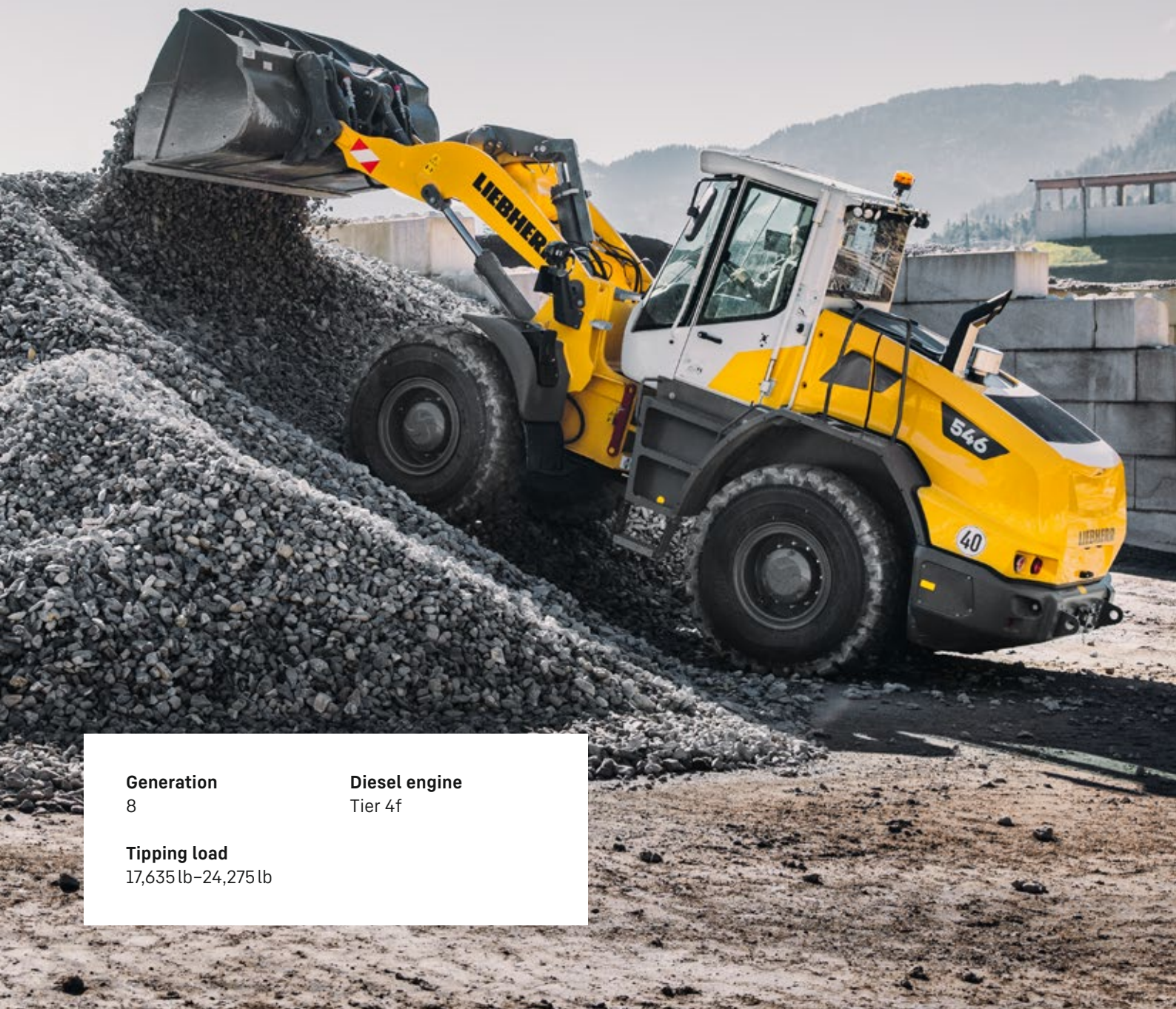

L 526 – L 546

LIEBHERR

Wheel loaders



Generation
8

Diesel engine
Tier 4f

Tipping load
17,635 lb–24,275 lb

Performance

Versatile all-rounders –
wheel loaders for every application

Economy

Efficient power packs –
low costs with high handling capacity

Reliability

Reliable performers –
proven quality for durable machines

Comfort

Intelligent engineering –
when technology combines comfort and safety

Maintainability

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





L 526

Tipping load, articulated
19,245 lb
Bucket capacity
2.9 yd³
Operating weight
29,035 lb
Engine output
116 kW / 156 HP

L 538

Tipping load, articulated
21,275 lb
Bucket capacity
3.4 yd³
Operating weight
32,010 lb
Engine output
129 kW / 173 HP

L 546

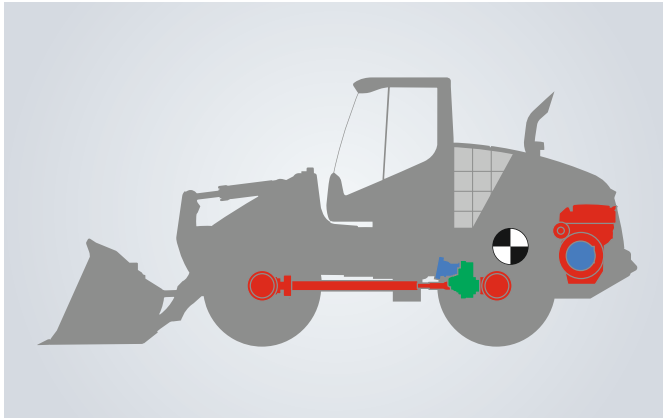
Tipping load, articulated
24,275 lb
Bucket capacity
3.9 yd³
Operating weight
33,975 lb
Engine output
138 kW / 185 HP

Performance



Versatile all-rounders – wheel loaders for every application

The optimized z-bar kinematics of Liebherr's mid-size wheel loaders are powerful and performance-oriented, and offer countless application options. In combination with the proven Liebherr travel drive and the stately selection of larger standard buckets, the variety of applications is taken to a new level.



Powerful machine design

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



Continuous drive system

- The Liebherr travel drive enables continuous acceleration in all speed ranges, without noticeable gear changes and without interrupting the traction
- Higher maximum motor torques enable even better acceleration and faster operation
- Lowering engine speeds provide further fuel savings and thus lower operating costs



Powerful, optimized z-bar kinematics

- New, optimized z-bar kinematics enable around 20% greater breakout forces than the previous generation
- Faster tipping movements and cycle times mean more efficient operation
- Longer bucket arms and the resulting higher reach and greater dumping heights make daily operations even easier
- State-of-the-art e-hydraulic components enable functions such as optimum parallel guidance of fork prongs at the touch of a button



Wide variety for optimum material handling

- The diverse selection of factory equipment means that the right tool is always available
- Larger standard buckets ensure a higher handling capacity in the same amount of time
- Robust bucket design enables fast and efficient filling of the bucket
- Modular bucket design allows individual configuration, suitable for any application

Economy



Efficient power packs – 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 economic success. The efficient hydrostatic travel drive and 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 travel drive with LPE provides enormous fuel savings
- At the highest efficiency, operating costs are reduced and profitability is increased



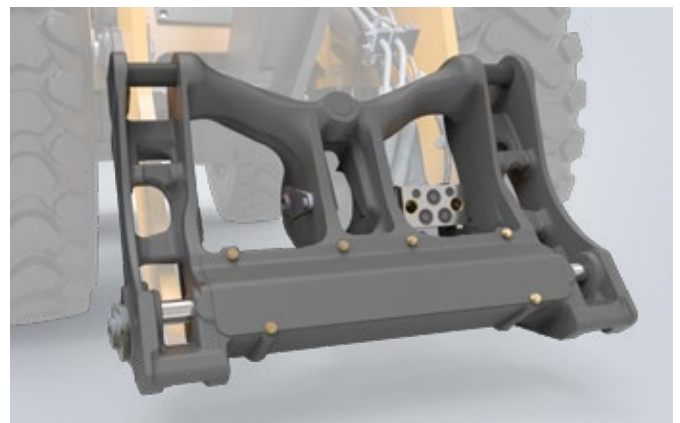
Intelligent solutions for decreasing wear

- The Liebherr travel drive brakes autonomously, the service brake only has a supporting effect and thus remains almost wear-free
- Continuous tractive force control combined with automatic self-locking differentials prevents wheel spin, increasing productivity, and significantly reducing tire wear



Efficient management with LiDAT

- Liebherr's own data transmission and tracking system
- Optimal management, monitoring and control of the entire fleet in terms of machine data acquisition, data analysis, fleet management and service
- Evaluations of machine utilization and fuel consumption ensure the machines are managed economically
- Standard availability of LiDAT incl. 1st year of free use



Solidlink

- Optional hydraulic quick coupler with integrated, automatic hydraulic coupling system
- Hydraulic working tools can be changed in seconds directly from the cab
- The changeover is fully automatic, safe and leak-free
- Time savings thanks to greater convenience leads to higher productivity and saves time and money

Reliability



Reliable performers – proven quality for long-lasting machines

For the new mid-size wheel loaders, Liebherr has drawn on decades of experience in the development and production of wheel loaders. At the same time, the engineers incorporated and implemented customer requests into the development process. This has resulted in powerful and high-performance machines, which stand out for their premium quality and reliability thanks to sophisticated technology and perfectly matched components.



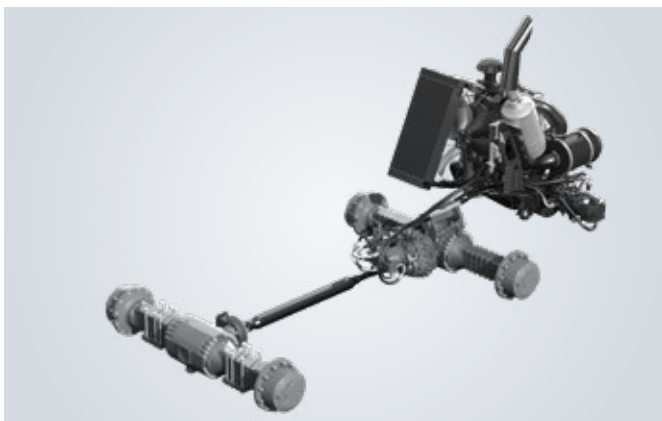
High-performance, durable components

- Decades of experience in the development, design, and manufacture of components ensure robustness and durability
- Ideal coordination of the individual components for maximum performance
- High-quality Liebherr standards ensure reliability, even under the toughest operating conditions



Uninterrupted operation

- Diesel oxidation catalyst (DOC), diesel particulate filter (DPF), and selective catalytic reduction (SCR) are installed for exhaust gas treatment and effectively reduce pollutant emissions
- The diesel particulate filter can be unblocked during operation via active regeneration, thus enabling an uninterrupted work process
- Longer intervals between regenerations increase productivity, save fuel, and reduce operating costs



Reliable Liebherr drive design

- The proven Liebherr hydrostatic travel drive is extremely robust and powerful, ensuring a long service life for the machine
- The enlarged travel motors and travel pumps effectively increase the tractive force and thus provide a greater power output



Optimal cooling capacity

- The radiator is installed behind the cab, the cleanest place in the wheel loader
- Cooling air is drawn in behind the cab and flows through the entire engine compartment
- Demand-controlled cooling via thermostatic control for reliable operation
- High machine availability due to less contamination on the radiator

Comfort



Intelligent engineering – when technology combines comfort and safety

Into the comfort zone – into the cab of Liebherr's mid-size wheel loaders. The modern cab design is optimally adapted to the day-to-day needs of the machine operators. The spacious and ergonomically designed operator's cab offers perfect conditions for comfortable and productive work, and can be individually adjusted to the respective operator.



Modern cabin design for greater productivity

- The modern, ergonomic cab design enables concentrated and fatigue-free work
- The displays, controls, and the operator's seat are perfectly coordinated and form an ergonomic unit
- Individual adjustment options for the operator's seat and the steering wheel mean that the operator has a pleasant working atmosphere with plenty of legroom
- Numerous storage compartments and well thought-out solutions provide plenty of space in the cab on all sides



Keep an eye on everything – for hazard-free work

- The extensive use of glass in the cab provides excellent all-round visibility of the working attachment and operating area
- The engine hood was designed with optimized visibility in mind and this together with the optionally integrated reversing camera ensure an excellent overview and thus provide greater safety



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 orientation of the joystick corresponds to the desired wheel loader articulation angle
- Speed-dependent force feedback ensures precise and safe steering behavior
- Joystick steering only enables an operator's cab without a steering wheel and steering column, so there is no need to reach around 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
- Front space monitoring ensures optimized visibility when using large working tools
- Skyview 360° simplifies monitoring of the entire machine environment on a separate display in the 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 simple and quick 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 conveniently. This saves time and money.



Secure and free service access

- All maintenance points are accessible safely, easily, quickly and cleanly
- Non-slip treads and sturdy handrails ensure maximum safety for cleaning work
- The entire engine compartment is accessible by opening only one hood
- All points for daily maintenance are conveniently accessible from the ground



Low maintenance due to intelligent design

- 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
- Active regeneration of exhaust gas treatment saves time and money



Increased efficiency down to the smallest detail

- Safe access to the articulation area of the wheel loader
- Simplified accessibility of the refueling pump enables quick and easy fuel filling
- Access to the SCR tank is in an optimal position directly next to the diesel tank nozzle



Liebherr service

- Effective and timely support from a well-staffed service network
- Fast and safe provision of service by qualified service specialists

Focus on performance and power

Lift arms

Solid and versatile – the intelligently designed lift arms with the new optimized z-bar kinematics stand out for their faster tilting movements and cycle times. The increased range in tilting angles, increased digging depth, and push-button parallel guidance for fork operation increase productivity tremendously. More developed bucket arms and tilt cylinders as well as a stronger design for the front section make the wheel loader a real powerhouse with unlimited application possibilities.

Performance bucket

Individual and durable – the enlarged standard buckets provide more bucket capacity as well as more free cut, resulting in significantly more handling capacity per loading cycle. The modular bucket concept allows individual configuration for each operation and ensures maximum handling performance. The optimized design of the quick coupler improves visibility and provides an optimal view of the load, thereby increasing safety. The optional bucket tipping assistant with automatic knocking and metered shaking out offer convenience in daily work that should not be dispensed with.





Design

All-round dynamic – the new wheel loaders stand out for their well thought-out design, starting with the external, modern appearance and ending with the dynamic travel drive at the heart of the machine. Optimized and increasingly developed all around, Liebherr wheel loaders offer state-of-the-art engineering down to the smallest detail.

Technology

Powerful and robust – the enlarged working pumps and automatic pressure relief for hydraulic auxiliary circuits ensure that work can be undertaken in a safe and comfortable manner. The same tasks can thus be completed even quicker. The optimized tractive force ensures that the excavated material can be quickly piled and moved around. The longer wheelbase increases stability and ride comfort.

Technical data



Diesel engine

	L 526	L 538	L 546
Diesel engine	4045CB551	4045CB551	6068HB551
Design	Water-cooled turbocharged in-series engine with cooled exhaust gas recirculation		
Cylinder inline	4	4	6
Fuel injection process	Electronic Common Rail high-pressure injection		
Output to	114 / 153	126 / 169	148 / 198
ISO 9249 - SAE J1349	1,800	1,800	2,000
Rated output to			
ISO 14396/ECE-R.120	116 / 156	129 / 173	138 / 185
Nominal speed	2,200	2,200	2,200
Max. torque to	492	492	597
ISO 14396	1,600	1,600	1,600
Displacement	275	275	415
Displacement	4.5	4.5	6.8
Bore / Stroke	4.17" / 5.0"	4.17" / 5.0"	4.17" / 5.0"
Tier 4f			
Harmful emissions values	In accordance with EPA 40 CFR part 1039 and CARB 13 CCR section 2423		
Emission control	SCR technology and closed diesel particle filter system		
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
Battery	Ah 2x 135	2x 135	2x 135
Alternator	V/A 24 / 100	24 / 100	24 / 100
Starter	V/HP 24 / 10.5	24 / 10.5	24 / 10.5



Driveline

Continuous hydrostatic driveline

Design	Swash plate type variable flow pump and two variable axial piston motors in closed loop circuit and axle transfer case. Direction of travel is reversed by changing the flow-direction of the variable-displacement pump
Filtration	Suction return line filter for closed circuit
Control	By travel and inching pedal. The inching pedal makes it possible to control the tractive and thrust forces steplessly at full engine speed. The Liebherr control lever is used to control forward and reverse travel
Travel speed range	Speed range 1 _____ 0- 5.0 mph Speed range A1-2 _____ 0- 9.9 mph Speed range A1-3 _____ 0-24.9 mph* forward and reverse Speeds quoted apply with the tires indicated as standard on loader model.

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



Brakes

Wear-free service brake

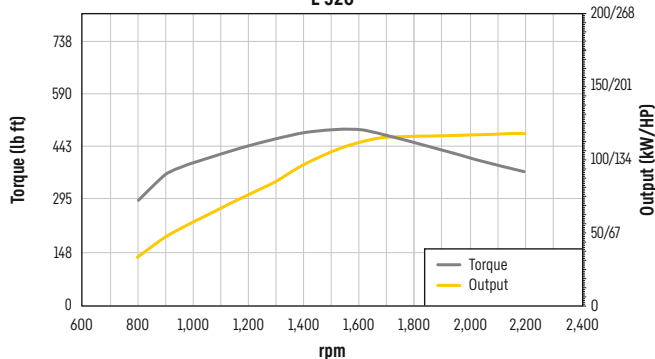
Self-locking of the hydrostatic driveline (acting on all four wheels) and additional pump-accumulator brake system with wet multi-disc brakes located in the differential housing (two separate brake circuits)

Parking brake

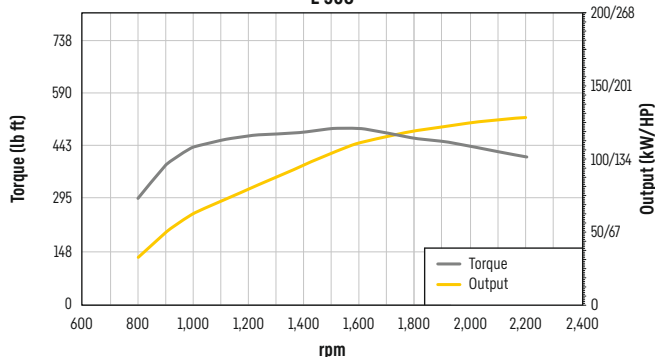
Electro-hydraulically actuated spring-loaded disc brake system on the front axle

The braking system meets the requirements of the ISO 3450.

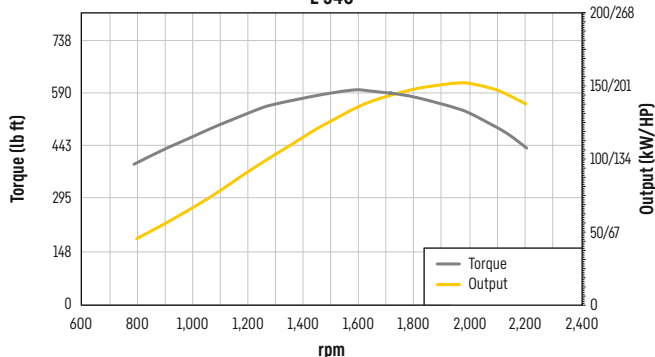
L 526



L 538



L 546



Axles

	L 526	L 538	L 546
Four-wheel drive			
Front axle	Fixed		
Rear axle	Centre pivot, with 10° oscillating angle to each side		
Height of obstacles which can be driven over	ft in	1'7"	1'7"
Differentials	Automatic limited-slip differentials with 45 % locking action in both axles		
Reduction gear	Planetary final drive in wheel hubs		
Track width	6'3" 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 steering cylinders
Angle of articulation	40° to each side
Emergency steering	Electro-hydraulic emergency steering system

Attachment hydraulics

	L 526	L 538	L 546
Design	"Load-sensing" variable axial piston 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 Auto lifting and lowering using Liebherr control lever, float position using Liebherr control lever		
Tilt function	Tilt back, neutral, dump Automatic bucket return-to-dig for tilting in and out using Liebherr control lever		
Max. flow	gpm	45	53
Max. pressure	psi	5,076	5,076

Attachment

	L 526	L 538	L 546
Geometry	Powerful, optimised z-bar kinematics with one tilt cylinder, optional hydraulic quick coupler		
Bearings	Sealed		
Cycle time at nominal load	ZK	ZK	ZK
Lifting	s	5.0	5.5
Dumping	s	1.2	1.9
Lowering (empty)	s	3.9	4.9

Operator's cab

Design	Elastic 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 Driver's cab door with 105° opening angle and opening window with 5° gap opener or 170° opening, right side sliding side window, front windscreen made of laminated safety glass, green tinted as standard, side panels with single-pane safety glass ESG, green tinted, heated rear window ESG. Continuously adjustable steering column
Liebherr operator's seat	6 way adjustable, vibration-damped operator's seat "Comfort" with seat, depth and incline adjustment as standard (air-cushioned with seat heating adjustable to operator's weight), Liebherr control lever mounted into the operator's seat as standard
Cab heating and ventilation	2-level air control, cooling water heating, defroster and air conditioning via manual nozzle position or electronic valve control for head and front area, as well as electronic fresh / recirculated air control, electrically heated rear window, filter system with pre-filter, fresh air filter and recirculated air filter, easily replaced, air condition / automatic air conditioning system with new improved cooling output optional

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 526	L 538	L 546
Sound pressure level to ISO 6396			
L _{PA} (inside cab)	dB(A)	69	69
Sound power level to 2000/14/EG			
L _{WA} (surround noise)	dB(A)	102	104

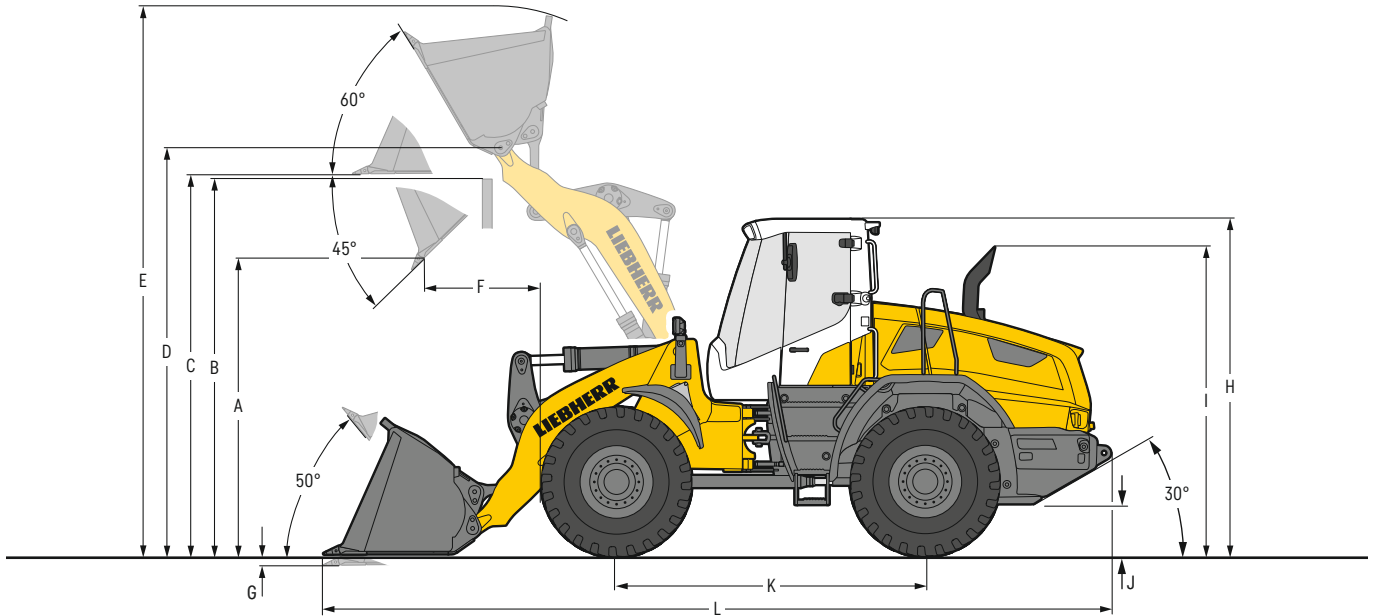
Capacities

	L 526	L 538	L 546
Fuel tank (plastic design)	gal	54.2	54.2
Fuel tank (steel version, optional)	gal	54.2	54.2
DEF tank	gal	5.3	5.3
Engine oil (inclusive filter change)	gal	5.5	6.2
Transmission	gal	0.7	0.7
Coolant	gal	7	7
Front axle / wheel hubs	gal	4.2/0.7	5/0.92
Rear axle / wheel hubs	gal	4.2/0.7	5/0.92
Hydraulic tank	gal	25	25
Hydraulic system, total	gal	44.9	47.6

Dimensions

Loading bucket

L 526 - L 546



Loading bucket

	L 526			L 538			L 546		
	ZK	ZK-QC	ZK	ZK	ZK-QC	ZK	ZK	ZK-QC	ZK
Geometry									
Cutting tools	T	T	T	T	T	T	T	T	T
Lift arm length	ft in 8'4"	8'4"	8'4"	8'8"	8'8"	8'8"	8'8"	8'8"	8'8"
Bucket capacity according to ISO 7546**	yd ³ 2.9	2.6	3.1	3.4	3.1	3.7	3.9	3.7	4.2
Specific material density	lb/yd ³ 3,034	3,034	2,697	3,034	3,034	2,697	3,034	3,034	2,697
Bucket width	ft in 8'3"	8'3"	8'3"	8'11"	8'3"	8'11"	8'11"	8'11"	8'11"
A Dumping height at max. lift height and 45° discharge	ft in 9'6"	9'3"	9'4"	9'9"	9'3"	9'8"	9'6"	9'2"	9'5"
B Dump-over height	ft in 11'4"	11'4"	11'4"	11'7"	11'7"	11'7"	11'7"	11'7"	11'7"
C Max. height of bucket bottom	ft in 11'10"	11'10"	11'10"	12'2"	12'2"	12'2"	12'2"	12'2"	12'2"
D Max. height of bucket pivot point	ft in 12'9"	12'9"	12'9"	13'1"	13'1"	13'1"	13'1"	13'1"	13'1"
E Max. operating height	ft in 16'9"	16'11"	16'12"	17'3"	17'8"	17'5"	17'7"	17'10"	17'9"
F Reach at max. lift height and 45° discharge	ft in 3'1"	3'4"	3'3"	3'7"	3'12"	3'8"	3'9"	4'1"	3'11"
G Digging depth	ft in 4"	4"	4"	4"	4"	4"	4"	4"	4"
H Height above operator's cab ¹⁾	ft in 10'8"	10'8"	10'8"	10'8"	10'8"	10'8"	10'8"	10'8"	10'8"
I Height above exhaust	ft in 9'8"	9'8"	9'8"	9'8"	9'8"	9'8"	9'8"	9'8"	9'8"
J Ground clearance	ft in 1'5"	1'5"	1'5"	1'5"	1'5"	1'5"	1'5"	1'5"	1'5"
K Wheelbase	ft in 9'9"	9'9"	9'9"	9'11"	9'11"	9'11"	9'11"	9'11"	9'11"
L Overall length	ft in 24'6"	24'11"	24'9"	25'	25'7"	25'2"	25'4"	25'9"	25'6"
Turning circle radius over tyres	ft in 17'7"	17'7"	17'7"	17'9"	17'9"	17'9"	17'9"	17'9"	17'9"
Turning circle radius over outside bucket edge	ft in 19'6"	19'8"	19'7"	20'2"	20'	20'2"	20'3"	20'4"	20'3"
Breakout force (SAE)	lbf 24,730	22,480	23,605	28,100	28,855	26,980	31,475	29,225	30,350
Tipping load, straight*	lb 22,270	20,615	22,155	24,690	22,930	24,580	27,560	25,575	27,340
Tipping load, fully articulated*	lb 19,245	17,635	19,070	21,275	19,580	21,185	24,275	22,600	24,030
Operating weight*	lb 29,035	29,917	29,125	32,010	32,850	32,080	33,975	34,855	34,040
Tire size	20.5R25 L3			20.5R25 L3			20.5R25 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 26.

¹⁾ With the optional "comfort safety door (can be opened 180°)", the "H" value increases by 5" when door is open.

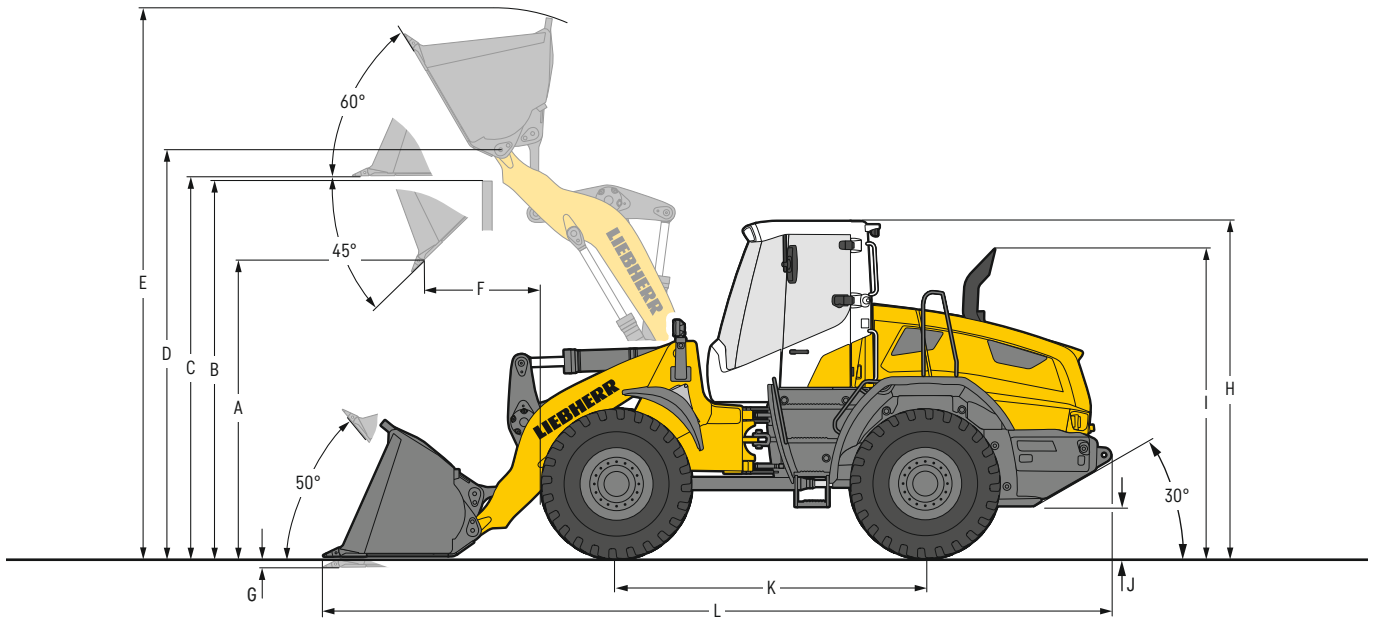
ZK = Z-bar linkage

ZK-QC = Z-bar linkage incl. quick coupler

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

Dimensions

High lift arm/standard bucket



L 526 - L 546

Loading bucket

	L 526		L 538		L 546	
	ZK	ZK-QC	ZK	ZK-QC	ZK	ZK-QC
Geometry						
Cutting tools	T	T	T	T	T	T
Lift arm length	ft in 9'10"	9'10"	9'10"	9'10"	9'10"	9'10"
Bucket capacity according to ISO 7546**	yd ³ 2.6	2.6	3.1	2.9	3.7	3.4
Specific material density	lb/yd ³ 2,697	2,528	2,697	2,697	2,697	2,697
Bucket width	ft in 8'3"	8'3"	8'3"	8'3"	8'11"	8'11"
A Dumping height at max. lift height and 45° discharge	ft in 11'7"	11'2"	11'6"	11'2"	11'5"	11'1"
B Dump-over height	ft in 13'2"	13'2"	13'4"	13'4"	13'4"	13'4"
C Max. height of bucket bottom	ft in 13'9"	13'9"	13'12"	13'12"	13'12"	13'12"
D Max. height of bucket pivot point	ft in 14'8"	14'8"	14'10"	14'10"	14'10"	14'10"
E Max. operating height	ft in 18'5"	18'10"	19'1"	19'3"	19'2"	19'5"
F Reach at max. lift height and 45° discharge	ft in 2'9"	3'2"	3'1"	3'4"	3'2"	3'6"
G Digging depth	ft in 5"	5"	5"	5"	5"	5"
H Height above operator's cab ¹⁾	ft in 10'8"	10'8"	10'8"	10'8"	10'8"	10'8"
I Height above exhaust	ft in 9'8"	9'8"	9'8"	9'8"	9'8"	9'8"
J Ground clearance	ft in 1'5"	1'5"	1'5"	1'5"	1'5"	1'5"
K Wheelbase	ft in 9'9"	9'9"	9'11"	9'11"	9'11"	9'11"
L Overall length	ft in 26'2"	26'9"	26'6"	26'11"	26'8"	27'1"
Turning circle radius over tyres	ft in 17'7"	17'7"	17'9"	17'9"	17'9"	17'9"
Turning circle radius over outside bucket edge	ft in 20'4"	20'6"	20'6"	20'8"	20'10"	20'12"
Breakout force (SAE)	lbf 25,855	23,605	29,225	26,980	32,600	30,350
Tipping load, straight*	lb 17,415	15,875	20,505	19,005	22,950	21,385
Tipping load, fully articulated*	lb 14,905	13,450	17,615	16,205	20,283	18,830
Operating weight*	lb 29,610	30,580	32,340	33,225	34,350	35,275
Tire size	20.5R25 L3		20.5R25 L3		20.5R25 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 26.

¹⁾ With the optional "comfort safety door (can be opened 180°)", the "H" value increases by 5" when door is open.

ZK = Z-bar linkage

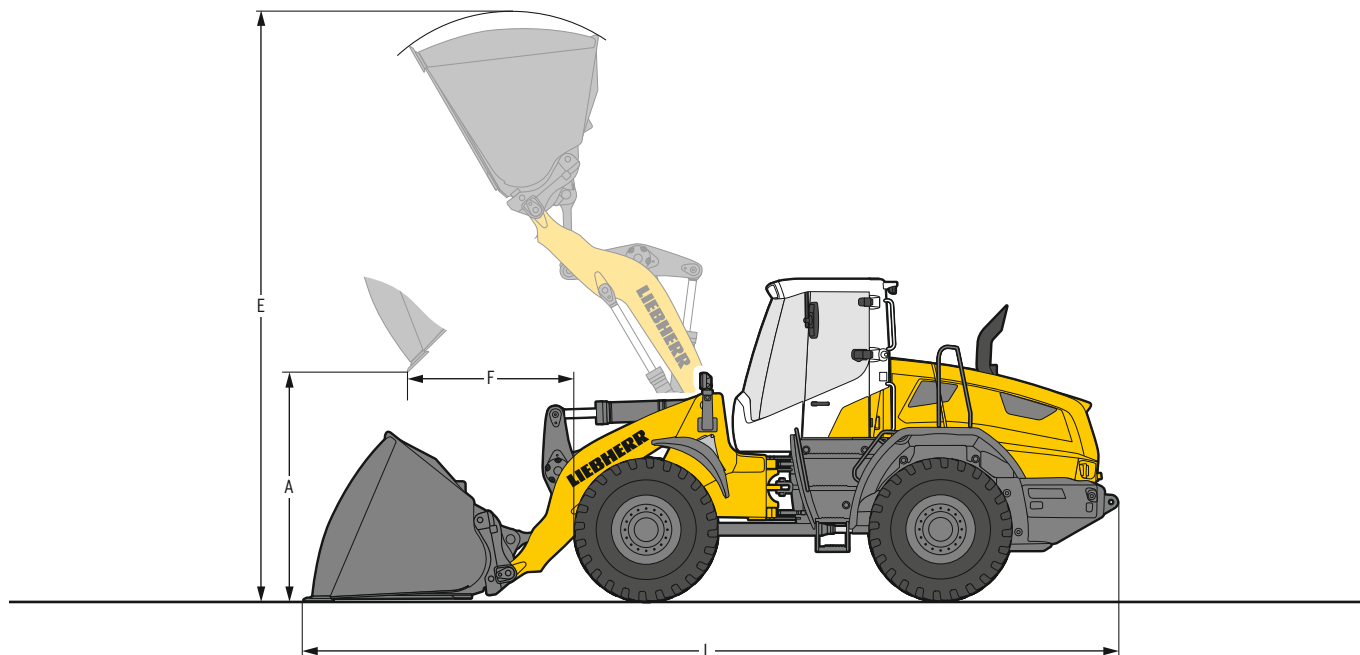
ZK-QC = Z-bar linkage incl. quick coupler

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

Attachment

Light material bucket

L 526 - L 546



Heavy material density

	L 526		L 538		L 546	
Geometry	ZK	ZK-QC	ZK	ZK-QC	ZK	ZK-QC
Cutting tools	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE
Bucket capacity	yd ³	4.6	4.6	5.2	5.2	5.9
Specific material density	lb/yd ³	1,770	1,686	1,770	1,686	1,770
Bucket width	ft in	8'10"	8'10"	8'10"	8'10"	8'10"
A Dumping height at max. lift height	ft in	8'6"	8'2"	8'6"	8'3"	8'3"
E Max. operating height	ft in	17'5"	17'9"	18'1"	18'5"	18'5"
F Reach at maximum lift height	ft in	4'	4'4"	4'8"	4'11"	5'2"
L Overall length	ft in	25'5"	25'11"	26'2"	26'6"	26'7"
Tipping load, straight*	lb	21,165	19,620	23,370	22,045	26,060
Tipping load, fully articulated*	lb	18,145	16,735	20,040	18,785	22,355
Operating weight*	lb	29,650	30,620	32,605	33,555	34,615
Tire size		20.5R25 L3		20.5R25 L3		20.5R25 L3



Light material density

	L 526	L 538	L 546
Geometry	ZK-QC	ZK-QC	ZK-QC
Cutting tools	BOCE	BOCE	BOCE
Bucket capacity	yd ³	7.2	8.5
Specific material density	lb/yd ³	843	843
Bucket width	ft in	8'10"	8'10"
A Dumping height at max. lift height	ft in	7'3"	7'2"
E Max. operating height	ft in	19'	19'11"
F Reach at maximum lift height	ft in	5'3"	6'
L Overall length	ft in	27'3"	28'1"
Tipping load, straight*	lb	18,740	20,945
Tipping load, fully articulated*	lb	15,805	17,680
Operating weight*	lb	31,305	34,435
Tire size		20.5R25 L3	20.5R25 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)

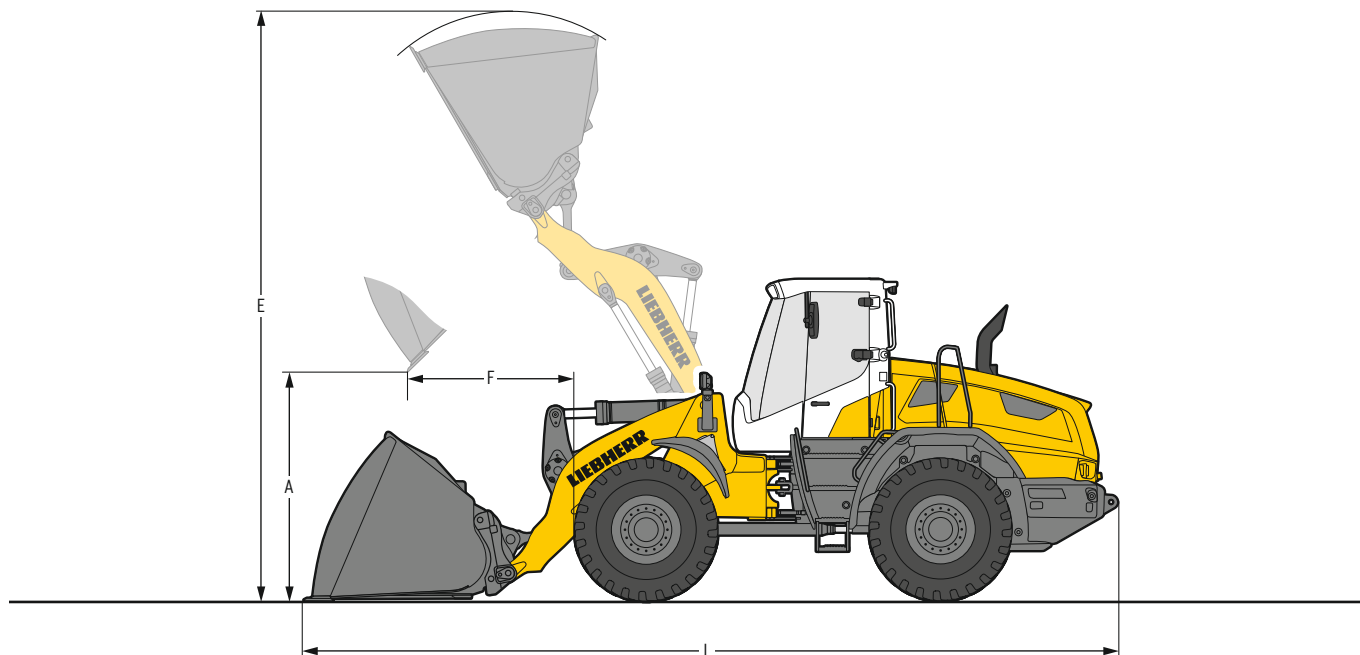
ZK = Z-bar linkage

ZK-QC = Z-bar linkage incl. quick coupler

BOCE = Bolt-on cutting edge

Attachment

High lift arm/light material bucket



L 526 – L 546



Heavy material density

	L 526		L 538		L 546	
	ZK	ZK-QC	ZK	ZK-QC	ZK	ZK-QC
Geometry						
Cutting tools	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE
Bucket capacity	yd ³ 4.6	4.6	5.2	5.2	5.9	5.9
Specific material density	lb/yd ³ 1,433	1,348	1,433	1,348	1,433	1,348
Bucket width	ft in 8'10"	8'10"	8'10"	8'10"	8'10"	8'10"
A Dumping height at max. lift height	ft in 10'5"	10'1"	10'3"	10'	10'	9'10"
E Max. operating height	ft in 19'3"	19'7"	19'11"	20'3"	20'3"	20'7"
F Reach at maximum lift height	ft in 3'10"	4'2"	4'2"	4'5"	4'6"	4'8"
L Overall length	ft in 27'3"	27'9"	27'7"	27'12"	28'	28'4"
Tipping load, straight*	lb 16,315	14,990	19,245	18,080	21,605	20,370
Tipping load, fully articulated*	lb 13,845	12,610	16,425	15,255	18,410	17,240
Operating weight*	lb 30,315	31,285	33,050	33,995	35,055	36,000
Tire size	20.5R25 L3		20.5R25 L3		20.5R25 L3	



Light material density

	L 526	L 538	L 546
	ZK-QC	ZK-QC	ZK-QC
Geometry			
Cutting tools	BOCE	BOCE	BOCE
Bucket capacity	yd ³ 7.2	8.5	9.8
Specific material density	lb/yd ³ 843	843	843
Bucket width	ft in 8'10"	8'10"	8'10"
A Dumping height at max. lift height	ft in 9'7"	9'4"	9'11"
E Max. operating height	ft in 20'4"	21'2"	21'9"
F Reach at maximum lift height	ft in 4'8"	5'1"	5'6"
L Overall length	ft in 28'5"	28'12"	29'6"
Tipping load, straight*	lb 14,575	17,420	19,620
Tipping load, fully articulated*	lb 12,215	14,575	16,425
Operating weight*	lb 31,635	34,500	36,710
Tire size	20.5R25 L3		20.5R25 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)

ZK = Z-bar linkage

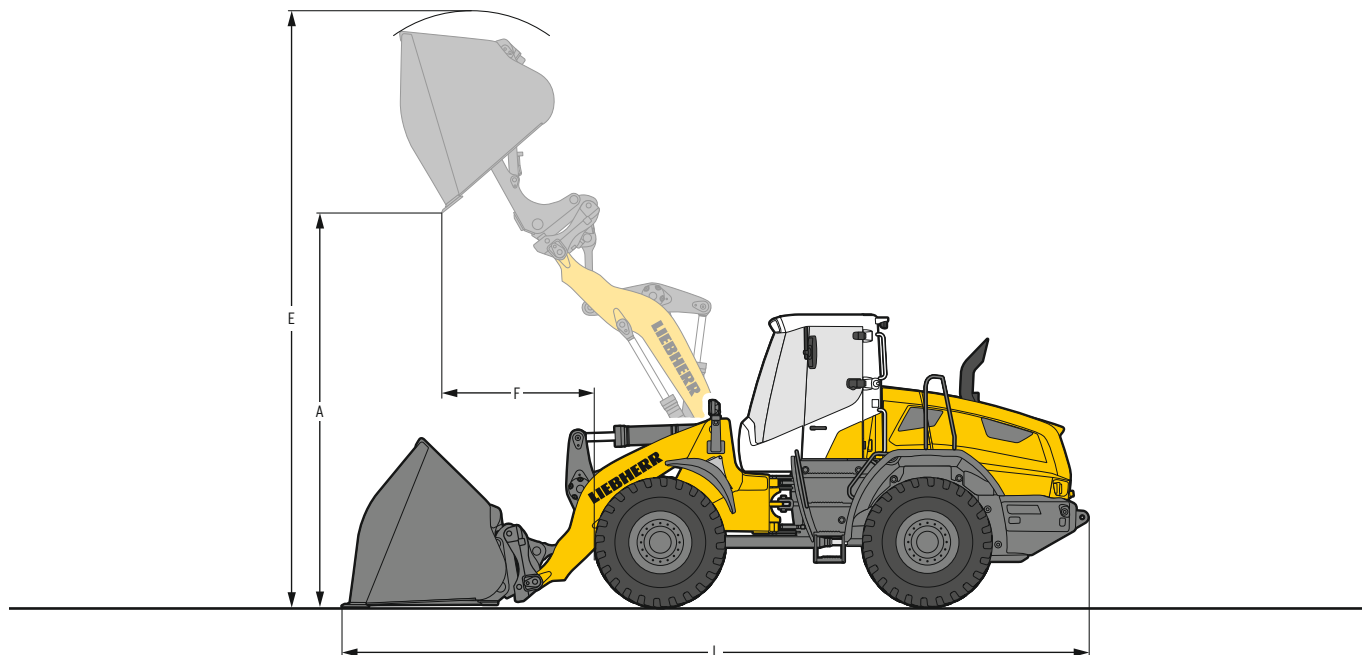
ZK-QC = Z-bar linkage incl. quick coupler

BOCE = Bolt-on cutting edge

Attachment

High-Dump bucket

L 526 - L 546



Heavy material density

	L 526		L 538		L 546	
Geometry	ZK	ZK-QC	ZK	ZK-QC	ZK	ZK-QC
Cutting tools	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE
Bucket capacity	yd ³	4.6	4.6	5.2	5.2	5.9
Specific material density	lb/yd ³	1,854	1,770	1,854	1,770	1,854
Bucket width	ft in	8'10"	8'10"	8'10"	8'10"	8'10"
A Dumping height at max. lift height	ft in	14'9"	15'1"	14'11"	15'4"	14'9"
E Max. operating height	ft in	20'4"	20'10"	20'10"	21'6"	21'2"
F Reach at maximum lift height	ft in	4'2"	4'5"	4'8"	4'10"	4'11"
L Overall length	ft in	25'11"	26'4"	26'5"	26'8"	26'9"
Tipping load, straight*	lb	19,180	17,860	21,605	20,505	24,470
Tipping load, fully articulated*	lb	16,205	15,060	18,387	17,330	20,700
Operating weight*	lb	31,110	31,880	34,040	34,790	36,045
Tire size		20.5R25 L3		20.5R25 L3		20.5R25 L3



Light material density

	L 526	L 538	L 546
Geometry	ZK-QC	ZK-QC	ZK-QC
Cutting tools	BOCE	BOCE	BOCE
Bucket capacity	yd ³	5.9	7.2
Specific material density	lb/yd ³	843	843
Bucket width	ft in	8'10"	8'10"
A Dumping height at max. lift height	ft in	14'4"	14'5"
E Max. operating height	ft in	21'10"	22'8"
F Reach at maximum lift height	ft in	5'1"	5'9"
L Overall length	ft in	27'3"	27'11"
Tipping load, straight*	lb	17,860	20,130
Tipping load, fully articulated*	lb	14,950	16,930
Operating weight*	lb	32,165	35,120
Tire size		20.5R25 L3	20.5R25 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)

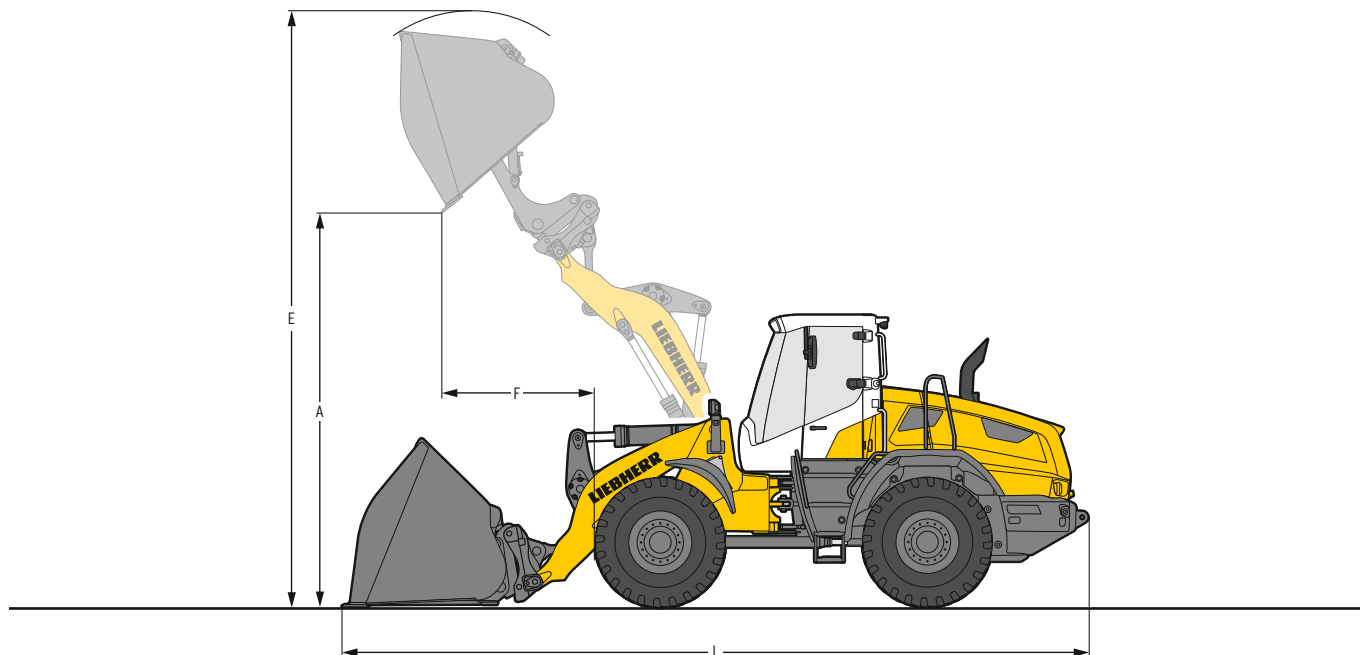
ZK = Z-bar linkage

ZK-QC = Z-bar linkage incl. quick coupler

BOCE = Bolt-on cutting edge

Attachment

High lift arm/high dump bucket



Heavy material density

	L 526		L 538		L 546	
	ZK	ZK-QC	ZK	ZK-QC	ZK	ZK-QC
Geometry	ZK	ZK-QC	ZK	ZK-QC	ZK	ZK-QC
Cutting tools	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE
Bucket capacity	yd ³ 4.6	4.6	5.2	5.2	5.9	5.9
Specific material density	lb/yd ³ 1,433	1,348	1,433	1,348	1,433	1,348
Bucket width	ft in 8'10"	8'10"	8'10"	8'10"	8'10"	8'10"
A Dumping height at max. lift height	ft in 16'8"	17'1"	16'8"	17'2"	16'6"	16'11"
E Max. operating height	ft in 22'4"	22'9"	22'8"	23'3"	22'11"	23'5"
F Reach at maximum lift height	ft in 4'	4'3"	4'3"	4'4"	4'6"	4'8"
L Overall length	ft in 27'9"	28'2"	27'10"	28'2"	28'2"	28'7"
Tipping load, straight*	lb 14,550	13,450	17,640	16,625	20,060	18,960
Tipping load, fully articulated*	lb 12,105	11,090	14,860	13,890	16,840	15,785
Operating weight*	lb 31,790	32,560	34,500	35,252	36,510	37,280
Tire size	20.5R25 L3		20.5R25 L3		20.5R25 L3	



Light material density

	L 526	L 538	L 546
	ZK-QC	ZK-QC	ZK-QC
Geometry	ZK-QC	ZK-QC	ZK-QC
Cutting tools	BOCE	BOCE	BOCE
Bucket capacity	yd ³ 5.2	6.5	7.9
Specific material density	lb/yd ³ 843	843	843
Bucket width	ft in 8'10"	8'10"	8'10"
A Dumping height at max. lift height	ft in 16'8"	16'5"	15'2"
E Max. operating height	ft in 23'2"	23'11"	24'5"
F Reach at maximum lift height	ft in 4'6"	4'11"	5'3"
L Overall length	ft in 28'5"	28'11"	29'4"
Tipping load, straight*	lb 13,670	16,535	18,850
Tipping load, fully articulated*	lb 11,245	13,715	15,720
Operating weight*	lb 32,520	35,385	37,410
Tire size	20.5R25 L3	20.5R25 L3	20.5R25 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)

ZK = Z-bar linkage

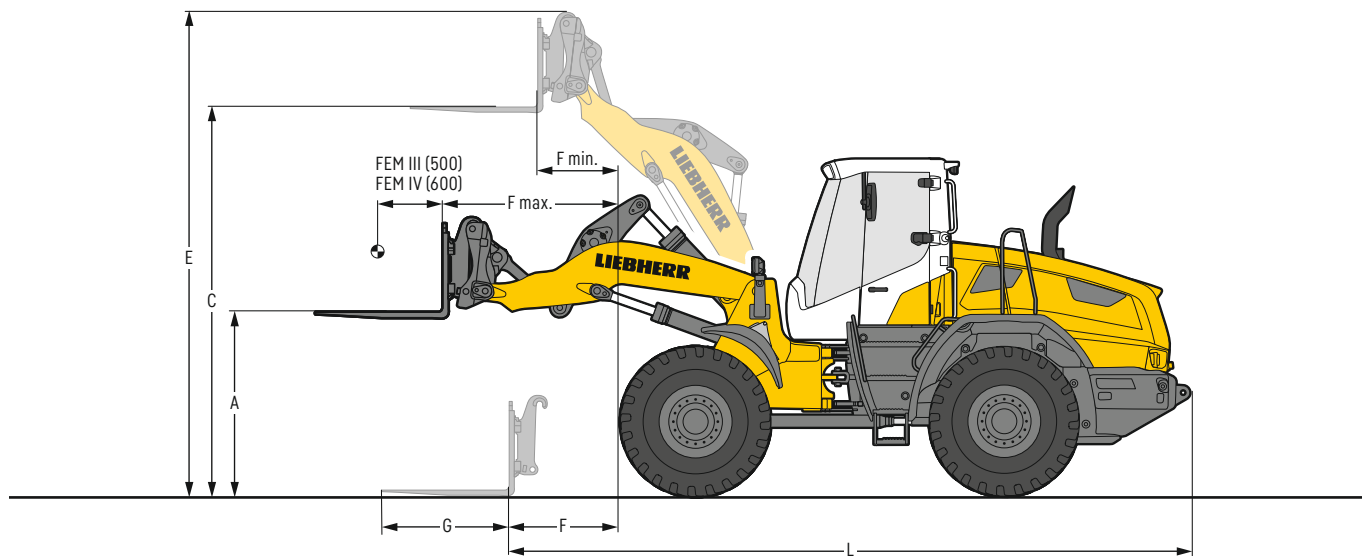
ZK-QC = Z-bar linkage incl. quick coupler

BOCE = Bolt-on cutting edge

Attachment

Fork carrier and fork

L 526 - L 546



Fork carrier and fork

	L 526		L 538		L 546		L 538		L 546	
	STD	HL	STD	HL	STD	HL	STD	HL	STD	HL
Fork	FEM III	FEM III	FEM III	FEM III	FEM III	FEM III	FEM IV	FEM IV	FEM IV	FEM IV
Geometry	ZK-QC	ZK-QC	ZK-QC	ZK-QC	ZK-QC	ZK-QC	ZK-QC	ZK-QC	ZK-QC	ZK-QC
Lift arm length	ft in		ft in		ft in		ft in		ft in	
A Lifting height at max. reach	5'7"	5'7"	5'10"	5'10"	5'10"	5'10"	5'9"	5'9"	5'9"	5'9"
C Max. lifting height	12'1"	13'11"	12'5"	14'2"	12'5"	14'2"	12'3"	14'	12'3"	14'
E Max. operating height	15'1"	17'	15'5"	17'3"	15'5"	17'3"	15'7"	17'4"	15'7"	17'4"
F Reach at loading position	3'5"	5'3"	3'6"	4'11"	3'6"	4'11"	3'7"	5'	3'7"	5'
F max. Max. reach	5'5"	6'10"	5'7"	6'9"	5'7"	6'9"	5'7"	6'8"	5'7"	6'8"
F min. Reach at max. lifting height	2'4"	2'2"	2'7"	2'2"	2'7"	2'2"	2'6"	2'1"	2'6"	2'1"
G Fork length	ft in		ft in		ft in		ft in		ft in	
L Length - basic machine	ft in		ft in		ft in		ft in		ft in	
Tipping load, straight*	16,205	13,230	18,300	15,765	20,615	17,860	17,420	14,990	16,620	16,975
Tipping load, fully articulated*	13,935	11,245	15,850	13,560	17,815	15,320	14,950	12,745	16,865	14,460
Recommended payload for uneven ground = 60 % of tipping load, articulated¹⁾	8,270	6,615	9,480	8,050	10,580	9,150	8,820	7,605	10,030	8,560
Recommended payload for smooth surfaces = 80 % of tipping load, articulated¹⁾	11,025 ²⁾	8,930	11,025 ²⁾	10,805	11,025 ²⁾	11,025 ²⁾	11,905	10,140	13,450	11,465
Operating weight*	28,905	29,565	31,725	32,120	33,490	33,950	32,230	32,695	34,060	34,525
Tire size	20.5R25 L3		20.5R25 L3		20.5R25 L3		20.5R25 L3		20.5R25 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 III fork carrier and forks to 11,025 lb

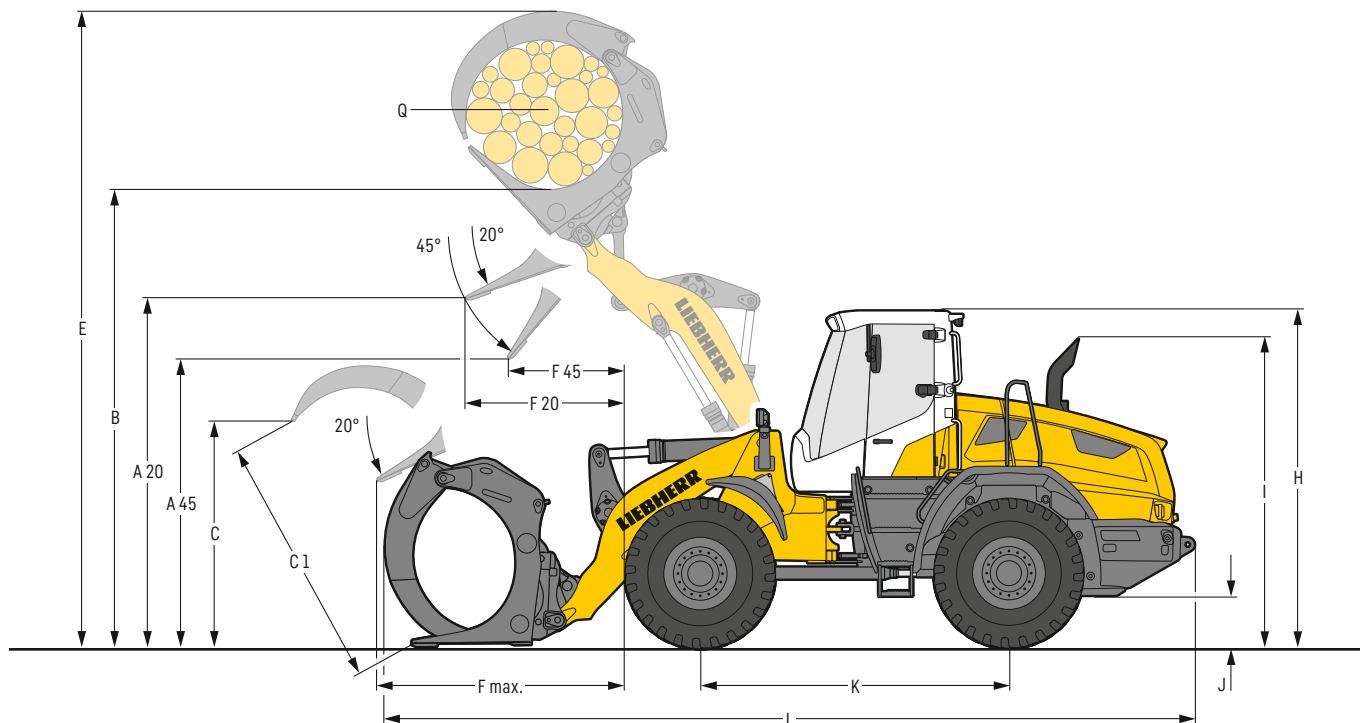
STD = Standard lift arm length

HL = High Lift

ZK-QC = Z-bar linkage incl. quick coupler

Attachment

Log grapple



L 526 – L 546

Log grapple

		L 526	L 538	L 546
Geometry		ZK-QC	ZK-QC	ZK-QC
A20	Discharge height at 20°	ft in 10'6"	10'8"	10'8"
A45	Discharge height at 45°	ft in 9'2"	9'2"	9'2"
B	Manipulation height	ft in 14'1"	14'7"	14'7"
C	Max. grapple opening in loading position	ft in 6'3"	7'10"	7'10"
C1	Max. grapple opening	ft in 7'	8'6"	8'6"
E	Max. height	ft in 19'2"	20'6"	20'6"
F20	Reach at max. lifting height at 20° discharge	ft in 4'8"	5'5"	5'5"
F45	Reach at max. lifting height at 45° discharge	ft in 3'5"	4'	4'
F max.	Max. reach	ft in 7'9"	8'5"	8'5"
H	Height above operator's cab ¹⁾	ft in 10'8"	10'8"	10'8"
I	Height above exhaust	ft in 9'8"	9'8"	9'8"
J	Ground clearance	ft in 1'5"	1'5"	1'5"
K	Wheelbase	ft in 9'9"	9'11"	9'11"
L	Overall length	ft in 25'4"	26'1"	26'1"
	Width over tires	ft in 8'2"	8'2"	8'2"
Q	Grapple diameter	yd ² 1.55	2.15	2.15
	Grapple width	ft in 5'3"	5'3"	5'3"
	Payload*	lb 7,495	9,040	10,580
	Operating weight*	lb 30,645	33,710	35,540
	Tire size	20.5R25 L3	20.5R25 L3	20.5R25 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⁾ With the optional "comfort safety door (can be opened 180°)", the "H" value increases by 5" when door is open.

ZK-QC = Z-bar linkage incl. quick coupler

Bucket selection

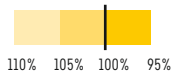
L 526 - L 546

L 526		Bucket	Material density (lb/yd³)								
Lift arm			674	1,011	1,348	1,686	2,023	2,360	2,697	3,034	3,371
ZK	GPB	2.9 yd³							3.1		2.9
	GPB	3.1 yd³						3.4			3.1
	LMB	4.6 yd³			5.1						4.6
	HDB	3.9 yd³			4.3						3.9
ZK-QC	GPB	2.6 yd³						2.9			2.6
	LMB	4.6 yd³			5.1						4.6
	LMB	7.2 yd³	7.2								
	HDB	3.9 yd³			4.3						3.9
HDB	6.5 yd³	6.5									
ZK-HL	GPB	2.6 yd³						2.9			2.6
	LMB	4.6 yd³			5.1						4.6
	HDB	3.9 yd³			4.3						3.9
ZK-QC-HL	GPB	2.6 yd³						2.2			2.0
	LMB	4.6 yd³			3.9						3.5
	LMB	5.9 yd³	5.9								
	HDB	3.9 yd³			4.3						3.9
HDB	5.2 yd³	5.2									

L 538		Bucket	Material density (lb/yd³)									
Lift arm			674	1,011	1,348	1,686	2,023	2,360	2,697	3,034	3,371	
ZK	GPB	3.4 yd³								3.8		3.4
	GPB	3.7 yd³							4.1			3.7
	LMB	5.2 yd³			5.8							5.2
	HDB	4.6 yd³			5.1							4.6
ZK-QC	GPB	3.1 yd³							3.4			3.1
	LMB	5.2 yd³			5.8							5.2
	LMB	8.5 yd³	8.5									
	HDB	4.6 yd³			5.1							4.6
HDB	7.9 yd³	7.9										
ZK-HL	GPB	3.1 yd³							3.4			3.1
	LMB	5.2 yd³			5.8							5.2
	HDB	4.6 yd³			5.1							4.6
ZK-QC-HL	GPB	2.9 yd³							3.1			2.9
	LMB	5.2 yd³			5.8							5.2
	LMB	7.2 yd³	7.2									
	HDB	4.6 yd³			5.1							4.6
HDB	6.5 yd³	6.5										

L 546		Bucket	Material density (lb/yd³)									
Lift arm			674	1,011	1,348	1,686	2,023	2,360	2,697	3,034	3,371	
ZK	GPB	3.9 yd³							4.3			3.9
	GPB	4.2 yd³						4.6				4.2
	LMB	5.9 yd³			6.5							5.9
	HDB	5.2 yd³			5.8							5.2
ZK-QC	GPB	3.7 yd³							4.1			3.7
	LMB	5.9 yd³			6.5							5.9
	LMB	9.8 yd³	9.8									
	HDB	5.2 yd³			5.8							5.2
HDB	9.2 yd³	9.2										
ZK-HL	GPB	3.7 yd³							4.1			3.7
	LMB	5.9 yd³			6.5							5.9
	HDB	5.2 yd³			5.8							5.2
ZK-QC-HL	GPB	3.4 yd³							3.8			3.4
	LMB	5.9 yd³			6.5							5.9
	LMB	8.5 yd³	8.5									
	HDB	5.2 yd³			5.8							5.2
HDB	7.9 yd³	7.9										

Bucket filling factor



Lift arm

ZK	Z-bar linkage, standard lift arm length
ZK-QC	Z-bar linkage incl. quick coupler, standard lift arm length
ZK-HL	Z-bar linkage, High Lift
ZK-QC-HL	Z-bar linkage incl. quick coupler, High Lift

Bucket

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

Bulk material densities and bucket filling factors

		lb/yd ³	%
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/yd ³	%
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/yd ³	%
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



What is tipping load?

Load at centre of gravity of working equipment, so that the wheel loader just begins to tip over the front axle. This is the most unfavourable static-load position for the wheel loader. Lifting arms horizontal, wheel loader fully articulated at centre pivot.

Pay load.

The pay load must not exceed 50 % of the tipping load when articulated. This is equivalent to a static stability-margin factor of 2.0.

Bucket capacity.

The bucket volume is determined from the pay load.

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

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

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 526						
Bridgestone	17.5R25	VJT L3	- 394	2,440	- 44	Bulk material (firm ground conditions)
Bridgestone	17.5R25	VSDL L5	119	2,450	- 5	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	20.5R25	VJT L3	17	2,480	8	Bulk material (firm ground conditions)
Bridgestone	20.5R25	VSDL L5	680	2,480	60	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	20.5R25	VSDR L5	688	2,480	60	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	550/65R25	VTS L3	- 132	2,500	- 50	Gravel (all ground conditions)
Bridgestone	650/65R25	VTS L3	605	2,650	16	Gravel (all ground conditions)
Continental	20.5R25	EM-Master L3	166	2,480	26	Bulk material (firm ground conditions)
Goodyear	17.5R25	RT-3B L3	- 320	2,460	- 41	Gravel (all ground conditions)
Goodyear	17.5R25	TL-3A+ L3	- 252	2,460	- 39	Sand, Gravel, Earthworks, Clay (all ground conditions)
Goodyear	17.5R25	RL-5K L5	160	2,460	- 20	Stone, Scrap, Recycling (firm ground conditions)
Goodyear	20.5R25	RT-3B L3	11	2,490	16	Gravel (all ground conditions)
Goodyear	20.5R25	TL-3A+ L3	156	2,500	11	Sand, Gravel, Earthworks, Clay (all ground conditions)
Goodyear	20.5R25	GP-4D L4	328	2,470	20	Gravel, Industry, Wood (firm ground conditions)
Goodyear	20.5R25	RL-5K L5	752	2,500	49	Stone, Scrap, Recycling (firm ground conditions)
Michelin	17.5R25	XTLA L2	- 555	2,460	- 44	Gravel, Earthworks, Clay (all ground conditions)
Michelin	17.5R25	XHA2 L3	- 528	2,460	- 61	Sand, Gravel (all ground conditions)
Michelin	17.5R25	XLD D2A L5	- 232	2,460	- 25	Stone, Mining spoil (firm ground conditions)
Michelin	17.5R25	X MINE PRO L5	32	2,490	- 17	Stone, Scrap, Recycling (firm ground conditions)
Michelin	20.5R25	XTLA L2	- 121	2,480	- 7	Gravel, Earthworks, Clay (all ground conditions)
Michelin	20.5R25	XHA2 L3	0	2,480	0	Sand, Gravel (all ground conditions)
Michelin	20.5R25	XLD D2A L5	431	2,480	30	Stone, Mining spoil (firm ground conditions)
Michelin	20.5R25	X MINE PRO L5	616	2,510	48	Stone, Scrap, Recycling (firm ground conditions)
Michelin	550/65R25	XLD65 L3	- 82	2,500	- 44	Gravel (all ground conditions)
Michelin	650/65R25	XLD65 L3	488	2,640	- 7	Gravel (all ground conditions)
Nokian	17.5R25	Hakkapeliitta L2	- 488	2,450	- 51	Winter tires, Gravel, Asphalt (all ground conditions)
Nokian	20.5R25	Hakkapeliitta L2	- 104	2,490	6	Winter tires, Gravel, Asphalt (all ground conditions)
L 538 / L 546						
Bridgestone	20.5R25	VJT L3	17	2,480	8	Bulk material (firm ground conditions)
Bridgestone	20.5R25	VSDL L5	680	2,480	60	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	20.5R25	VSDR L5	688	2,480	60	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	550/65R25	VTS L3	- 44	2,500	- 50	Gravel (all ground conditions)
Bridgestone	650/65R25	VTS L3	595	2,650	16	Gravel (all ground conditions)
Continental	20.5R25	EM-Master L3	156	2,480	26	Bulk material (firm ground conditions)
Goodyear	20.5R25	RT-3B L3	11	2,490	16	Gravel (all ground conditions)
Goodyear	20.5R25	TL-3A+ L3	156	2,500	11	Sand, Gravel, Earthworks, Clay (all ground conditions)
Goodyear	20.5R25	GP-4D L4	328	2,470	20	Gravel, Industry, Wood (firm ground conditions)
Goodyear	20.5R25	RL-5K L5	752	2,500	49	Stone, Scrap, Recycling (firm ground conditions)
Michelin	20.5R25	XTLA L2	- 121	2,510	- 7	Gravel, Earthworks, Clay (all ground conditions)
Michelin	20.5R25	XHA2 L3	0	2,480	0	Sand, Gravel (all ground conditions)
Michelin	20.5R25	XLD D2A L5	431	2,480	30	Stone, Mining spoil (firm ground conditions)
Michelin	20.5R25	X MINE PRO L5	606	2,510	48	Stone, Scrap, Recycling (firm ground conditions)
Michelin	550/65R25	XLD65 L3	- 82	2,500	- 44	Gravel (all ground conditions)
Michelin	650/65R25	XLD65 L3	478	2,640	- 7	Gravel (all ground conditions)
Nokian	20.5R25	Hakkapeliitta L2	- 114	2,490	6	Winter tires, Gravel, Asphalt (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.

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	yd ³	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	yd ³	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

02.22

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: 2.9 yd ³	1.66
L 538: 3.4 yd ³	1.84
L 546: 3.9 yd ³	1.87
L 550: 4.5 yd ³	2.37
L 556: 4.8 yd ³	2.61
L 566: 5.5 yd ³	3.24
L 580: 6.8 yd ³	3.68
L 586: 7.8 yd ³	4.41


* Wheel loader in practical customer applications with individual machine configurations. Average data from LIDAT from 19/04/2023.



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

Equipment

 Basic wheel loader	L 526	L 538	L 546
Tow hitch	●	●	●
Crash protection, rear	+	+	+
Crash protection, rear with guard	+	+	+
Automatic engine shutdown (after 5 minutes at idle speed < 1,000 rpm)	+	+	+
Automatic central lubrication system Liebherr	+	+	+
Electr. equipment for sweeper (socket for sweeper)	+	+	+
Electronic tractive force regulation for difficult ground conditions	●	●	●
Design exhaust tail pipe in stainless steel	+	+	+
Travel light (with additional headlights) on front section halogen	+	+	+
Travel light (with additional headlights) on front section LED	+	+	+
Travel light on front section - halogen	●	●	●
Travel light on front section - LED	+	+	+
Ride control	+	+	+
Fire extinguisher 13 lb	+	+	+
Fluff trap for radiator	+	+	+
External jump starter equipment	+	+	+
Complete drive shaft protection	+	+	+
Speed limitation 12.4 mph	+	+	+
Plastic diesel exhaust fluid tank	●	●	●
Integrated tire pressure monitoring system	+	+	+
Rear license panel light	+	+	+
Combined inching-braking system	●	●	●
Mudguard in plastic design	●	●	●
Steel mudguard	+	+	+
Steel fuel tank	+	+	+
Fuel pre-filter	●	●	●
Fuel pre-filter with pre-heating	+	+	+
Large-mesh radiator	+	+	+
Cooling water pre-heating 230 V	+	+	+
Adjustable plastic mudguard	+	+	+
Multi-disc limited slip differentials in both axles	●	●	●
Liebherr biodegradable hydraulic oil	+	+	+
Reversible fan drive	+	+	+
Automatic delayed engine stop (5 min.)	+	+	+
Plastic wheel case flare	+	+	+
Steel design adjustable wheel case flare	+	+	+
Guard for headlights	+	+	+
SCR technology incl. diesel particle filter	●	●	●
Auxiliary heater (Additional heating with engine preheating)	+	+	+
Air pre-cleaner TOP AIR	+	+	+
Toolbox with toolkit	+	+	+
Liebherr weighing system with "Truck Payload Assist" (cannot be certified as a regulated weights and measure device)	+	+	+

 Equipment	L 526	L 538	L 546
1st hydraulic additional function on the front incl. lines	+	+	+
1st and 2nd hydraulic additional function on the front incl. lines	+	+	+
Working hydraulics lockout	●	●	●
Continuous mode, additional function	+	+	+
Pressure relief for hydraulic additional function	●	●	●
Stroke limit damping	+	+	+
Fork carrier and pallet forks	+	+	+
High-dump bucket	+	+	+
Log grapple	+	+	+
Automatic lift arm position and lowering programmable	●	●	●
Lift arms 8'4"	●	-	-
Lift arms 8'8"	-	●	●
Lift arms 9'10"	+	+	+
Hydraulic quick hitch	+	+	+
Hydraulic quick hitch Solidlink	+	+	+
Hydraulic quick change device preparation Solidlink	+	+	+
Sweeper mode	+	+	+
Adjustable tipping speed	●	●	●
Tilt cylinder protection	+	+	+
Light material bucket	+	+	+
Pipe break protection (lift and tilt cylinders)	+	+	+
Automatic return high dump bucket	+	+	+
Bucket tilt assistant	+	+	+
Bucket bearing seal (standard)	●	●	●
Bucket return-to-dig (automatic and programmable)	●	●	●
Bucket return-to-dig via button	+	+	+
Float position	●	●	●
Visualisation of the equipment position	●	●	●

Equipment



Operator's cab

	L 526	L 538	L 546
2-in-1 steering	+	+	+
Adapter plate for additional fastening on the multi-function rail	●	●	●
Adaptive working lighting	+	+	+
Exterior mirror, electrical adjustable, with heating	+	+	+
Exterior mirrors, folding and heated	+	+	+
Folding exterior mirror	●	●	●
Hinged window (left)	+	+	+
Access assistance to facilitate cleaning windscreen	●	●	●
Operation with multi-lever control	+	+	+
Operating hour meter (mechanic)	+	+	+
Electronical theft protection with code	+	+	+
Electronical theft protection with key	+	+	+
Automatic driver identification	+	+	+
Manual driver identification	+	+	+
"Comfort" operator's seat with "Comfort integrated" pneumatic suspension Grammer (with seat heating and 3-point belt)	+	+	+
"Comfort" operator's seat with "Comfort integrated" pneumatic suspension Grammer (with seat heating and 4-point belt)	+	+	+
"Comfort" operator's seat with "Comfort integrated" pneumatic suspension Grammer (with seat heating)	●	●	●
"Premium" operator's seat with low frequency suspension - with seat air conditioning, seat heating and head rest - Grammer	+	+	+
Particle filter F7	●	●	●
Fire extinguisher in cab 4lb	+	+	+
Radio unit installation (preparation)	+	+	+
V _{max} speed limit adjustable via button on control unit	●	●	●
Speed limit & fixed speed	+	+	+
Seat belt warning device (visual) - green warning flashlight on cab	+	+	+
Rear window heated electrically	●	●	●
Button-operated horn via right button	+	+	+
Interior mirror left	●	●	●
Joystick steering	+	+	+
Joystick steering only	+	+	+
Floor mat	●	●	●
Clothes hook	●	●	●
Air conditioning system	+	+	+
Automatic air conditioning system	+	+	+
Comfort safety door (open through 180°)	+	+	+
Head rest	+	+	+
Cool box	+	+	+
Steering column height-adjustable	+	+	+
Steering column folding	●	●	●
LiDAT hardware	●	●	●
Liebherr control lever with mini-joystick	+	+	+
Liebherr control lever with buttons	●	●	●
Multifunctional rail, right	●	●	●

● = Standard
+ = Option
- = not available



Operator's cab

	L 526	L 538	L 546
Emergency steering pump	●	●	●
Premiumdisplay (Touchscreen), with height adjustment and tilting function	●	●	●
Radio "Comfort" (DAB+ / USB / AUX / BLUETOOTH / handsfree set)	+	+	+
Radio "Standard"	+	+	+
Preparation for radio installation	+	+	+
Amber beacon swiveling LED	+	+	+
Headlights activation (on the cab) for reverse travel	+	+	+
Soundproof ROPS / FOPS cab	●	●	●
Wipe and wash system	●	●	●
Windscreen wiper single-sweep function with button	+	+	+
Headlights rear, triple design, LED	+	+	+
Headlights rear, single design, halogen	+	+	+
Headlights rear, single design, LED	+	+	+
Headlights rear, double design, halogen	+	+	+
Headlights rear, double design, LED	+	+	+
Headlights front, double design, halogen	●	●	●
Headlights front, double design, LED	+	+	+
Headlights activation for reverse travel (on the cab)	+	+	+
Sliding window right	●	●	●
Slipcover for operator seat	+	+	+
Windscreen guard	+	+	+
Beacon activation in reverse travel	+	+	+
Sunblind rear	+	+	+
Sunblind front	+	+	+
Power socket 12V	●	●	●
USB charging port	+	+	+
First aid kit	●	●	●
Preparation for protective ventilation device	+	+	+
Preparation for dust filtrating device	+	+	+
Wide angle mirror	+	+	+
Cigarette lighter	●	●	●



Safety

	L 526	L 538	L 546
Active personnel detection at the rear	+	+	+
Main battery switch (lockable)	+	+	+
Roof camera for front area monitoring	+	+	+
Standard parking brake	●	●	●
Custom paintwork	+	+	+
Back-up alarm (acoustical)	+	+	+
Reversing alarm LED warning flashlight (visual) (adjustable to 0 - constant - reverse travel)	+	+	+
Rear space monitoring with camera	●	●	●
Skyview 360°	+	+	+

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 business which today comprises more than 140 companies on all continent and employs nearly 51,000 people. The parent company of the Group is Liebherr-International AG in Bulle (Switzerland), whose associates 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 portfolio

Not only is Liebherr one of the biggest construction equipment manufacturers in the world, it also provides high-quality, user-oriented products and services in a wide range of other areas. The product portfolio includes the segments earthmoving, 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, refrigeration and freezing, components and hotels.

Customized solutions and maximum customer benefit

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.

Liebherr-Werk Bischofshofen GmbH

Postfach 49 · 5500 Bischofshofen, Austria · Phone +43 50809 1-0 · Fax +43 50809 11385
info.lbh@liebherr.com · www.liebherr.com · www.facebook.com/LiebherrConstruction