Tipping load, articulated: 11,650 kg - 20,430 kg



LIEBHERR

L 550

Tipping load, articulated: 11,650 kg Bucket capacity: 3.2 m³ Operating weight: 16,525 kg Engine output: 129 kW

Bucket capacity: Operating weight:

L 556

Tipping load, articulated: 13,140 kg 3.6 m³ 17,270 kg 140 kW Engine output:

L 586

Engine output:

L 566

Bucket capacity:

Operating weight:

Tipping load, articulated: 20,430 kg Bucket capacity: 5.5 m³ 31,380 kg Operating weight: Engine output: 250 kW

Tipping load, articulated: 15,550 kg

4.0 m³

22,500 kg

190 kW

L 576

Tipping load, articulated: 17,200 kg Bucket capacity: 4.5 m³ Operating weight: 24,260 kg Engine output: 200 kW

L 580

Tipping load, articulated: 18,000 kg Bucket capacity: 5.0 m³ Operating weight: 24,580 kg Engine output: 200 kW



Economy

Compared to conventional transmission, the Liebherr driveline achieves a reduction in fuel consumption for wheel loaders of 25 % or more! Five litres less fuel per operating hour significantly reduce operating costs and environmental pollution.

Performance

The Liebherr driveline allows the Liebherr diesel engine to be mounted lengthways in the rear, with the output shaft facing backwards. Compared to conventionally driven wheel loaders, the operating weight is much lower, the tipping load is higher, and more material can be moved each operating hour.

Reliability

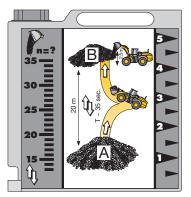
All the materials used in Liebherr wheel loaders have passed long-term tests to ensure that they match up to Liebherr's exacting standards even in the toughest conditions. The mature concept and proven quality make Liebherr wheel loaders to the benchmark for reliability.

Comfort

The ultra-modern cab design with advanced ergonomics, continuously variable Liebherr driveline for uninterrupted tractive force, standard Liebherr ride control, optimum weight distribution and easy service access thanks to unique engine installation position lead to extraordinary overall comfort.







Lower fuel consumption

- Up to 5 litres less consumption per operating hour, a fuel saving of up to 25 %.
- The Liebherr wheel loaders demonstrate their fuel economy in the Liebherr standard Normtest.





Economy

Compared to conventional transmission, the Liebherr driveline achieves a reduction in fuel consumption for wheel loaders of 25 % or more! Five litres less fuel per operating hour significantly reduce operating costs and environmental pollution.

Low operating costs

Minimum costs, High handling capacity Liebherr wheel loaders are unbeatable for economy compared to conventionally driven wheel loaders. This is due to the following factors:

- Low fuel consumption thanks to higher efficiency and low operating weight. Liebherr wheel loaders need up to 5 litres less fuel per operating hour at the same working conditions.
- More or less no brake wear thanks to the hydraulic braking action of the driveline. This means there is practically no brake wear and consequent repair costs.
- Reduced tyre wear thanks to continuous traction control. Depending on the working conditions, there is up to 25 % less wear.

Active environmental protection

Economical use of resources

The reduction in fuel lowers emissions, thus actively protecting resources:

1 litre of fuel produces up to 3 kg of carbon dioxide (CO_2) . By saving up to 5 litres per operating hour, up to 15,000 kg less CO_2 is produced in 1,000 operating hours – that means lower costs and active environmental protection.

Low noise emission

The innovative driveline concept means much lower noise emission – Liebherr wheel loaders are significantly quieter in operation.

Reduced brake wear

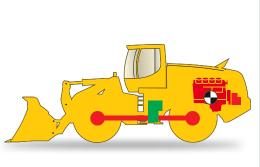
 Even under the toughest working conditions, the Liebherr travel drive always brakes hydraulically. The mechanical service brake only acts as a support and is therefore subject to hardly any wear.



Reduced tyre wear

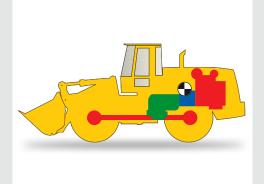
 The tractive force can be adjusted continuously. This stops wheel spins and reduced tyre wear by up to 25 %.





Liebherr driveline

- Optimum weight distribution thanks to lengthways-installed Liebherr diesel engine, output shaft is facing to the rear.
- The variable displacement pumps on the engine act as counterweight, thus allowing higher tipping loads at low operating weight.
- Compact design improves visibility in all directions





Performance

The Liebherr driveline allows the Liebherr diesel engine to be mounted lengthways in the rear, with the output shaft facing backwards. Compared to conventionally driven wheel loaders, the operating weight is much lower, the tipping load is higher, and more material can be moved each operating hour.

Higher performance, lower weight

Higher productivity

The combination of the Liebherr driveline and the unique position of the Liebherr diesel engine allows higher tipping loads at low operating weight. This leads to significantly higher productivity, because there is no need for unnecessary counterweight.

Ultra modern Liebherr driveline

Innovative technology

Tractive force and speed are automatically adjusted to the requirements of the operator without shifting. There is no need for a mechanical reverse gear because the travel direction is changed hydraulically.

Flexibility puts them ahead

An all-purpose loader

The Industrial lift arm is the ideal tool to complement the available equipment for the large Liebherr wheel loaders. Especially when operating with heavy equipment and loads, this "torque increase" is the perfect additional system for your requirements. Their compact design allows these wheel loaders to maneuver quickly and efficiently – an ideal basis for high handling capacity.

Conventional travel gear

- Longitudinally mounted diesel engine moves the centre of gravity further forward.
- Additional counterweight is needed to maintain stability and to increase the tipping load.
- This results in high operating weight and bad visibility.

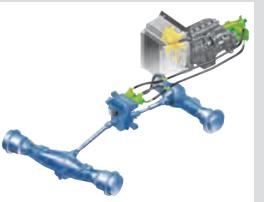


An all-purpose loader

 The choice between Industrial lift arm or Z pattern linkage means that the loader can always be configured for every job application

 Industrial lift arm for operations with heavy work arrangements;
 Z for conventional material handling.





Liebherr driveline

• The Liebherr driveline consists of two hydraulic motors which accelerate the loader continuously from a standstill to maximum speed, either forwards or in reverse but without a reversing gear unit.





Reliability

All the materials used in Liebherr wheel loaders have passed long term tests to ensure that they meet Liebherr's exacting standards even in the toughest conditions. The mature concept and proven quality make Liebherr wheel loaders to the benchmark for reliability.

Reliable Liebherr driveline

Fewer components

The Liebherr driveline includes a self-locking hydraulic brake, which means the additional wet brake discs are effectively wear-free. There is no need for a reversing gear unit – thus minimizing the number of parts susceptible by wear.

Controlled cooling

The intelligent answer

The cooling fan is not driven directly from the Liebherr diesel engine, and produces only the cooling air output which is actually required. Heat sensors ensure reliable control. If overheating should occur, the wheel loader automatically shifts down to first travel speed range. The reduced power consumption protects the engine from overheating. At the same time, the fan speed is increased to maximum value, thus preventing the engine from overheating.

Components meet manufacturer's quality standards

Everything from a single source

Important components such as the engine, hydraulic rams and electronics are developed and manufactured by Liebherr itself. This ensures co-ordinated quality from the manufacturer down to the smallest detail. Liebherr components guarantee maximum performance and reliability.

Cooling system

- The cooling system is fitted on the rear section between the diesel engine and the operator's cab. The cooling air is drawn in directly behind the cab and blown out upwards at the rear. The fan speed is varied automatically by heat sensors that determine the amount of cooling needed.
- A reversible fan drive to expel dust from the radiator can be specified as an optional extra.



Liebherr's own components

 Liebherr has many years of experience in design, development and construction of diesel engines, hydraulic rams and electronic components. They are matched together down to the smallest detail for use to guarantee optimum interaction and performance.





Liebherr control lever

- The Liebherr control lever is used to manage all travel and working movements of the wheel loader, so that the operator's left hand can always remain on the steering wheel. There is no need to let go of the steering wheel, and this increases the safety. The operator controls the following functions with his right hand:
- Raise and lower attachment
- Fill and dump the bucket
- Automatic bucket return to dig
- Kick down and Gear Hold function
- Auxiliary control buttons for additional hydraulic functions
- Change of travel direction with simultaneous travel start





Comfort

The ultra modern cab design with advanced ergonomics, continuously variable Liebherr driveline for uninterrupted tractive force, standard Liebherr ride control, optimum weight distribution and easy service access thanks to unique engine installation position lead to extraordinary overall comfort.

Top-class cabin design

Comfort cab

The ultra-modern, ergonomically planned cabin design allows the operator to achieve better performance and productivity in the greatest possible comfort. The displays, controls and operator's seat are carefully coordinated to form a perfect ergonomic unit.

Liebherr control lever

All the working and travel functions are operated precisely and sensitively from a single control lever. This means accurate and safe handling, and the left hand always remains on the steering wheel. This increases the safety at the job site.

Liebherr driveline

Continuously variable transmission

The Liebherr driveline allows continuous regulation of acceleration in all speed ranges, without noticeable gear shifting or interruption in tractive force.

Service access

Easy maintenance

Because the Liebherr diesel engine is rotated by 180°, the hydraulic pumps, hydraulic tank, hydraulic tank cut-off valve, air filter and battery main switch can be reached easily and safely from ground level by opening a single engine compartment hood. The engine, pump distributor gear and cooling system are easily accessible by opening the engine cover.

Hydrostatic fan drive

The cooling system is positioned directly behind the cab, which means there is less dirt and therefore less maintenance and cleaning resulting in time and cost savings!

Service access

 The unique position of the Liebherr diesel engine provides perfect accessibility for maintenance. The hydraulic pumps, hydraulic tank, hydraulic tank cut-off valve and battery main switch can be easily and safely accessed from ground level by opening a single engine compartment hood.



Powerful air-conditioning system

- The standard equipped air-conditioning system of the large wheel loaders provides the greatest operator comfort for high productivity.
- The air flow is controlled at 4 different levels

 an automatic air-conditioning system is
 available as an option.
- Air flow in the feet area
- Defroster
- Air flow in the head area
- Air flow in the body area

Technical Data



iebherr diesel engine			D936L A6 I		
Design				oled, exhau	ust turbo
	charged v	vith interco	oler		
Cylinder inline				•	l 6
Combustion process	Unit pump	(PLD) mic	roprocesso	r controlled	t
Rated output according					
to ISO 9249 kW	129	140	190	200	200
at RPM	2,000	2,000	2,000	2,000	2,000
Max. torque Nm	828	900	1,230	1,320	1,320
at RPM	1500	1,300	1,300	1,300	1,300
Displacement litres	6.36	7.01	10.52	10.52	10.52
Bore/Stroke mm	122/136	122/150	122/150	122/150	122/150
ir cleaner	Dry type v	vith main ar	nd safety el	ement, pre	-cleaner,
	service inc	dicator on L	CD display	,	
lectrical system					
Operating voltage V	24	24	24	24	24
Capacity Ah	143	143	170	170	170
AlternatorV/A	28/80	28/80	28/80	28/80	28/80
Starter motor V/kW	24/6.6	24/6.6	24/6.6	24/6.6	24/6.6

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



IIIIVOI D		
Stepless hydrostatic travel drive		
Design	_ Swash plate type variable flow pump a	
	variable axial piston motors in closed lo	
	with one axle transfer case. Direction of	
	in reversed by changing the flow-direct	ion of the
	variable-displacement pump	
Filtering system	 Suction return line filter for closed circu 	
Control	 By travel and inching pedal. The inching 	
	it possible to control the tractive and th	rust forces
	steplessly at full engine speed. The Liel	
	is used to control forward and reverse t	
Travel speed range	_ Speed range 1	
	Speed range 2 and A2	
	Speed range A3	
	The quoted speeds apply with the tyres	that are
	standard equipment on the loader	



Four-wheel drive						
Front axle	. Fixed					
Rear axle	Centre piv	ot, with 13	° oscillating	g angle to	each side	
	L 550	L 556	L 566	L 576	L 580	
Height of obstacles which	500	500	520	520	520	
can be driven over mm	With all fo	ur wheels r	emaining ir	n contact v	vith the	
	ground					
Differentials	. Automatic	limited-slip	p differentia	als		
Reduction gear	Planetary final drive in wheel hubs					
Track width	2,000 mm	with all type	oes of tyres	(L 550, L	556)	
	2.230 mm	with all tvr	oes of tyres	(L 566, L	576. L 580)	



Brakes

Wear-free service brake	. Self-locking of the hydrostatic travel drive (acting or
	all four wheels) and additional pump-accumulator
	brake system with wet multi-disc brakes
	(two separate brake circuits)
Parking brake	. Electro-hydraulically actuated spring-loaded brake
	system on the transmission
The braking system meets the red	guirements of the EC guidelines 71/320



3	"Load-sensing" swash plate type variable flow pump with pressure cut-off and flow control. Central pivot with two double-acting, damped steering cylinders
	40° (to each side) Electro-hydraulic emergency steering system



Attachment Hydraulics

Design "Load-sensing" swash plate type variable flow pump						
			control, an	d pressure	cut-off in	
	the contro					
Cooling			using therr	nostatically	controlled	
	fan and oi					
Filtering			e hydraulic			
Control			vith hydrau	lic servo co	ntrol	
Lift circuit		utral, lower				
	and float	oositions co	ontrolled by	/ Liebherr jo	oystick	
	with deter	nt				
Tilt circuit	Tilt back,	neutral, dui	mp			
	automatic	bucket po	sitioning			
	L 550	L 556	L 566	L 576	L 580	
Max. flow I/min.	234	234	290	290	290	
Max. pressurebar	290	330	350	350	350	
•						



Geometry	 Powerful Z-pattern linkage with tilt cylinder and cas steel cross-tube 					
Bearings	_ Sealed					
Cycle time at nominal load	L 550	L 556	L 566	L 576	L 580	
Z-bar linkage						
Lifting	. 5.5 s	5.5 s	5.5 s	5.5 s	5.5 s	
Dumping	. 2.3 s	2.3 s	2.0 s	2.0 s	2.0 s	
Lowering (empty)	. 2.7 s	2.7 s	3.5 s	3.5 s	3.5 s	
Industrial lift arm						
Lifting	5.5 s	5.5 s	5.5 s	5.5 s	5.5 s	
Dumping	. 3.5 s	3.5 s	3.5 s	3.5 s	3.5 s	
Lowering (empty)	. 2.7 s	2.7 s	3.5 s	3.5 s	3.5 s	



's Cab
On elastic bearing on rear section, soundproof ROPS/FOPS cab. Operator's door with optional sliding window, 180° opening angle, flod-out window on right site with opening angle, front windscreen made of compound safety glass, green tinted as standard, side windows made of single-pane safety glass, grey tinted, continuously adjustable steering column and joystick control as standard, heatable rear window ROPS roll over protection per DIN/ISO 3471/EN 474-3 FOPS falling objects protection per DIN/ISO 3449/FN 474-1
6 way adjustable seat with lap belt, vibration damping and suspension adjustable for the operator's weight
Operator's cab with 4-level air control, cooling water heating, defroster and air conditioning with electronic valve control, as well as electronic fresh/recirculated air control, filter system with pre-filter, fresh air filter and recirculated air filter, easily replaced, air conditioning as standard



Noise Emission

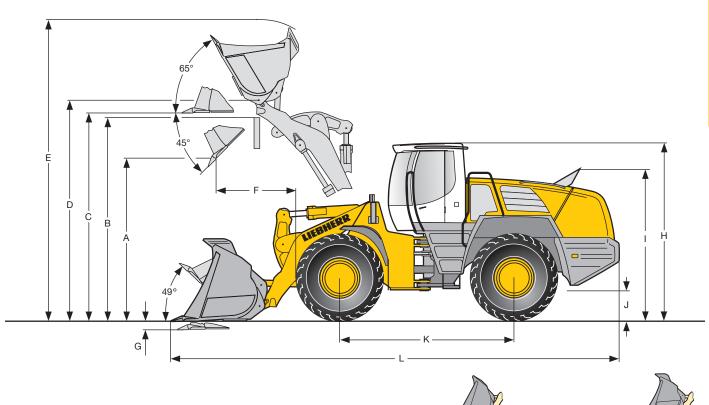
ISO 6396	L 550	L 556	L 566	L 576	L 580
L _{pA} (inside cab)	_ 69 dB(A)	69 dB(A)	69 dB(A)	69 dB(A)	69 dB(A)
2000/14/EC	104 dB(A)	104 dB(A)	105 dB(A)	105 dB(A)	105 dB(A)



Capacities

	L 550	L 556	L 566	L 576	L 580
Fuel tank	1255	255	350	350	350
Engine oil					
(including filter change)	131	31	43	43	43
Pump distributor gears	12.5	2.5	2.5	2.5	2.5
Transmission	111.5	11.5	11.5	11.5	11.5
Coolant	145	45	52	52	52
Front axle	130	38	51	51	58
Rear axle	130	30	51	51	50
Hydraulic tank	I 135	135	135	135	135
Hydraulic system, total	1240	240	260	260	260
Air condition system R134a	g 780	780	780	780	780

Z-bar linkage



L	oading Bucket		L 5	50	L 5	56	L 5	66	L 5	76	L 5	80
	Cutting tools		Т	Т	Т	Т	Т	Т	Т	Т	Т	Т
	Lift arm length	mm	2,600	2,600	2,600	2,600	2,920	2,920	2,920	2,920	3,050	3,050
	Bucket capacity according to ISO 7546**	m³	3.2	3.6	3.6	3.8	4.0	4.5	4.5	5.0	5.0	5.5
	Bucket width	mm	2,700	2,700	2,700	2,700	3,000	3,000	3,000	3,000	3,300	3,300
	Specific material weight	t/m³	1.8	1.6	1.8	1.6	1.8	1.6	1.8	1.6	1.8	1.6
Α	Dumping height at max. lift height and 45° discharge	mm	2,882	2,790	2,850	2,760	3,240	3,185	3,187	3,105	3,320	3,250
В	Dump-over height	mm	3,500	3,500	3,500	3,500	3,900	3,900	3,900	3,900	4,100	4,100
C	Max. height of bucket bottom	mm	3,645	3,645	3,645	3,645	4,050	4,050	4,050	4,050	4,270	4,270
D	Max. height of bucket pivot point	mm	3,915	3,915	3,915	3,915	4,360	4,360	4,360	4,360	4,580	4,580
Ε	Max. operating height	mm	5,395	5,410	5,460	5,480	5,870	5,960	5,960	6,040	6,340	6,420
F	Reach at max. lift height and 45° discharge	mm	1,095	1,225	1,160	1,232	1,180	1,238	1,233	1,321	1,150	1,220
G	Digging depth	mm	85	85	85	85	100	100	100	100	100	100
Н	Height above cab	mm	3,365	3,365	3,365	3,365	3,550	3,550	3,550	3,550	3,550	3,550
1	Height above exhaust	mm	2,985	2,985	2,985	2,985	3,100	3,100	3,100	3,100	3,100	3,100
J	Ground clearance	mm	530	530	530	530	565	565	565	565	565	565
K	Wheelbase	mm	3,280	3,280	3,280	3,280	3,580	3,580	3,580	3,580	3,700	3,700
L	Overall length	mm	8,220	8,240	8,240	8,350	8,912	8,992	8,992	9,112	9,300	9,400
	Turning circle radius over outside bucket edge	mm	6,420	6,440	6,440	6,470	7,096	7,110	7,110	7,145	7,420	7,450
	Breakout force (SAE)	kN	125	118	130	120	200	190	190	175	175	160
	Tipping load, straight*	kg	13,205	13,090	14,890	14,650	17,690	17,010	19,570	19,150	20,390	19,990
	Tipping load, articulated at 37°*	kg	11,865	11,765	13,350	13,135	15,850	15,240	17,530	17,160	18,330	17,970
	Tipping load, articulated at 40°*	kg	11,650	11,550	13,140	12,930	15,550	14,950	17,200	16,840	18,000	17,650
	Operating weight*	kg	16,525	16,590	17,270	17,320	22,500	22,625	24,260	24,360	24,580	24,730
	Tyre sizes		23.5F	25 L3	23.5R	25 L3	26.5R	25 L3	26.5R	25 L3	26.5R	25 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 24.



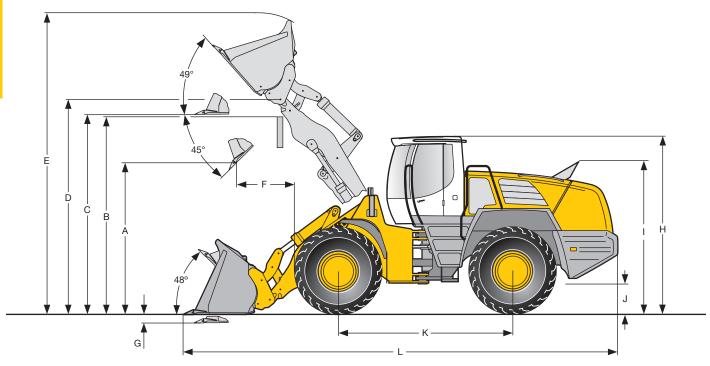
= Excavation bucket with back grading edge



= Rehandling bucket

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

Industrial lift arm



L	oading Bucket		L 550	L 556	
	Geometry		IND	IND	
	Cutting tools		Т	Т	
	Lift arm length	mm	2,600	2,600	
	Bucket capacity according to ISO 7546**	m ³	3.0	3.3	
	Bucket width	mm	2,700	2,700	
	Specific material weight	t/m³	1.8	1.8	
Α	Dumping height at max. lift height and 45° discharge	mm	2,882	2,852	
В	Dump-over height	mm	3,500	3,500	
С	Max. height of bucket bottom	mm	3,795	3,795	
D	Max. height of bucket pivot point	mm	4,075	4,075	
Е	Max. operating height	mm	5,580	5,620	
F	Reach at max. lift height and 45° discharge	mm	1,135	1,174	
G	Digging depth	mm	80	80	
Н	Height above cab	mm	3,365	3,365	
1	Height above exhaust	mm	2,985	2,985	
J	Ground clearance	mm	530	530	
K	Wheelbase	mm	3,280	3,280	
L	Overall length	mm	8,300	8,355	
	Turning circle radius over outside bucket edge	mm	6,470	6,500	
	Breakout force (SAE)	kN	125	130	
	Tipping load, straight*	kg	12,290	13,660	
	Tipping load, articulated at 37° *	kg	11,050	12,265	
	Tipping load, articulated at 40°*	kg	10,850	12,050	
	Operating weight*	kg	16,940	17,740	
	Tyre sizes		23.5R25 L3	23.5R25 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.

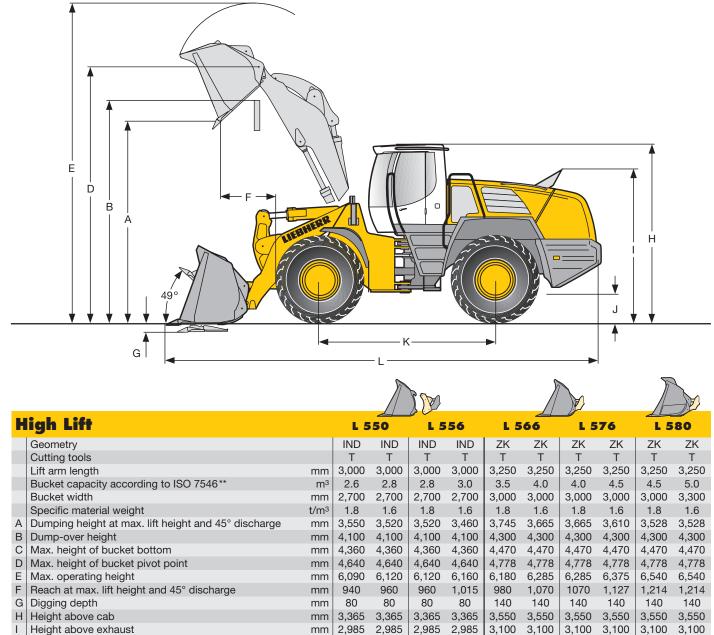


> Excavation bucket with back grading edge for hydraulic quick coupler

IND = Industrial lift arm with parallel guidance including hydraulic quick coupler (only available for L 550 and L 556) Т

= Welded-on tooth holder with add-on teeth

High Lift



* 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.

530

3,280

8.710

6.670

115

mm

mm

mm

mm

kN

kg

kg

530

3,280

8,740

6,690

110

10,310 10,160

17,180 17,210

23.5R25 L3

530

3,280

8.740

6,690

120

9,100 8,970 10,090 9,940

11,440 11,260

17,970 18,040

23.5R25 L3

530

3,280

8,820

6,730

115

565

3,580

9,250

7,245

155

565

3,580

9,370

7,280

150

15,030 14,840

26.5R25 L3

565

3,580

9,370

7,280

155

13,200 13,050 14,540 14,380

** Actual bucket capacity may be approx. 10 % larger than the calculation according to ISO 7546 standard. The degree to which the bucket can be filled depends on the material – see page 24.

= Excavation bucket with back grading edge for hydraulic quick coupler/for direct mounting

A

= Rehandling bucket

IND = Industrial lift arm with parallel guidance including hydraulic quick coupler (only available for L 550 and L 556; illustration see page 14)

ZK = Z-bar linkage

Ground clearance

Breakout force (SAE)

Tipping load, straight*

Operating weight*

Tipping load, articulated at 40°*

Wheelbase

Tyre sizes

Overall length

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

Turning circle radius over outside bucket edge

565

3,700

9.570

7,410

150

18.445 18.450

16,290 16,290

26.5R25 L3

565

3,700

9,570

7,540

150

565

3,580

9,450

7,305

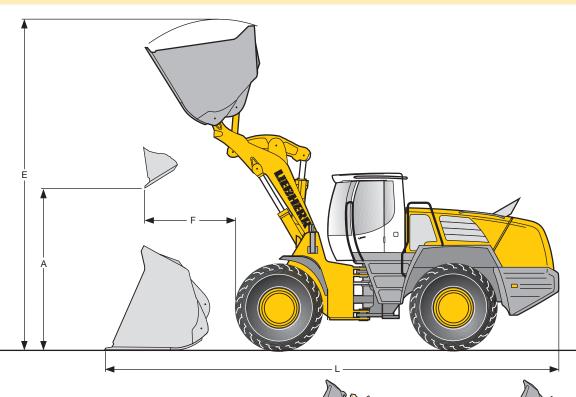
150

16,540 16,360

22,750 22,860 24,490 24,610 24,650 24,800

26.5R25 L3

Light Material Bucket



					13 (.)							
L	ight Material Bucket (heavy material dens	ity)	L 5	50	L 5	56	L 5	66	L 5	76	L 5	80
w	ith Bolt-On Cutting Edge		STD	HL	STD	HL	STD	STD	STD	STD	STD	STD
	Geometry		IND	IND	IND	IND	ZK	ZK	ZK	ZK	ZK	ZK
	Bucket capacity	m ³	5.0	4.5	6.0	5.0	6.5	8.5	6.5	8.5	6.5	8.5
	Bucket width	mm	2,950	2,950	2,950	2,950	3,200	3,500	3,200	3,500	3,200	3,500
	Specific material weight	t/m³	0.8	0.8	0.8	0.8	1.0	0.8	1.2	0.9	1.2	1.0
Α	Dumping height at max. lift height	mm	2,550	3,220	2,430	3,130	3,015	2,875	3,015	2,875	3,195	3,050
Ε	Max. operating height	mm	5,900	6,320	6,080	6,480	6,230	6,430	6,230	6,430	6,450	6,650
F	Reach at maximum lift height	mm	1,450	1,250	1,580	1,330	1,415	1,564	1,415	1,564	1,205	1,355
L	Overall length	mm	8,550	8,950	8,730	9,065	9,050	9,255	9,050	9,255	9,170	9,375
	Tipping load, straight*	kg	11,500	9,300	12,070	10,550	16,320	15,760	18,380	17,800	19,640	19,040
	Tipping load, articulated at 40°*	kg	10,140	8,210	10,650	9,300	14,345	13,850	16,150	15,650	17,340	16,815
	Operating weight*	kg	17,400	17,740	18,310	18,500	23,290	23,400	24,700	25,010	24,860	25,170
	Tyre sizes		23.5R	25 L3	23.5R	25 L3	26.5R	25 L3	26.5R	25 L3	26.5R	R25 L3

	i ght Material Bucket (light material densit ith Bolt-On Cutting Edge	y)	L 5 STD	50 HL	L 5 STD	56 HL	L 566 STD	L 576 STD	L 580 STD
	Geometry		IND	IND	IND	IND	ZKK	ZKK	ZKK
	Bucket capacity	m ³	9.0	8.0	10.0	9.0	11.0	11.0	14.0
	Bucket width	nm	3,400	3,400	3,400	3,400	3,700	3,700	4,000
	Specific material weight t	/m³	0.5	0.5	0.5	0.5	0.4	0.5	0.4
Α	Dumping height at max. lift height	nm	2,340	2,920	2,265	2,840	2,810	2,810	2,760
Ε	Max. operating height	nm	6,110	6,470	6,250	6,600	6,820	6,820	7,170
F	Reach at maximum lift height	nm	1,705	1,520	1,780	1,600	2,200	2,200	2,260
L	Overall length r	nm	8,925	9,350	9,035	9,475	9,700	9,700	10,030
	Tipping load, straight*	kg	10,860	9,015	11,870	10,105	12,695	13,410	13,720
	Tipping load, articulated at 40°*	kg	9,580	7,950	10,475	8,920	11,160	11,790	12,110
	Operating weight*	kg	18,290	18,430	19,160	19,345	25,280	26,120	27,260
	Tyre sizes		23.5R	25 L4	23.5R	25 L4	26.5R25 L4	26.5R25 L4	26.5R25 L4

^{*} 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.

STD = Standard lift arm length

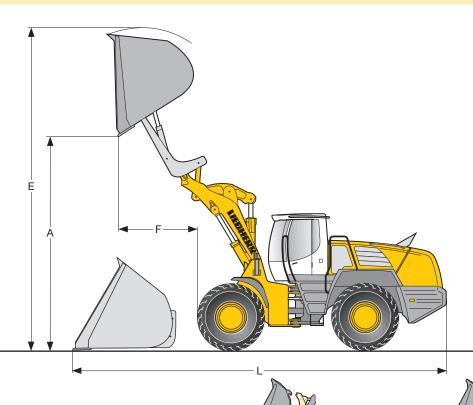
HL = High Lift

IND = Industrial lift arm with parallel guidance including hydraulic quick coupler (only available for L 550 and L 556; illustration see page 14).

ZK = Z-bar linkage

ZKK = Z-bar linkage with tilt ram support and hydraulic quick coupler ("Holzknecht")

High-Dump Bucket



				\mathcal{L}	13 ()				
	ligh-Dump Bucket (heavy material density)	L 5		L 5		L 566	L 576	L 580
W	ith Bolt-On Cutting Edge		STD	HL	STD	HL	STD	STD	STD
	Geometry		IND	IND	IND	IND	ZK	ZK	ZK
	Bucket capacity	m ³	4.5	4.0	5.0	4.5	6.5	6.5	6.5
	Bucket width	mm	2,700	2,700	2,700	2,700	3,200	3,200	3,200
	Specific material weight	t/m³	0.8	0.8	0.8	0.8	0.8	1.0	1.0
Α	Dumping height at max. lift height	mm	4,550	5,040	4,590	5,160	5,320	5,320	5,540
Ε	Max. operating height	mm	6,680	7,120	6,850	7,300	7,600	7,600	7,820
F	Reach at maximum lift height	mm	1,790	1,560	1,820	1,650	1,830	1,830	1,655
L	Overall length	mm	8,830	9,240	8,950	9,350	9,660	9,660	9,780
	Tipping load, straight*	kg	10,260	8,750	11,020	9,460	13,650	15,580	16,790
	Tipping load, articulated at 40°*	kg	9,050	7,720	9,720	8,340	12,000	13,270	14,820
	Operating weight*	kg	17,860	18,090	19,020	18,960	24,810	25,920	26,380
	Tyre sizes		23.5R	25 L3	23.5R	25 L3	26.5R25 L3	26.5R25 L3	26.5R25 L3

	igh-Dump Bucket (light material density) ith Bolt-On Cutting Edge		L 5 STD	50 HL	L 5 STD	56 HL	L 566 STD	L 576 STD	L 580 STD
	Geometry		IND	IND	IND	IND	ZKK	ZKK	ZKK
	Bucket capacity	m³	8.0	7.0	9.5	8.0	11.0	11.0	13.0
	Bucket width	mm	3,400	3,400	3,400	3,400	3,700	3,700	4,000
	Specific material weight	t/m³	0.5	0.5	0.5	0.5	0.4	0.5	0.4
Α	Dumping height at max. lift height	mm	4,500	4,850	4,610	5,000	4,550	4,550	4,780
Е	Max. operating height	mm	6,860	7,160	7,150	7,450	8,280	8,280	8,590
F	Reach at maximum lift height	mm	1,780	1,550	1,860	1,620	2,060	2,060	2,080
L	Overall length	mm	8,900	9,300	9,050	9,450	9,630	9,630	9,960
	Tipping load, straight*	kg	9,910	8,370	10,960	9,320	11,540	12,340	12,830
	Tipping load, articulated at 40°*	kg	8,740	7,350	9,670	8,225	10,140	10,850	11,330
	Operating weight*	kg	18,390	18,780	19,260	19,695	25,580	26,520	27,780
	Tyre sizes		23.5R	25 L4	23.5F	R25 L4	26.5R25 L4	26.5R25 L4	26.5R25 L4

^{*} 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.

STD = Standard lift arm length

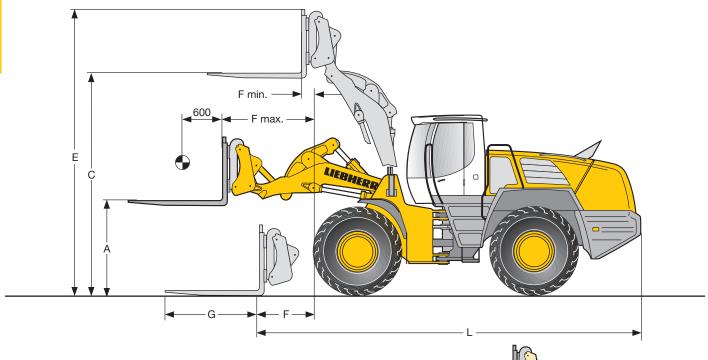
HL = High Lift

IND = Industrial lift arm with parallel guidance including hydraulic quick coupler (only available for L 550 and L 556; illustration see page 14).

ZK = Z-bar linkage

ZKK = Z-bar linkage with tilt ram support and hydraulic quick coupler ("Holzknecht")

Fork Carrier and Fork



EEM	IV Fork Carrier and	Fork							
	Quick Change Device	IOIR	L 5	50	L 5	56	L 566	L 576	L 580
	Geometry		ZK	IND	ZK	IND	ZK	ZK	ZK
Α	Lifting height at max. reach	mm	1,780	1,840	1,780	1,840	1,985	1,985	1,985
С	Max. lifting height	mm	3,680	3,835	3,680	3,835	4,130	4,130	4,350
E	Max. operating height	mm	4,680	4,825	4,680	4,825	5,300	5,300	5,540
F	Reach at loading position	mm	1,020	985	1,020	985	1,250	1,250	1,300
F max.	Max. reach	mm	1,655	1,680	1,655	1,680	1,960	1,960	1,970
F min.	Reach at max. lifting height	mm	835	750	835	750	1,020	1,020	840
G	Fork length	mm	1,500	1,500	1,500	1,500	1,800	1,800	1,800
L	Length - basic machine	mm	7,160	7,160	7,160	7,160	7,920	7,920	8,100
	Tipping load, straight*	kg	9,140	9,190	10,370	10,260	11,600	12,650	14,140
	Tipping load, articulated at 40°*	kg	8,065	8,100	9,150	9,050	10,200	11,050	12,280
	Recommended payload for uneven ground = 60 % of								
	tipping load, articulated 1)	kg	4,550	4,860	5,490	5,430	5,885	6,630	7,500
	Recommended payload for smooth surfaces = 80 % of								
	tipping load, articulated 1)	kg	5,8002)	6,480	6,5002)	7,240	7,845	8,840	8,8402)
	Operating weight*	kg	16,395	16,500	17,080	17,265	22,715	23,530	24,285
	Tyre sizes		23.5F	R25 L3	23.5R	25 L3	26.5R25 L3	26.5R25 L3	26.5R25 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.

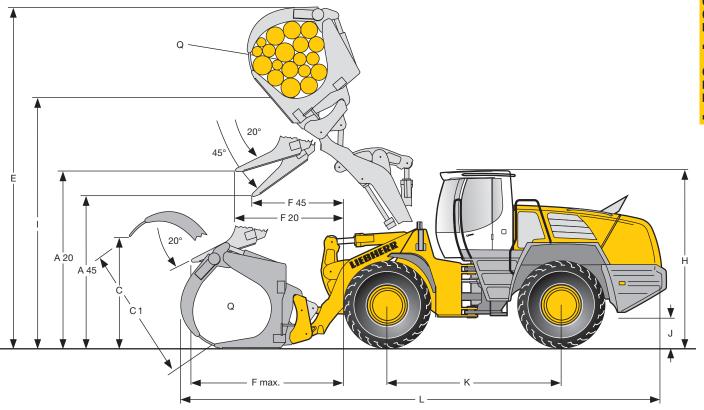
¹⁾ According to EN 474-3 and ISO 14397

²⁾ Payload on forks is limited by tilt cylinder

ZK = Z-bar linkage

IND = Industrial lift arm with parallel guidance including hydraulic quick coupler (only available for L 550 and L 556; illustration see page 14).

Log Grapple (Industrial lift arm)



Log	Grapple	M	L 550	L 556	L 566	L 576	L 580
	Geometry		IND	IND	ZKK	ZKK	ZKK
A20	Discharge height at 20°	mm	3,590	3,570	3,400	3,400	3,630
A45	Discharge height at 45°	mm	3,020	2,950	2,700	2,700	2,880
С	Max. grapple opening in loading position	mm	2,350	2,690	3,000	3,000	3,370
C1	Max. grapple opening	mm	2,465	2,960	3,300	3,300	3,650
E	Max height	mm	6,320	6,480	7,500	7,500	7,800
F20	Reach at max. lifting height at 20° discharge	mm	1,740	1,890	2,340	2,340	2,230
F45	Reach at max. lifting height at 45° discharge	mm	1,410	1,530	1,770	1,770	1,660
F max.	Max. outreach	mm	2,670	2,820	3,260	3,260	3,340
Н	Height above cab	mm	3,365	3,365	3,580	3,580	3,580
1	Manipulation height	mm	4,530	4,530	5,200	5,200	5,400
J	Ground clearance	mm	530	530	565	565	565
K	Wheelbase	mm	3,280	3,280	3,580	3,580	3,700
L	Overall length	mm	8,500	8,650	9,600	9,600	9,980
	Width over tyres	mm	2,660	2,660	2,930	2,930	2,930
Q	Grapple diameter	m ²	1.8	2.4	3.1	3.1	3.5
	Grapple width	mm	1,600	1,600	1,800	1,800	1,800
	Payload*	kg	6,300**	6,400**	8,200**	8,650**	9,200**
	Operating weight*	kg	18,890**	19,550**	25,980**	26,790**	27,850**
	Tyre sizes		23.5R25 L4	23.5R25 L4	26.5R25 L4	26.5R25 L4	26.5R25 L4

^{*} 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.

^{**} Data with rear tyres filled with water

ZKK = Z-bar linkage with tilt ram support and hydraulic quick coupler ("Holzknecht")

IND = Industrial lift arm with parallel guidance including hydraulic quick coupler (only available for L 550 and L 556; illustration see page 14).

Technical Data



iebherr diesel engine	D936L A6	
Design	Liebherr diesel engine, water-ce	ooled, exhaust turbo
•	charged with intercooler	
Cylinder inline	6	
Combustion process	Unit pump (PLD) microprocess	or controlled
Rated output according	,	
to ISO 9249	250 kW	at 2,000 RPM
Max. torque	1,590 Nm	at 1,500 RPM
Displacement	10.52 litres	
Bore/Stroke	122/150 mm	
ir cleaner	Dry type with main and safety e	element, pre-cleaner,
	service indicator on LCD displa	V
lectrical system	·	
Operating voltage	24 V	
Capacity	170 Ah	
Alternator	28 V/80 A	
Starter motor	24 V/6.6 kW	

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



Stepless hydrostatic travel drive		
Design	_ Swash plate type variable flow pump a	
	variable axial piston motors in closed lo	
	with one axle transfer case. Direction of	
	in reversed by changing the flow-direct	ion of the
	variable-displacement pump	
Filtering system	 Suction return line filter for closed circu 	it
Control	 By travel and inching pedal. The inching 	g pedal makes
	it possible to control the tractive and th	rust forces
	steplessly at full engine speed. The Liel	oherr iovstick
	is used to control forward and reverse t	
Travel speed range	Speed range 1	0 - 8.0 km/h
. 0	Speed range 2 and A2	0 - 16.0 km/h
	Speed range A3	0 - 35.0 km/h
	The quoted speeds apply with the tyres	that are
	standard equipment on the loader	



Four-wheel drive	
Front axle	_ Fixed
Rear axle	_ Centre pivot, with 13° oscillating angle to each side
Height of obstacles which	
can be driven over	_ 530 mm
	With all four wheels remaining in contact with the ground
Differentials	_ Automatic limited-slip differentials
Reduction gear	Planetary final drive in wheel hubs
Track width	_ 2,400 mm with all types of tyres



Wear-free service brake	Self-locking of the hydrostatic travel drive (acting or all four wheels) and additional pump-accumulator
	brake system with wet multi-disc brakes
	(two separate brake circuits)
Parking brake	Electro-hydraulically actuated spring-loaded brake
	system on the transmission
The development of the second state of the second	wirements of the EC quidalines 71/200

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



Design	"Load-sensing" swash plate type variable flow pump with pressure cut-off and flow control. Central pivot with two double-acting, damped steering cylinders
	37° (to each side) Electro-hydraulic emergency steering system



Attachment Hydraulics

Design	"Load-sensing" swash plate type variable flow pump with output and flow control, and pressure cut-off in the control block
Cooling	Hydraulic oil cooling using thermostatically controlled fan and oil cooler
Filtering	Return line filter in the hydraulic reservoir
	_ "Liebherr-Joystick" with hydraulic servo control
Lift circuit	Lifting, neutral, lowering
	and float positions controlled by Liebherr joystick with detent
Tilt circuit	Tilt back, neutral, dump
Max. flow	
Max. pressure	_ 330 bar
Max. flow	automatic bucket positioning - 410 l/min.



Geometry	Powerful Z-pattern linkage with	tilt cylinder and cast
	steel cross-tube	
Bearings	Sealed	
Cycle time at nominal load	Lifting	6.5 s
.,	Dumping	3.0 s
	Lowering (empty)	40 s



Operator's Cab

Design	On elastic bearing on rear section, soundproof ROPS/FOPS cab. Operator's door with optional sliding window, 180° opening angle, fold-out window on right site with opening angle, front windscreen made of compound safety glass, green tinted as standard, side windows made of single-pane safety glass, grey tinted, continuously adjustable steering column and joystick control as standard, heatable rear window ROPS roll over protection per DIN/ISO 3471/EN 474-3
	FOPS falling objects protection per DIN/ISO 3449/ EN 474-1
Liebherr Operator's seat	6 way adjustable seat with lap belt, vibration damping and suspension adjustable for the operator's weight
Cab heating and ventilation	Operator's cab with 4-level air control, cooling water heating, defroster and air conditioning with electronic valve control, as well as electronic fresh/recirculated air control, filter system with pre-filter, fresh air filter and recirculated air filter, easily replaced, air conditioning as standard



Noise Emission

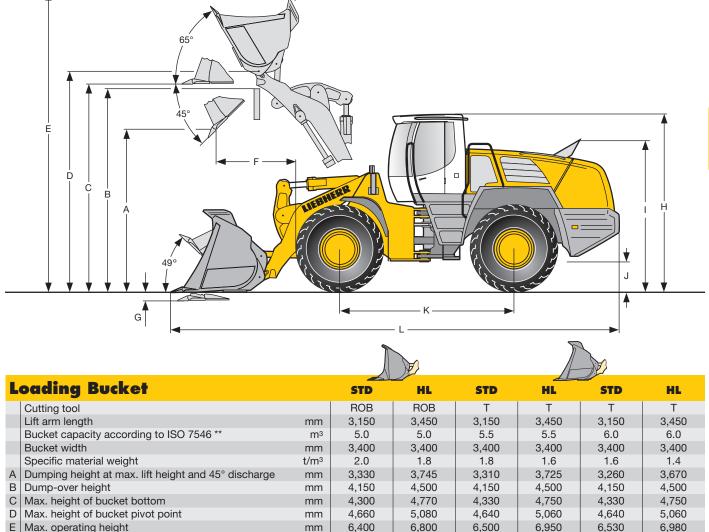
ISO 6396	LnA	(inside cab)	=	69 dB(A)
2000/14/FC	I	(surround noise)	-	107 dR(A)



Capacities

Fuel tank	435
Engine oil (including filter change)	43
Pump distributor gears	7.7
Transmission	11.5
Coolant	59
Front axle	90
Rear axle	56
Hydraulic tank	180
Hydraulic system, total	350
Air condition system R134a	1,250 g

Z-bar linkage



* 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.

1,370

140

3,760

3,330

595

3,900

9,950

8,250

235

22.690

20,345

32,585

1,370

140

3,760

3,330

595

3,900

10,300

8,450

230

19,905

17,850

32,910

29.5R25 L5

1,385

100

3,740

3,310

575

3,900

9,930

8,250

235

22.780

20,430

31,380

1,370

100

3,740

3,310

575

3,900

10,250

8,450

230

20,010

17,940

31,700

29.5R25 L3

1,430

100

3,740

3,310

575

3,900

9,960

8,300

225

22,060

19,780

31,750

1,410

100

3,740

3,310

575

3,900

10,280

8,500

220

19,350

17,340

32,100

** Actual bucket capacity may be approx. 10 % larger than the calculation according to ISO 7546 standard. The degree to which the bucket can be filled depends on the material - see page 24.

F

G

Н

Κ

Digging depth

Wheelbase

Tyre sizes

Overall length

Height above cab

Ground clearance

Height above exhaust

Breakout force (SAE)

Operating weight *

Tipping load, straight

Tipping load, articulated at 37° *

= Rock bucket with oblique base for quarrying applications

= Rehandling bucket STD

= Standard lift arm length

Reach at max. lift height and 45° discharge

Turning circle radius over outside bucket edge

HL= High Lift

= Rock bucket with delta cutting edge, welded-on tooth holder with add-on teeth and bolted intermediate sections **ROB**

mm

mm

mm

mm

mm

mm

mm

mm

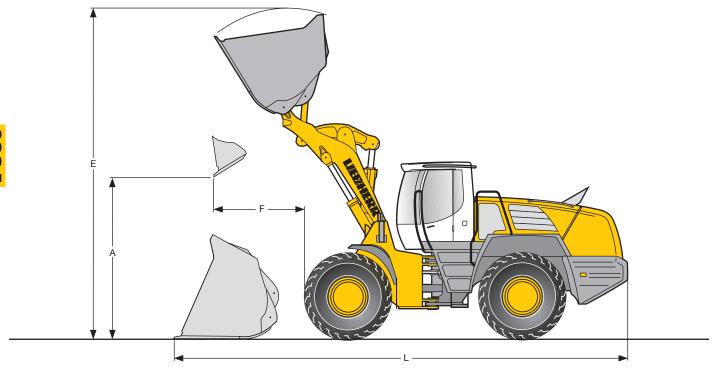
kN

kg

kg

kg

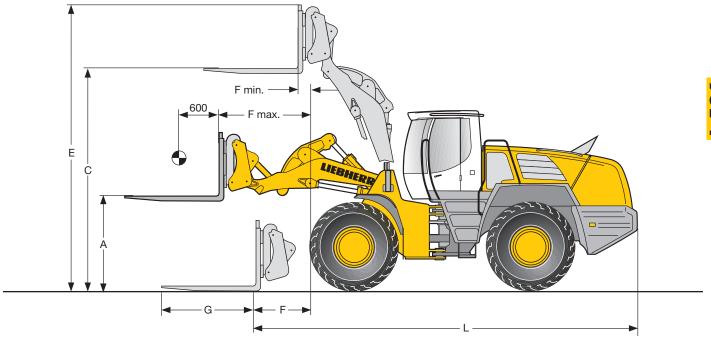
Т = Welded-on tooth holder with add-on teeth



Light Material Bucket with Bolt-On Cutting Edge			
Bucket capacity	m ³	8.5	11.0
Bucket width	mm	3,500	3,700
Specific material weight	t/m³	1.1	0.8
A Dumping height at max. lift height	mm	3,115	2,940
E Max. operating height	mm	6,700	6,835
F Reach at maximum lift height	mm	1,525	1,770
L Overall length	mm	9,950	10,250
Tipping load, straight*	kg	21,680	20,920
Tipping load, articulated at 37° *	kg	19,445	18,690
Operating weight*	kg	31,480	32,070
Tyre sizes		29.5R25 L3	29.5R25 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.

Fork Carrier and Fork



	IV Fork Carrier and Fork		
Α	Lifting height at max. reach	mm	2,110
С	Max. lifting height	mm	4,420
Е	Max. operating height	mm	5,620
F	Reach at loading position	mm	1,300
F max.	Max. reach	mm	2,020
F min.	Reach at max. lifting height	mm	1,010
G	Fork length	mm	1,800
L	Length – basic machine	mm	8,450
	Tipping load, straight*	kg	16,440
	Tipping load, articulated at 37° *	kg	14,740
	Recommended payload for uneven ground		
	= 60 % of tipping load, articulated 1)	kg	8,840
	Recommended payload for smooth surfaces		
	= 80 % of tipping load, articulated 1)	kg	10,0002)
	Operating weight*	kg	30,380
	Tyre sizes		29.5R25 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.
- 1) According to EN 474-3 and ISO 14397
- ²⁾ Useful load limited due to FEM IV fork carrier and forks

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 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.

Pay load = Tipping load, articulated

Bucket capacity = Pay load (t)
Specific bulk weight of material (t/m³)

Bulk	Material	Densiti	ies	and Buck	cet Filling	Facto	ors			
		t/m³	%			t/m³	%		t/m³	%
Gravel,	moist	1.9	105	Clay,	natural	1.6	110	Granite	1.8	95
	dry	1.6	105		dry	1.4	110	Limestone, hard	1.65	95
	wet, 6 - 50 mm	2.0	105		wet	1.65	105	soft	1.55	100
	dry, 6 - 50 mm	1.7	105	Clay and gravel,	, dry	1.4	110	Sandstone	1.6	100
	crushed stone	1.5	100		wet	1.6	100	Slate	1.75	100
Sand,	dry	1.5	110	Earth,	dry	1.3	115	Bauxite	1.4	100
	moist	1.8	115		wet excavated	1.6	110	Gypsum, broken	1.8	100
	wet	1.9	110	Topsoil		1.1	110	Coke	0.5	110
Gravel and sa	and, 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 cla	у	1.6	110	Basalt		1.95	100			

Tyres

NEW MARKET	Size and		Change of	Width over tyres	Change in vertical	
	tread code		operating weight		dimensions	Use
			kg	mm	mm	
L 550						
Goodyear	20.5R25 RT-3B	L3	- 560	2,660	- 40	Gravel
Goodyear	20.5R25 RL-5K	L5	+ 48	2,660	+ 3	Stone, Recycling
∕lichelin	20.5R25 XHA2	L3	- 580	2,650	- 40	Gravel
∕lichelin	20.5R25 XLD D2A	L5	- 148	2,650	– 14	Stone, Mining spoil
∕lichelin	20.5R25 X-MINE D2	L5	+ 120	2,660	0	Stone, Recycling
. 550/L 5	56					
Bridgestone	23.5R25 VJT	L3	+ 140	2,650	+ 6	Gravel
Bridgestone	23.5R25 VSDL	L5	+ 944	2,660	+ 70	Stone, Recycling
Goodyear	23.5R25 RL-5K	L5	+ 792	2,670	+ 60	Stone, Recycling
Goodyear	23.5R25 RT-3B	L3	+ 154	2,660	+ 25	Gravel
Goodyear	23.5R25 GP-4D	L4	+ 328	2,650	+ 20	Sand, Gravel, Industry
Goodyear	23.5R25 TL-3A+	L3	+ 284	2,650	+ 36	Gravel, Earthworks
/lichelin	23.5R25 XHA2	L3	0	2,650	0	Gravel
/lichelin	23.5R25 XLD D2A	L5	+ 612	2,660	+ 35	Stone, Mining spoil
/lichelin	23.5R25 X-MINE D2	L5	+ 760	2,670	+ 60	Stone, Recycling
. 566						
Bridgestone	23.5R25 VJT	L3	- 406	2,970	- 43	Gravel
Bridgestone	23.5R25 VSDL	L5	+ 400	2,970	+ 15	Stone, Recycling
Goodyear	23.5R25 RL-5K	L5	+ 248	2,980	+ 10	Stone, Recycling
/lichelin	23.5R25 X-MINE D2	L5	+ 216	2,990	+ 10	Stone, Recycling
/lichelin	23.5R25 XLD D2A	L5	+ 68	2,970	– 15	Stone, Mining spoil
/lichelin	23.5R25 XHA2	L3	- 544	2,970	- 49	Gravel
566/L 57	76/L 580					
Bridgestone	26.5R25 VJT	L3	+ 160	2,970	+ 15	Gravel
Bridgestone	26.5R25 VSDL	L5	+ 1,204	2,970	+ 60	Stone, Recycling
Goodyear	26.5R25 RL-5K	L5	+ 1,056	2,980	+ 60	Stone, Recycling
Goodyear	26.5R25 RT-3B	L3	+ 416	2,960	+ 25	Gravel
Goodyear	26.5R25 GP-4D	L4	+ 436	2,970	+ 27	Sand, Gravel, Industry
Goodyear	26.5R25 TL-3A+	L3	+ 348	2,970	+ 31	Gravel, Earthworks
1ichelin	26.5R25 XHA2	L3	0	2,970	0	Gravel
1ichelin	26.5R25 XLD D2A	L5	+ 696	2,970	+ 40	Stone, Mining spoil
1ichelin	26.5R25 X-MINE D2	L5	+ 1,092	2,990	+ 60	Stone, Recycling
586			,	,,,,,		
Bridgestone	29.5R25 VJT	L3	+ 82	3,250	+ 45	Gravel
Bridgestone	29.5R25 VSDL	L5	+ 1,408	3,260	+ 65	Stone, Scrap
Goodyear	29.5R25 RL5K	L5	+ 1,664	3,290	+ 60	Industry, Stone
1ichelin	29.5R25 XHA2	L3	0	3,250	0	Gravel
/lichelin	29.5R25 XLD D2A	L5	+ 896	3,260	+ 20	Stone, Mining spoil, Recycli
Michelin	29.5R25 X-Mine D2	L5	+ 1.220	3,280	+ 40	Stone, Scrap

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

The Liebherr Wheel Loaders

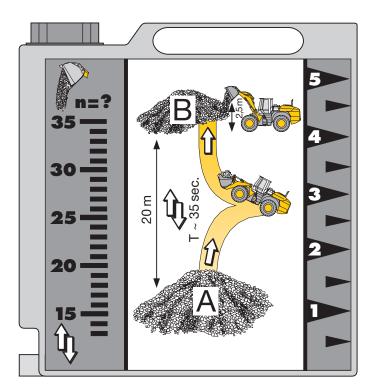
Stereoload	er						
		L 506steree	L 507 _{Steree}	L 508 _{Steree}	L 509steree	L 510steree	L 514steree
Tipping load	kg	3,231	3,501	3,824	4,225	4,581	5,680
Bucket capacity	m ³	0.8	0.9	1.0	1.1	1.2	1.5
Operating weight	kg	5,120	5,240	5,480	6,080	6,250	8,350
Engine output	kW/HP	46/63	48/65	48/65	60/82	60/82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

Wheel Loa	der					
		L 524	L 528	L 538	L 542	L 550
Tipping load	kg	7,300	8,100	9,020	9,760	11,650
Bucket capacity	m ³	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

				P		
Wheel Loa	der		POPO			
		L 556	L 566	L 576	L 580	L 586
Tipping load	kg	13,140	15,550	17,200	18,000	20,430
Bucket capacity	m ³	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

Environmental protection can help you earn money!



The Liebherr Standard Consumption Test - easy to reproduce and practical.

Every Liebherr dealer will provide you with this measuring-tank kit free of charge or, on request, will carry out the standard fuel consumption test on your premises. It's so easy: you simply determine the number of loading cycles that can be carried out with 5 litres of diesel. The material is taken from pile A and carried over a distance of 20 metres to point B. The time needed for each working cycle should be 35 seconds. Discharge at point B should take place from a height of 2.5 m. The working cycles continue until the 5 litres of diesel in the external measuring tank have been used up. The loader's fuel consumption per operating hour is calculated as follows:

 $\frac{400}{\text{Number of loading cycles}} = \frac{\text{consumption}}{\text{per hour}}$

rr Wheel Loade	rs	
Numbers of	Litres/	Litres/
working cycles	100 tons	hour
n = 44	3.2	9.1
n = 43	2.9	9.3
n = 36	2.9	11.1
n = 35	2.7	11.4
n = 31	2.6	12.9
n = 27	2.9	14.5
n = 22	2.9	18.2
n = 21	2.9	19.1
n = 20	2.8	20.0
n = 14	3.2	28.5*
	Numbers of working cycles n = 44 n = 43 n = 36 n = 35 n = 31 n = 27 n = 22 n = 21 n = 20	working cycles 100 tons n = 44 3.2 n = 43 2.9 n = 36 2.9 n = 35 2.7 n = 31 2.6 n = 27 2.9 n = 22 2.9 n = 21 2.9 n = 20 2.8

^{*} Equipped with L5 tires and 5.5 m³ HD bucket

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Equipment

Exhaust pipe – stainless steel Automatic central lubrication system Battery master switch Page 19 19 19 19 19 19 19 19 19 19 19 19 19	+ • + • + • • +
Automatic central lubrication system + + + + + + Battery master switch + + + + + + •	• + •
Battery master switch • • • •	+ + +
	+ + + +
	+
Fuel particle filter + + + + +	+
Electronic crowding force control	•
Electronical theft protection with/without driver identification + + + + + +	
Automatic travel mode	
Headlights • • • •	•
Ride control	•
Fluff trap for radiator + + + + +	+
Large-mesh radiator + + + + +	_
Pre-heat system for cold starting	•
Creep speed/Cruise control	•
Combined inching-braking system • • • •	•
Multi-disc limited slip differentials in both axles • • • •	•
Noise suppression package + + + + +	-
LiDAT Standard (Liebherr Data Transfer System) + + + + + +	+
LiDAT Plus (extended Liebherr Data Transfer System) + + + + +	+
Liebherr travel gear • • • • •	•
Liebherr bio degredable hydraulic oil + + + + +	+
Air cleaner system with pre-filter	•
Reversible fan drive + + + + +	+
Emergency steering system • • • •	•
Back-up alarm + + + + + +	+
Road ballast	_
Lockable doors, service flap and engine hood • • • •	•
Rubber widening for rear (in steel) and front mudguards	+
Toolbox with toolkit	•
Weighing device (integrated) + + + + +	+
Towing hitch • • • • •	•
Two working area lights at rear	•
Two tail lights • • • • •	•
20 km/h speed limiting + + + + +	+

Storage box Lockable storage compartment Ashtray Operator's package Operator's seat – adjustable in 6 ways Operator's seat adjustable in 6 ways Operator's seat with active suspension, with seat climate control and seat heating Operator's seat – ari sprung with seat heating Operator's seat – ari sprung with seat heating + + + + + + + + + + + + + + + + + + +							
Lockable storage compartment Ashtray Operator's package Operator's seat – adjustable in 6 ways Operator's seat with active suspension, with seat climate control and seat heating Operator's seat – air sprung with seat heating Cuperator's seat – air sprung with seat heating Operator's seat – air sprung with seat heating Operator's seat – air sprung with seat heating Cup holder Height-adjustable steering column Operator's seat – air sprung with seat heating Operator's seat – air sprung with seat climate Operator's seat – air sprung with seat climate Operator's seat – air sprung with seat climate Operator's seat view fill seat – + + + + + + + + + + + + + + + + + +	Operator's Cab	IO.	IO.	Ö	N	60	60
Lockable storage compartment Ashtray Operator's package Operator's seat – adjustable in 6 ways Operator's seat with active suspension, with seat climate control and seat heating Operator's seat – air sprung with seat heating Cuperator's seat – air sprung with seat heating Operator's seat – air sprung with seat heating Operator's seat – air sprung with seat heating Cup holder Height-adjustable steering column Operator's seat – air sprung with seat heating Operator's seat – air sprung with seat climate Operator's seat – air sprung with seat climate Operator's seat – air sprung with seat climate Operator's seat view fill seat – + + + + + + + + + + + + + + + + + +	Storage box	•	•	•	•	•	•
Ashtray Operator's package Operator's seat – adjustable in 6 ways Operator's seat – adjustable in 6 ways Operator's seat with active suspension, with seat climate control and seat heating Operator's seat – air sprung with seat heating Operator's seat – air sprung with seat heating Operator's seat – air sprung with seat climate control and seat heating Operator's seat – air sprung with seat heating + + + + + + + + + + + + + + + + + + +		•	•	•	•	•	•
Operator's package Operator's seat - adjustable in 6 ways Operator's seat with active suspension, with seat climate control and seat heating Operator's seat - air sprung with seat heating Operator's seat operatory Operatory seat of the sprund operato		•	•	•	•	•	•
Operator's seat – adjustable in 6 ways Operator's seat with active suspension, with seat climate control and seat heating Operator's seat – air sprung with seat heating Operator's seat with active suspension, with seat climate Operator's seat with active suspension Operator's seat active Operator's seat with active suspension Operator's seat with a		•	•	•	•	•	•
Operator's seat with active suspension, with seat climate control and seat heating Operator's seat – air sprung with seat heating + + + + + + + + + + + + + + + + + + +	Operator's seat – adjustable in 6 ways	•	•	•	•	•	•
Control and seat heating							
Fire extinguisher 2 kg Cup holder Height-adjustable steering column + + + + + + + + + + + + + + + + + + +	control and seat heating	_	-	+	+	+	+
Cup holder •	Operator's seat – air sprung with seat heating	+	+	+	+	+	+
Cup holder •		+	+	+	+	+	+
Hom		•	•	•	•	•	•
Hom	Height-adjustable steering column	+	+	+	+	+	+
Floor mat Clothes hook Air conditioning system Storage box with cooling function Liebherr joystick control – adjustable Radio set Rear view monitoring with camera Interior rear-view mirror Amber beacon Soundproof ROPS/FOPS cab with tinted safety glass front windscreen, heatable rear window Wash/wipe system for windscreen and rear window Wash/wipe system for windscreen and rear window Wilding window Wash wisor Dust filter system Plug 12 V First aid kit Acron working area lights front Wide angle mirror V		•	•	•	•	•	•
Floor mat Clothes hook Air conditioning system Storage box with cooling function Liebherr joystick control – adjustable Radio set Rear view monitoring with camera Interior rear-view mirror Amber beacon Soundproof ROPS/FOPS cab with tinted safety glass front windscreen, heatable rear window Wash/wipe system for windscreen and rear window Wash/wipe system for windscreen and rear window Wilding window Wash wisor Dust filter system Plug 12 V First aid kit Acron working area lights front Wide angle mirror V	Jovstick steering	+	+	+	+	+	+
Air conditioning system Storage box with cooling function LED operating spotlight, front/rear Liebherr joystick control – adjustable Radio set Provision for radio including loudspeaker Rear view monitoring with camera H + H + H + H + H + H + H + H + H + H		•	•	•	•	•	•
Storage box with cooling function +	Clothes hook	•	•	•	•	•	•
Storage box with cooling function +	Air conditioning system	•	•	•	•	•	•
LED operating spotlight, front/rear +		+	+	+	+	+	+
Liebherr joystick control – adjustable Radio set Radio set Radio set Rear view monitoring with camera Rear view monitoring with camera Rear view monitoring with camera Rear view mincor Ropes for set in the set		+	+	+	+	+	+
Radio set Radio set Radio set Rorvision for radio including loudspeaker Rear view monitoring with camera Interior rear-view mirror Amber beacon Soundproof ROPS/FOPS cab with tinted safety glass front windscreen, heatable rear window Wash/wipe system for windscreen and rear window Wash/wipe system for windscreen and rear window Vilding window Handle State Stat		•	•	•	•	•	•
Provision for radio including loudspeaker +		+	+	+	+	+	+
Rear view monitoring with camera	Provision for radio including loudspeaker	+	+	+			+
Interior rear-view mirror Amber beacon Soundproof ROPS/FOPS cab with tinted safety glass front windscreen, heatable rear window Wash/wipe system for windscreen and rear window Sliding window Protective ventilation system + + + + + + + + + + + + + + + + + + +							
Soundproof ROPS/FOPS cab with tinted safety glass front windscreen, heatable rear window Wash/wipe system for windscreen and rear window Sliding window Protective ventilation system + + + + + + + + + + + + + + + + + + +		•	•	•	•	•	•
windscreen, heatable rear window •	Amber beacon	+	+	+	+	+	+
Sliding window +							•
Protective ventilation system + <t< td=""><td>Wash/wipe system for windscreen and rear window</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td></t<>	Wash/wipe system for windscreen and rear window	•	•	•	•	•	•
Windscreen guard +	Sliding window	+	+	+	+	+	+
Sun visor •	Protective ventilation system	+	+	+	+	+	+
Dust filter system +	Windscreen guard	+	+	+	+	+	+
Plug 12 V First aid kit Adjustable steering column Four working area lights at front Hot water heater with defroster and recirculated-air system Wide angle mirror Xenon working lights front Two or four working area lights rear • • • • • • • • • • • • • • • • • • •	Sun visor	•	•	•	•	•	•
Plug 12 V First aid kit Adjustable steering column Four working area lights at front Hot water heater with defroster and recirculated-air system Wide angle mirror Xenon working lights front Two or four working area lights rear • • • • • • • • • • • • • • • • • • •	Dust filter system	+	+	+	+	+	+
First aid kit Adjustable steering column Four working area lights at front Hot water heater with defroster and recirculated-air system Wide angle mirror Xenon working lights front Two or four working area lights rear + + + + + + + + + + + + + + + + + + +		•	•	•	•	•	•
Adjustable steering column Four working area lights at front Hot water heater with defroster and recirculated-air system Wide angle mirror Xenon working lights front Two or four working area lights rear • • • • • • • • • • • • • • • • • • •		+	+	+	+	+	+
Four working area lights at front Hot water heater with defroster and recirculated-air system Wide angle mirror Xenon working lights front Two or four working area lights rear + + + + + + + + + + + + + + + + + + +	Adjustable steering column	•					
Hot water heater with defroster and recirculated-air system Wide angle mirror Xenon working lights front Two or four working area lights rear + + + + + + + + + + + + + + + + + + +		•	•	•	•	•	•
Wide angle mirror +		•	•	•	•	•	•
Xenon working lights front + </td <td></td> <td>+</td> <td>+</td> <td>+</td> <td>+</td> <td>+</td> <td>+</td>		+	+	+	+	+	+
Two or four working area lights rear + + + + + + +							
	2in1 steering system – changeable	+	+	+	+	+	_

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47)	10	10	II)	10
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
	IU.	רט רט		

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

 $\label{eq:local_equipment} \textbf{All illustrations} \ \text{and} \ \text{data may differ from standard equipment.} \ \textbf{Subject to change without notice}.$

Rev. counter	•	•	•	•	•	•
Forward – reverse travel	•	•	•	•	•	•
Travel speed ranges and gear selected	•	•	•	•	•	•
High-beam headlights	•	•	•	•	•	•
Fuel reserve	•	•	•	•	•	•
Engine oil temperature	•	•	•	•	•	•
Reverse travel	•	•	•	•	•	•
Speedometer	•	•	•	•	•	•
Clock	•	•	•	•	•	•
Diesel engine pre-heat	•	•	•	•	•	•
Forward travel	•	•	•	•	•	•

NE SECTION OF THE SEC						
Warning Lights for:	550	556	266	576	580	586
Battery charge	•	•	•	•	•	•
Flow through emergency steering system	•	•	•	•	•	•
Parking brake	•	•	•	•	•	•
Hydraulic oil temperature	•	•	•	•	•	•
Air cleaner blockage	•	•	•	•	•	•
Engine oil pressure	•	•	•	•	•	•
Engine overheat	•	•	•	•	•	•

Audible						
Warnings for:	550	556	266	576	280	586
Overheat of hydraulic fluid	•	•	•	•	•	•
Engine oil pressure	•	•	•	•	•	•
Engine overheat	•	•	•	•	•	•
Emergency steering system	•	•	•	•	•	•

Function Keys for:	550	556	566	576	580	586
Working lights rear	•	•	•	•	•	•
Working lights front	•	•	•	•	•	•
Electronic tractive force adaptation	•	•	•	•	•	•
Speed range selection	•	•	•	•	•	•
Headlights	•	•	•	•	•	•
Ride control	•	•	•	•	•	•
Parking brake	•	•	•	•	•	•
Blower	•	•	•	•	•	•
Heater	•	•	•	•	•	•
Hoist kick-out	+	+	+	+	+	+
Air conditioning	•	•	•	•	•	•
Creep speed	•	•	•	•	•	•
Mode switch	•	•	•	•	•	•
Amber beacon	•	•	•	•	•	•
Automatic bucket positioner	•	•	•	•	•	•
Wash/wipe system for rear window	•	•	•	•	•	•
Float position	•	•	•	•	•	•
Road travel	•	•	•	•	•	•
Hazard warning flashers	•	•	•	•	•	•
Additional hydraulics	•	•	•	•	•	•

Equipment	550	556	566	576	580	586
Automatic hoist kick out – adjustable	+	+	+	+	+	+
Automatic bucket positioner – adjustable	•	•	•	•	•	•
Fork carrier and lift forks	+	+	+	+	+	+
High Lift arms	+	+	+	+	+	+
High-dump bucket	+	+	+	+	+	+
Log Grapple	+	+	+	+	+	+
Hydraulic quick-change device	+	+	+	+	+	+
Hydraulic servo control of working hydraulics	•	•	•	•	•	•
Industrial lift arm	+	+	+	+	+	_
Comfort control	+	+	+	+	+	+
Loading buckets with and without teeth, or bolt-on cutting edge	+	+	+	+	+	+
Country-specific versions	+	+	+	+	+	+
Light material bucket	+	+	+	+	+	+
Float position	•	•	•	•	•	•
Z-bar linkage	•	•	•	•	•	•
3rd hydraulic control circuit	+	+	+	+	+	+
3rd and 4th hydraulic control circuits	+	+	+	+	+	+