

**Stereoloaders®**

**L 506 - L 514**  
**Stereo Stereo**

Tipping load limits: 3,231 – 5,680 kg



**LIEBHERR**

## L 506 Stereo

Tipping load, articulated: 3,231 kg  
Bucket capacity: 0.8 m<sup>3</sup>  
Operating weight: 5,120 kg  
Engine output: 46 kW

## L 507 Stereo

Tipping load, articulated: 3,501 kg  
Bucket capacity: 0.9 m<sup>3</sup>  
Operating weight: 5,240 kg  
Engine output: 48 kW

## L 508 Stereo

Tipping load, articulated: 3,824 kg  
Bucket capacity: 1.0 m<sup>3</sup>  
Operating weight: 5,480 kg  
Engine output: 48 kW

## L 509 Stereo

Tipping load, articulated: 4,225 kg  
Bucket capacity: 1.1 m<sup>3</sup>  
Operating weight: 6,080 kg  
Engine output: 60 kW

## L 510 Stereo

Tipping load, articulated: 4,581 kg  
Bucket capacity: 1.2 m<sup>3</sup>  
Operating weight: 6,250 kg  
Engine output: 60 kW

## L 514 Stereo

Tipping load, articulated: 5,680 kg  
Bucket capacity: 1.5 m<sup>3</sup>  
Operating weight: 8,350 kg  
Engine output: 72 kW



## Performance

The new Liebherr Stereoloaders® are flexible 'power all-rounders'. Their unique steering system gives them exceptional manoeuvrability and with their compact articulation angle of only 30 degrees they can move exceptionally heavy payloads.

## Economy

The new-generation Stereoloaders® are unbeatable value for money. The water-cooled diesel engine guarantees economical performance and long life. For high speeds on the road, the L 507Stereo and L 509Stereo **Speeder** models are also available.

## Reliability

Since 1994, Liebherr has systematically developed its highly successful "Stereo" concept. The latest Stereoloaders® have been tested in the toughest imaginable operating conditions and even stronger materials are specified for components subject to particularly severe loads. Water-cooled Liebherr 4-cylinder diesel engines are used as a strong, reliable, source of power.

## Comfort

A unique Liebherr wheel-loader feature: Stereo steering combined with an oscillating centre pivot reduces the maximum cab tilt angle when crossing rough surfaces to the half.

Safe, convenient and extremely wide entrance steps ensure easy access to the cab even when the Stereoloaders® is fully articulated, and modern construction methods have reduced noise levels inside the cab by half.





#### Unique steering system

- The Stereoloaders® steering geometry combines a centre pivot with a steered rear axle, for maximum operating efficiency even in the most confined spaces
- Amazingly tight turning circle: up to 20% smaller than comparable conventional steered wheel loaders



# Performance

The unique steering principle used on the new Stereoloaders® loaders makes them exceptionally manoeuvrable. The articulation angle is only 30 degrees, so that higher payloads can be moved. This too makes these loaders genuinely versatile and capable of tackling a wide variety of jobs at maximum efficiency.

## Outstanding manoeuvrability

### 20% more flexibility

The new Stereoloaders®' turning circles, measured at the outer extremity of the working equipment, are as much as 20% smaller than vehicles with centre-pivot steering only. This can provide as much as 500 mm more clearance, for greater working efficiency.

## High payloads

### Small articulation angle

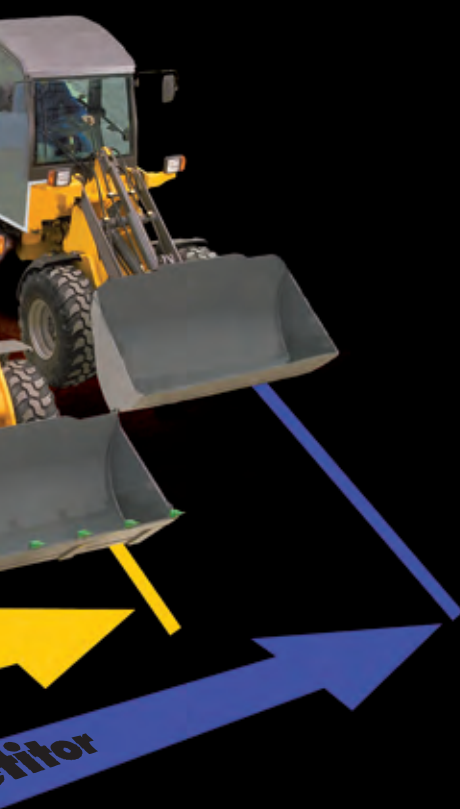
Since the articulation angle is smaller (only 30°, compared with 40° on conventional loaders), heavier loads can be carried – more payload for the equivalent operating weight.

## Full selection of working equipment

### For every task

A wide range of attachments can be used on the new Stereoloaders®, making them exceptionally versatile. Special requirements can be handled and the loaders operated profitably in every work area.

The Z-pattern linkage has been optimised, but existing Z-pattern working equipment can still be used on these loaders.



### High payloads

- High payload with low operating weight and the highest possible stability are the results of the unique stereo steering system with a maximum articulation angle of 30°
- Unblocked view of the entire working and manoeuvring area, for a maximum of safety



### A true all-purpose machine

- With a big selection of working equipment and attachments, these new Stereoloaders® are high-performance 'jacks of all trades' and profitable to operate



#### Controlled cooling

- Optimised cooling airflow – an invaluable benefit, particularly in very dusty working conditions
- Cooling air is drawn in from the 'cleanest' zone directly behind the rear window



#### Ideal for tasks involving longer road journeys: the **Speeder**

- The L 507 and L 509 are also supplied in **Speeder** versions, with a top speed of 30 km/h that makes them ideal if the work involves a high proportion of journeys on the public highway

# Economy

The new-generation Stereoloaders® have advantages that you can see on the bottom line. They are excellent value for money and extremely economical in day-to-day operation. An optimised cooling system reduces fuel consumption and also cuts routine maintenance costs still further.

For tasks that call for quick movement from point to point on the road, two models are also available as **Speeder** versions.

## Low operating costs

### Demand-controlled cooling

Cuts energy consumption and costs: the optimised cooling system for the diesel engine and the hydraulic system supplies precisely the power needed at the cooling fan in all operating conditions. The improved cooling system also cuts maintenance and cleaning costs.

### „Speeder“

#### Higher top speed

The L 507<sup>Stereo</sup> and L 509<sup>Stereo</sup> are also available in a **Speeder** version. They then have a top speed of 30 km/h – ideal for rapid journeys between working sites and fast load handling movements.

## Adaptable equipment

### Optimised kinematics

The optimised Z-pattern linkage, with its generous dumping height and outreach, has a performance that could formerly only be obtained with two different systems (parallel and Z linkages). The dimensions for connecting the previous and latest Z-pattern linkages are identical, so that equipment is fully interchangeable and older items can still be used.

## Easy maintenance

### Unobstructed access

When the compact engine cover is opened, all maintenance points can be reached easily.



### Optimised kinematics

- The optimised Z-pattern linkage with its generous dumping height and vertical clearance satisfies the highest performance standards applicable to work on construction sites and in industry
- The mounting points have not changed, so that existing Z-pattern linkages can be attached to the new Stereoloaders® without difficulty
- Standard equipment for the powerful Z-pattern linkage is an integral hydraulic quick-change system



### Easy access

- The engine compartment has a compact hinge-up cover which gives unobstructed access to all maintenance points



#### Diesel engine

- The familiar, much-praised standards of quality and reliability are shared by new 4-cylinder water-cooled diesel engines
- A reliable, powerful driveline





# Reliability

The new Liebherr Stereoloaders® are a combination of mature, well-proven technology and innovations designed to boost performance still further. Since 1994 the “Stereo concept” has been steadily developed, and the new models have proved their worth in trials of unmatched severity. Water-cooled 4-cylinder diesel engines are the key to their reliability and power.

## Quality in every detail

### Cooling and airflow system

Further evidence of Liebherr’s well thought-out design principles: the radiator is located directly behind the cab, so that fresh air can be drawn in from a relatively clean zone. This improves cooling-system performance in very dusty conditions and greatly reduces the amount of maintenance work and cleaning needed.

### Diesel engine

The new water-cooled 4-cylinder diesels reach the same high standards of quality and reliability that are a feature of all Liebherr products, and drive the new Stereoloaders® safely and powerfully.

### Strong linkage

Thick-walled bearing bushings are used to ensure long, trouble-free operating life.

### Hydraulic quick-change system

The quick-change system is compatible with most commercially available working attachments. All its parts are made from high-grade materials.

## Technology you can trust

### For every working task

The new Stereoloaders® will operate to the same excellent standards of reliability as the previous models.

### Systematic development

Based on the well-proven “Stereo concept”, the new generation of Stereo loaders now offers even higher performance and enhanced user benefit.



### Robust operating linkage

- The new Z-pattern linkage is rated for fast, powerful work cycles and copes easily with the toughest conditions every likely to be encountered in day-to-day work



### A well-proven basis for higher performance

- Unceasing development work has gone into the “Stereo concept” to ensure high quality and reliability in every detail



Above: **Speeder** and L 514 cab.

Left: **Standard display.**

- The ergonomically correct layout of all the controls makes precision handling of the wheel loader easy
- Clear arranged control panels with optical and accoustical warnings result in a comfortable and safe way of operation



**Easy access**

- Access to the cab is safe, convenient by way of broad steps, and absolutely safe for the driver even when the Stereo loader is in a fully articulated position



# Comfort

A new dimension in ride quality: combined Stereo steering and oscillating centre pivot reduce the sideways cab tilt angle by half when crossing rough surfaces and obstructions. Only the Liebherr wheel loader achieves such unrivalled standards of ride quality across such uneven surfaces. Noise in the cab, too, has been reduced to an impressively low level. And for routine maintenance, all the necessary points in the engine compartment are easily accessible.

## Perfection in cab design

### An outstanding view

The driver's cab has been totally redesigned. All the instruments and displays are correctly positioned for easy use. From his seat, the driver has an excellent view of the working and manoeuvring areas.

## Freedom from fatigue

### Effective noise reduction

Optimised cab design has also reduced the interior noise level compared with the previous models; it is now at the impressively low figure of 70 decibels.

### Stable and safe performance

In the center pivot area, shock-absorbing elements minimize vibration from travel movement and help to prevent it from reaching the driver. They also make the Stereo loader smoother and more stable when cornering. The long wheelbase contributes to the loader's consistently good dynamic performance as well.

## Precise, low-effort control

### The Liebherr single-lever principle

A single 'joystick' lever controls all the loader's working movements accurately and with the necessary sensitivity for exact, safe vehicle and load positioning. One hand can remain on the steering wheel at all times.



### Unique oscillating system

- The combination of oscillating centre pivot and swing axles reduces the maximum cab tilt angle of 12° by half: for a unique driveability

- Initial position
- Lateral slope angle
- Stereoloader®
- Conventional systems



### A practical option

- A large, lockable toolbox can be supplied as an optional extra for the access area. It is a convenient place to keep items that may be needed every day, such as tools, lashing tackle, a grease gun etc

# Technical Data

L 506 - L 510



## Engine

	L 506	L 507	L 508	L 509	L 510
Diesel engine	D 2011 L4 W	D 2011 L4 W	D 2011 L4 W	TD 2011 L4 W	TD 2011 L4 W
Design	Water-cooled Diesel suction engine				
Number of cylinders	4	4	4	4	4
Combustion process	Direct fuel injection Pump-line injector system (PLD)				
Rated output according to ISO 9249					
kW 46	48	48	60	60	60
at RPM 2,600	2,600	2,600	2,600	2,600	2,600
Max. torque					
Nm 200	210	210	257	257	257
at RPM 1,700	1,700	1,700	1,600	1,600	1,600
Displacement					
litres 3.62	3.62	3.62	3.62	3.62	3.62
Electrical system					
Operating voltage	V 12	12	12	12	12
Capacity	Ah 100	100	100	100	100
Alternator	V/A 12/95	12/95	12/95	12/95	12/95
Starter motor	V/kW 12/2.3	12/2.3	12/2.3	12/2.6	12/2.6

The exhaust emissions are below the limits in stage IIIA/Tier 3.



## Travel Drive

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 \_\_\_\_\_ Speed range 1 \_\_\_\_\_ 0 – 6.0 km/h  
(forward and reverse) Speed range 2 \_\_\_\_\_ 0 – 20.0 km/h

**Speeder** (L 507 and L 509) \_\_\_\_\_ 0 – 30.0 km/h

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



## Axles

Design \_\_\_\_\_ Four-wheel drive

Front axle \_\_\_\_\_ Rigidly mounted planetary-hub axle

Differential \_\_\_\_\_ Automatic limited-slip differential with 45% locking action. Planetary final drive in the wheel hubs

Rear axle \_\_\_\_\_ Centre-pivot rear axle with planetary hubs

Differential \_\_\_\_\_ Automatic limited-slip differential with 45% locking action. Planetary final drive in the wheel hubs.

Oscillation \_\_\_\_\_ 5° oscillating angle to each side

Design **Speeder** \_\_\_\_\_ Four-wheel drive

Front axle \_\_\_\_\_ Rigidly mounted planetary-hub axle

Differential \_\_\_\_\_ 100% differential lock, manually engaged planetary-hub gears at both axles

Rear axle \_\_\_\_\_ Centre-pivot rear axle with planetary hubs

Differential \_\_\_\_\_ Non-locking differential, planetary hubs, double-pivot steering

Oscillation \_\_\_\_\_ 5° oscillating angle to each side



## Brakes

Service brake \_\_\_\_\_ Wear-free service brake due to hydrostatic travel drive, applied to all four wheels and additional drum brake system

Parking brake \_\_\_\_\_ Mechanically operated drum brake

Brake system **Speeder** \_\_\_\_\_ Dual-circuit brake system, drum brake and wet multi-disc brake on front axle

Service brake \_\_\_\_\_ "Negative brake system" on front axle acting on the wet multi-disc brakes

Parking brake \_\_\_\_\_ "Negative brake system" on front axle acting on the wet multi-disc brakes

The braking system meets the requirements of the EC guidelines 71/320.



## Steering

Design \_\_\_\_\_ "Stereo" steering system, hydraulic servo power steering. Central oscillating frame articulation in combination with rear-axle pivot steering, and damper element

Angle of articulation \_\_\_\_\_ 30° to each side

Angle of oscillation \_\_\_\_\_ 5° to each side

Centre-pivot steering \_\_\_\_\_ 5° to each side

Max. pressure \_\_\_\_\_ 180 bar



## Attachment Hydraulics

Design \_\_\_\_\_ Gear pump and pressure cut-off

Filtering \_\_\_\_\_ Suction return line filter in the hydraulic reservoir

Control \_\_\_\_\_ "Liebherr-Joystick" with hydraulic servo control

Lift circuit \_\_\_\_\_ Lifting, neutral, lowering and float positions controlled by Liebherr joystick with detent; automatic lifting-limit circuit

Tilt circuit \_\_\_\_\_ Tilt back, neutral, dump additional functions are activated by an optional "convenient control system"

Additional hydraulics \_\_\_\_\_ 3. control circuit is standard equipment

	L 506	L 507	L 508	L 509	L 510
Max. flow _____ l/min.	65	65	93	93	93
Max. pressure _____ bar	210	230	190	190	210



## Attachment

Geometry \_\_\_\_\_ Powerful Z-pattern linkage with standard hydraulic quick-release coupling

Bearings \_\_\_\_\_ lathe-turned thick-walled bushings with lubricating grooves



## Operator's Cab

Design \_\_\_\_\_ The cab is resiliently mounted on the rear section, with built in ROPS/FOPS structure, tinted safety glass window, right-hand door with gap opener arrangement

ROPS roll over protection per DIN/ISO 3471/SAE 1040C

FOPS falling objects protection per DIN/ISO 3449/SAE J 231

Adjustable steering column available as optional extra

Operator's seat \_\_\_\_\_ 6 way adjustable seat with seat belt, adjustable for operator's weight

Cab heating and ventilation \_\_\_\_\_ With defrosting, fresh-air filter, recirculation-air mode and hot-water heating



## Noise Emission

ISO 6396 \_\_\_\_\_ L<sub>BA</sub> (inside cab) = 70 dB(A)

2000/14/EC \_\_\_\_\_ L<sub>WA</sub> (surround noise) = 99 dB(A)

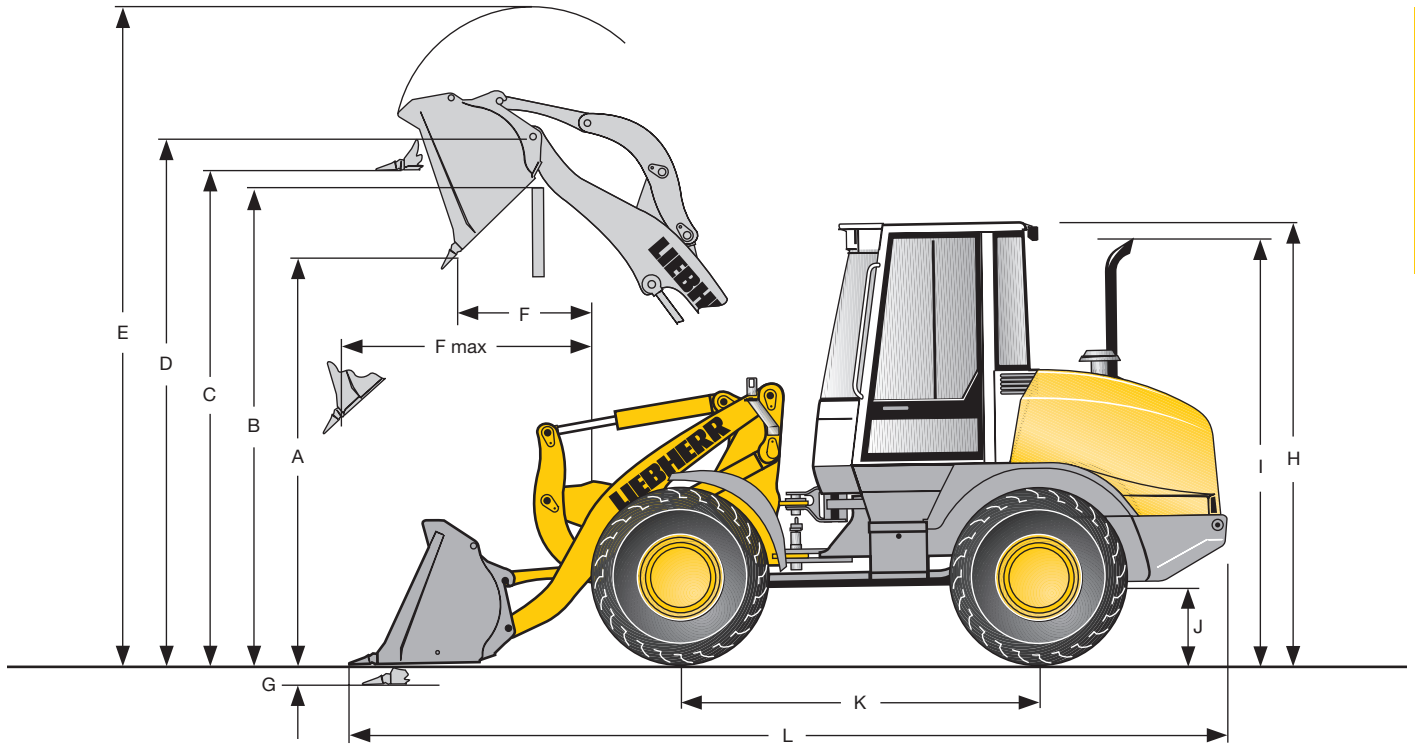


## Capacities

	L 506	L 507	L 508	L 509	L 510
Fuel tank _____ l	80	80	80	80	80
Engine oil (including filter change) _____ l	7.0	7.0	7.0	10.5	10.5
Coolant _____ l	15	15	15	13	13
Front axle _____ l	6.1	6.1	6.1	9.2	9.2
Rear axle _____ l	5.5	5.5	5.5	8.0	8.0
Travel gear _____ l	0.6	0.6	0.6	0.8	0.8
Hydraulic tank _____ l	65	65	65	75	75
Hydraulic system total _____ l	190	90	90	100	100

# Dimensions

L 506 - L 510



## Loading Bucket

		L 506	L 507	L 508	L 509	L 510	
	Bucket capacity according to ISO 7546**	m <sup>3</sup>	0.8	0.9	1.0	1.1	1.2
	Bucket width	mm	1,900	2,050	2,100	2,200	2,330
	Specific material weight	t/m <sup>3</sup>	1.8	1.8	1.8	1.8	1.8
A	Dumping height at max. lift height and 42° discharge	mm	2,550	2,550	2,555	2,641	2,676
B	Dump-over height	mm	2,872	2,872	2,896	3,000	3,035
C	Max. height of bucket bottom	mm	3,011	3,011	3,035	3,139	3,174
D	Max. height of bucket pivot point	mm	3,211	3,211	3,235	3,339	3,374
E	Max. operating height	mm	4,040	4,040	4,115	4,235	4,270
F	Reach at max. lift height and 42° discharge	mm	818	818	817	909	874
F max.	Max. outreach at 42° discharge	mm	1,517	1,517	1,515	1,640	1,605
G	Digging depth	mm	80	80	56	95	60
H	Height above cab	mm	2,748	2,748	2,780	2,780	2,805
I	Height above exhaust	mm	2,600	2,600	2,624	2,625	2,660
J	Ground clearance	mm	295	295	319	335	370
K	Wheelbase	mm	2,150	2,150	2,150	2,300	2,300
L	Overall length	mm	5,295	5,295	5,371	5,760	5,760
	Turning circle radius over outside bucket edge	mm	3,690	3,755	3,820	4,150	4,190
	Lifting force (SAE)	kN	39	44	48	54	60
	Breakout force (SAE)	kN	43	48	49	55	62
	Tipping load, straight*	kg	3,540	3,836	4,190	4,645	5,036
	Tipping load, articulated*	kg	3,231	3,501	3,824	4,225	4,581
	Operating weight*	kg	5,120	5,240	5,480	6,080	6,250
	Tyre sizes		365/70R18 L2	365/70R18 L2	405/70R18 L2	405/70R18 L2	405/70R20 L2

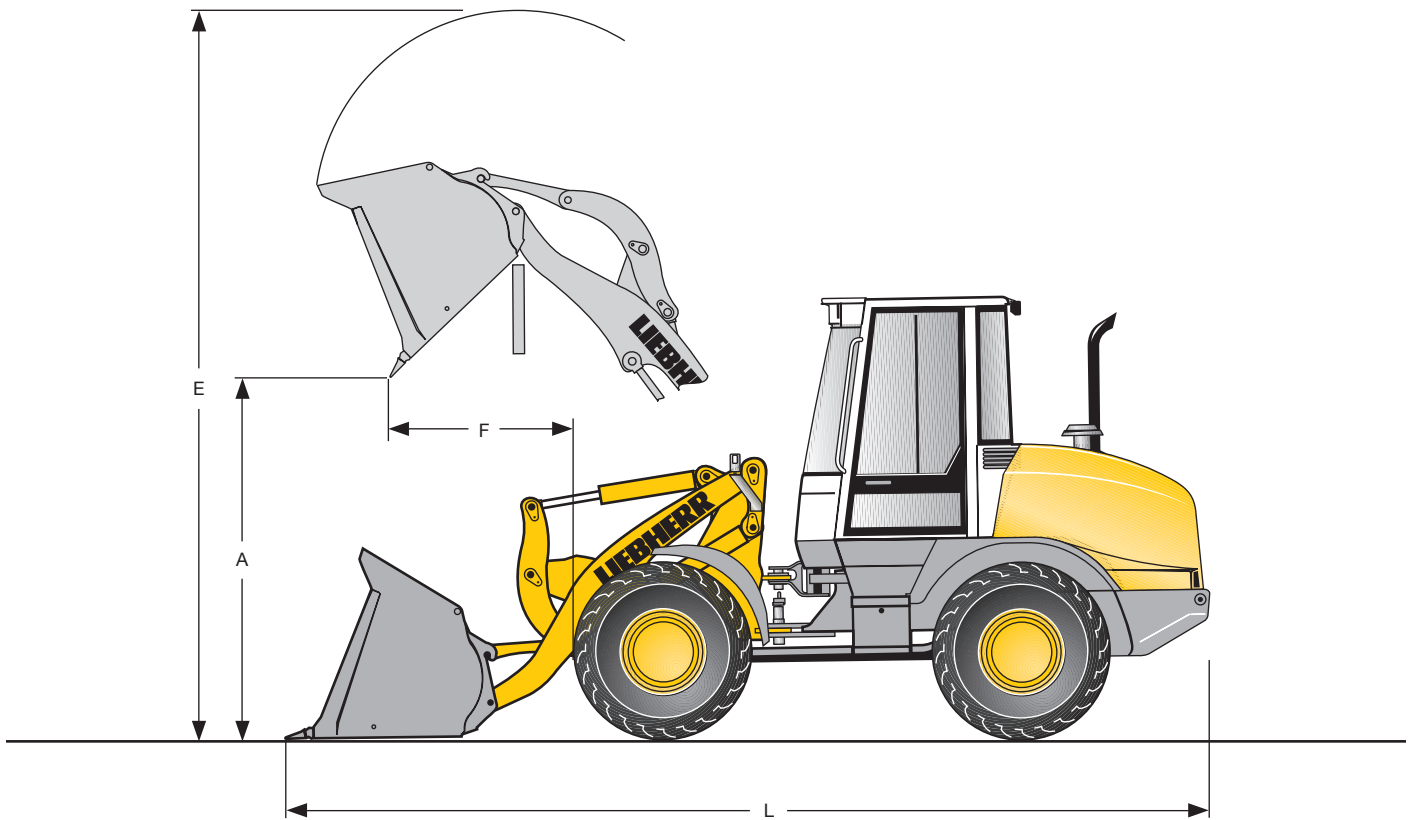
\* The figures shown here are valid with tyres above, includes all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tyres and optional equipment will change the operating weight and tipping load.

\*\* 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 21.

# Attachment

## Light Material Bucket

L 506 - L 510



### Light Material Bucket with Bolt-On Cutting Edge

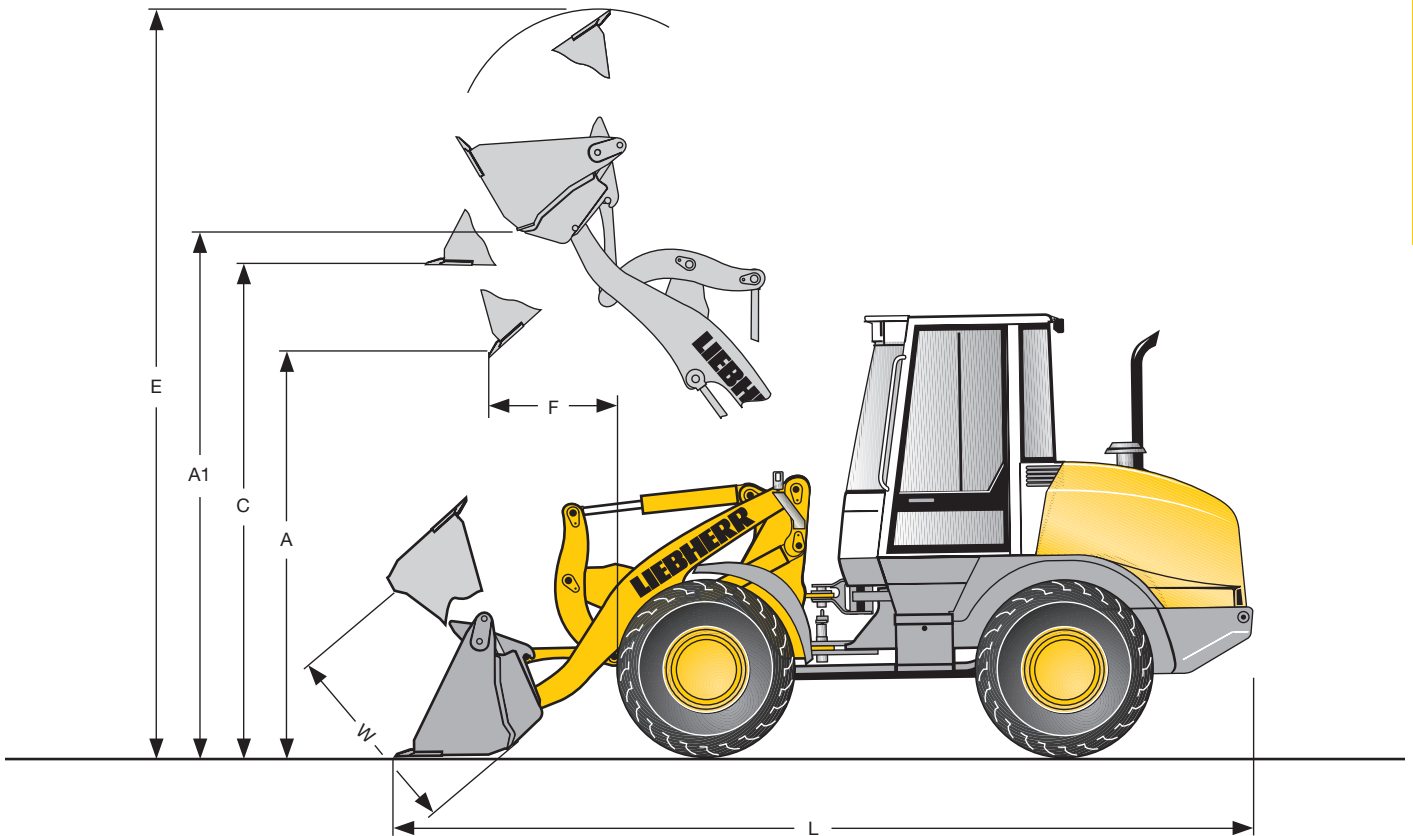
		L 506		L 507		L 508		L 509		L 510		
	Bucket capacity	m <sup>3</sup>	1.1	1.6	1.2	1.6	1.2	1.6	1.6	2.0	1.6	2.0
	Bucket width	mm	2,200	2,400	2,330	2,400	2,330	2,400	2,400	2,400	2,400	2,400
	Specific material weight	t/m <sup>3</sup>	1.3	0.9	1.4	1.0	1.5	1.1	1.3	1.0	1.4	1.1
A	Dumping height at max. lift height and max. discharge	mm	2,511	2,420	2,511	2,420	2,535	2,444	2,551	2,460	2,586	2,495
E	Max. operating height	mm	4,123	4,196	4,123	4,196	4,147	4,220	4,325	4,474	4,360	4,511
F	Reach at maximum lift height and max. discharge	mm	866	890	866	890	842	866	937	1,048	902	1,013
L	Overall length	mm	5,355	5,410	5,355	5,410	5,355	5,410	5,742	5,882	5,742	5,882
	Tipping load, straight*	kg	3,437	3,329	3,818	3,702	4,145	4,026	4,532	4,470	4,911	4,846
	Tipping load, articulated*	kg	3,137	3,039	3,485	3,379	3,783	3,675	4,123	4,067	4,468	4,408
	Operating weight*	kg	5,221	5,311	5,341	5,417	5,546	5,622	6,170	6,186	6,356	6,372
	Tyre sizes		365/70R18 L2		365/70R18 L2		405/70R18 L2		405/70R18 L2		405/70R20 L2	

\* The figures shown here are valid with tyres above, includes 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.

# Attachment

## 4 in 1 Bucket

L 506 - L 510



### 4 in 1 Bucket

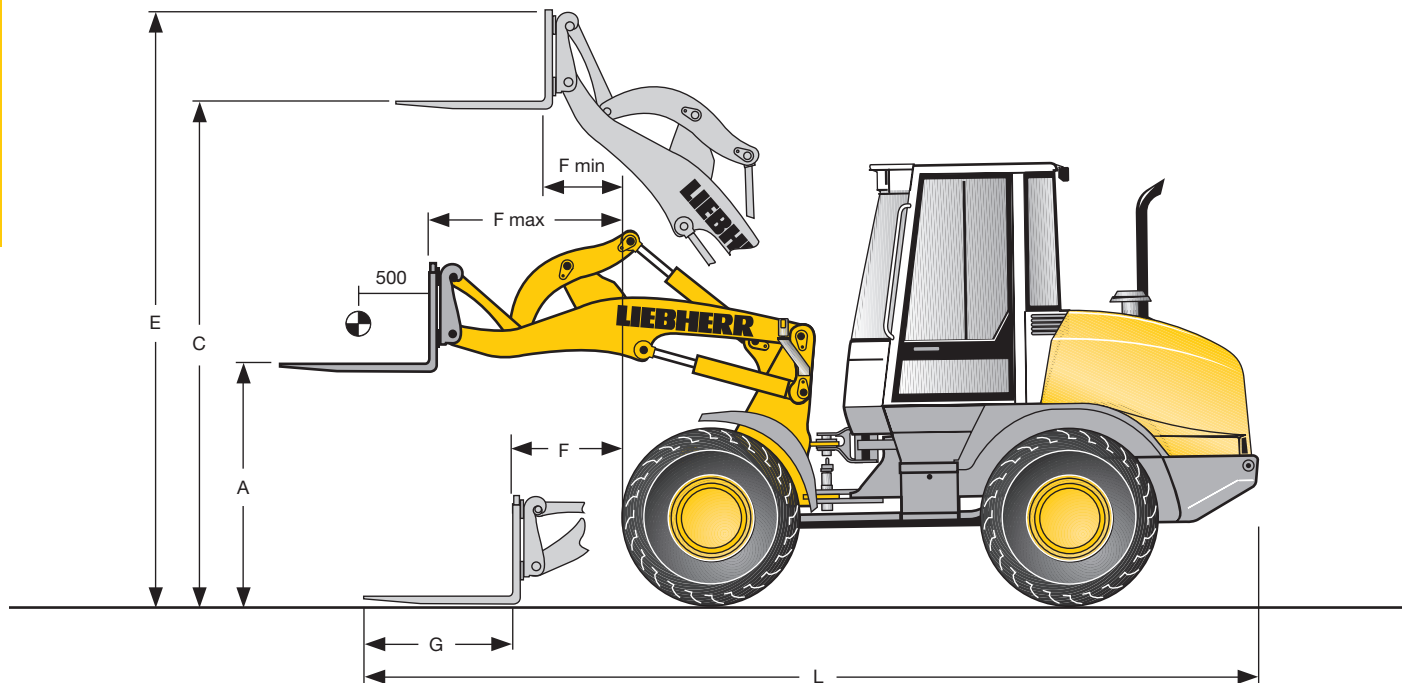
		L 506	L 507	L 508	L 509	L 510
Bucket capacity	m <sup>3</sup>	0.7	0.8	0.9	1.0	1.1
Bucket width	mm	2,100	2,100	2,100	2,330	2,330
Specific material weight	t/m <sup>3</sup>	1.8	1.8	1.8	1.8	1.8
A	Dumping height at max. lift height and 42° discharge	2,577	2,532	2,556	2,634	2,669
A1	Max. dumping height with opened bucket	3,203	3,203	3,227	3,356	3,391
C	Max. height of bucket bottom	2,946	2,946	2,970	3,074	3,109
E	Max. operating height	4,215	4,714	4,738	4,895	4,930
F	Reach at max. lift height and 42° discharge	824	890	866	965	930
L	Overall length	5,310	5,390	5,390	5,835	5,835
W	Max. bucket opening	1,008	1,008	1,008	1,008	1,008
	Turning circle radius over outside bucket edge	3,870	3,907	3,907	4,280	4,280
	Tipping load, straight*	3,145	3,427	3,735	4,227	4,593
	Tipping load, articulated*	2,871	3,128	3,409	3,846	4,178
	Operating weight*	5,373	5,499	5,705	6,307	6,493
	Tyre sizes	365/70R18 L2 365/70R18 L2 405/70R18 L2 405/70R18 L2 405/70R20 L2				

\* The figures shown here are valid with tyres above, includes 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.

# Attachment

## Fork Carrier and Fork

L 506 - L 510



### FEM II Fork Carrier and Fork with Quick Change Device

			L 506	L 507	L 508	L 509	L 510
A	Lifting height at max. reach	mm	1,452	1,452	1,476	1,515	1,550
C	Max. lifting height	mm	3,039	3,039	3,063	3,165	3,200
E	Max. operating height	mm	3,714	3,714	3,738	3,840	3,875
F	Reach at loading position	mm	741	741	693	775	740
F max.	Max. reach	mm	1,258	1,258	1,210	1,335	1,300
F min.	Reach at max. lifting height	mm	550	550	502	595	560
G	Fork length	mm	1,200	1,200	1,200	1,200	1,200
L	Length - basic machine	mm	5,805	5,805	5,805	6,139	6,139
	Tipping load, straight*	kg	2,629	2,905	3,145	3,573	3,858
	Tipping load, articulated*	kg	2,400	2,652	2,870	3,250	3,509
	Recommended payload for uneven ground = 60 % of tipping load (full articulated)***	kg	1,440	1,591	1,722	1,950	2,106
	Recommended payload for smooth surfaces = 80 % of tipping load (full articulated)***	kg	1,920	2,121	2,296	2,500**	2,500**
	Operating weight*	kg	5,074	5,170	5,375	5,923	6,109
	Tyre sizes		365/70R18 L2 365/70R18 L2 405/70R18 L2 405/70R18 L2 405/70R20 L2				

\* The figures shown here are valid with tyres above, includes 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.

\*\* Load capacity for the fork carrier and forks is limited to 2,500 kg

\*\*\* According to EN 474-3 and ISO 14397



# Technical Data



## Engine

Diesel engine	4045 HF 288	
Design	4-cylinder, inline engine, water-cooled, turbo charged, intercooled	
Power output according to ISO 9249	72 kW (98 HP)	at 2,400 RPM
Max. torque	395 Nm	at 1,400 RPM
Displacement	4.5 litres	
Bore/Stroke	106/127 mm	
Air cleaner	Dry air filter with main and safety element	
Electrical system		
Operating voltage	12 V	
Battery	2 x 100 Ah/12 V	
Alternator	12 V/65 A	
Starter motor	4.8 kW	

The exhaust emissions are below the limits in stage IIIA/Tier 3.



## Travel Gear

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 speeds	Speed range 1	– 8.0 km/h
	Speed range 2	– 30.0 km/h
	Forward and reverse with tyre size 17.5R25	



## Axles

Four-wheel drive		
Front axle	Fixed	
Steered rear axle	Centre pivot, with 5° oscillating angle to each side	
Differentials	Automatic limited-slip differentials with 45% locking action in both axles	
Final drive	Planetary final drive in the wheel hubs	
Track width	1,920 mm	



## Brakes

Service brake	Dual-circuit brake system, drum brake and wet multi-disc brake on front axle
Parking brake	“Negative brake system” on front axle acting on the wet multi-disc brakes

The braking system meets the requirements of the EC guidelines 71/320.



## Steering

Design	“Stereo” steering system, hydraulic servo power steering. Central oscillating frame articulation in combination with rear-axle pivot steering, and damper element
Angle of articulation	30° to each side
Angle of oscillation – Centre-pivot steering	5° to each side
Max. pressure	180 bar



## Attachment Hydraulics

Design	Gear pump
Max. flow	115 l/min.
Max. pressure	230 bar
Cooling	Hydraulic oil cooling by thermostatically controlled fan and oil cooler
Filtering	Return-line filter in the hydraulic reservoir
Control	“Liebherr-Joystick” with hydraulic servo control
Lift circuit	Lifting, neutral, lowering and float positions controlled by Liebherr joystick with detent; automatic lifting-limit circuit
Tilt circuit	Tilt back, neutral, dump automatic bucket positioning



## Attachment

Geometry can be chosen	Powerful Z-pattern linkage with one tilt cylinder, hydr. quick change coupler – optional equipment Parallel linkage with two tilt cylinders, hydr. quick change coupler – standard equipment
Bearings	Sealed



## Operator's Cab

Design	The cab is resiliently mounted on the rear section, with built in ROPS/FOPS structure, tinted safety glass window, right-hand door with gap opener arrangement. Adjustable steering column available as optional extra ROPS roll over protection per DIN/ISO 3471/EN 474-3 FOPS falling objects protection per DIN/ISO 3449/EN 474-1
Operator's seat	6 way adjustable seat with seat belt, adjustable for operator's weight
Cab heating and ventilation	With defrosting, fresh-air filter, airrecirculated-air mode and heater supplied from engine's cooling system. Air conditioning is optional equipment



## Noise Emission

ISO 6396	$L_{pA}$ (inside cab)	= 70 dB(A)
2000/14/EC	$L_{WA}$ (surround noise)	= 100 dB(A)

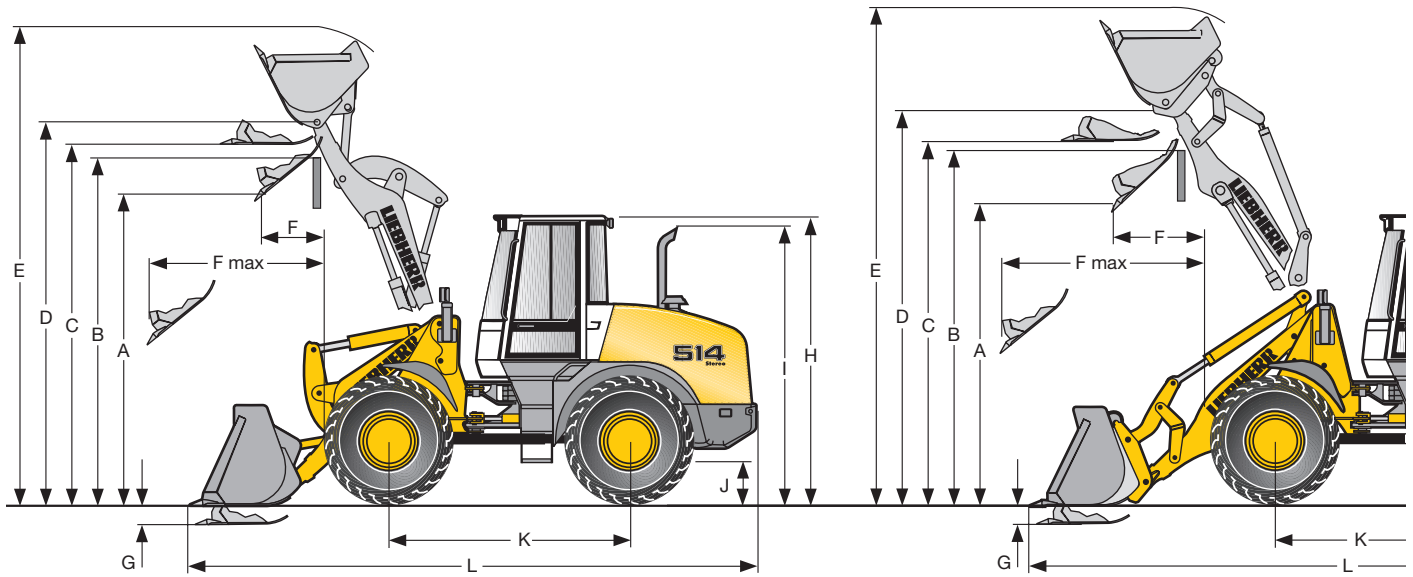


## Capacities

Fuel tank	160 l
Engine oil (including filter change)	13 l
Travel gear and rear axle differential	9.9 l
Front axle/differential	8.9 l
Rear axle/differential	8.7 l
Hydraulic tank	85 l
Hydraulic system total	118 l

# Dimensions

L 514



## Loading Bucket

		ZK	ZK	ZK	PK	
	Geometry	ZK	ZK	ZK	PK	
	Cutting tools	T	T	T	T	
	Bucket capacity according to ISO 7546**	1.5	1.7	1.5	1.4	
	Bucket width	mm/kg	2,400/620	2,400/655	2,400/570	2,400/590
	Specific material weight/bucket weight	t/m <sup>3</sup>	1.8	1.6	1.7	1.8
A	Dumping height at max. lift height and 44° discharge	mm	2,855	2,710	2,775	2,985
B	Dump-over height	mm	3,260	3,260	3,260	3,430
C	Max. height of bucket bottom	mm	3,440	3,440	3,440	3,610
D	Max. height of bucket pivot point	mm	3,675	3,675	3,675	3,860
E	Max. operating height	mm	4,550	4,725	4,680	4,840
F	Reach at max. lift height and 44° max. discharge	mm	830	955	915	785
F max.	Max. outreach at 44° discharge	mm	1,500	1,560	1,608	1,703
G	Digging depth	mm	53	53	53	35
H	Height above cab	mm	3,070	3,070	3,070	3,070
I	Height above exhaust	mm	2,890	2,890	2,890	2,890
J	Ground clearance	mm	385	385	385	385
K	Wheelbase	mm	2,600	2,600	2,600	2,600
L	Overall length	mm	6,135	6,340	6,395	6,330
	Turning circle radius over outside bucket edge (carry position)	mm	4,510	4,610	4,565	4,610
	Lifting force (SAE)	kN	88	83	83	83
	Breakout force (SAE)	kN	77	72	72	77
	Tipping load, straight*	kg	6,200	6,100	5,745	5,385
	Tipping load, articulated at 30°*	kg	5,680	5,590	5,260	4,920
	Operating weight*	kg	8,350	8,390	8,510	8,520
	Tyre sizes		17.5R25 L3	17.5R25 L3	17.5R25 L3	17.5R25 L3

\* The figures shown here are valid with tyres above, includes 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.

\*\* 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 21.

ZK = Z-bar linkage

PK = Parallel linkage with quick coupler

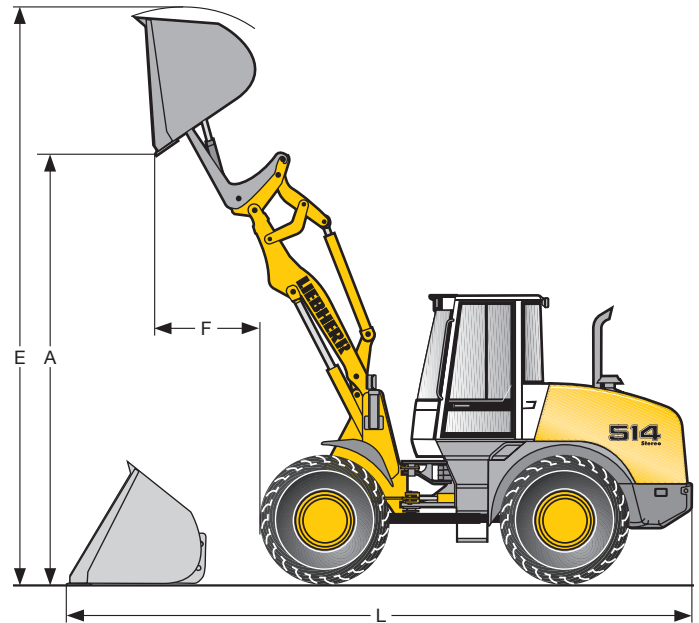
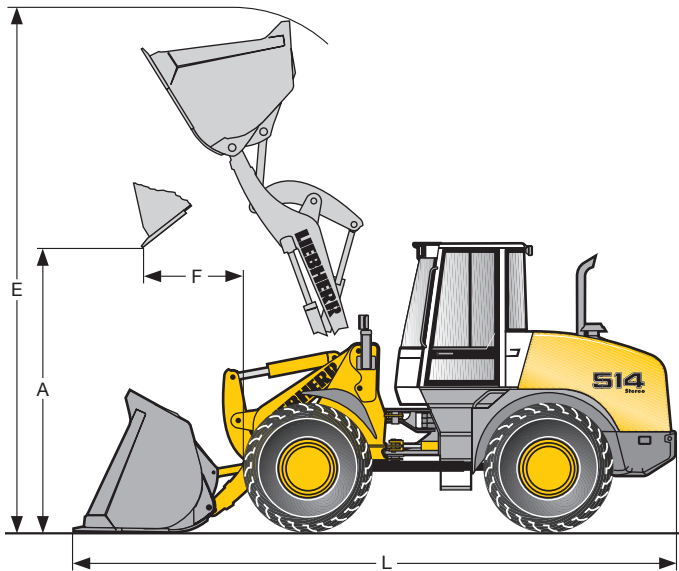
T = Welded-on tooth holder with add-on teeth

Notice: Quick hitch compatibility between L 514Stereo up to L 524 – L 538.

# Attachment

## Light Material Bucket

## High-Dump Bucket



L 514

### Light Material Bucket with Bolt-On Cutting Edge



Geometry		ZK	PK
Bucket capacity	m <sup>3</sup>	2.0	2.0
Bucket width	mm	2,500	2,500
Specific material weight	t/m <sup>3</sup>	1.3	1.1
A Dumping height at max. lift height	mm	2,757	2,870
E Max. operating height	mm	4,845	5,075
F Reach at maximum lift height	mm	930	940
L Overall length	mm	6,290	6,535
Tipping load, straight*	kg	5,600	5,155
Tipping load, articulated*	kg	5,450	4,720
Operating weight*	kg	8,500	8,683
Tyre sizes		17.5R25 L3	17.5R25 L3

### High-Dump Bucket with Bolt-On Cutting Edge



Geometry		ZK	ZK	PK	PK
Discharge angle		26° <sup>1)</sup>	40° <sup>2)</sup>	26° <sup>1)</sup>	40° <sup>2)</sup>
Bucket capacity	m <sup>3</sup>	2.5	2.5	2.5	2.5
Bucket width	mm	2,490	2,490	2,490	2,490
Specific material weight	t/m <sup>3</sup>	0.9	0.9	0.8	0.8
A Dumping height at max. lift height	mm	4,470	4,140	4,575	4,285
E Max. operating height	mm	6,035	5,850	6,160	5,945
F Reach at maximum lift height	mm	1,230	1,400	1,235	1,385
L Overall length	mm	6,685	6,685	6,840	6,840
Tipping load, straight*	kg	4,790	4,790	4,250	4,250
Tipping load, articulated*	kg	4,380	4,380	3,890	3,890
Operating weight*	kg	9,490	9,490	9,490	9,490
Tyre sizes		17.5R25 L3	17.5R25 L3	17.5R25 L3	17.5R25 L3

\* The figures shown here are valid with tyres above, includes 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.

ZK = Z-bar linkage

PK = Parallel linkage with quick coupler

1) Actuation of the function: "Discharge high-tip bucket"

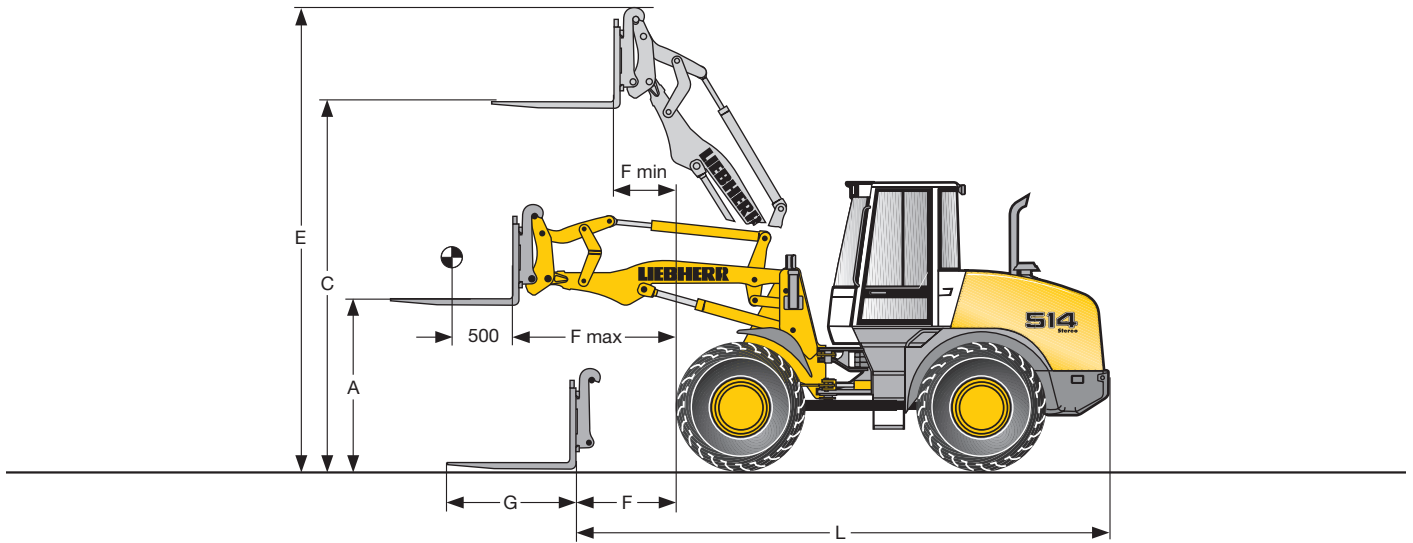
2) Discharge by way of the function "High-tip bucket" and standard tipping function

Notice: Quick hitch compatibility between L 514Stereo up to L 524 – L 538.

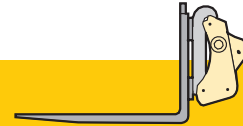
# Attachment

## Fork Carrier and Fork

L 514



### FEM III Fork Carrier and Fork with Quick Change Device



Geometry			ZK	PK
A	Lifting height at max. reach	mm	1,715	1,700
C	Max. lifting height	mm	3,497	3,655
E	Max. operating height	mm	4,420	4,580
F	Reach at loading position	mm	815	965
F max.	Max. reach	mm	1,500	1,615
F min.	Reach at max. lifting height	mm	678	605
G	Fork length	mm	1,200	1,200
L	Length – basic machine	mm	5,570	5,720
	Tipping load, straight*	kg	4,400	4,230
	Tipping load, articulated*	kg	4,030	3,870
	Recommended payload for uneven ground = 60 % of tipping load (full articulated) ***	kg	2,410	2,320
	Recommended payload for smooth surfaces = 80 % of tipping load (full articulated) ***	kg	2,840	3,095
	Operating weight*	kg	8,370	8,365
	Tyre sizes		17.5R25 L3	17.5R25 L3

\* The figures shown here are valid with tyres above, includes 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.

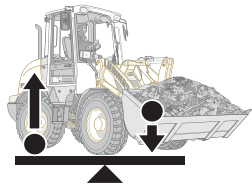
\*\*\* According to EN 474-3 and ISO 14397

ZK = Z-bar linkage with quick coupler

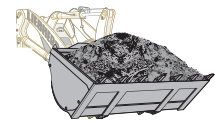
PK = Parallel linkage with quick coupler

Notice: Quick hitch compatibility between L 514Stereo up to L 524 – L 538.

# Tipping Load



ISO 7546



## 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	Clay, natural	1.6	110	Granite	1.8	95
dry	1.6	105	dry	1.4	110	Limestone,		
wet, 6 – 50 mm	2.0	105	wet	1.65	105	hard	1.65	95
dry, 6 – 50 mm	1.7	105	Clay and gravel,			soft	1.55	100
crushed stone	1.5	100	dry	1.4	110	Sandstone	1.6	100
Sand, dry	1.5	110	wet	1.6	100	Slate	1.75	100
moist	1.8	115	Earth, dry	1.3	115	Bauxite	1.4	100
wet	1.9	110	wet excavated	1.6	110	Gypsum, broken	1.8	100
Gravel and sand,			Topsoil	1.1	110	Coke	0.5	110
dry	1.7	105	Weathered rock			Slag, broken	1.8	100
wet	2.0	100	50 % rock, 50 % earth	1.7	100	Coal	1.1	110
Sand and clay	1.6	110	Basalt	1.95	100			

# The Liebherr Wheel Loaders

## Stereoloader



		L 506 <sup>Stereo</sup>	L 507 <sup>Stereo</sup>	L 508 <sup>Stereo</sup>	L 509 <sup>Stereo</sup>	L 510 <sup>Stereo</sup>	L 514 <sup>Stereo</sup>
Tipping load	kg	3,231	3,501	3,824	4,225	4,581	5,680
Bucket capacity	m <sup>3</sup>	0.8	0.9	1.0	1.1	1.2	1.5
Operating weight	kg	5,120	5,240	5,480	6,080	6,250	8,350
Engine output	kW/HP	46/63	48/65	48/65	60/82	60/82	72/98

## Wheel Loader



		L 524 <sup>2plus1</sup>	L 528 <sup>2plus1</sup>	L 538 <sup>2plus1</sup>	L 542 <sup>2plus1</sup>	L 550 <sup>2plus2</sup>
Tipping load	kg	7,300	8,100	9,020	9,760	11,650
Bucket capacity	m <sup>3</sup>	2.0	2.2	2.5	2.7	3.2
Operating weight	kg	10,600	11,100	12,755	13,320	16,525
Engine output	kW/HP	86/117	86/117	105/143	105/143	129/175

## Wheel Loader



		L 556 <sup>2plus2</sup>	L 566 <sup>2plus2</sup>	L 576 <sup>2plus2</sup>	L 580 <sup>2plus2</sup>	L 586 <sup>2plus2</sup>
Tipping load	kg	13,140	15,550	17,200	18,000	20,430
Bucket capacity	m <sup>3</sup>	3.6	4.0	4.5	5.0	5.5
Operating weight	kg	17,270	22,500	24,260	24,580	31,380
Engine output	kW/HP	140/191	190/259	200/272	200/272	250/340

07.10

# Tyres



Size and tread code		Change of operating weight kg	Width over tyres mm	Change in vertical dimensions mm	Use
<b>L 506<sup>Stereo</sup></b>					
Bridgestone	365/80R20 VUT	L2 + 77	1,850	+ 45	Gravel, Asphalt
	405/70R20 VUT	L2 + 125	1,880	+ 47	Sand, Gravel, Asphalt
Dunlop	365/70R18 SPT9	L2 0	1,850	0	Gravel, Asphalt
	405/70R18 SPT9	L2 + 43	1,880	+ 23	Sand, Gravel, Asphalt
	405/70R20 SPT9	L2 + 94	1,880	+ 49	Sand, Gravel, Asphalt
	405/70R20 PG75	L5 + 240	1,880	+ 57	Industry
Firestone	340/80R18 Duraforce UT	L3 + 36	1,840	+ 14	Gravel, Asphalt, Industry
	405/70R18 Duraforce UT	L3 + 104	1,880	+ 22	Gravel, Asphalt, Industry
	365/80R20 Duraforce UT	L3 + 92	1,850	+ 52	Gravel, Asphalt, Industry
	400/70R20 Duraforce UT	L3 + 128	1,880	+ 42	Gravel, Asphalt, Industry
Goodyear	400/70R18 IT 520	L2 + 59	1,880	+ 15	Earthworks, Green area
Michelin	375/75R20 XZSL	L3 + 115	1,875	+ 43	Gravel, Asphalt, Industry
	400/70R20 XMCL	L2 + 120	1,890	+ 43	Earthworks, Green area
	405/70R20 XZSL	L3 + 150	1,880	+ 49	Gravel, Asphalt, Industry
<b>L 507<sup>Stereo</sup></b>					
Bridgestone	365/80R20 VUT	L2 + 77	1,850	+ 45	Gravel, Asphalt
	405/70R20 VUT	L2 + 125	1,880	+ 47	Sand, Gravel, Asphalt
Dunlop	365/70R18 SPT9	L2 0	1,850	0	Gravel, Asphalt
	405/70R18 SPT9	L2 + 43	1,880	+ 23	Sand, Gravel, Asphalt
	405/70R20 SPT9	L2 + 94	1,880	+ 49	Sand, Gravel, Asphalt
	405/70R20 PG75	L5 + 240	1,880	+ 57	Industry
Firestone	340/80R18 Duraforce UT	L3 + 36	1,840	+ 14	Gravel, Asphalt, Industry
	405/70R18 Duraforce UT	L3 + 104	1,880	+ 22	Gravel, Asphalt, Industry
	365/80R20 Duraforce UT	L3 + 92	1,850	+ 52	Gravel, Asphalt, Industry
	400/70R20 Duraforce UT	L3 + 128	1,880	+ 42	Gravel, Asphalt, Industry
Goodyear	400/70R18 IT 520	L2 + 59	1,880	+ 15	Earthworks, Green area
Michelin	375/75R20 XZSL	L3 + 115	1,875	+ 43	Gravel, Asphalt, Industry
	400/70R20 XMCL	L2 + 120	1,890	+ 43	Earthworks, Green area
	405/70R20 XZSL	L3 + 150	1,880	+ 49	Gravel, Asphalt, Industry
<b>L 508<sup>Stereo</sup></b>					
Bridgestone	405/70R20 VUT	L2 + 83	1,880	+ 24	Sand, Gravel, Asphalt
Dunlop	405/70R18 SPT9	L2 0	1,880	0	Sand, Gravel, Asphalt
	405/70R20 SPT9	L2 + 52	1,880	+ 26	Sand, Gravel, Asphalt
Firestone	340/80R18 Duraforce UT	L3 - 4	1,840	- 6	Gravel, Asphalt, Industry
	405/70R18 Duraforce UT	L3 + 52	1,880	0	Gravel, Asphalt, Industry
	365/80R20 Duraforce UT	L3 + 40	1,850	+ 29	Gravel, Asphalt, Industry
	400/70R20 Duraforce UT	L3 + 76	1,880	+ 19	Gravel, Asphalt, Industry
Goodyear	400/70R18 IT 520	L2 + 16	1,880	- 10	Earthworks, Green area
Michelin	400/70R20 XMCL	L2 + 17	1,890	+ 20	Earthworks, Green area
	405/70R20 XZSL	L3 + 107	1,880	+ 26	Gravel, Asphalt, Industry
<b>L 509<sup>Stereo</sup></b>					
Bridgestone	405/70R20 VUT	L2 + 83	2,070	+ 24	Sand, Gravel, Asphalt
Dunlop	405/70R18 SPT9	L2 0	2,080	0	Sand, Gravel, Asphalt
	405/70R20 SPT9	L2 + 52	2,080	+ 26	Sand, Gravel, Asphalt
	455/70R20 SPT9	L2 + 126	2,120	+ 55	Sand, Gravel, Asphalt
	405/70R20 PG75	L5 + 188	2,080	+ 34	Industry
Firestone	405/70R18 Duraforce UT	L3 + 52	2,070	0	Gravel, Asphalt, Industry
	365/80R20 Duraforce UT	L3 + 40	2,030	+ 29	Gravel, Asphalt, Industry
	400/70R20 Duraforce UT	L3 + 76	2,070	+ 19	Gravel, Asphalt, Industry
Goodyear	400/70R18 IT 520	L2 + 16	2,080	- 10	Earthworks, Green area
Michelin	400/70R20 XMCL	L2 + 17	2,070	+ 20	Earthworks, Green area
	405/70R20 XZSL	L3 + 107	2,070	+ 26	Gravel, Asphalt, Industry
	425/75R20 XZSL	L3 + 119	2,110	+ 61	Gravel, Asphalt, Industry
<b>L 510<sup>Stereo</sup></b>					
Bridgestone	405/70R20 VUT	L2 + 31	2,070	+ 2	Sand, Gravel, Asphalt
Dunlop	405/70R18 SPT9	L2 - 52	2,080	- 26	Sand, Gravel, Asphalt
	405/70R20 SPT9	L2 0	2,080	0	Sand, Gravel, Asphalt
	455/70R20 SPT9	L2 + 74	2,120	+ 29	Sand, Gravel, Asphalt
	405/70R20 PG75	L5 + 134	2,080	+ 8	Industry
Firestone	405/70R18 Duraforce UT	L3 0	2,070	- 27	Gravel, Asphalt, Industry
	365/80R20 Duraforce UT	L3 - 12	2,030	+ 3	Gravel, Asphalt, Industry
	400/70R20 Duraforce UT	L3 + 24	2,070	- 7	Gravel, Asphalt, Industry
Goodyear	400/70R18 IT 520	L2 - 36	2,080	- 35	Earthworks, Green area
Michelin	400/70R20 XMCL	L2 + 4	2,070	+ 6	Earthworks, Green area
	405/70R20 XZSL	L3 + 56	2,070	0	Gravel, Asphalt, Industry
	425/75R20 XZSL	L3 + 67	2,110	+ 35	Gravel, Asphalt, Industry
<b>L 514<sup>Stereo</sup></b>					
Bridgestone	17.5R25 VMT	L3 + 84	2,370	+ 18	Gravel
	17.5R25 VJT	L3 + 88	2,450	+ 21	Gravel
	17.5R25 VSDL	L5 + 576	2,370	+ 57	Industry, Scrap
Goodyear	17.5R25 RT-3B	L3 + 168	2,370	+ 21	Sand, Gravel
	17.5R25 RL-5K	L5 + 704	2,370	+ 42	Industry, Scrap
Michelin	17.5R25 XHA	L3 0	2,370	0	Gravel
	17.5R25 XLD D2A	L5 + 352	2,370	+ 37	Industry, Scrap
	17.5R25 X-MINE D2	L5 + 540	2,380	+ 54	Industry, Scrap

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

# Equipment



## Basic Machine

	506	507	508	509	510	514
Automatic central lubrication system	•	•	•	•	•	•
Battery master switch	•	•	•	•	•	•
Bio degradable hydraulic oil	-	-	-	•	•	•
Tool kit	•	•	•	•	•	•
Fuel particle filter	•	•	•	•	•	•
Electronical theft protection	•	•	•	•	•	•
Automatic travel mode	•	•	•	•	•	•
Headlights	•	•	•	•	•	•
Ride control	•	•	•	•	•	•
Particle protection for radiator	•	•	•	•	•	•
Pre-heat system for cold starting	•	•	•	•	•	•
Combined inching-braking system	•	•	•	•	•	•
Multi-disc limited slip differentials in both axles	•	•	•	•	•	•
LiDAT Standard (Liebherr Data Transfer System)	•	•	•	•	•	•
Liebherr travel gear	•	•	•	•	•	•
Liebherr shock absorbing element	•	•	•	•	•	•
Air cleaner system with pre-filter	•	•	•	•	•	•
Emergency steering system	•	•	•	•	•	•
Warning device for travel in reverse	•	•	•	•	•	•
Amber beacon	•	•	•	•	•	•
Protective ventilation system	•	•	•	•	•	•
30 km/h Maximum speed – <b>Speeder</b> -version only	-	•	-	•	-	•
Dust filter system	•	•	•	•	•	•
Lockable doors, service flap an engine hood	•	•	•	•	•	•
Towing hitch	•	•	•	•	•	•
Additional toolbox in access step area	•	•	•	•	•	•
Working area lights at rear	•	•	•	•	•	•
Working area lights at front	•	•	•	•	•	•
Tail lights	•	•	•	•	•	•
20 km/h speed limiting – <b>Speeder</b> -version only	-	•	-	•	-	•



## Operator's Cab

	506	507	508	509	510	514
Storage compartment	•	•	•	•	•	•
Storage box	•	•	•	•	•	•
Ashtray	•	•	•	•	•	•
Tool kit	•	•	•	•	•	•
Operator's package	•	•	•	•	•	•
Operator's seat – adjustable in 6 ways	•	•	•	•	•	•
Operator's seat – air sprung with seat belt	•	•	•	•	•	•
Operator's seat – air sprung with seat heating	•	•	•	•	•	•
Bottle holder	•	•	•	•	•	•
Horn	•	•	•	•	•	•
Floor mat	•	•	•	•	•	•
Folding outside mirrors	•	•	•	•	•	•
Clothes hook	•	•	•	•	•	•
Air conditioning system	•	•	•	•	•	•
Emergency exit	•	•	•	•	•	•
Radio set	•	•	•	•	•	•
Provision for radio including loudspeaker	•	•	•	•	•	•
Interior rear-view mirror	•	•	•	•	•	•
Soundproof ROPS/FOPS cab	•	•	•	•	•	•
Wash/wipe system for windscreen and rear window	•	•	•	•	•	•
Sliding window	•	•	•	•	•	•
Sun visor	•	•	•	•	•	•
Plug	•	•	•	•	•	•
First aid kit	•	•	•	•	•	•
Adjustable steering column	•	•	•	•	•	•
Hot-water heater with defroster and recirculated-air system	•	•	•	•	•	•



## Instruments for:

	506	507	508	509	510	514
Timer for hours of operation	•	•	•	•	•	•
Flashing turn indicators	•	•	•	•	•	•
Diagnosis system – <b>Speeder</b> -version only	-	•	-	•	-	•
Rev. counter – <b>Speeder</b> -version only	-	•	-	•	-	•
Travel speed ranges and gear selected	•	•	•	•	•	•
High-beam headlights	•	•	•	•	•	•
Fuel reserve	•	•	•	•	•	•
Engine oil temperature	•	•	•	•	•	•
Engine oil temperature – <b>Speeder</b> -version only	-	•	-	•	-	•
Reverse travel	•	•	•	•	•	•
Speedometer – <b>Speeder</b> -version only	-	•	-	•	-	•
Clock – <b>Speeder</b> -version only	-	•	-	•	-	•
Diesel engine pre-heat	•	•	•	•	•	•
Forward travel	•	•	•	•	•	•



## Warning Lights for:

	506	507	508	509	510	514
Battery charge	•	•	•	•	•	•
Parking brake	•	•	•	•	•	•
Hydraulic oil temperature	•	•	•	•	•	•
Air cleaner blockage	•	•	•	•	•	•
Engine oil pressure	•	•	•	•	•	•
Engine overheat	•	•	•	•	•	•



## Audible Warnings for:

	506	507	508	509	510	514
Overheat of hydraulic fluid	•	•	•	•	•	•
Engine oil pressure	•	•	•	•	•	•
Engine overheat	•	•	•	•	•	•
Emergency steering system	•	•	•	•	•	•



## Function Keys for:

	506	507	508	509	510	514
Working lights rear	•	•	•	•	•	•
Working lights front	•	•	•	•	•	•
Speed range selection	•	•	•	•	•	•
Headlights	•	•	•	•	•	•
Ride control	•	•	•	•	•	•
Parking brake – <b>Speeder</b> -version only	-	•	-	•	-	•
Air conditioning	•	•	•	•	•	•
Mode switch – <b>Speeder</b> -version only	-	•	-	•	-	•
Amber beacon	•	•	•	•	•	•
Automatic bucket positioner	•	•	•	•	•	•
Wash/wipe system for rear window	•	•	•	•	•	•
Float position	•	•	•	•	•	•
Road travel	•	•	•	•	•	•
Hazard warning flashers	•	•	•	•	•	•



## Rotary Switches for:

	506	507	508	509	510	514
Blower	•	•	•	•	•	•
Heater	•	•	•	•	•	•



## Equipment

	506	507	508	509	510	514
Automatic hoist kick out – adjustable	•	•	•	•	•	•
Automatic bucket positioner – adjustable	•	•	•	•	•	•
Fork carrier and lift forks	•	•	•	•	•	•
High-dump bucket	•	•	•	•	•	•
Hydraulic quick-change device – Parallel linkage	-	-	-	-	-	-
Hydraulic quick-change device – Z-bar linkage	•	•	•	•	•	•
Hydraulic servo control of working hydraulics	•	•	•	•	•	•
Comfort control	•	•	•	•	•	•
Loading buckets with and without teeth, or bolt-on cutting edge	•	•	•	•	•	•
Country-specific versions	•	•	•	•	•	•
Light material bucket	•	•	•	•	•	•
Parallel linkage	-	-	-	-	-	-
Float position	•	•	•	•	•	•
Z-bar linkage	•	•	•	•	•	•
3rd hydraulic control circuit	•	•	•	•	•	•
3rd and 4th hydraulic control circuits	•	•	•	•	•	•

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

All illustrations and data may differ from standard equipment. Subject to change without notice.

# The Liebherr Group of Companies

## Wide Product Range

The Liebherr Group is one of the largest construction equipment manufacturers in the world. Liebherr's high-value products and services enjoy a high reputation in many other fields, too. The wide range includes domestic appliances, aerospace and transportation systems, machine tools and maritime cranes.

## Exceptional Customer Benefit

Every product line provides a complete range of models in many different versions. With both their technical excellence and acknowledged quality, Liebherr products offer a maximum of customer benefits in practical application.

## State-of-the-art Technology

To provide consistent, top quality products, Liebherr attaches great importance to each product area, its components and core technologies. Important modules and components are developed and manufactured in-house, for instance the entire drive and control technology for construction equipment.

## Worldwide and Independent

Hans Liebherr founded the Liebherr family company in 1949. Since that time, the enterprise has steadily grown to a group of more than 100 companies with over 32,000 employees located on all continents. The corporate headquarters of the Group is Liebherr-International AG in Bulle, Switzerland. The Liebherr family is the sole owner of the company.

[www.liebherr.com](http://www.liebherr.com)



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