

# Compact Loaders

**L 506 / L 508**  
Compact Compact

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



# LIEBHERR



## L 506 Compact

Tipping load, articulated: 3,450 kg  
Bucket capacity: 0.8 m<sup>3</sup>  
Operating weight: 5,180 kg  
Engine output: 46 kW

## L 508 Compact

Tipping load, articulated: 3,850 kg  
Bucket capacity: 1.0 m<sup>3</sup>  
Operating weight: 5,600 kg  
Engine output: 50 kW



reddot design award  
winner 2013



## 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.







#### 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 at not a problem - the Compact Loaders can be used efficiently and flexibly.



# Economy

The Compact Loaders provide companies with a 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.

## Ready for Use Quickly Wherever They Are Needed

### Compact Design

The compact, low design further increases the flexibility of the Compactloader 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

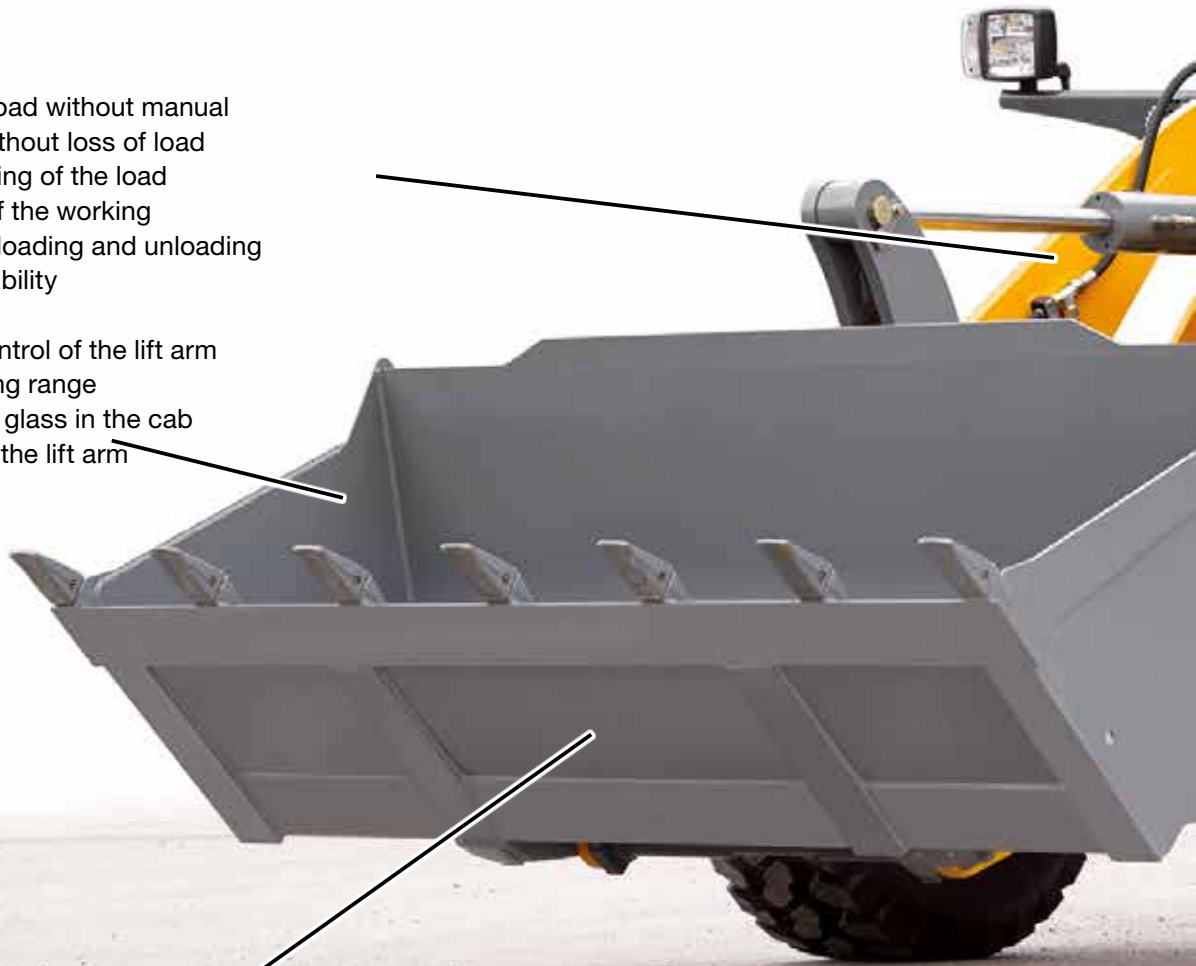
- + Can be transported easily and efficiently
  - + Efficient to use in low entrances and exits
  - + Minimal maintenance requirements
  - + Extremely low downtime
- 
- ✓ Compact, lightweight design
  - ✓ Clearance height below 2.5 meters
  - ✓ Overall height on conventional transport vehicles less than 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	4TNV98C
Design	Water-cooled diesel suction engine	
Cylinder inline	4	4
Fuel injection process	Common Rail direct injection	
Max. output according to DIN/ISO 3046	kW 46	50
	at RPM 2,200	2,400
Max. torque	Nm 239	239
	at RPM 1,400	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 IIIB / Tier 4f.



## 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	Control of travel drive with travel and combined inching pedal. The inching pedal permits continuously variable adjustment of crowding and tractive force to match ground and operating conditions. The Liebherr joystick is used to control forward and reverse travel
Travel speed range (forward and reverse)	Travel speed range 1 0 – 6.0 km/h Travel speed range 2 0 – 20.0 km/h

The quoted speeds apply with the tyres that are standard equipment on the loader.



## 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 EC guidelines 71/320.



## 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 joystick 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	The cab is mounted on the rear section, with built in ROPS/FOPS structure. Operator's door with 178° opening angle, ventilation opening on the right side, tinted safety glass window ROPS roll over protection per EN/ISO 3471/ EN 474-1 FOPS falling objects protection per EN/ISO 3449/ EN 474-1 Adjustable steering column available as optional extra
Operator's seat	4 way adjustable seat with seat belt, adjustable for operator's weight (mechanically sprung)
Cab heating and ventilation	Operator's cabin with defroster and rear window heating, fresh air filter, air recirculation system and hot water heating, cabin ventilation



## Noise Emission

ISO 6396	L <sub>PA</sub> (inside cab)	= 78 dB(A)
2000/14/EC	L <sub>WA</sub> (surround noise)	= 101 dB(A)



## Capacities

Fuel tank	50 l
Engine oil (including 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

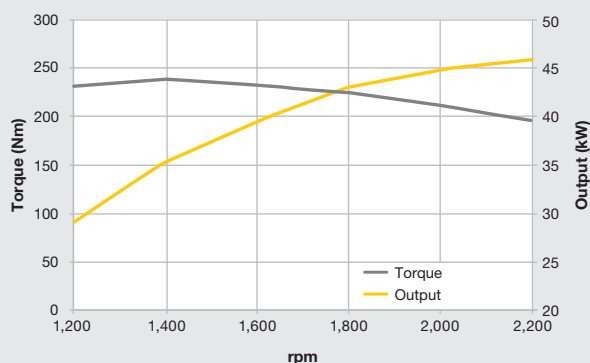


# Technical Data

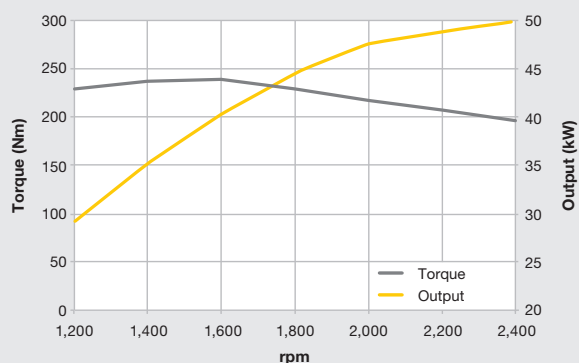


## Engine Output / Torque

L 506



L 508



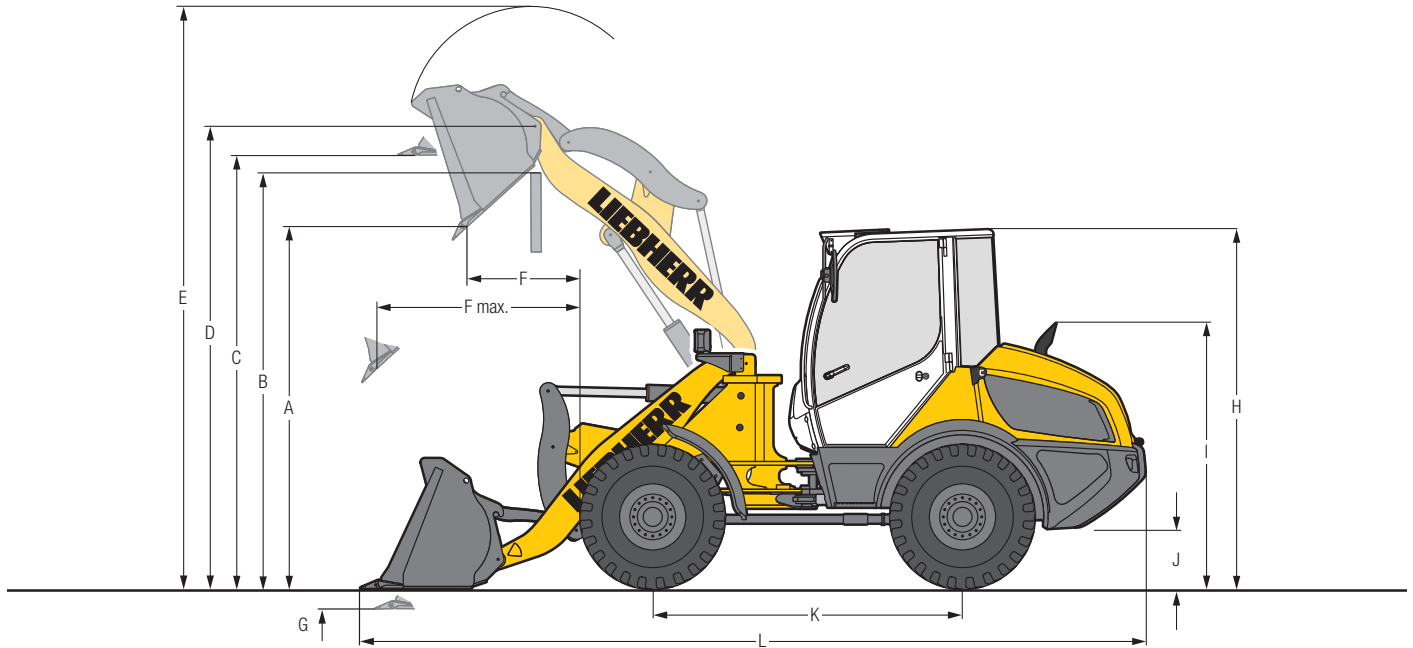
# Tyres



	Size and tread code		Change of operating weight kg	Width over tyres mm	Change in vertical dimensions * mm	Use
<b>L 506<sub>Compact</sub></b>						
Dunlop	365/70R18 SP T9	L2	- 37	1,750	- 14	Sand, Gravel, Asphalt (all ground conditions)
Mitas	365/70R18 EM-01	L2	- 21	1,760	- 15	Gravel, Asphalt (all ground conditions)
<b>L 506<sub>Compact</sub> / L 508<sub>Compact</sub></b>						
Bridgestone	365/80R20 VUT	L2	+ 47	1,750	+ 31	Gravel, Asphalt (all ground conditions)
Bridgestone	405/70R20 VUT	L2	+ 83	1,790	+ 33	Gravel, Asphalt (all ground conditions)
Dunlop	15.5/55R18 SP PG7	L2	- 53	1,760	- 43	Clay, Gravel, Asphalt (all ground conditions)
Dunlop	405/70R18 SP T9	L2	+ 19	1,780	+ 9	Sand, Gravel, Asphalt (all ground conditions)
Dunlop	365/80R20 SP T9	L2	+ 39	1,750	+ 41	Sand, Gravel, Asphalt (all ground conditions)
Dunlop	405/70R20 SP T9	L2	+ 75	1,780	+ 35	Sand, Gravel, Asphalt (all ground conditions)
Firestone	340/80R18 Duraforce UT	L3	0	1,740	0	Gravel, Asphalt, Industry (all ground conditions)
Firestone	405/70R18 Duraforce UT	L3	+ 71	1,790	+ 8	Gravel, Asphalt, Industry (all ground conditions)
Firestone	365/80R20 Duraforce UT	L3	+ 60	1,760	+ 38	Gravel, Asphalt, Industry (all ground conditions)
Firestone	400/70R20 Duraforce UT	L3	+ 101	1,780	+ 28	Gravel, Asphalt, Industry (all ground conditions)
Firestone	400/70R20 R8000 UT	L2	+ 78	1,780	+ 28	Earthworks, Green area (all ground conditions)
Michelin	375/75R20 XZSL	L3	+ 85	1,780	+ 37	Gravel, Asphalt, Industry (firm ground conditions)
Michelin	400/70R20 BIBLOAD	L3	+ 75	1,780	+ 23	Gravel, Asphalt, Industry (firm ground conditions)
Michelin	400/70R20 XMCL	L2	+ 91	1,790	+ 29	Earthworks, Green area (all ground conditions)
Mitas	365/80R20 EM-01	L2	+ 39	1,760	+ 37	Gravel, Asphalt (all ground conditions)
Mitas	405/70R18 EM-01	L2	+ 35	1,790	+ 10	Gravel, Asphalt (all ground conditions)
Mitas	405/70R20 EM-01	L2	+ 71	1,790	+ 35	Gravel, Asphalt (all ground conditions)
Trelleborg	400/70R20 TH400	L2	+ 85	1,780	+ 23	Earthworks, Green area (all ground conditions)

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

# Dimensions



## Loading Bucket

		L 506	L 508
	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
	Bucket width	1,900	2,100
	Specific material weight	1.8	1.8
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 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, articulated 40°*	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, articulated 40° 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.



= Excavation bucket with back grading edge for quick hitch

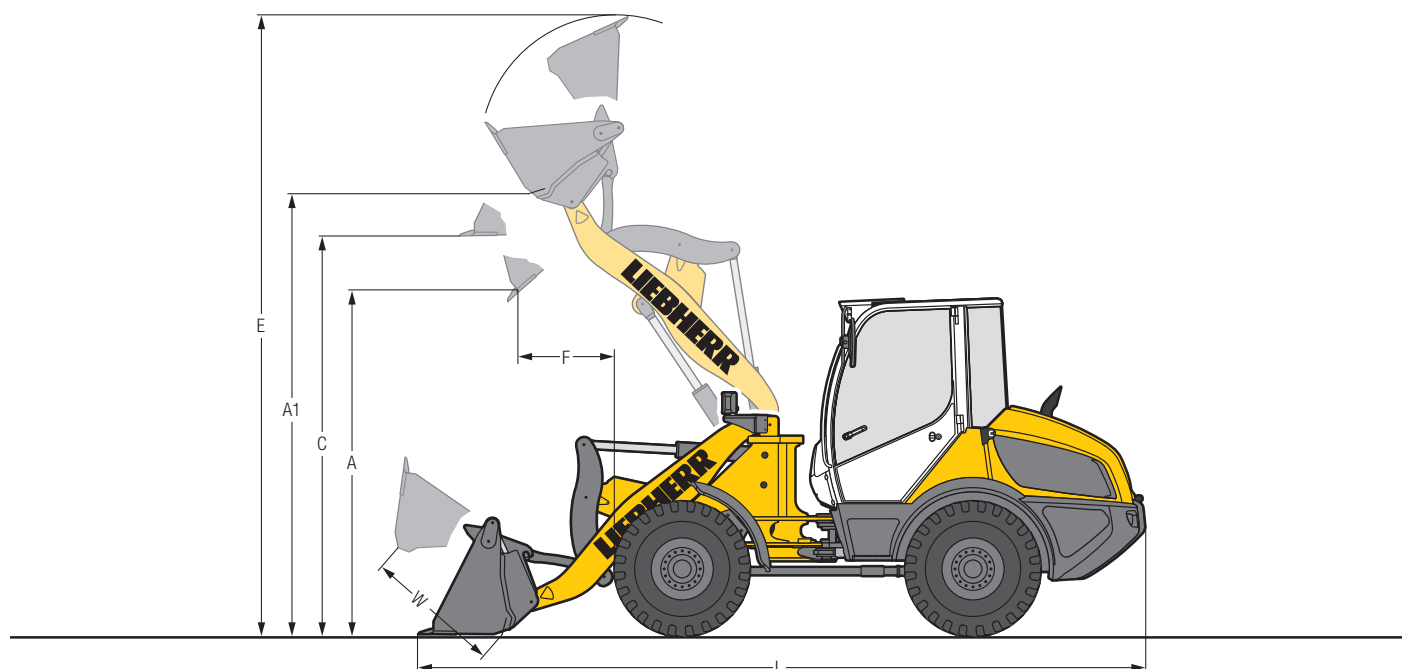
ZK-QH = Z-bar linkage with hydraulic quick hitch

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 <sup>3</sup>	0.7	0.9
	Bucket width	mm	2,100	2,100
	Specific material weight	t/m <sup>3</sup>	1.8	1.8
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, articulated 40°*	kg	3,100	3,450
	Operating weight *	kg	5,490	5,856
	Tyre sizes		340/80R18	340/80R18

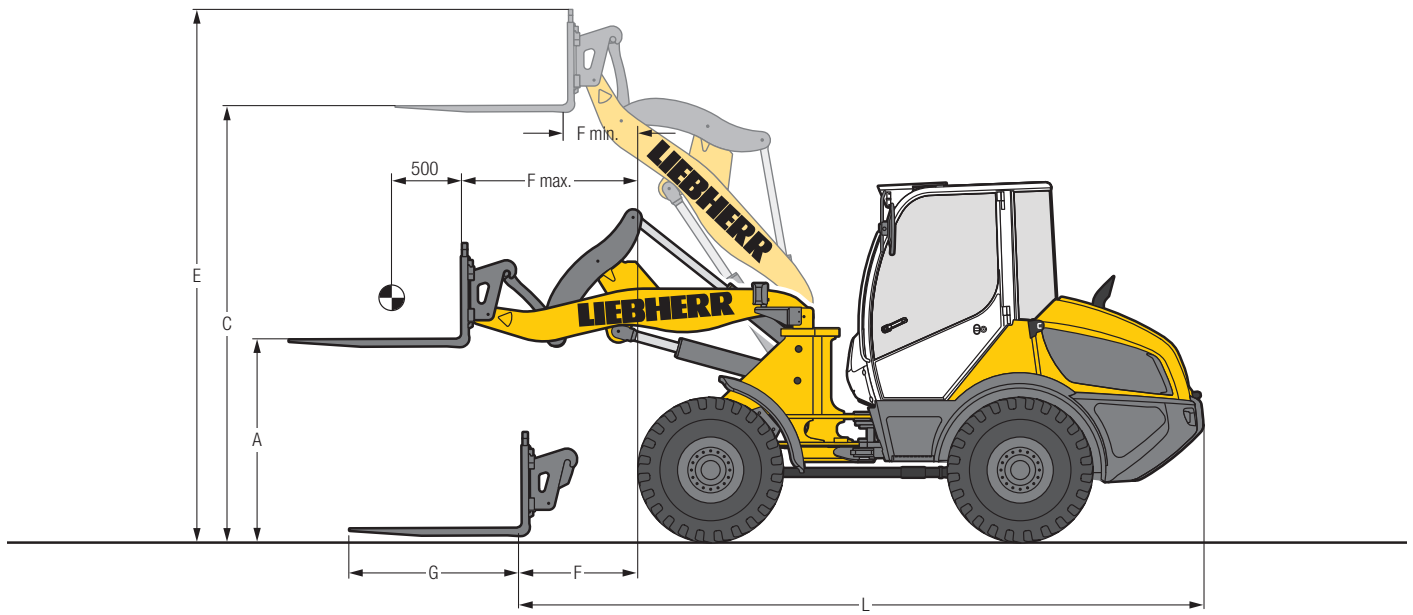
\* The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tyres and optional equipment will change the operating weight and tipping load. (Tipping load, articulated 40° according to ISO 14397-1)

ZK-QH = Z-bar linkage with hydraulic 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, articulated 40°*	kg	2,800	3,100
	Recommended payload for uneven ground = 60% of tipping load, articulated <sup>1)</sup>	kg	1,650	1,850
	Recommended payload for smooth surfaces = 80% of tipping load, articulated <sup>1)</sup>	kg	2,000 <sup>2)</sup>	2,400 <sup>2)</sup>
	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, articulated 40° according to ISO 14397-1)

<sup>1)</sup> According to EN 474-3

<sup>2)</sup> Payload on forks is limited by tilt cylinder

ZK-QH = Z-bar linkage with hydraulic quick hitch



# 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.

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

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

## Bulk Material Densities and Bucket Filling Factors

		t/m <sup>3</sup>	%			t/m <sup>3</sup>	%			t/m <sup>3</sup>	%
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	Paper,	wet	1.0	110
	wet	1.9	110	Granite		1.8	95		shredded / loose	0.6	110
Gravel and sand,	dry	1.7	105	Sandstone		1.6	100	Coal,	heavy material density	1.2	110
	wet	2.0	100	Slate		1.75	100		light material density	0.9	110
Sand / clay		1.6	110	Bauxite		1.4	100	Waste,	domestic waste	0.5	100
Clay,	natural	1.6	110	Limestone		1.6	100		bulky waste	1.0	100
	dry	1.4	110	Gypsum,	broken	1.8	100				
Clay / gravel,	dry	1.4	110	Coke		0.5	110				
	wet	1.6	100	Slag,	broken	1.8	100				

# The Liebherr Wheel Loaders

## Wheel Loader



		<b>L 506 Compact</b>	<b>L 507 Stereo</b>	<b>L 508 Compact</b>	<b>L 509 Stereo</b>	<b>L 514 Stereo</b>
Tipping load	kg	3,450	3,712	3,850	4,430	5,680
Bucket capacity	m <sup>3</sup>	0.8	0.9	1.0	1.2	1.5
Operating weight	kg	5,180	5,470	5,600	6,390	8,350
Engine output	kW/HP	46/63	50/68	50/68	54/73	77/105

## Wheel Loader



		<b>L 526</b>	<b>L 538</b>	<b>L 546</b>	<b>L 550 XPower®</b>	<b>L 556 XPower®</b>
Tipping load	kg	7,700	9,500	10,500	12,200	13,700
Bucket capacity	m <sup>3</sup>	2.1	2.6	2.8	3.2	3.6
Operating weight	kg	11,250	13,500	14,200	17,700	18,400
Engine output	kW/HP	103/140	114/155	123/167	140/191	165/224

## Wheel Loader



		<b>L 566 XPower®</b>	<b>L 576 XPower®</b>	<b>L 580 XPower®</b>	<b>L 586 XPower®</b>
Tipping load	kg	15,900	17,600	19,200	21,600
Bucket capacity	m <sup>3</sup>	4.2	4.7	5.2	6.0
Operating weight	kg	23,900	25,700	27,650	32,600
Engine output	kW/HP	200/272	215/292	230/313	260/354

03.16

# Equipment



## Basic Wheel Loader

	506	508
Battery master switch	•	•
Tool kit	•	•
Diesel particle filter	•	•
Electronical theft protection	+	+
Automatic travel mode	•	•
Ride control	+	+
Pre-heat system for cold starting	•	•
Oscillating center pivot	•	•
Combined inching-braking system	•	•
Multi-disc limited slip differentials in both axles	•	•
LiDAT (Liebherr Data Transfer System)	+	+
Air cleaner system with pre-filter	•	•
Back-up alarm	+	+
Tail lights, single version	•	•
Amber beacon	+	+
Headlights front, single version (on front chassis) – halogen	•	•
Lockable doors, service flap and engine hood	•	•
Loading lashing lugs	•	•
Towing hitch	•	•



## Operator's Cab

	506	508
Storage compartment	•	•
Storage box	•	•
Left armrest	+	+
Fold-out window right 180°	+	+
Operator's package	•	•
Operator's seat – mechanically sprung	•	•
Operator's seat – air sprung	+	+
Operator's seat – air sprung with seat heating	+	+
Fire extinguisher 2 kg	+	+
Cup holder	•	•
Horn	•	•
Floor mat	•	•
Folding outside mirrors	•	•
Clothes hook	•	•
Air conditioning system (manual)	+	+
Steering column, adjustable	+	+
Emergency exit	•	•
Preparation for radio installation	+	+
Radio Liebherr "Comfort" (SD/USB/BLEETOOTH/handsfree set)	+	+
Radio Liebherr "Standard" (SD/USB/AUX)	+	+
Interior rear-view mirror	•	•
Soundproof ROPS/FOPS cab	•	•
Wash/wipe system for windscreen and rear window	•	•
Headlights rear, single version – halogen	+	+
Headlights rear, single or double version – LED	+	+
Headlights front, single version – halogen	•	•
Headlights front, single or double version – LED	+	+
Sun visor	•	•
Plug	•	•
Locking for control lever	+	+
First aid kit	+	+
Hot-water heater with defroster and recirculated-air system	•	•



## Display unit

	506	508
Timer for hours of operation	•	•
Indicator light	•	•
Travel speed ranges and gear selected	•	•
High beam	•	•
Fuel reserve	•	•
Reverse travel	•	•
Diesel engine pre-heat	•	•
Forward travel	•	•



## Warning Lights for

	506	508
Emissions temperature high	•	•
Battery charge	•	•
Diesel particle filter	•	•
Parking brake	•	•
Hydraulic oil temperature	•	•
Air cleaner blockage	•	•
Engine oil pressure	•	•
Engine stop	•	•
Engine overheat	•	•
Engine error	•	•



## Audible Warnings for

	506	508
Overheat of hydraulic fluid	•	•
Air cleaner blockage	•	•
Engine oil pressure	•	•
Engine stop	•	•
Engine overheat	•	•
Engine error	•	•



## Function Keys for

	506	508
Working lights rear	+	+
Working lights front	+	+
Diesel particulate filter operation	•	•
Speed range selection	•	•
Ride control	+	+
Air conditioning system	+	+
Amber beacon	+	+
Wash/wipe system for rear window	•	•
Headlights	•	•
Road travel	•	•
Hazard warning lights	•	•



## Rotary Switches for

	506	508
Blower	•	•
Heater	•	•



## Equipment

	506	508
Direct control of attachment hydraulics	•	•
Fork carrier and lift forks	+	+
Hydraulic quick hitch	•	•
Loading buckets with and without teeth, or bolt-on cutting edge	+	+
Country-specific versions	+	+
Load holding valves	+	+
Bucket return to dig (visual mark on lifting frame)	•	•
Float position	•	•
Z-bar linkage with parallel guidance	•	•
3rd hydraulic control circuit	+	+
3rd and 4th hydraulic control circuits	+	+

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