

Compact Loaders

L 506 / L 508
Compact Compact

Generation: 6

Tipping load, articulated: 3,450 kg – 3,850 kg

Engine: Stage V



LIEBHERR

L 506 Compact

Tipping load, articulated: 3,450 kg
Bucket capacity: 0.8 m³
Operating weight: 5,180 kg
Engine output (ISO 14396): 46 kW/63 HP

L 508 Compact

Tipping load, articulated: 3,850 kg
Bucket capacity: 1.0 m³
Operating weight: 5,600 kg
Engine output (ISO 14396): 50 kW/68 HP



Performance

Liebherr Compact Loaders are a completely new machine concept within the wheel loader range. They combine power with safety and are also very flexible to use. With the 50 kW L 508 Liebherr has the only compact loader on the market with such a low machine height design in this capacity class. The compact design makes the wheel loaders flexible whilst also ensuring maximum stability and tipping safety.

Economy

The Compact Loaders provide companies with safe, practical and compact machines – and they all offer unbeatable value for money! Their low machine height design ensures that the machines are flexible to use and transport. Transporting the Compact Loaders will rarely be hampered by a tunnel or underpass with low clearance.

Reliability

Decades of experience in the development and production of wheel loaders has been used in the development of these new Liebherr Compact Loaders. At the same time special attention was paid to the wishes and needs of our customers during the development process. The result is the safest, most practical and also the most compact machine in this segment which offers high quality and reliability thanks to its sophisticated technology and coordinated components.

Comfort

Simple, user-friendly operation and the comfort in the cab help to ensure that the operator can concentrate on work with minimal fatigue, thus enhancing safety and productivity. The large proportion of glass in the cab and the special design of the lift arm provide excellent all-round visibility to ensure maximum safety for people, the machine and the load.





2,5m



Compact Design

- Particularly compact, low design – the overall height of the Compact Loaders is less than 2.5 meters.
- Excellent weight distribution – the compact design means that the Compact Loaders' center of gravity is particularly low, ensuring the ability to handle high payloads and provide maximum stability and tipping safety

Performance

Liebherr Compact Loaders are a completely new machine concept within the wheel loader range. They combine power with safety and are also very flexible to use. With the 50 kW L 508 Liebherr has the only compact loader on the market with such a low machine height design in this capacity class. The compact design makes the wheel loaders flexible whilst also ensuring maximum stability and tipping safety.

Excellent Weight Distribution

Maximum Tipping Safety and High Payloads

The low machine height design of the Compact Loaders means that their center of gravity has been shifted downward. This results in increased stability which is maintained even in uneven terrain. This compact design coupled with a low operating weight means that the loaders can carry high payloads and therefore provide excellent handling capacity.

Z-bar Linkage with Parallel Guidance

Fast and Safe Load Transport

The tapered design of the lift arm ensures excellent visibility. The lift arm narrows towards the cab to provide excellent visibility of the equipment and load. The cab's windscreen extends on both sides to floor level, thus enhancing visibility of the whole working area in front of the machine. The geometry of the equipment ensures particularly good stability and high handling capacity. In fork mode the precision parallel control over the entire lifting range ensures particularly safe, sensitive and precise operation.

Full Selection of Working Equipment

For Every Task

The range of universal attachments make the Compact Loaders extremely versatile in use. The machines can be used for a very wide range of applications to suit the specific requirements of the job in hand.



Tapered Lift Arm

- Parallel guidance in fork mode over the entire lifting range results in safe lifting of loads without manual adjustment (no loss of load).
- Excellent visibility of the equipment during loading and unloading.
- Hydraulic quick hitch as standard.



Compact Design

- Thanks to their low machine height design of less than 2.5 meters transporting the Compact Loaders is very straightforward and fast.
- Low entrances and clearance heights on site are not a problem – the Compact Loaders can be used efficiently and flexibly.

Economy

The Compact Loaders provide companies with a safe, practical and compact machine – and they all offer unbeatable value for money! Their low machine height design ensures that the machines are flexible to use and transport. Transporting the Compact Loaders will rarely be hampered by a tunnel or underpass with low clearance.

Ready for Use Quickly Wherever They Are Needed

Compact Design

The compact, low design further increases the flexibility of the Compact Loader in usage: The machine has a low weight and a particularly low height at just 2.5 m. This means it will fit through most tunnels or underpasses and can be transported by tipper vehicles or in high cube containers. Its low machine height makes it perfect for unique work in low entrances and clearance heights.

Efficient Equipment Changing

The Compact Loaders are fitted as standard with a hydraulic quick hitch and an additional hydraulic control circuit for equipment with additional functions. These two features save time when changing equipment and increase flexibility and efficiency during use.

Simple Maintenance

Excellent Access

The engine bay is very easy to work on due to its compact design. All the main components can be accessed easily and safely from the ground for maintenance work. After a change of operator all that is required is a brief inspection during the handover process: all the check points and fluid levels are clearly visible and easy to access.

Excellent Value for Money

Maximum Productivity at Low Purchase Cost

Their compact design, powerful lift arm with parallel guide and high payloads despite the small machine size enable the Compact Loaders to provide maximum productivity at a low purchase cost.



Easy, Safe Access

- Access to all the main maintenance points from the ground by opening a single hood.
- Inspection points and fluid levels are easy to view and can be checked during a brief inspection.



Diesel Engine

- The usual high quality and reliability you expect from our 4-cylinder diesel engines.
- Reliable water cooling system especially when travelling uphill or in high outdoor temperatures.



Reliability

Decades of experience in the development and production of wheel loaders has been used in the development of these new Liebherr Compact Loaders. At the same time special attention was paid to the wishes and needs of our customers during the development process. The result is the safest, most practical and also the most compact machine in this segment which offers high quality and reliability thanks to its sophisticated technology and coordinated components.

All-Round Safety

Excellent All-Round Visibility

The high proportion of glass in the cab combined with the compact design of the wheel loader gives the operator excellent visibility in all directions and therefore control of the entire working area. Dangerous situations for personnel and objects in the working area, for the operator and for the machine can be identified faster and thus averted.

Quality Down to the Last Detail

Diesel Engine

The usual high quality and reliability you can expect from our 4-cylinder diesel engines means you have a safe, powerful driving force.

Reliable Cooling System

The diesel engine is water-cooled. This ensures constant cooling particularly for travelling uphill and in high outdoor temperatures.

Hydraulic Quick Hitch

The quick hitch is compatible with Liebherr Stereo-loaders and with most conventional attachments. All parts are made of high quality materials.

Technology You Can Trust

Suitable for All Jobs

Our Compact Loaders are reliable and safe and provide full capacity for every job.

Perfectly Coordinated

All components are perfectly coordinated to each other. The Compact Loaders feature the latest technology, many years of experience in wheel loader development and, of course, our proven Liebherr quality.



Safety for Personnel and Machine

- The compact design, high proportion of glass in the cab and perfectly positioned mirrors provide excellent all-round visibility.
- The operator can see everything around him so that he can avoid dangerous situations and react quickly to changes around him.



Perfect Visibility

- Improved visibility of the equipment and load due to the tapered design of the lift arm (which narrows towards the cab).
- High proportion of glass in the cab, which in part has been taken down to floor level, to provide a clear view forwards.





Comfort

Simple, user-friendly operation and the comfort in the cab help to ensure that the operator can concentrate on work with minimal fatigue, thus enhancing safety and productivity. The large proportion of glass in the cab and the special design of the lift arm provide excellent all-round visibility to ensure maximum safety for people, the machine and the load.

Cab With Excellent Visibility

Maximum Safety for Personnel, the Machine and the Load

The high proportion of glass in the cab, which in part has been taken down to floor level, and the improved design and layout of the interior and exterior mirrors plus the tapered design of the lift arm give the operator a full view all round the wheel loader. This enables him to see events near the machine and react as quickly as possible. That protects the operator himself, as well as other personnel and items in the working area.

Simple Handling

The combination of innovation, safety and user friendliness is evident inside the operator's cab. The cab has a modern design with its clearly arranged control instruments, guaranteeing simple handling. The operator can adjust the ergonomically installed controls, joystick and steering. The comfort in the cab enables the operator to concentrate on his work – in turn increasing safety and productivity. Operators using the machine for the first time will quickly familiarise themselves with its use. Brief training is all that is required to be able to operate the Liebherr Compact Loader safely.

Stable Vehicle Handling

Comfortable and Stable

The oscillating center pivot compensates ground unevenness and thus provides maximum operator comfort and excellent stability. The machine's stability is also enhanced by its compact design and resultant low center of gravity.

Easy Access

- A safe, convenient and extremely wide access to the operator's cab ensures maximum safety and comfort for the operator even when the Compact Loader is at maximum articulation.



Oscillating Center Pivot

- Particularly good stability and comfort due to the oscillating center pivot.
- Compensates for ground unevenness.



Safety in and Around the Machine

Safe and Versatile Usage

- + Can be transported easily and efficiently
- + Efficient to use in low entrances and exits
- + Minimal maintenance requirements
- + Extremely low downtime

- ✓ Compact, lightweight design
- ✓ Clearance height below 2.5 meters
- ✓ Overall height on conventional transport vehicles less than 4 meters
- ✓ Proven Liebherr quality

Cargo Safety

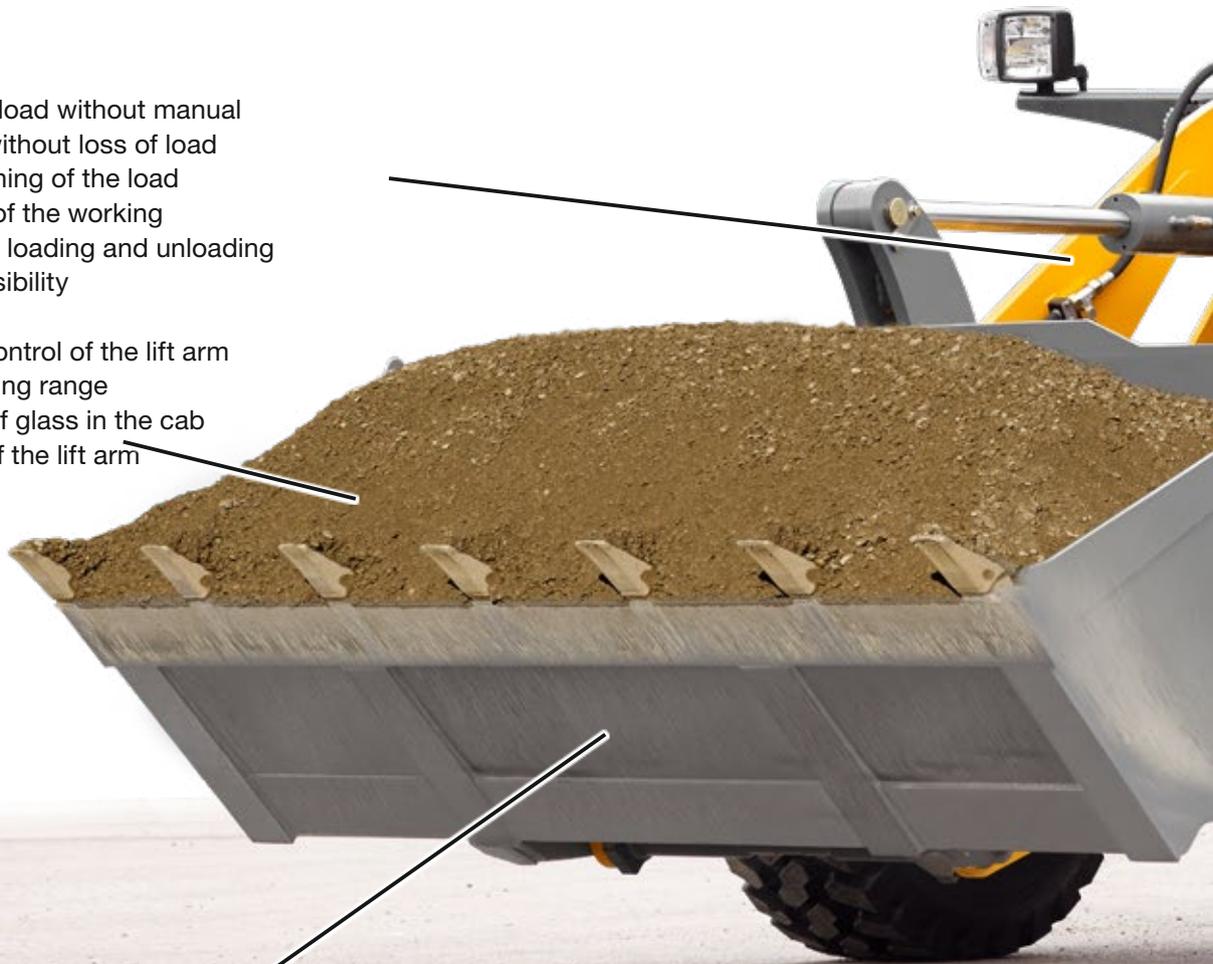
- + Safe lifting of the load without manual adjustment and without loss of load
- + Fast, safe positioning of the load
- + Optimal visibility of the working equipment during loading and unloading
- + Clear all-round visibility

- ✓ Precise parallel control of the lift arm over the entire lifting range
- ✓ High proportion of glass in the cab
- ✓ Tapered design of the lift arm

Stability and Tipping Safety

- + Maximum stability in all site situations
- + High payloads

- ✓ Excellent center of gravity due to the low clearance height
- ✓ Oscillating centre pivot
- ✓ Excellent ratio between weight and tipping load



Personnel Safety

- + Clear all-round visibility
- + Clear visibility of equipment and load
- ✓ High proportion of glass in the cab
- ✓ Optimal layout of all mirrors
- ✓ Compact machine design
- ✓ Tapered design of the lift arm



Operating Safety

- + The operator's concentration is enhanced
- + Simple handling – can be learned quickly
- + Efficient, simple checks to ensure the machine is safe to use
- ✓ Ergonomic and self-explanatory layout of control elements
- ✓ All maintenance and check points are easily accessible by walking around the machine

Technical Data



Engine L 506 L 508

Diesel engine	4TNV98C	1 4TNV98C
Design	Water-cooled diesel suction engine	
Cylinder inline	4	4
Fuel injection process	Common Rail direct injection	
Max. gross output to ISO 3046 and SAE J1995	kW/HP 46/63 at RPM 2,200	50/68 2,400
Max. net output to ISO 9249 and SAE J1349	kW/HP 45/61 at RPM 2,200	48/65 2,400
Rated output to ISO 14396	kW/HP 46/63 at RPM 2,200	50/68 2,400
Max. net torque to ISO 9249 and SAE J1349	Nm 239 at RPM 1,430	237 1,560
Displacement	litres 3.319	3,319
Bore/Stroke	mm 98/110	98/110
Air cleaner system	Dry air filter with main and safety element	
Electrical system		
Operating voltage	V 12	12
Battery	Ah 1 x 100	1 x 100
Alternator	V/A 12/80	12/80
Starter	V/kW 12/3	12/3

The exhaust emissions are below the limits in stage V.



Driveline

Stepless hydrostatic travel drive	
Design	Swash plate type variable flow pump and a variable axial piston motor in a closed loop circuit
Filtering system	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 to match ground and operating conditions. The Liebherr control lever is used to control forward and reverse travel
Travel speed range (forward and reverse)	Speed range 1 _____ 0 – 6 km/h Speed range 2 _____ 0 – 20 km/h
	Speeds quoted apply with the tyres indicated as standard on loader model.



Axles

Four-wheel drive	
Design	Rigidly mounted planetary-hub axle
Differentials	Automatic limited-slip differential with 45% locking action
Reduction gear	Planetary final drive in wheel hubs
Track width	Max. 1,350 mm



Brakes

Service brake	Self-inhibition of the hydrostatic travel drive, wear free, effective on all 4 wheels and additional, hydraulically activated drum brake
Parking brake	Mechanically operated drum brake

The braking system meets the requirements of the ISO 3450.



Steering

Design	Oscillating center pivot
Articulation angle	40° to each side
Centre-pivot steering	10° to each side



Attachment Hydraulics

Design	Gear pump to supply attachment hydraulics and steering system (via priority valve)	
Filtering	Suction return line filter in the hydraulic reservoir	
Control	Joystick travel control with Liebherr control lever, direct control	
Lift circuit	Lifting, neutral, lowering Float position controlled by Liebherr control lever with detent	
Tilt circuit	Tilt back, neutral, dump	
Additional hydraulics	3. control circuit is optional equipment L 506 L 508	
Max. flow	l/min. 70.4	76.8
Max. pressure	bar 230	230



Attachment

Geometry	Powerful Z-bar linkage with parallel guidance and hydraulic quick hitch as standard	
Bearings	Lathe-turned thick-walled bushings with lubricating grooves	
Cycle time at nominal load	L 506	L 508
Lifting	5.3 s	6.5 s
Dumping	1.3 s	1.5 s
Lowering (empty)	2.9 s	4.0 s



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 Operator's door with 178° opening angle, fold-out window on right with gap opener, single-pane safety glass ESG, heated rear window ESG, all windows are tinted. Adjustable steering column optional
Operator's seat	4 way adjustable, vibration-damped operator's seat "Standard" (mechanically sprung, adjustable to operator's weight)
Cab heating and ventilation	Operator's cabin with defroster and electrically heated rear window, fresh air filter, air recirculation system and hot water heating, cabin ventilation



Sound Level

Sound pressure level to ISO 6396	L _{PA} (inside cab)	= 78 dB(A)
Sound power level to 2000/14/EC	L _{WA} (surround noise)	= 101 dB(A)



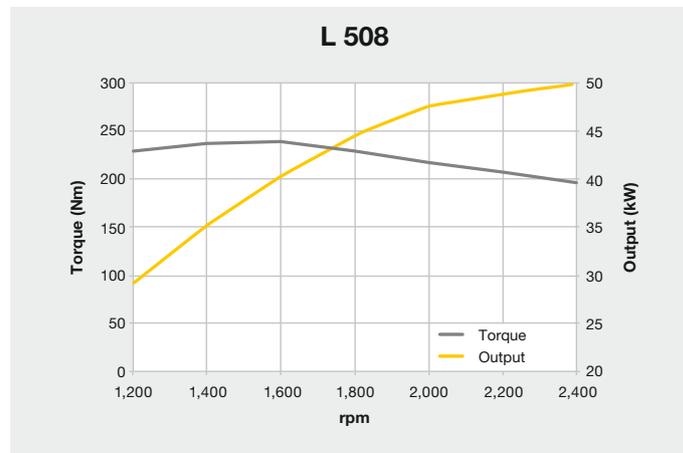
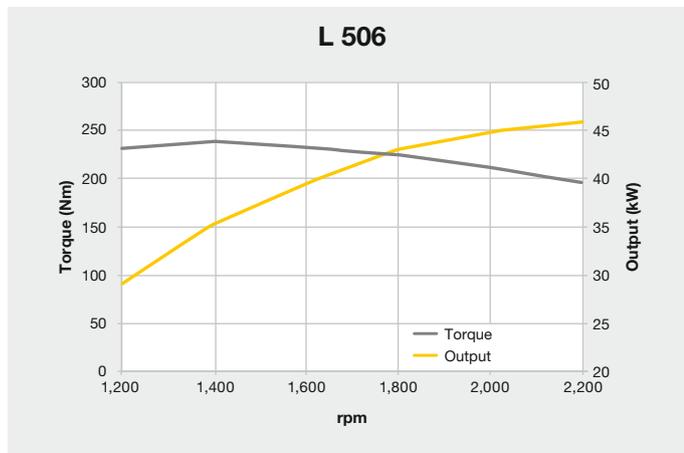
Capacities

Fuel tank	50 l
Engine oil (inclusive filter change)	10,2 l
Coolant	12 l
Front axle	6 l
Rear axle	6 l
Transmission	1 l
Hydraulic tank	55 l
Hydraulic system, total	90 l

Technical Data



Engine Output / Torque



Tyres

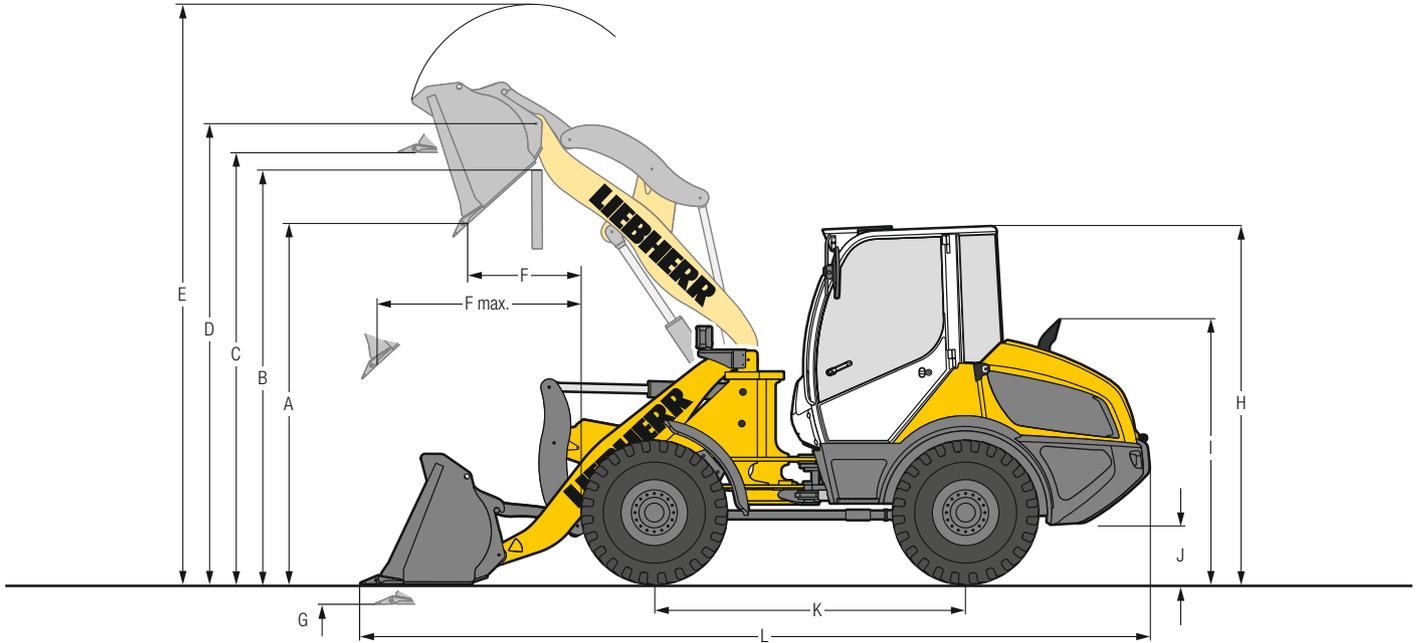


	Size and tread code	Change of operating weight kg	Width over tyres mm	Change in vertical dimensions * mm	Use
L 506_{compact}					
Dunlop	15.5/55R18 SP PG7	L2 - 32	1,780	-28	Sand, Gravel, Asphalt (all ground conditions)
Dunlop	365/70R18 SP T9	L2 - 16	1,780	1	Sand, Gravel, Asphalt (all ground conditions)
Dunlop	365/80R20 SP T9	L2 60	1,770	56	Sand, Gravel, Asphalt (all ground conditions)
Dunlop	405/70R18 SP T9	L2 40	1,810	24	Sand, Gravel, Asphalt (all ground conditions)
Dunlop	405/70R20 SP T9	L2 96	1,810	50	Sand, Gravel, Asphalt (all ground conditions)
Firestone	340/80R18 Duraforce UT	L3 21	1,760	15	Gravel, Asphalt, Industry (all ground conditions)
Firestone	365/80R20 Duraforce UT	L3 80	1,780	53	Gravel, Asphalt, Industry (all ground conditions)
Firestone	400/70R20 Duraforce UT	L3 122	1,810	43	Gravel, Asphalt, Industry (all ground conditions)
Firestone	400/70R20 R8000 UT	L2 99	1,810	43	Earthworks, Green area (all ground conditions)
Firestone	405/70R18 Duraforce UT	L3 92	1,820	23	Gravel, Asphalt, Industry (all ground conditions)
Michelin	400/70R20 BIBLOAD	L3 96	1,810	38	Gravel, Asphalt, Industry (firm ground conditions)
Michelin	400/70R20 XMCL	L2 112	1,820	44	Earthworks, Green area (all ground conditions)
Mitas	365/70R18 EM-01	L2 0	1,780	0	Gravel, Asphalt (all ground conditions)
Mitas	365/80R20 EM-01	L2 60	1,780	52	Gravel, Asphalt (all ground conditions)
Mitas	405/70R18 EM-01	L2 56	1,820	25	Gravel, Asphalt (all ground conditions)
Mitas	405/70R20 EM-01	L2 92	1,820	50	Gravel, Asphalt (all ground conditions)
Trelleborg	400/70R20 TH400	L2 106	1,810	38	Earthworks, Green area (all ground conditions)
L 508_{compact}					
Dunlop	15.5/55R18 SP PG7	L2 - 88	1,780	-53	Sand, Gravel, Asphalt (all ground conditions)
Dunlop	365/80R20 SP T9	L2 4	1,770	31	Sand, Gravel, Asphalt (all ground conditions)
Dunlop	405/70R18 SP T9	L2 - 16	1,810	-1	Sand, Gravel, Asphalt (all ground conditions)
Dunlop	405/70R20 SP T9	L2 40	1,810	25	Sand, Gravel, Asphalt (all ground conditions)
Firestone	340/80R18 Duraforce UT	L3 - 35	1,760	-10	Gravel, Asphalt, Industry (all ground conditions)
Firestone	365/80R20 Duraforce UT	L3 24	1,780	28	Gravel, Asphalt, Industry (all ground conditions)
Firestone	400/70R20 Duraforce UT	L3 66	1,810	18	Gravel, Asphalt, Industry (all ground conditions)
Firestone	400/70R20 R8000 UT	L2 43	1,810	18	Earthworks, Green area (all ground conditions)
Firestone	405/70R18 Duraforce UT	L3 36	1,820	-2	Gravel, Asphalt, Industry (all ground conditions)
Michelin	400/70R20 BIBLOAD	L3 40	1,810	13	Gravel, Asphalt, Industry (firm ground conditions)
Michelin	400/70R20 XMCL	L2 56	1,820	19	Earthworks, Green area (all ground conditions)
Mitas	365/80R20 EM-01	L2 4	1,780	27	Gravel, Asphalt (all ground conditions)
Mitas	405/70R18 EM-01	L2 0	1,820	0	Gravel, Asphalt (all ground conditions)
Mitas	405/70R20 EM-01	L2 36	1,820	25	Gravel, Asphalt (all ground conditions)
Trelleborg	400/70R20 TH400	L2 50	1,810	13	Earthworks, Green area (all ground conditions)

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

Dimensions

Z-bar linkage



Excavation Bucket

L 506

L 508

		ZK-QH	ZK-QH
	Geometry	ZK-QH	ZK-QH
	Cutting tools	T	T
	Lift arm length	2,200	2,300
	Bucket capacity according to ISO 7546**	0.8	1.0
	Specific material weight	1.8	1.8
	Bucket width	1,900	2,100
A	Dumping height at max. lift height and 42° discharge	2,525	2,640
B	Dump-over height	2,800	3,000
C	Max. height of bucket bottom	2,990	3,180
D	Max. height of bucket pivot point	3,190	3,370
E	Max. operating height	4,030	4,260
F	Reach at max. lift height and 42° discharge	750	810
F max.	Max. outreach at 42° discharge	1,490	1,600
G	Digging depth	70	57
H	Height above operator's cab	2,460	2,460
I	Height above exhaust	1,810	1,810
J	Ground clearance	325	325
K	Wheelbase	2,150	2,150
L	Overall length	5,415	5,515
	Turning circle radius over outside bucket edge	4,230	4,465
	Breakout force (SAE)	46	56
	Tipping load, straight*	3,900	4,400
	Tipping load, fully articulated*	3,450	3,850
	Operating weight *	5,180	5,600
	Tyre sizes	340/80R18	340/80R18

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

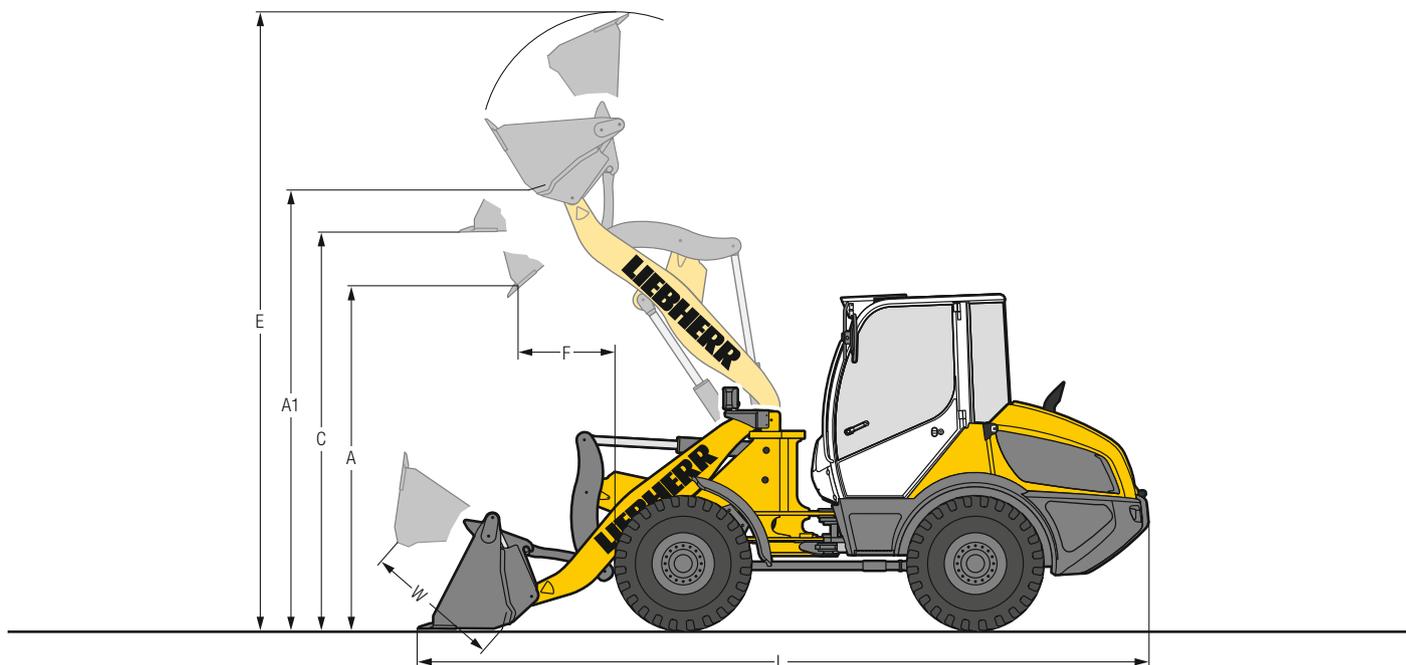
** Actual bucket capacity may be approx. 10% larger than the calculation according to ISO 7546 standard. The degree to which the bucket can be filled depends on the material – see page 19.

ZK-QH = Z-bar linkage incl. quick hitch

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

Attachment

4 in 1 Bucket



4 in 1 Bucket		L 506	L 508
Geometry		ZK-QH	ZK-QH
Cutting tools		T	T
Bucket capacity	m ³	0.7	0.9
Specific material weight	t/m ³	1.8	1.8
Bucket width	mm	2,100	2,100
A Dumping height at max. lift height and 35° discharge	mm	2,550	2,670
A1 Max. dumping height with opened bucket	mm	3,250	3,440
C Max. height of bucket bottom	mm	2,900	3,100
E Max. operating height	mm	4,660	4,830
F Reach at max. lift height and 35° discharge	mm	770	865
L Overall length	mm	5,445	5,565
W Max. bucket opening	mm	1,008	1,008
Turning circle radius over outside bucket edge	mm	4,380	4,530
Tipping load, straight*	kg	3,500	3,930
Tipping load, fully articulated*	kg	3,100	3,450
Operating weight *	kg	5,490	5,856
Tyre sizes		340/80R18	340/80R18

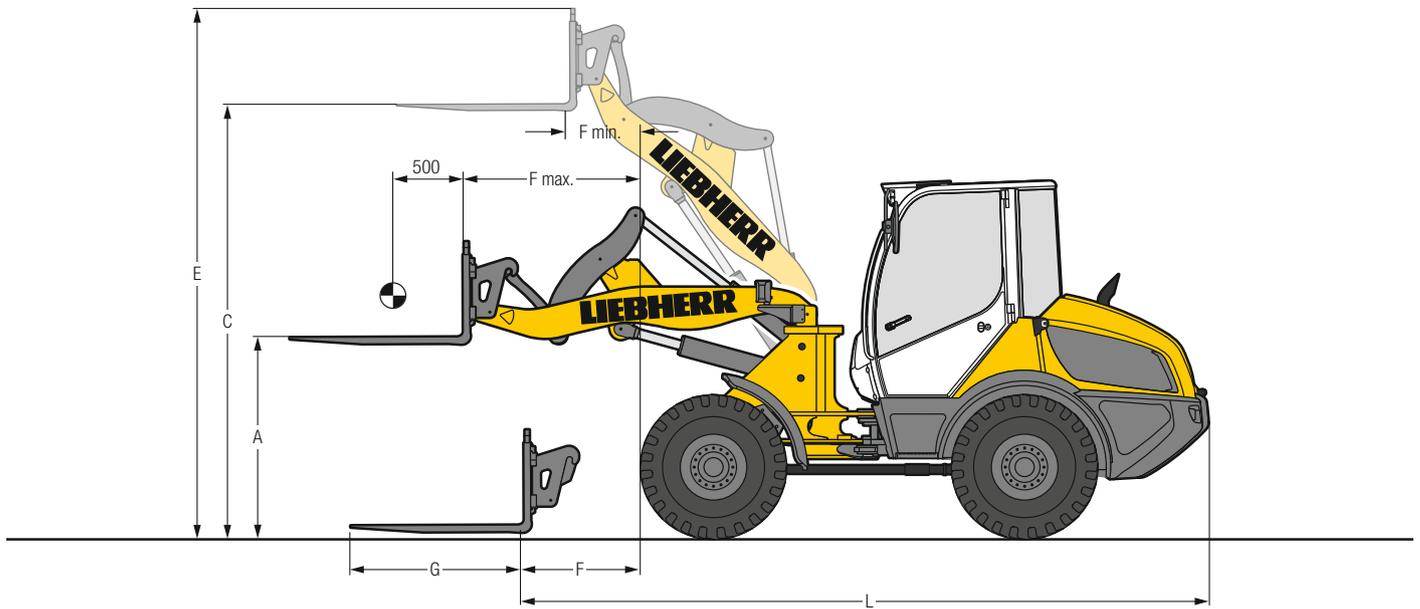
* The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tyres and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

ZK-QH = Z-bar linkage incl. quick hitch

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

Attachment

Fork Carrier and Fork



FEM II Fork Carrier and Fork

			L 506	L 508
	Geometry		ZK-QH	ZK-QH
A	Lifting height at max. reach	mm	1,370	1,470
C	Max. lifting height	mm	3,000	3,200
E	Max. operating height	mm	3,680	3,865
F	Reach at loading position	mm	780	830
F max.	Max. reach	mm	1,220	1,330
F min.	Reach at max. lifting height	mm	450	515
G	Fork length	mm	1,200	1,200
L	Length – basic machine	mm	4,700	4,744
	Tipping load, straight*	kg	3,200	3,500
	Tipping load, fully articulated*	kg	2,800	3,100
	Recommended payload for uneven ground = 60% of tipping load, articulated ¹⁾	kg	1,650	1,850
	Recommended payload for smooth surfaces = 80% of tipping load, articulated ¹⁾	kg	2,000 ²⁾	2,400 ²⁾
	Operating weight*	kg	5,050	5,470
	Tyre sizes		340/80R18	340/80R18

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

¹⁾ According to EN 474-3

²⁾ Payload on forks is limited by tilt cylinder

ZK-QH = Z-bar linkage incl. quick hitch

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.

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

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

Bulk Material Densities and Bucket Filling Factors

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

The Liebherr Wheel Loaders

Wheel Loader



		L 506^{Compact}	L 507^{Stereo}	L 508^{Compact}	L 509^{Stereo}	L 514^{Stereo}
Tipping load	kg	3,450	3,750	3,850	4,430	5,750
Bucket capacity	m ³	0.8	0.9	1.0	1.2	1.5
Operating weight	kg	5,180	5,550	5,600	6,390	8,860
Engine output (ISO 14396)	kW/HP	46/63	50/68	50/68	54/73	76/103

Wheel Loader



		L 518^{Stereo}	L 526	L 538	L 546	L 550^{XPower®}
Tipping load	kg	6,550	7,700	9,500	10,500	12,200
Bucket capacity	m ³	1.7	2.1	2.6	2.8	3.2
Operating weight	kg	9,190	11,250	13,500	14,200	17,700
Engine output (ISO 14396)	kW/HP	76/103	100/136	111/151	120/163	140/190

Wheel Loader



		L 556^{XPower®}	L 566^{XPower®}	L 576^{XPower®}	L 580^{XPower®}	L 586^{XPower®}
Tipping load	kg	13,700	15,900	17,600	19,200	21,600
Bucket capacity	m ³	3,6	4,2	4,7	5,2	6,0
Operating weight	kg	18,400	23,900	25,700	27,650	32,600
Engine output (ISO 14396)	kW/HP	165/224	200/272	215/292	230/313	260/354

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Equipment



Basic Wheel Loader

	506	508
Connection for electrical equipment 7-pole	+	+
Automatic central lubrication system	+	+
Battery main switch (lockable)	•	•
Tool kit	•	•
Diesel particle filter	•	•
Ride control	+	+
Parking brake	•	•
Pre-heat system for cold starting	•	•
Rear license panel light	+	+
Oscillating center pivot	•	•
Combined inching-braking system	•	•
Fuel pre-filter	•	•
Cooling water pre-heating 230 V	+	+
Multi-disc limited slip differentials in both axles	•	•
Liebherr biodegradable hydraulic oil	+	+
Special paint	+	+
Auxiliary heater (Additional heating with engine preheating)	+	+
Power socket rear (13-pole, 12 V)	+	+
Lockable doors and engine hood	•	•
Load lashing lugs	•	•
Towing hitch	•	•



Equipment

	506	508
Working hydraulics lockout	•	•
Direct control of attachment hydraulics	•	•
Fork carrier and pallet forks	+	+
Lift arm Z-bar linkage with parallel guidance	•	•
Hydraulic connections rear	+	+
Hydraulic quick hitch	•	•
Loading buckets incl. a range of cutting tools	+	+
Load holding valves	+	+
Bucket return (visual mark on lifting frame)	•	•
Float position	•	•
Control lever lock	+	+
3rd hydraulic, proportional control circuit	+	+
3rd hydraulic, proportional control circuit on Liebherr control lever	+	+
3rd and 4th hydraulic, proportional control circuit	+	+



Operator's Cab

	506	508
Storage compartment	•	•
Storage box	•	•
Armrest left	+	+
Exterior mirror, tiltable	•	•
Exterior mirror, tiltable and heatable	+	+
Fold-out window right 180°	+	+
Operating hour meter (integrated in display unit)	•	•
Display	•	•
Electronical theft protection	+	+
Operator seat "Comfort" – air sprung with seat heating	+	+
Operator seat "Standard" – mechanically sprung	•	•
Travel direction switch on Liebherr control lever	•	•
Particle filter F5	•	•
Fire extinguisher in cab 2 kg	+	+
Cup holder	•	•
Inching device hand operated	+	+
Rear window heated electrically	•	•
Floor mat	•	•
Clothes hook	•	•
Air conditioning system (manual)	+	+
Adjustable steering column	+	+
LiDAT (Liebherr data transfer system)	+	+
Liebherr control lever with mini-joystick for additional control circuit	+	+
Emergency exit	•	•
Preparation for radio installation	+	+
Radio Liebherr "Comfort" (SD/USB/AUX/BLUETOOTH/handsfree set)	+	+
Radio Liebherr "Standard" (SD/USB/AUX)	+	+
Interior rear-view mirror	•	•
Amber beacon	+	+
Soundproof ROPS/FOPS cab	•	•
Wipe system front/rear	•	•
Headlights rear, single design, halogen/LED	+	+
Headlights rear, double design, LED	+	+
Headlights front, single design, halogen	•	•
Headlights front, single design, LED	+	+
Headlights front, double design, LED	+	+
Power socket 12 V	•	•
First aid kit	+	+
Hot-water heater with defroster and recirculated air mode	•	•



Safety

	506	508
Country-specific versions	+	+
Back-up alarm acoustical / visual	+	+

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