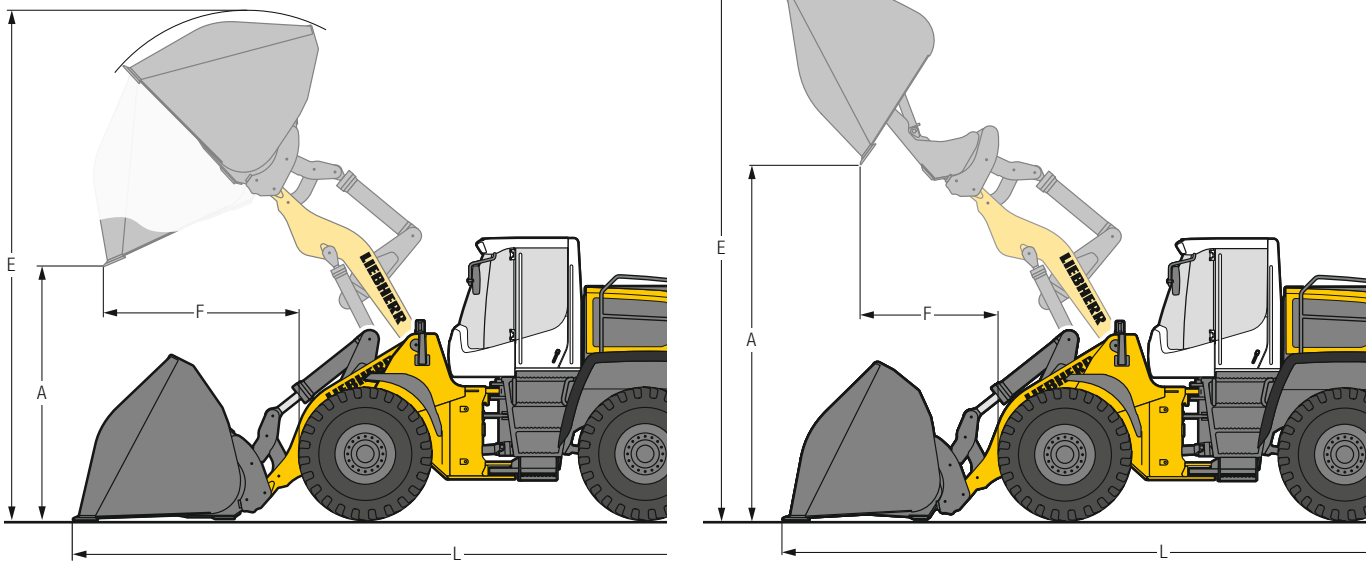
* The figures shown include the above tires, all lubricants, a full fuel tank, the ROPS / FOPS cab and the operator. Different tires and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

** 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

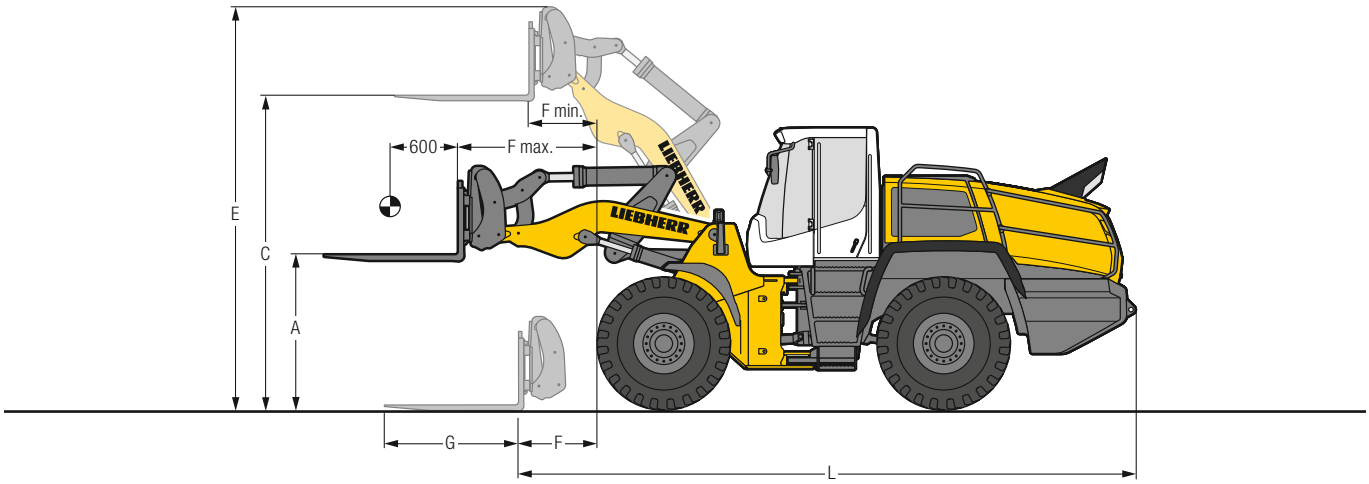
* The figures shown include the above tires, all lubricants, a full fuel tank, the ROPS / FOPS cab and the operator. Different tires and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

For wheel loaders with large light material buckets and high-dump buckets or log grapples, we supply visual aids such as mirrors or cameras for front area monitoring that meet the requirements of the ISO 5006:2017 field of vision test.

IND-QC = Industrial lift arm with parallel guidance incl. quick coupler
ZK = Z-bar kinematics
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
Recoft inended payload for uneven ground = 60 % of tipping load, articulated[1)]		**lb**	15,740	19,050
Recoft inended 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)

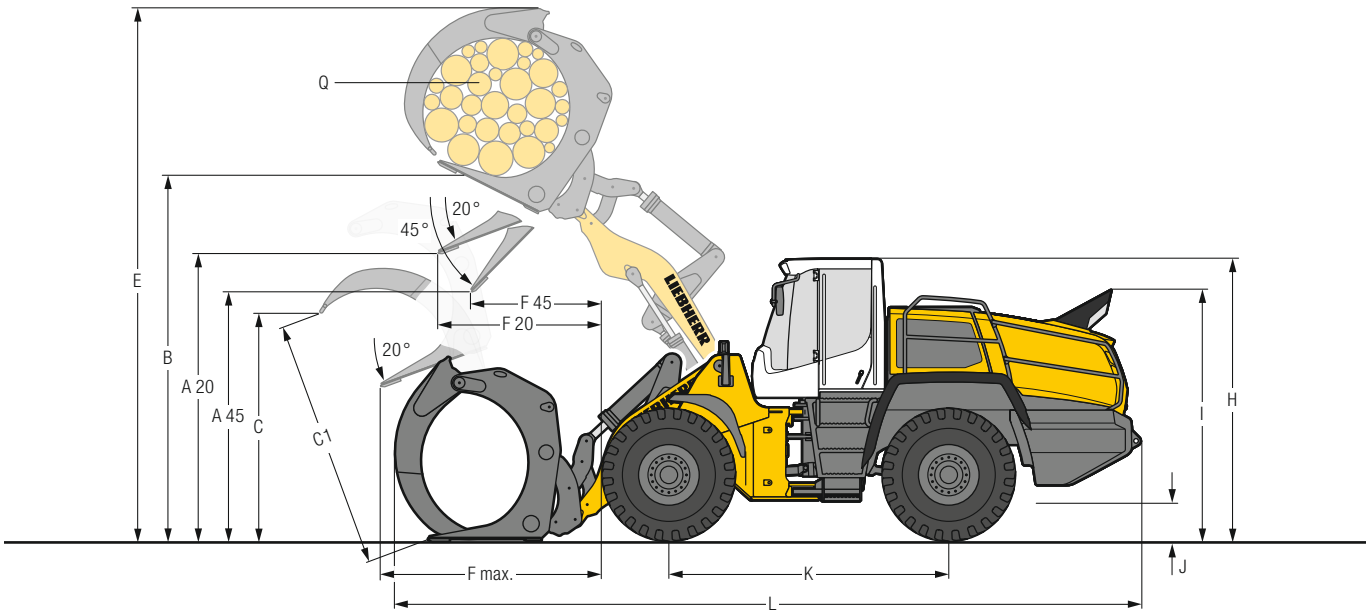
[1)] According to EN 474-3

[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	m²	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

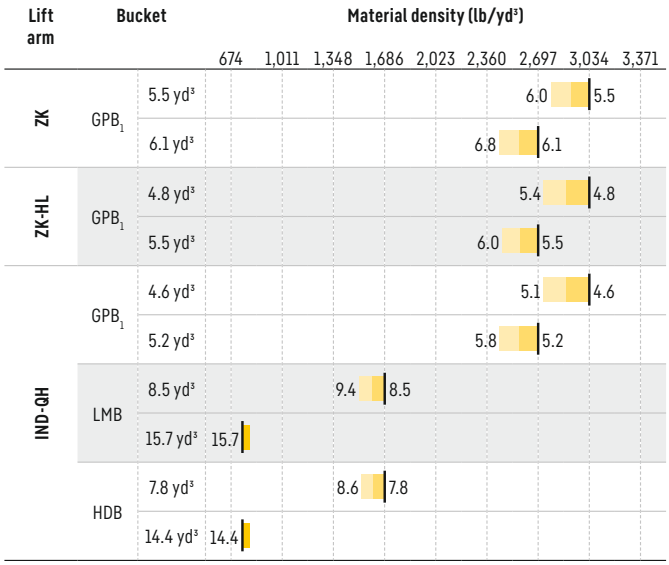
* The figures shown include the above tires, all lubricants, a full fuel tank, the ROPS / FOPS cab and the operator. Different tires and optional equipment will change the operating weight and payload.

For wheel loaders with large light material buckets and high-dump buckets or log grapples, we supply visual aids such as mirrors or cameras for front area monitoring that meet the requirements of the ISO 5006:2017 field of vision test.

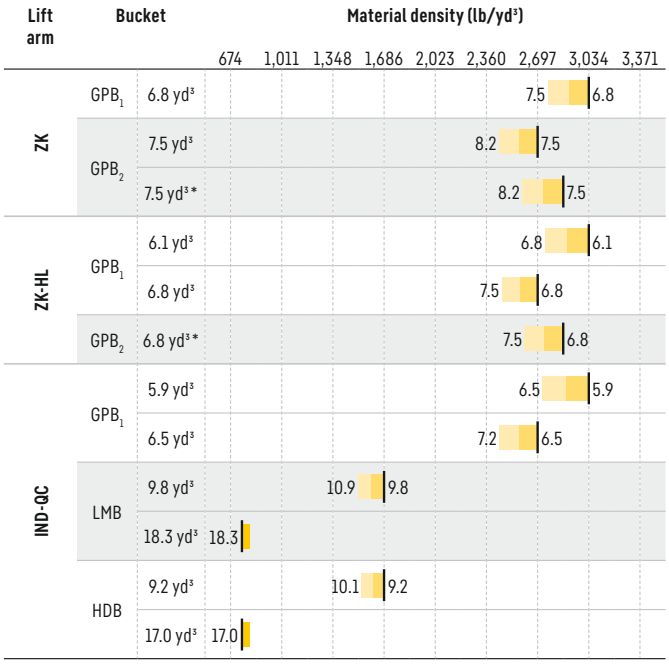
IND-QC = Industrial lift arm with parallel guidance incl. quick coupler

Bucket selection

L 566

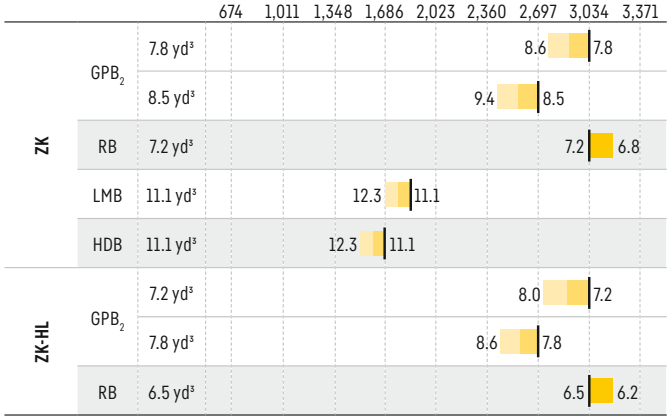


L 580



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

L 586



Bucket filling factor

Lift arm

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

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

For wheel loaders with large light material buckets and high-dump buckets or log grapples, we supply visual aids such as mirrors or cameras for front area monitoring that meet the requirements of the ISO 5006:2017 field of vision test.

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 / Grave	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 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.

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

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

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 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	434	10'1"	- 1.54"	Gravel, Industry, Wood (all ground conditions)
Continental	26.5R25 EM-Master	L3	220	9'9"	1.61"	Bulk material (firm ground conditions)
Continental	26.5R25 EM-Master	L4	1,164	9'7"	1.89"	Gravel, Industry, Wood (firm 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	3,774	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	335	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	- 9	10'	- 2.24"	Gravel, Industry, Wood (all ground conditions)
L 580 XPower						
Bridgestone	26.5R25 VJT	L3	353	9'9"	0.55"	Bulk material (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	392	10'1"	- 1.54"	Gravel, Industry, Wood (all ground conditions)
Continental	26.5R25 EM-Master	L3	220	9'9"	1.61"	Bulk material (firm ground conditions)
Continental	26.5R25 EM-Master	L4	1,164	9'9"	1.89"	Gravel, Industry, Wood (firm 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	3,774	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	291	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	- 53	10'	- 2.24"	Gravel, Industry, Wood (all ground conditions)
L 586 XPower						
Bridgestone	29.5R25 VJT	L3	322	10'8"	0.59"	Bulk material (firm ground conditions)
Bridgestone	29.5R25 VSDT	L5	3,020	10'9"	1.97"	Stone, Mining spoil (firm ground conditions)
Bridgestone	29.5R25 VSDL	L5	3,814	10'9"	2.36"	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	29.5R25 VSNT	L4	1,570	10'9"	1.97"	Gravel, Industry, Wood (firm ground conditions)
Continental	29.5R25 EM-Master	L3	317	10'8"	0.79"	Bulk material (firm ground conditions)
Continental	29.5R25 EM-Master	L4	1,111	10'9"	1.57"	Gravel, Industry, Wood (firm ground conditions)
Goodyear	29.5R25 TL-3A+	L3	1,173	10'10"	1.42"	Sand, Gravel, Earthworks, Clay (all ground conditions)
Goodyear	29.5R25 GP-4D	L4	1,111	10'8"	0.94"	Gravel, Industry, Wood (firm ground conditions)
Goodyear	29.5R25 RL-4K	L4	2,478	10'9"	1.73"	Gravel, Industry, Stone (firm ground conditions)
Goodyear	29.5R25 RL-5K	L5	3,527	10'10"	2.60"	Stone, Scrap, Recycling (firm ground conditions)
Goodyear	29.5R25 RT-5D	L5	3,325	10'10"	2.20"	Stone, Mining spoil (firm ground conditions)
Goodyear	29.5R25 RL-5S	L5	4,630	10'9"	2.60"	Scrap, Recycling, Slag (firm ground conditions)
Michelin	29.5R25 XHA2	L3	0	10'8"	0"	Sand, Gravel (all ground conditions)
Michelin	29.5R25 XLD D2A	L5	2,064	10'8"	1.02"	Stone, Mining spoil (firm ground conditions)
Michelin	29.5R25 XTXL	L4	1,336	10'9"	1.02"	Gravel, Industry, Wood (firm ground conditions)
Michelin	29.5R25 X MINE PRO	L5	3,113	10'10"	1.65"	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	19,245	21,275	24,275	27,560
Bucket capacity	yd³	2.9	3.4	3.9	4.5
Operating weight	lb	29,035	32,010	33,975	40,895
Engine output	kW / HP	116 / 156	129 / 173	138 / 185	163 / 219

Wheel loader




		L 556 XPower	L 566 XPower	L 580 XPower	L 586 XPower
Tipping load	lb	30,315	35,055	42,330	47,620
Bucket capacity	yd³	4.8	5.5	6.8	7.8
Operating weight	lb	43,210	52,690	60,955	71,870
Engine output	kW / HP	183 / 245	203 / 272	233 / 312	263 / 353

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Environmental Protection Can Help You Earn Money!

Always in fuel saving mode with the Liebherr fuel-saving calculator
100% power output with up to 30 % less fuel consumption – the Liebherr fuel saving calculator shows how much fuel can be saved compared to similar machines. The online application is available free of charge and provides a quick and simple overview of fuel savings per year in dollars. The calculation is based on average fuel consumption, operating hours per year and the current fuel price. The potential savings when operating a Liebherr wheel loader are impressive – see for yourself!

	Ø Gallons / hour*
L 526: 2.7 yd³	1.64
L 538: 3.4 yd³	1.83
L 546: 3.7 yd³	1.88
L 550: 4.5 yd³	2.35
L 556: 4.8 yd³	2.61
L 566: 5.5 yd³	3.25
L 580: 6.8 yd³	3.69
L 586: 7.8 yd³	4.42

* Wheel loader in operation with a customer-specific machine design.
Averages data from MyLiebherr Performance, calculated on 19/11/2024.

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
Additional handrails left	●	●	●	●	●
Additional handrails right	●	●	●	●	●
Air pre-cleaner TOP AIR	+	+	+	+	+
Automatic central lubrication system	+	+	+	+	●
Automatic delayed engine stop	+	+	+	+	+
Auxiliary heater (Additional heating with engine preheating)	+	+	+	+	+
Battery main switch (lockable)	●	●	●	●	●
Chassis protection front	+	+	+	+	+
Chassis protection rear	+	+	+	+	+
Combined inching-braking system	●	●	●	●	●
Cooling water pre-heating 230 V	+	+	+	+	+
Crash protection, rear	+	+	+	+	+
DEF tank	●	●	●	●	●
Dust protection for alternator	+	+	+	+	+
Electronic tractive force regulation for difficult ground conditions	●	●	●	●	●
Fire extinguisher 13 lb	+	+	+	+	+
Fuel pre-filter	●	●	●	●	●
Fuel pre-filter with pre-heating	+	+	+	+	+
Guard for headlights	+	+	+	+	+
Headlights halogen (double design on engine hood)	●	●	●	●	●
Headlights LED (double design on engine hood)	+	+	+	+	+
Large-mesh radiator	+	+	+	+	–
Liebherr biodegredable hydraulic oil	+	+	+	+	+
Liebherr SCR technology incl. diesel particle filter	●	●	●	●	●
Liebherr weighing system with “Truck Payload Assist”	+	+	+	+	+
Lockable doors and engine hood	●	●	●	●	●
Multi-disc limited slip differentials in both axles	●	●	●	●	●
Parking brake	●	●	●	●	●
Particle protection for radiator	+	+	+	+	+
Pre-heat system for cold starting	●	●	●	●	●
Ramming guard with guard	+	+	+	+	–
Rear license panel light	+	+	+	+	+
Reversible fan drive	●	●	●	●	●
Ride control	●	●	●	●	●
Road travel counterweight	●	●	+	–	–
Speed limitor 12.4 mph as a factory preset	+	+	+	+	+
Speed limitor V_{MAX} adjustable key on the control unit	●	●	●	●	●
Toolbox with toolkit	●	●	●	●	●
Towing hitch	●	●	●	●	●
Travel light (with additional headlights) on front section halogen	+	+	+	+	+
Travel light (with additional headlights) on front section LED	+	+	+	+	+
Tunnel package	+	+	+	–	–
Turbocharger insulation	+	+	+	+	+
Widening for mudguard	+	+	+	+	+

Equipment	L 550	L 556	L 566	L 580	L 586
1st additional electro-hydraulic function for continuous sweeper and snow blower operation	+	+	+	+	+
1st electro-hydraulic, proportional additional function, adjustable delivery flow	+	+	+	+	+
2nd additional electro-hydraulic function for continuous sweeper and snow blower operation	+	+	+	+	–
2nd electro-hydraulic, proportional additional function, adjustable delivery flow	+	+	+	+	–
Adjustable tipping speed	●	●	●	●	●
Automatic bucket return programmable	●	●	●	●	●
Automatic lift arm position and lowering programmable	●	●	●	●	●
Bucket tilt assistant	+	+	+	+	+
Float position	●	●	●	●	●
Fork carrier and pallet forks	+	+	+	+	+
High Lift arms	+	+	+	+	+
High-dump bucket	+	+	+	+	+
Hydraulic quick coupler	+	+	+	+	+
Hydraulic quick coupler Solidlink	+	+	+	+	–
Industrial lift arm	+	+	+	+	–
Lift arm Z-bar kinematics	●	●	●	●	●
Light material bucket	+	+	+	+	+
Load holding valves	+	+	+	+	+
Loading buckets incl. a range of cutting tools	+	+	+	+	+
Log grapple	+	+	+	+	–
Pressure relief for hydraulic additional function	+	+	+	+	+
Stroke limit damping	+	+	+	+	+
Tilt cylinder protection	+	+	+	+	+
Visualization of the equipment position	●	●	●	●	●
Working hydraulics lockout	●	●	●	●	●

• = Standard
+ = Option
– = not available

Equipment

Operator's cab	L 550	L 556	L 566	L 580	L 586
3 way continuously adjustable steering column (height-adjustable, tilting, folding)	●	●	●	●	●
Access assistance to facilitate cleaning windscreen	●	●	●	●	●
Adapter plate for additional fastening on the multi-function rail	+	+	+	+	+
Adaptive working lighting	+	+	+	+	+
Air conditioning system	●	●	●	●	●
Amber beacon swiveling / fixed	+	+	+	+	+
Audible horn control integrated into Liebherr control lever	+	+	+	+	+
Automatic air conditioning system	+	+	+	+	+
Bucket return with button integrated into Liebherr control lever	+	+	+	+	+
Cigarette lighter	●	●	●	●	●
Clothes hooks (2 pieces)	●	●	●	●	●
Cool box	+	+	+	+	+
Electronical theft protection with code	+	+	+	+	+
Electronical theft protection with key with / without driver identification	+	+	+	+	+
Exterior mirror, electrical adjustable, with heating	+	+	+	+	+
Exterior mirror, tiltable and adjustable	●	●	●	●	●
Fire extinguisher in cab 4 lb	●	●	●	●	●
First aid kit	+	+	+	+	+
Floor mat	●	●	●	●	●
Headlights front, double design, halogen	●	●	●	●	●
Headlights front, double design, LED	+	+	+	+	+
Headlights rear, double design, LED	+	+	+	+	+
Headlights rear, single design, halogen / LED	+	+	+	+	+
Headlights rear, triple design, LED	+	+	+	+	+
iebherr control lever with mini-joystick for 1st and 2nd electro-hydraulic, proportional additional function moving with operator's seat	+	+	+	+	+
Integrated tyre pressure monitoring system	+	+	+	+	+
Interior mirror left and right	+	+	+	+	+
Interior mirror right	●	●	●	●	●
Joystick steering	+	+	+	+	+
Liebherr Connect					
MyLiebherr Maintenance	+	+	+	+	+
MyLiebherr Performance	+	+	+	+	+
MyLiebherr Portal*	●	●	●	●	●
Liebherr control lever moving with operator's seat (incl. kick down, travel direction)	●	●	●	●	●
Liebherr key with remote control incl. Coming Home / Leaving Home function	+	+	+	+	+
Liebherr multi-lever control system moving with operator's seat (incl. kick down, travel direction)	+	+	+	+	+
Operating hour meter (integrated in display unit)	●	●	●	●	●
Operating hour meter (mechanic)	+	+	+	+	+
Operator seat "Comfort" – with longitudinal absorption and seat heating	●	●	●	●	●
Operator seat "Premium" – with longitudinal and transverse absorption, seat climate control	+	+	+	+	+

Operator's cab	L 550	L 556	L 566	L 580	L 586
Operator's cab without steering wheel / steering column (not available as street legal) – joystick steering only	+	+	+	+	+
Particle filter F7	●	●	●	●	●
Power socket 12 V	●	●	●	●	●
Power socket USB	●	●	●	●	●
Premiumdisplay (Touchscreen), with height adjustment and tilting function	●	●	●	●	●
Preparation for protective ventilation and dust filtrating device	+	+	+	+	+
Preparation for radio installation	●	●	●	●	●
Radio Liebherr "Comfort" (DAB+ / USB / AUX / BLUETOOTH / handsfree set)	+	+	+	+	+
Radio Liebherr "Standard" (USB / AUX)	+	+	+	+	+
Rear window heated electrically	●	●	●	●	●
Sliding window left/right	●	●	●	●	●
Slipcover for operator seat	+	+	+	+	+
Soundproof ROPS / FOPS cab	●	●	●	●	●
Steering stabilisation	●	●	●	●	●
Storage box left	●	●	●	●	●
Sunblind front	●	●	●	●	●
Sunblind rear	+	+	+	+	+
Wide angle mirror	+	+	+	+	+
Windscreen guard	+	+	+	+	+
Windscreen wiper single-sweep function with button	+	+	+	+	+
Wipe and wash system	●	●	●	●	●

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

• = Standard
+ = Option
– = not available
*** = activation required free of charge**

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

Here you can download our wheel loader brochures:

The Liebherr Group

Global and independent: more than 70 years of success
Liebherr was founded in 1949. With the development of the world's first mobile tower crane, Hans Liebherr laid the foundations of a successful family-run company which today comprises more than 150 companies on all continents with over 50,000 employees. The holding company of the Group is Liebherr-International AG in Bulle (Switzerland), whose shareholders are exclusively members of the Liebherr family.

Technology leadership and pioneering spirit
Liebherr regards itself as a pioneer. This spirit has enabled the company to make a decisive contribution to the technological history of many industries. Today, employees around the world still share the courage of the company founder to take new paths. They are all united by a passion for technology and fascinating products and the determination to perform outstanding work for their customers.

Widely diversified product program
Not only is Liebherr one of the biggest construction machine manufacturers in the world, it also provides high-quality, user-oriented products and services in a wide range of other areas. The product program includes the segments earthmoving machinery, material handling technology, deep foundation machines, mining, mobile and crawler cranes, tower cranes, concrete technology, maritime cranes, aerospace and transportation systems, gear technology and automation systems, refrigerators and freezers, components and hotels.

Customized solutions and maximum customer value
Liebherr solutions are characterized by maximum precision, outstanding implementation and exceptional longevity. Its mastery of key technologies enables the company to offer its customers customized solutions. For Liebherr, customer focus does not end with the product; it also encompasses a wide range of services that make a real difference.

www.liebherr.us

⚠ WARNING

Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
- Always start and operate the engine in a well-ventilated area.
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with exhaust system.
- Do not idle the engine except as necessary.

For more information go to www.P65warnings.ca.gov/diesel.

⚠ WARNING

This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.P65warnings.ca.gov.

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