

Wheel Loaders

L 524 - L 542

Tipping load, articulated: 7,500 kg – 10,200 kg



**New
Generation**

LIEBHERR

L 524

Tipping load, articulated: 7,500 kg
Bucket capacity: 2.1 m³
Operating weight: 10,400 kg
Engine output: 90 kW

L 528

Tipping load, articulated: 8,500 kg
Bucket capacity: 2.3 m³
Operating weight: 10,900 kg
Engine output: 100 kW

L 538

Tipping load, articulated: 9,500 kg
Bucket capacity: 2.6 m³
Operating weight: 12,800 kg
Engine output: 115 kW

L 542

Tipping load, articulated: 10,200 kg
Bucket capacity: 2.8 m³
Operating weight: 13,400 kg
Engine output: 120 kW



Economy

Compared to conventional transmission systems, the hydrostatic driveline with Liebherr Power Efficiency achieves a reduction in fuel consumption for wheel loaders of up to 25%. This reduces operating costs and environmental pollution.

Performance

The Liebherr driveline allows different orientation for the diesel engine. In this wheel loader class, the diesel engine is rotated through 90° and mounted transverse to the direction of travel. 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.

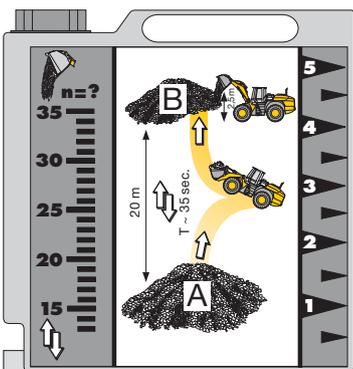
Reliability

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

Comfort

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

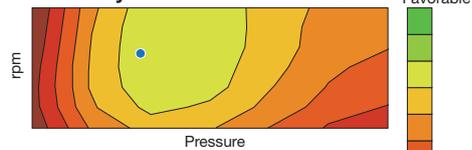




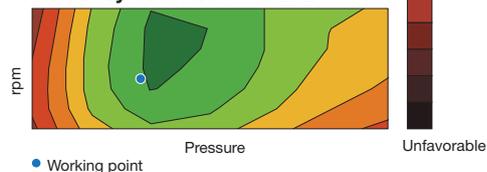
Fuel efficiency

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

Efficiency behaviour without LPE



Efficiency behaviour with LPE



• Working point



Economy

Compared to conventional transmission systems, the hydrostatic driveline with Liebherr Power Efficiency achieves a reduction in fuel consumption for wheel loaders of up to 25%. This reduces operating costs and environmental pollution.

Low operating costs

Minimum costs, high handling capacity

When it comes to economy, conventional wheel loaders are no match for Liebherr machines, mainly due to the following factors:

- Low fuel consumption thanks to higher efficiency and low operating weight. Liebherr wheel loaders use up to 5 litres less fuel per operating hour in the same working conditions. Thanks to the newly developed Liebherr Power Efficiency system the generation IIIB wheel loaders L 524 – L 542 use up to 8% less fuel compared to their predecessors.
- Hardly any brake wear due to the hydraulic braking action of the driveline and therefore minimal repair costs.
- Reduced tyre wear due 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 (CO₂). By saving up to 5 litres per operating hour, up to 15,000 kg less CO₂ is produced in 1,000 operating hours – that means lower costs and active environmental protection.

Low noise emissions

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

Liebherr-Power-Efficiency (LPE)

- The newly developed system known as Liebherr Power Efficiency (LPE) optimises the interaction between the drive components, and therefore also optimises the position of the working point in the characteristic map with regard to the degree of efficiency.
- LPE saves up to an additional 8% in fuel compared to wheel loaders where the system is not used.

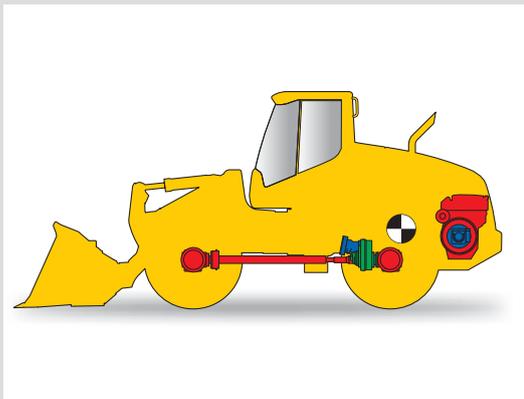


Reduced tyre wear

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

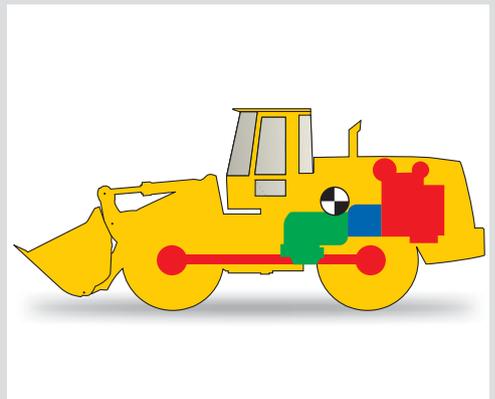
Reduced brake wear

- 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.



Liebherr driveline

- Optimum weight distribution due to transverse installation of the diesel engine.
- The diesel engine as well as the variable displacement pumps mounted 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 different orientation for the diesel engine. In this wheel loader class, the diesel engine is rotated through 90° and mounted transverse to the direction of travel. 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 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 parallel linkage is available as an alternative to the standard Z-bar linkage, at no additional cost. The parallel linkage features a parallel guide arrangement and high torque in the upper lifting range - ideal properties for attaching larger, heavier equipment and transporting heavy loads. With its parallel linkage Liebherr offers a continuous and uniform solution for industrial operations over the entire range of Allround wheel loaders. With their compact design, Liebherr wheel loaders can manoeuvre quickly and efficiently - the best choice for high handling capacity.

Power All-Rounders for industry The new generation IIIB / Tier 4i Allround wheel loader models have been specially developed for industrial use in terms of their performance and stability and ensure even higher productivity and efficiency. In addition to increasing the engine performance, the tipping loads of the whole range have been increased. Furthermore the steel structure has been reinforced and the hydraulic system's performance enhanced. That, together with the wide range of equipment available makes these Allround loaders the perfect solution for all industrial uses.



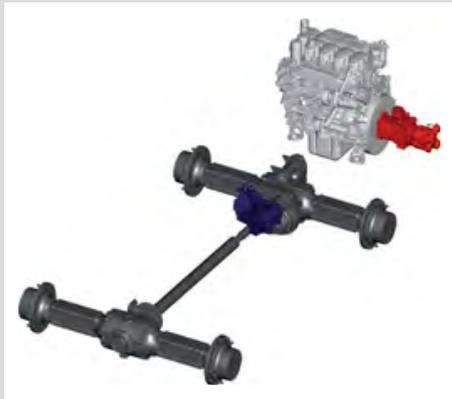
Conventional travel gear

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



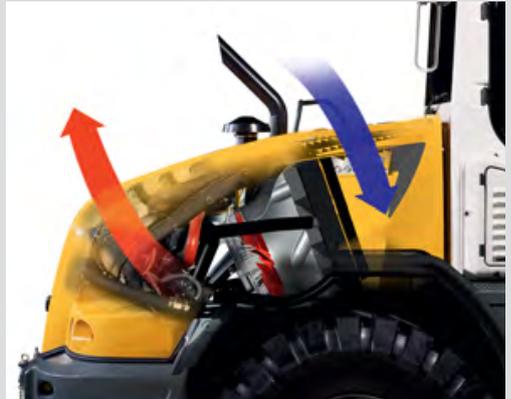
An all-purpose loader

- The choice between parallel (P) and Z-bar linkage means that the loader can always be configured to suit the customer's specific tasks: P for industrial use, 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 – without a manual gear shift and 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 in even the toughest conditions. The mature concept and proven quality make Liebherr wheel loaders the benchmark of 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 to wear and tear.

Controlled cooling

The intelligent answer

The cooling fan is driven independently from the 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 increases to maximum output to prevent the engine from overheating.

Components to the manufacturer's quality standards

Everything from a single source

Important components such as the hydraulic rams and electronics are developed by Liebherr. This ensures coordinated quality from the manufacturer down to the smallest detail. Liebherr components guarantee maximum performance and reliability.

Optimised engine technology

As well as further developments towards greater environmental compatibility, the new generation of diesel engines has been optimised in a number of other respects. In addition to Common Rail technology a diesel particle filter with oxidation catalytic converter reduces pollutant emissions. With active regeneration, in most operational circumstances this filtration process can also undergo deposit scavenging, which means that work can continue without interruption.



Cooling system

- The radiator is installed on the rear section of the vehicle, between the diesel engine and the cabin. Cooling air is drawn in directly behind the cabin 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.



Diesel engine

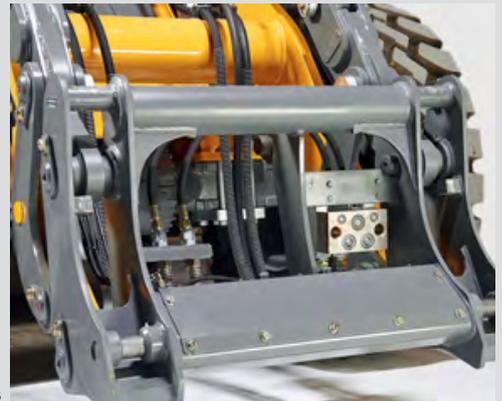
- Common Rail technology optimises the combustion process and therefore reduces emissions.
- Further reduction of particle emissions due to the diesel particle filter with oxidation catalytic converter. Active regeneration ensures efficient, uninterrupted work.
- Proactive intervention of Liebherr Power Efficiency (LPE) in the engine management to increase efficiency.



Liebherr control lever

- The Liebherr control lever is used to manage all travel and working movements of the wheel loader. This ensures the operator's left hand always remains on the steering wheel and therefore increases safety. The operator controls the following functions with his right hand:

- Raise and lower attachment
- Tilt and crowd
- Automatic bucket return to dig
- Change of travel direction with simultaneous travel start
- Auxiliary control buttons for additional hydraulic functions





Comfort

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

Top-class cabin design

Comfort cabin

The ultra-modern, ergonomically planned cabin design is the basis for increased performance and productivity of the operator. The displays, controls and operator's seat are carefully coordinated to form a perfect ergonomic unit. The high proportion of glass in the cab makes for excellent all-round visibility, thus ensuring maximum safety.

Liebherr control lever

All the working and travel functions are operated precisely and sensitively from a single control lever. This ensures accurate and safe handling, and the left hand always remains on the steering wheel. Safety at the job site is therefore increased.

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.

Liebherr Power Efficiency

Liebherr Power Efficiency (LPE) optimises the efficiency and effectiveness of the travel drive, which places less stress on the components. The operator actuates the accelerator pedal in the usual way, and obtains the full desired power performance. The machine software takes the electronic signal from the pedal and calculates the most efficient way of putting the drive command into practice, by making a proactive intervention into the engine management system. The usual high performance as well as the drive behaviour of the machine as a whole remain unchanged. If anything, the response is even faster.

LIKUFIX

Time saving increasing productivity

LIKUFIX is a hydraulic quick-hitch with an integral automated hydraulic coupling system, which is available as an option. This system developed by Liebherr allows equipment with hydraulic functions to be changed from the cab in a matter of seconds.

LIKUFIX

- Equipment with hydraulic functions can be changed from the cab in a matter of seconds.
- No need to climb out and connect everything mechanically: both picking up the equipment and connecting the hydraulic hoses is fully automatic - safe and with no oil leaks.
- The convenience and time savings speak for themselves: LIKUFIX increases the capacity of the wheel loader and thus also increases its efficiency.



Powerful air-conditioning system

- An air-conditioning system is available as an option for the Allround wheel loaders and provides the greatest operator comfort for higher productivity.
 - The air flow is controlled at 4 different levels – an automatic air-conditioning system is available as an optional extra.
- Air flow in the feet area
 - Defroster
 - Air flow in the head area
 - Air flow in the body area



Service accessibility

- The transverse engine facilitates maintenance. Opening a single cover allows safe and convenient access to all maintenance points from ground level.

Service/Maintenance

LiDAT

Efficient management

With LiDAT, Liebherr's own data transmission and positioning system, you can manage, monitor and control your entire fleet efficiently. LiDAT allows you to access machine data records, perform data analysis, and review service records within the fleet management system. All machine data can be accessed at anytime simply, via the internet. The system provides you with comprehensive documentation about operating hours, increased availability through shorter downtimes, and faster support from the manufacturer. There is also faster detection of stress and overloading, which extends the machine's service life to provide more efficient planning for your company. The LiDAT service, including 1 year's free use, is standard for the L 524 – L 542 wheel loaders.

Diagnostic and remote maintenance

Consistent controls across the product range

The electronic controller of the Allround loaders has been designed to suit the large size class. This provides a wide range of options such as the convenient touchscreen, the integral rear area monitoring camera and the newly developed Liebherr weighing device. The new electronic system permits standard diagnostic and remote maintenance over the range of machines and thus provides clear benefits in everyday use.

Service accessibility

Easy maintenance

With the unique position of the diesel engine, Liebherr wheel loaders provide outstanding accessibility for maintenance. The positioning of the cooling system directly behind the cab results in less contamination, which in turn reduces maintenance and cleaning; a clear benefit which saves time and money.

All the points for daily maintenance can be reached from ground level. Cleaning of the cooling system is carried out while standing on the machine, anti-slip step surfaces and strong handrails in the access area ensure a high standard of safety.



Electronics

- Standard diagnostic and remote maintenance
- Full version of LiDAT including 1 year's free use as standard
- Optional touchscreen
- Optional Liebherr rear area monitoring camera and weighing device - integrated in the color touchscreen

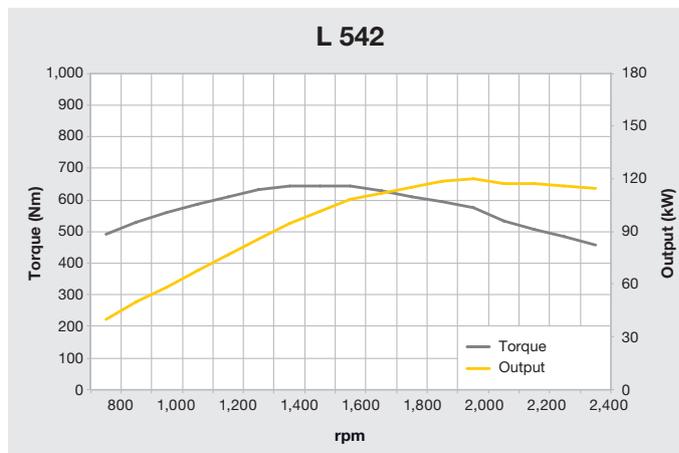
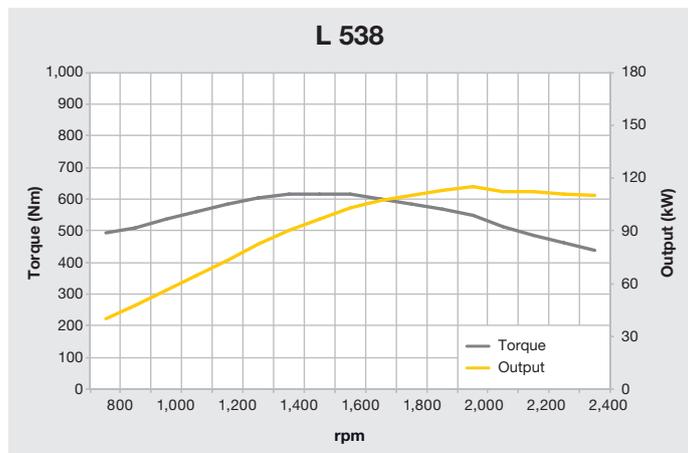
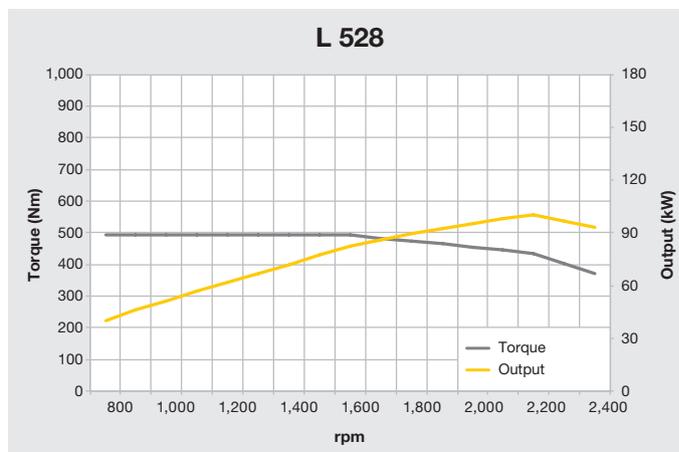
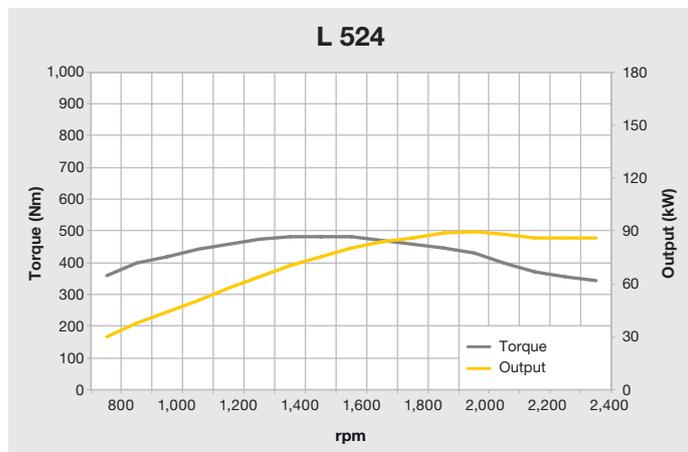
Technical Data



Engine L 524 L 528 L 538 L 542

Diesel engine	4045HFL92 4045HFL93 4045HFL93 4045HFL93			
Design	water-cooled with exhaust turbo charging, externally cooled exhaust gas recirculation and diesel particulate filter			
Cylinder inline	4	4	4	4
Fuel injection process	electronic Common Rail high-pressure injection			
Max. output according to DIN/ISO 3046	kW 90			
	at RPM 2,000	2,200	2,000	2,000
Max. torque	Nm 480			
	at RPM 1,600	1,600	1,600	1,600
Displacement	litres 4.5			
Bore/Stroke	mm 106/127			
Air cleaner system	Dry air filter with main and safety element, pre-cleaner, service indicator on LCD display			
Electrical system	Operating voltage V 24			
	Battery Ah 2 x 135	2 x 135	2 x 135	2 x 135
	Alternator V/A 24/100	24/100	24/100	24/100
	Starter V/kW 24/7.8	24/7.8	24/7.8	24/7.8

The exhaust emissions are below the limits in stage IIIB / Tier 4i.



Technical Data



Travel Drive

Stepless hydrostatic travel drive

Design _____ Swash plate type variable flow pump and two variable axial piston motors in closed loop circuit and axle transfer case. Direction of travel is reversed by changing the flow-direction of the variable-displacement pump

Filtering system _____ Suction return line filter for closed circuit

Control _____ By travel and inching pedal. The inching pedal makes it possible to control the tractive and thrust forces steplessly at full engine speed. The Liebherr joystick is used to control forward and reverse travel

Travel speed range _____ Speed range 1 _____ 0 – 6.0 km/h
 Speed range A1-2 _____ 0 – 16.0 km/h
 Speed range A1-3 _____ 0 – 40.0 km/h
 The quoted speeds apply with the tyres that are standard equipment on the loader.



Axles

Four-wheel drive

Front axle _____ Fixed

Rear axle _____ Centre pivot, with 10° oscillating angle to each side. 470 mm in height can be driven over (with all four wheels remain in contact with the ground)

Differentials _____ Automatic limited-slip differentials with 45% locking action in both axles

Reduction gear _____ Planetary final drive in wheel hubs

Track width _____ 1,960 mm with all types of tyres (L 524, L 528)
 1,900 mm with all types of tyres (L 538, L 542)



Brakes

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

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

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



Steering

Design _____ „Load-sensing“ swash plate type variable flow pump with pressure cut-off and flow control. Central pivot with two double-acting steering cylinders

Articulation angle _____ 40° (to each side)

Emergency steering _____ Electro-hydraulic emergency steering system



Attachment Hydraulics

Design _____ „Load-Sensing“ variable axial piston pump with output and flow control, and pressure cut-off in the control block

Cooling _____ Hydraulic oil cooling using thermostatically controlled fan and oil cooler

Filtration _____ Return line filter in the hydraulic reservoir

Control _____ „Liebherr joystick“ with hydrostatic servo control

Lift circuit _____ Lifting, neutral, lowering and float position controlled by Liebherr joystick with detent; automatic hoist kick out optional

Tilt circuit _____ Tilt back, neutral, dump automatic bucket return to dig

	L 524	L 528	L 538	L 542
Max. flow _____ l/min.	102	136	170	170
Max. pressure _____ bar	315	330	350	350



Attachment

Geometry can be chosen _____ Powerful Z-bar linkage with one tilt cylinder, hydraulic quick-hitch – optional equipment; Parallel linkage with two tilt cylinders, hydraulic quick-hitch – standard equipment

Bearings _____ Sealed

Cycle time at nominal load _____

	L 524		L 528		L 538		L 542	
	ZK	PK	ZK	PK	ZK	PK	ZK	PK
Lifting _____	6.6 s	6.6 s	5.4 s	5.4 s	5.3 s	5.3 s	5.3 s	5.3 s
Dumping _____	1.8 s	3.5 s	1.8 s	3.5 s	1.6 s	3.5 s	1.6 s	3.5 s
Lowering (empty) _____	4.0 s							



Operator's Cab

Design _____ On elastic bearing on rear section, soundproof ROPS/FOPS cab. Operator's door with optional fold-out window, 105° opening angle, ventilation opening on the right side, 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, heated rear window (ESG) ROPS roll over protection per EN/ISO 3471/EN 474-1 FOPS falling objects protection per EN/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 (mechanically sprung)

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 / automatic air conditioning system optional



Noise Emission

	L 524	L 528	L 538	L 542
ISO 6396				
L_{pA} (inside cab) _____	69 dB(A)	69 dB(A)	69 dB(A)	69 dB(A)
2000/14/EG				
L_{WA} (surround noise) _____	101 dB(A)	101 dB(A)	102 dB(A)	102 dB(A)

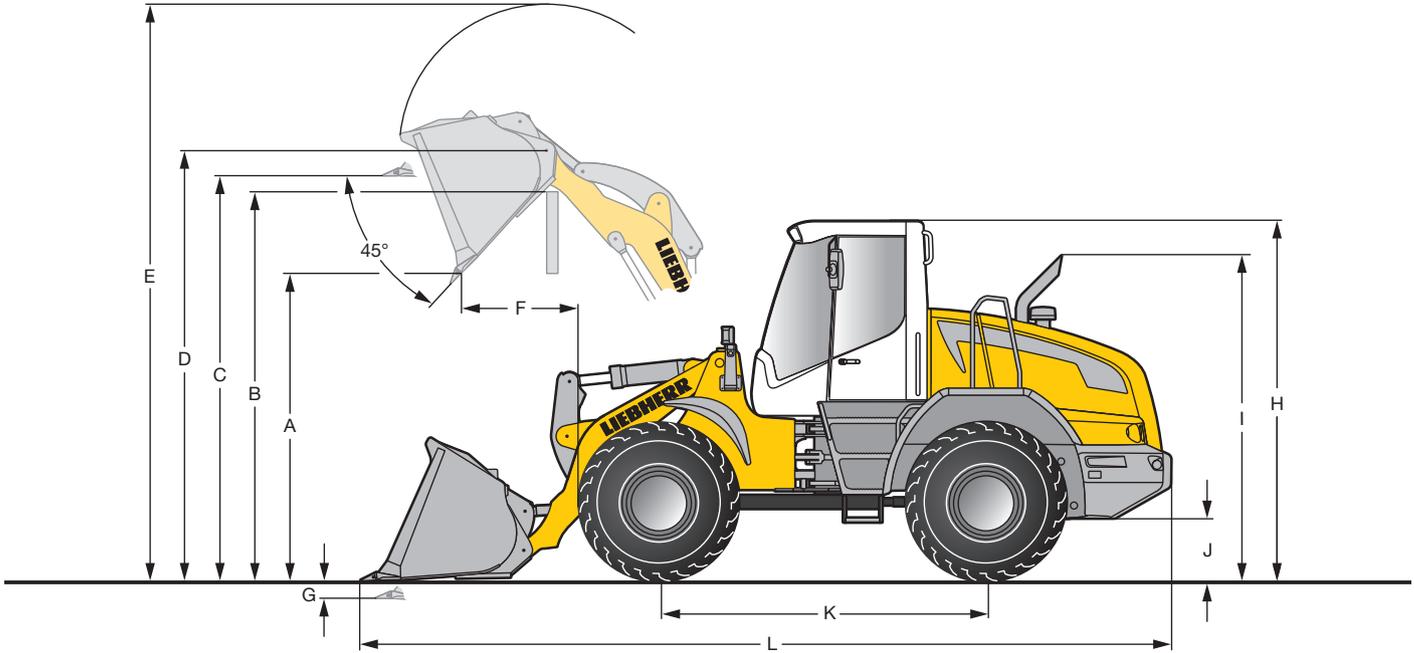


Capacities

	L 524	L 528	L 538	L 542
Fuel tank (plastic design) _____	205	205	205	205
Fuel tank (steel version, optional) _____	220	220	220	220
Engine oil (inclusive filter change) _____	14.7	20.5	20.5	20.5
Transmission _____	3.8	3.8	3.8	3.8
Coolant _____	38	38	38	38
Front axle/wheel hubs _____	16.3/2.6	16.3/2.6	16.3/2.6	16.3/2.6
Rear axle/wheel hubs _____	15/2.6	15/2.6	15/2.6	15/2.6
Hydraulic tank _____	110	110	110	110
Hydraulic system, total _____	170	170	180	180

Dimensions

Z-bar linkage



Loading Bucket

		L 524			L 528			L 538			L 542		
		ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK	
Geometry		ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK	ZK	
Bucket type		GPB	STD-QH	LMB									
Cutting tools		T	T	BOCE									
Lift arm length	mm	2,400	2,400	2,400	2,400	2,400	2,400	2,500	2,500	2,500	2,500	2,500	2,500
Bucket capacity according to ISO 7546**	m ³	2.1	1.8	2.4	2.3	2.1	3.0	2.6	2.3	3.5	2.8	2.5	4.0
Bucket width	mm	2,500	2,500	2,500	2,500	2,500	2,700	2,500	2,500	2,700	2,500	2,500	2,700
A Dumping height at max. lift height	mm	2,845	2,723	2,660	2,780	2,700	2,550	2,845	2,750	2,606	2,825	2,710	2,505
B Dump-over height	mm	3,335	3,320	3,320	3,335	3,320	3,330	3,480	3,475	3,475	3,480	3,480	3,476
C Max. height of bucket bottom	mm	3,530	3,530	3,525	3,530	3,530	3,531	3,680	3,680	3,681	3,680	3,680	3,688
D Max. height of bucket pivot point	mm	3,775	3,775	3,775	3,775	3,775	3,775	3,930	3,930	3,928	3,930	3,930	3,930
E Max. operating height	mm	4,940	4,965	5,160	4,990	5,030	5,230	5,220	5,325	5,530	5,270	5,380	5,590
F Reach at max. lift height	mm	875	942	1,075	955	980	1,120	1,015	1,035	1,165	1,025	1,080	1,265
G Digging depth	mm	80	80	80	80	80	80	80	80	80	80	80	80
H Height above cab	mm	3,200	3,200	3,200	3,200	3,200	3,200	3,250	3,250	3,250	3,250	3,250	3,250
I Height above exhaust	mm	2,860	2,860	2,860	2,860	2,860	2,860	2,910	2,910	2,910	2,910	2,910	2,910
J Ground clearance	mm	460	460	460	460	460	460	490	490	490	490	490	490
K Wheelbase	mm	2,850	2,850	2,850	2,850	2,850	2,850	2,975	2,975	2,975	2,975	2,975	2,975
L Overall length	mm	6,820	6,935	7,345	6,930	7,035	7,240	7,150	7,280	7,605	7,225	7,335	7,695
Turning circle radius over outside bucket edge	mm	5,690	5,720	5,760	5,790	5,810	5,840	6,060	6,095	6,115	6,080	6,140	6,200
Breakout force (SAE)	kN	91	82	68	89	81	68	117	109	101	114	103	85
Tipping load, straight *	kg	8,500	7,900	7,430	9,560	8,650	8,490	10,700	10,200	9,570	11,600	10,700	10,400
Tipping load, articulated at 40° *	kg	7,500	7,000	6,540	8,500	7,720	7,510	9,500	9,000	8,420	10,200	9,500	9,100
Operating weight*	kg	10,400	10,800	11,100	10,900	11,300	11,500	12,800	13,200	13,400	13,400	13,800	14,000
Tyre sizes		17.5R25 L3			17.5R25 L3			20.5R25 L3			20.5R25 L3		

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

** Actual bucket capacity may be approx. 10% larger than the calculation according to ISO 7546 standard. The degree to which the bucket can be filled depends on the material – see page 21.

GPB = General purpose bucket (Rehandling bucket)

STD-QH = General purpose bucket (Rehandling bucket) for quick-hitch

LMB = Light Material Bucket

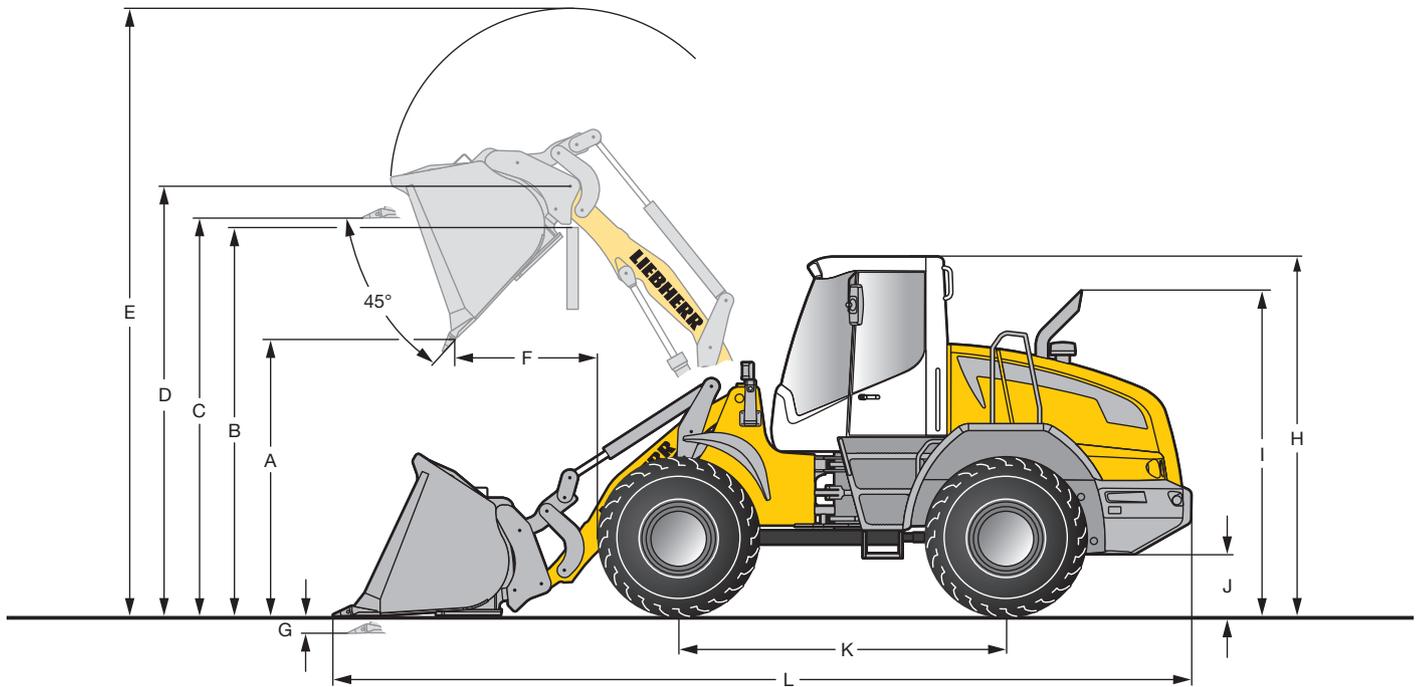
T = Welded-on tooth holder with add-on teeth

ZK = Z-bar linkage

BOCE = Bolt-on cutting edge

Dimensions

Parallel Linkage



Loading Bucket	L 524		L 528		L 538		L 542	
	STD	HL	STD	HL	STD	HL	STD	HL
Geometry	PK	PK	PK	PK	PK	PK	PK	PK
Cutting tools	T	T	T	T	T	T	T	T
Lift arm length	mm 2,500	3,000	2,500	3,000	2,500	3,000	2,500	3,000
Bucket capacity according to ISO 7546** m ³	1.8	1.8	2.1	2.1	2.3	2.3	2.5	2.5
Bucket width	mm 2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
A Dumping height at max. lift height	mm 2,805	3,410	2,765	3,375	2,750	3,350	2,700	3,305
B Dump-over height	mm 3,370	3,985	3,370	3,990	3,430	4,040	3,430	4,040
C Max. height of bucket bottom	mm 3,590	4,200	3,590	4,200	3,640	4,260	3,640	4,260
D Max. height of bucket pivot point	mm 3,830	4,450	3,830	4,450	3,890	4,510	3,890	4,510
E Max. operating height	mm 5,030	5,645	4,985	5,710	5,285	5,905	5,345	5,965
F Reach at max. lift height	mm 1,050	1,015	1,090	1,050	1,080	1,050	1,120	1,100
G Digging depth	mm 61	85	55	85	55	25	55	25
H Height above cab	mm 3,200	3,200	3,200	3,200	3,250	3,250	3,250	3,250
I Height above exhaust	mm 2,860	2,860	2,860	2,860	2,910	2,910	2,910	2,910
J Ground clearance	mm 460	460	460	460	490	490	490	490
K Wheelbase	mm 2,850	2,850	2,850	2,850	2,975	2,975	2,975	2,975
L Overall length	mm 7,150	7,775	7,170	7,800	7,315	7,990	7,350	8,060
Turning circle radius over outside bucket edge	mm 5,780	6,060	5,860	6,040	6,115	6,400	6,150	6,430
Breakout force (SAE)	kN 81	82	80	80	112	113	107	108
Tipping load, straight *	kg 8,300	6,350	9,300	7,150	10,300	8,080	10,920	8,650
Tipping load, articulated at 40° *	kg 7,350	5,600	8,200	6,300	9,100	7,140	9,750	7,620
Operating weight *	kg 11,500	11,900	12,300	12,690	13,380	13,750	13,800	14,160
Tyre sizes	17.5R25 L3		17.5R25 L3		20.5R25 L3		20.5R25 L3	

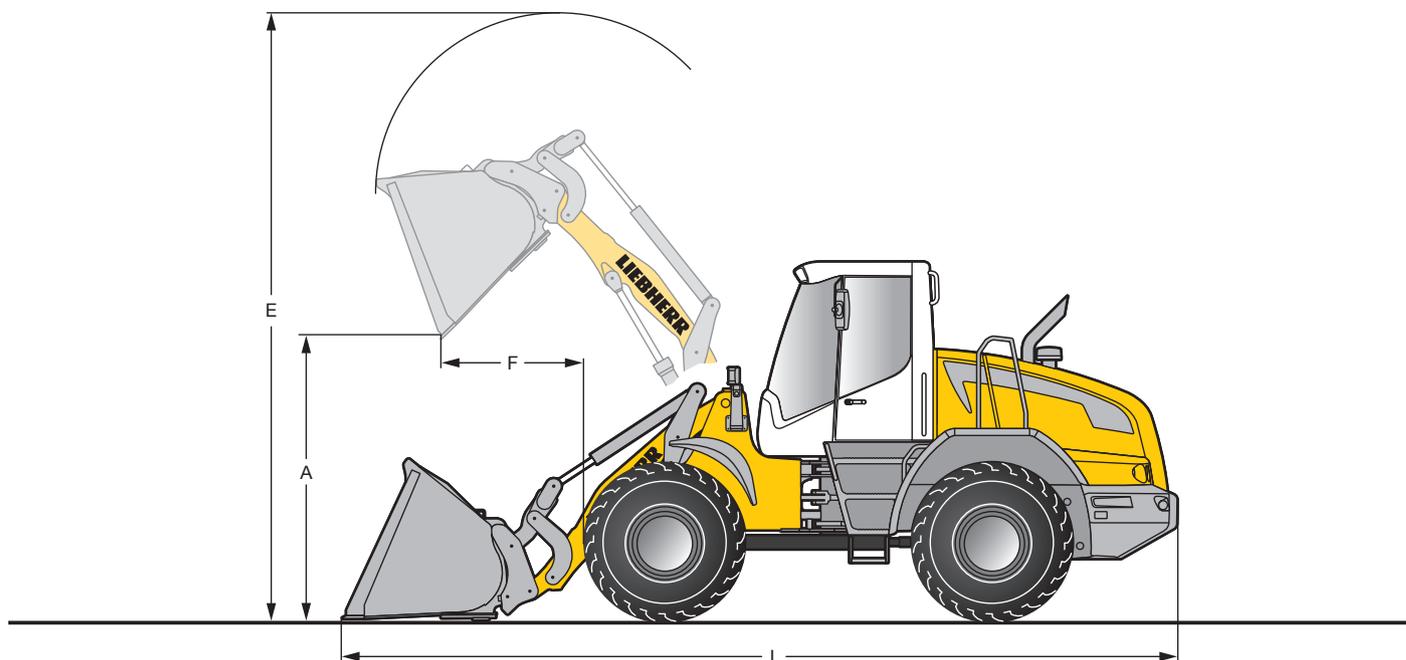
* The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. (Tipping load, articulated at 40° according to ISO 14397-1)

** Actual bucket capacity may be approx. 10% larger than the calculation according to ISO 7546 standard. The degree to which the bucket can be filled depends on the material – see page 21.

-  = Rehandling bucket for quick-hitch
- STD = Standard lift arm length
- HL = High Lift
- PK = Parallel linkage including quick-hitch
- T = Welded-on tooth holder with add-on teeth

Attachment

Light Material Bucket



heavy material density		L 524		L 528		L 538		L 542	
		STD	HL	STD	HL	STD	HL	STD	HL
	Geometry	PK	PK	PK	PK	PK	PK	PK	PK
	Cutting tools	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE
	Bucket capacity	m ³ 3.0	2.5	3.5	3.0	4.0	3.5	4.5	4.0
	Bucket width	mm 2,700	2,500	2,700	2,700	2,700	2,700	2,750	2,700
A	Dumping height at max. lift height	mm 2,630	3,246	2,550	3,232	2,520	3,175	2,450	3,112
E	Max. operating height	mm 5,290	5,850	5,440	5,905	5,460	6,158	5,560	6,168
F	Reach at maximum lift height	mm 1,220	1,190	1,305	1,206	1,300	1,231	1,370	1,292
L	Overall length	mm 7,355	7,995	7,475	8,016	7,765	8,365	7,865	8,498
	Tipping load, straight *	kg 7,920	5,900	8,970	6,850	9,900	7,730	11,540	8,360
	Tipping load, articulated at 40° *	kg 6,980	5,200	7,920	6,050	8,730	6,820	9,290	7,379
	Operating weight *	kg 11,800	12,270	12,500	12,915	13,600	14,040	14,140	14,360
	Tyre sizes	17.5R25 L3		17.5R25 L3		20.5R25 L3		20.5R25 L3	

light material density		L 524		L 528		L 538		L 542	
		STD	HL	STD	HL	STD	HL	STD	HL
	Geometry	PK	PK	PK	PK	PK	PK	PK	PK
	Cutting tools	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE
	Bucket capacity	m ³ 5.5	4.0	6.0	4.5	6.5	5.0	7.0	5.5
	Bucket width	mm 2,750	2,750	2,750	2,750	2,750	2,750	2,750	2,750
A	Dumping height at max. lift height	mm 2,230	3,050	2,185	2,980	2,185	2,960	2,135	2,855
E	Max. operating height	mm 5,670	5,950	5,450	6,050	5,925	6,140	5,980	6,250
F	Reach at maximum lift height	mm 1,630	1,355	1,680	1,425	1,650	1,404	1,700	1,505
L	Overall length	mm 7,930	8,265	8,000	8,365	8,250	8,635	8,320	8,780
	Tipping load, straight *	kg 7,330	5,760	8,340	6,610	9,400	7,600	10,060	8,090
	Tipping load, articulated at 40° *	kg 6,470	5,090	7,370	5,840	8,300	6,700	8,870	7,130
	Operating weight *	kg 12,200	12,400	12,900	13,100	13,950	14,150	14,420	14,630
	Tyre sizes	17.5R25 L3		17.5R25 L3		20.5R25 L3		20.5R25 L3	

* The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. (Tipping load, articulated at 40° according to ISO 14397-1)

STD = Standard lift arm length

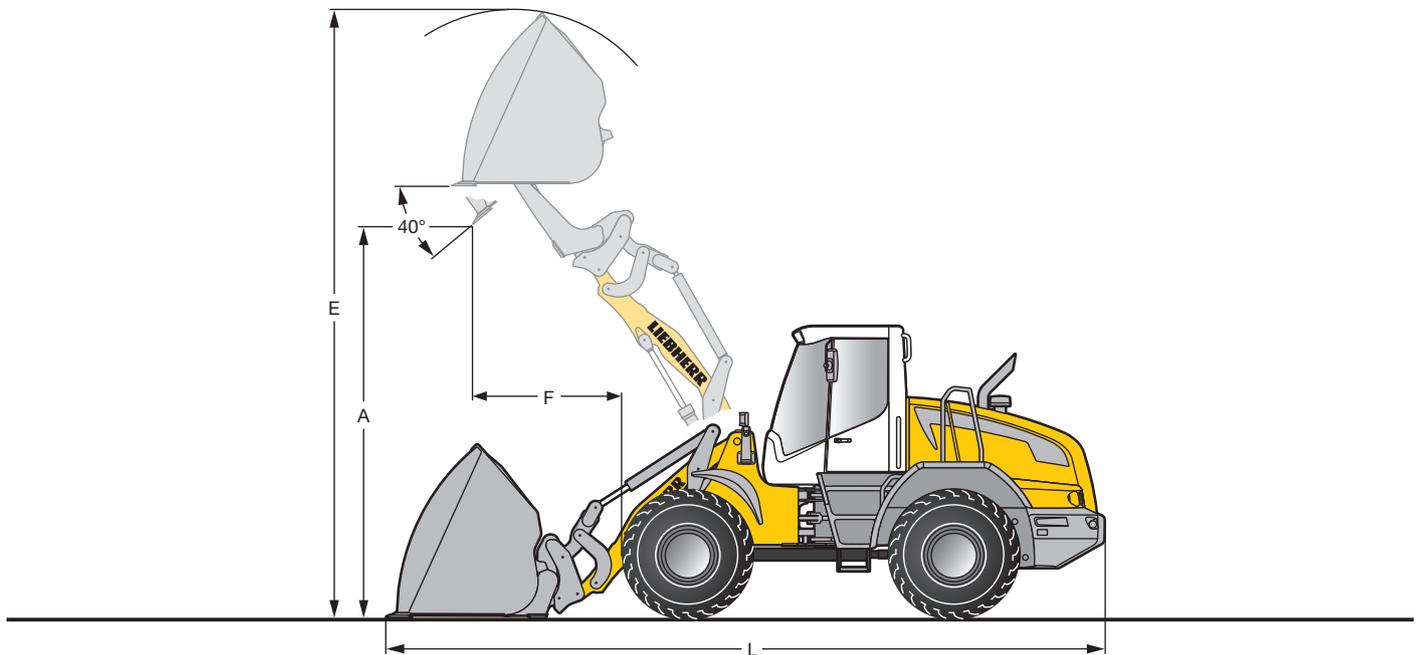
PK = Parallel linkage including quick-hitch

HL = High Lift

BOCE = Bolt-on cutting edge

Attachment

High-Dump Bucket



heavy material density		L 524		L 528		L 538		L 542	
		STD	HL	STD	HL	STD	HL	STD	HL
Geometry		PK	PK	PK	PK	PK	PK	PK	PK
Cutting tools		BOCE	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE
Bucket capacity	m ³	3.0	2.2	3.5	2.5	4.0	3.0	4.5	3.5
Bucket width	mm	2,500	2,500	2,500	2,500	2,700	2,500	2,700	2,500
A Dumping height at max. lift height	mm	4,500	5,120	4,425	5,090	4,450	5,280	4,376	5,210
E Max. operating height	mm	6,230	6,630	6,300	6,680	6,370	6,995	6,437	7,050
F Reach at maximum lift height	mm	1,504	1,345	1,585	1,400	1,535	1,335	1,615	1,425
L Overall length	mm	7,690	8,130	7,800	8,175	7,995	8,425	8,105	8,535
Tipping load, straight *	kg	6,770	5,300	7,690	6,140	8,630	6,930	9,170	7,390
Tipping load, articulated at 40° *	kg	5,970	4,690	6,790	5,430	7,610	6,110	8,090	6,520
Operating weight *	kg	12,615	12,640	13,350	13,400	14,475	14,630	14,960	15,130
Tyre sizes		17.5R25 L3		17.5R25 L3		20.5R25 L3		20.5R25 L3	

light material density		L 524		L 528		L 538		L 542	
		STD	HL	STD	HL	STD	HL	STD	HL
Geometry		PK	PK	PK	PK	PK	PK	PK	PK
Cutting tools		BOCE	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE
Bucket capacity	m ³	5.0	3.5	5.5	4.0	6.0	4.5	6.7	5.0
Bucket width	mm	2,700	2,500	2,700	2,700	2,700	2,700	2,950	2,700
A Dumping height at max. lift height	mm	4,479	5,260	4,457	5,260	4,480	5,269	4,417	5,246
E Max. operating height	mm	6,500	6,915	6,630	6,975	6,755	7,085	6,820	7,160
F Reach at maximum lift height	mm	1,639	1,468	1,666	1,468	1,613	1,446	1,600	1,479
L Overall length	mm	7,839	8,357	7,874	8,357	8,094	8,612	8,194	8,652
Tipping load, straight *	kg	6,845	5,180	8,030	6,050	9,260	7,050	9,800	7,620
Tipping load, articulated at 40° *	kg	6,040	4,570	7,090	5,340	8,160	6,220	8,640	6,720
Operating weight *	kg	12,650	12,800	13,330	13,490	14,320	14,540	14,930	15,050
Tyre sizes		17.5R25 L3		17.5R25 L3		20.5R25 L3		20.5R25 L3	

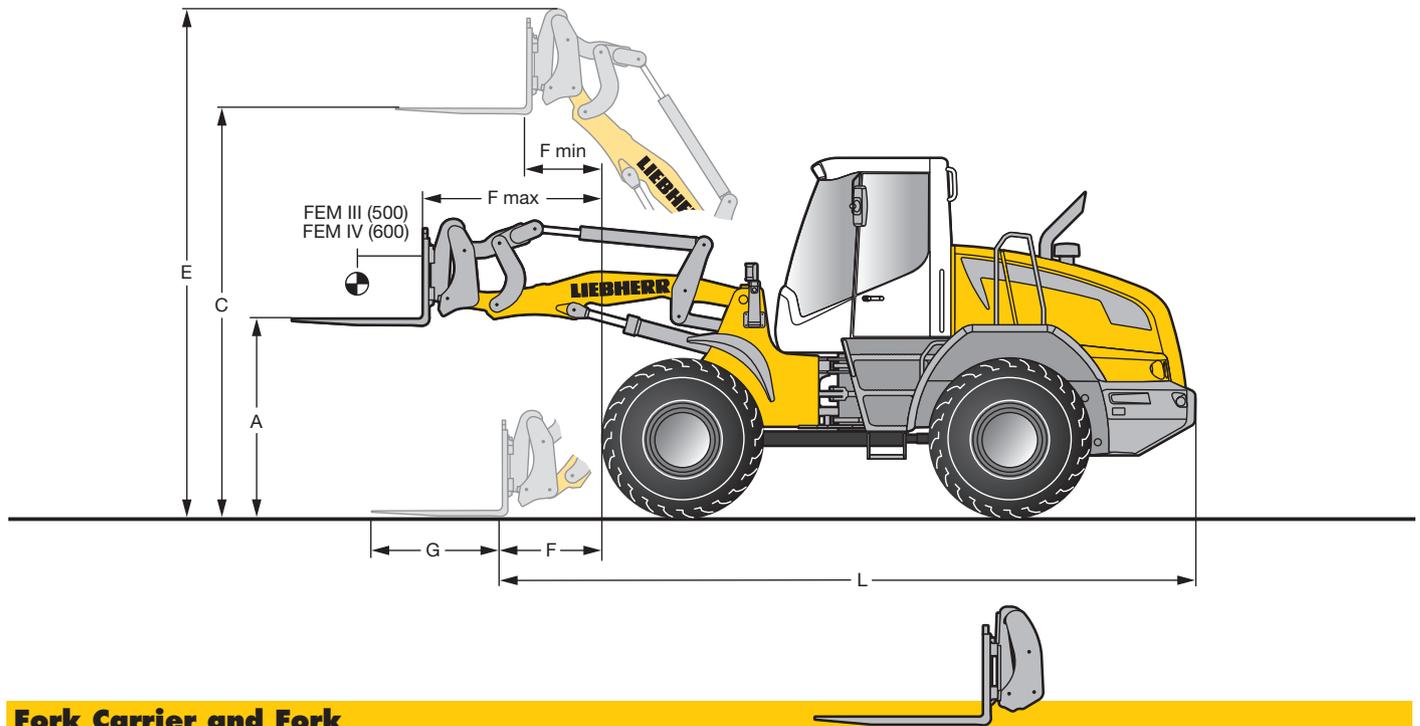
* The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. (Tipping load, articulated at 40° according to ISO 14397-1)

STD = Standard lift arm length
PK = Parallel linkage including quick-hitch

HL = High Lift
BOCE = Bolt-on cutting edge

Attachment

Fork Carrier and Fork



Fork Carrier and Fork with quick-hitch

		L 524		L 528		L 538		L 542		L 538		L 542		
				FEM III						FEM IV				
		ZK	PK	ZK	PK	ZK	PK	ZK	PK	ZK	PK	ZK	PK	
A	Lifting height at max. reach	mm	1,690	1,690	1,693	1,693	1,781	1,739	1,780	1,739	1,760	1,715	1,760	1,715
C	Max. lifting height	mm	3,580	3,645	3,592	3,650	3,738	3,697	3,740	3,699	3,710	3,665	3,710	3,665
E	Max. operating height	mm	4,510	4,560	4,513	4,565	4,662	4,612	4,664	4,613	4,695	4,610	4,695	4,610
F	Reach at loading position	mm	975	1,110	969	1,104	939	975	937	974	955	995	955	995
F max.	Max. reach	mm	1,625	1,720	1,619	1,720	1,635	1,635	1,631	1,631	1,615	1,610	1,615	1,610
F min.	Reach at max. lifting height	mm	695	780	698	774	694	695	683	684	675	975	675	975
G	Fork length	mm	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200
L	Length – basic machine without forks	mm	6,190	6,325	6,190	6,330	6,350	6,390	6,350	6,390	6,325	6,370	6,325	6,370
	Tipping load, straight *	kg	6,000	6,480	6,740	7,360	7,880	8,150	8,450	8,750	7,810	8,080	8,380	8,650
	Tipping load, articulated at 40° *	kg	5,300	5,700	5,920	6,510	6,940	7,200	7,450	7,710	6,860	7,120	7,400	7,650
	Recommended payload for uneven ground = 60% of tipping load, articulated 1)	kg	3,180	3,420	3,580	3,900	4,150	4,320	4,460	4,620	4,070	4,270	4,420	4,550
	Recommended payload for smooth surfaces = 80% of tipping load, articulated 1)	kg	4,010 ²⁾	4,580	4,200 ²⁾	5,000 ³⁾	5,250	5,700	5,400 ²⁾	6,000				
	Operating weight *	kg	10,600	11,260	11,260	11,900	12,700	12,900	13,180	13,320	13,000	13,150	13,400	13,550
	Tyre sizes		17.5R25 L3		17.5R25 L3		20.5R25 L3		20.5R25 L3		20.5R25 L3		20.5R25 L3	

* The figures shown include the above tyres, all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. (Tipping load, articulated at 40° according to ISO 14397-1)

1) According to EN 474-3

2) Payload on forks is limited by tilt cylinder

3) Load capacity for the fork carrier and forks is limited to 5,000 kg

ZK = Z-bar linkage

PK = Parallel linkage

Bucket selection

L 524

Lift arm	Bucket	Material density (t/m³)									
		0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	
ZK	GPB 2.1 m³							2.3	2.1		
ZK-OH	GPB 1.8 m³							2.0	1.8		
	LMB 2.4 m³				2.6						
PK	GPB 1.8 m³							2.0	1.8		
	LMB 3.0 m³				3.3						
	LMB 5.5 m³	5.5									
	HDB 3.0 m³			3.3	3.0						
PK-HL	GPB 1.8 m³							2.0	1.8		
	LMB 2.5 m³				2.8						
	LMB 4.0 m³	4.0									
	HDB 2.2 m³			2.4	2.2						
PK-HL	HDB 3.5 m³	3.5									

L 528

Lift arm	Bucket	Material density (t/m³)									
		0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	
ZK	GPB 2.3 m³								2.5	2.3	
ZK-OH	GPB 2.1 m³								2.3	2.1	
	LMB 3.0 m³				3.3						
PK	GPB 2.1 m³								2.3	2.1	
	LMB 3.5 m³				3.9						
	LMB 6.0 m³	6.0									
	HDB 3.5 m³			3.9	3.5						
PK-HL	GPB 2.1 m³								2.3	2.1	
	LMB 3.0 m³				3.3						
	LMB 4.5 m³	4.5									
	HDB 2.5 m³			2.8	2.5						
PK-HL	HDB 4.0 m³	4.0									

L 538

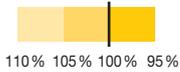
Lift arm	Bucket	Material density (t/m³)									
		0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	
ZK	GPB 2.6 m³							2.9	2.6		
ZK-OH	GPB 2.3 m³							2.5	2.3		
	LMB 3.5 m³				3.9						
PK	GPB 2.3 m³							2.5	2.3		
	LMB 4.0 m³				4.4						
	LMB 6.5 m³	6.5									
	HDB 4.0 m³			4.4	4.0						
PK-HL	GPB 2.3 m³							2.5	2.3		
	LMB 3.5 m³				3.9						
	LMB 5.0 m³	5.0									
	HDB 3.0 m³			3.3	3.0						
PK-HL	HDB 4.5 m³	4.5									

L 542

Lift arm	Bucket	Material density (t/m³)									
		0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	
ZK	GPB 2.8 m³								3.1	2.8	
ZK-OH	GPB 2.5 m³								2.8	2.5	
	LMB 4.0 m³				4.4						
PK	GPB 2.5 m³								2.8	2.5	
	LMB 4.5 m³				5.0						
	LMB 7.0 m³	7.0									
	HDB 4.5 m³			5.0	4.5						
PK-HL	GPB 2.5 m³								2.8	2.5	
	LMB 4.0 m³				4.4						
	LMB 5.5 m³	5.5									
	HDB 3.5 m³			3.9	3.5						
PK-HL	HDB 5.0 m³	5.0									

Bucket selection

Bucket Filling Factor



Lift arm

ZK	Z-bar linkage, standard lift arm length
ZK-QH	Z-bar linkage including quick-hitch, standard lift arm length
PK	Parallel linkage including quick-hitch, standard lift arm length
PK-HL	Parallel linkage including quick-hitch, High Lift

Bucket

GPB	General purpose bucket (Rehandling)
LMB	Light Material Bucket
HDB	High-Dump bucket

Bulk Material Densities and Bucket Filling Factors

		t/m ³	%			t/m ³	%			t/m ³	%
Gravel,	moist	1,9	105	Earth,	dry	1,3	115	Glass waste,	broken	1,4	100
	dry	1,6	105		solid	1,0	100				
	crushed stone	1,5	100		wet excavated	1,6	110	Compost,	dry	0,8	105
Sand,	dry	1,5	105	Topsoil	1,1	110	wet		1,0	110	
	wet	1,9	110	Basalt	1,95	100	Wood chips / saw dust		0,5	110	
Gravel and sand,	dry	1,7	105	Granite	1,8	95		Paper,	shredded / loose	0,6	110
	wet	2,0	100	Sandstone	1,6	100	recovered paper / cardboard		1,0	110	
Sand / clay		1,6	110	Slate	1,75	100	Coal,	heavy material density	1,2	110	
	natural	1,6	110	Bauxite	1,4	100		light material density	0,9	110	
Clay,		1,4	110	Limestone	1,6	100	Waste,	domestic waste	0,5	100	
	dry	1,4	110	Gypsum, broken	1,8	100		bulky waste	1,0	100	
Clay / gravel,	dry	1,4	110	Coke	0,5	110					
	wet	1,6	100	Slag, broken	1,8	100					

Tipping Load



What is tipping load?

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

Pay load.

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

Bucket capacity.

The bucket volume is determined from the pay load.

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

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

The Liebherr Wheel Loaders

Wheel Loader



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

Wheel Loader



		L 524	L 528	L 538	L 542	L 550
Tipping load	kg	7,500	8,500	9,500	10,200	12,150
Bucket capacity	m ³	2.1	2.3	2.6	2.8	3.2
Operating weight	kg	10,400	10,900	12,800	13,400	17,300
Engine output	kW/HP	90/122	100/136	115/156	120/163	129/175

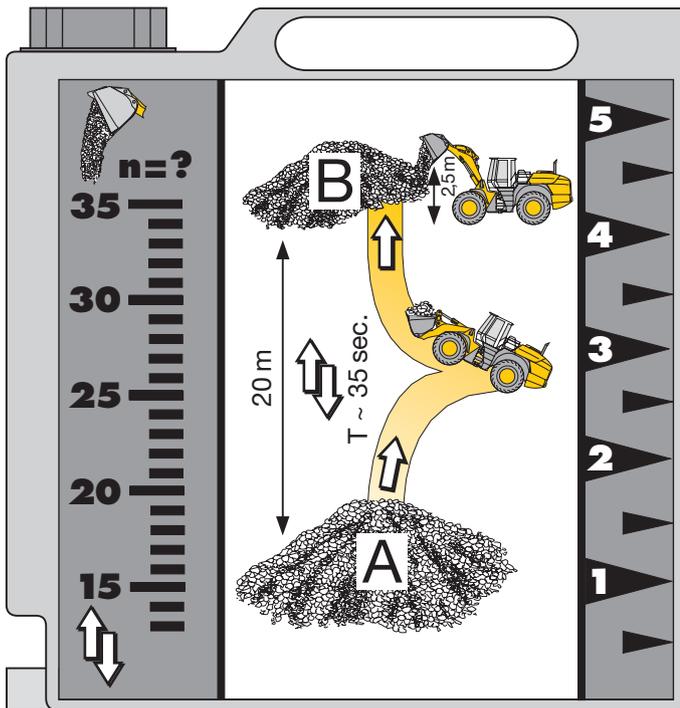
Wheel Loader



		L 556	L 566	L 576	L 580	L 586
Tipping load	kg	13,550	15,750	17,500	18,500	20,430
Bucket capacity	m ³	3.6	4.0	4.5	5.0	5.5
Operating weight	kg	17,900	23,150	24,450	25,180	31,380
Engine output	kW/HP	140/191	190/259	205/279	215/292	250/340

07.13

Environmental protection can help you earn money!



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

The Liebherr Standard Consumption Test determines 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:

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

Values for the Liebherr Wheel Loaders

	Numbers of working cycles	Litres/100 tons	Litres/hour	Ø Litres/hour**
L 524: 2.1 m ³	n = 47	2.8	8.5	7.1
L 528: 2.3 m ³	n = 46	2.6	8.7	7.2
L 538: 2.6 m ³	n = 39	2.7	10.3	8.5
L 542: 2.8 m ³	n = 38	2.6	10.5	8.7
L 550: 3.2 m ³	n = 31	2.8	12.9	10.9
L 556: 3.6 m ³	n = 27	2.9	14.5	12.1
L 566: 4.0 m ³	n = 22	3.2	18.2	15.1
L 576: 4.5 m ³	n = 21	2.9	19.1	15.8
L 580: 5.0 m ³	n = 20	2.8	20.0	16.2
L 586: 5.5 m ³	n = 14	3.6	28.5*	20.5

* Equipped with L5 tyres and 5.5 m³ HD bucket

** Wheel loader in practical customer applications (with individual machine configurations).

Tyres



Size and tread code		Change of operating weight kg	Width over tyres mm	Change in vertical dimensions mm	Use
L 524/L 528					
Bridgestone	17.5R25 VJT	L2 - 47	2,440	+ 4	Gravel, Earthworks, Clay (all ground conditions)
Bridgestone	17.5R25 VJT	L3 + 91	2,440	+ 18	Bulk material (firm ground conditions)
Bridgestone	17.5R25 VSDL	L5 + 638	2,450	+ 57	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	20.5R25 VJT	L3 + 536	2,440	+ 70	Bulk material (firm ground conditions)
Bridgestone	20.5R25 VSDL	L5 + 1,199	2,440	+ 122	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	550/65R25 VTS	L3 + 387	2,460	+ 12	Gravel (all ground conditions)
Goodyear	17.5R25 RT-3B	L3 + 165	2,460	+ 21	Gravel (all ground conditions)
Goodyear	17.5R25 TL-3A+	L3 + 233	2,460	+ 23	Sand, Gravel, Earthworks, Clay (all ground conditions)
Goodyear	17.5R25 RL-4K	L4 + 555	2,460	+ 42	Gravel, Industry, Stone (firm ground conditions)
Goodyear	17.5R25 RL-5K	L5 + 679	2,460	+ 42	Stone, Scrap, Recycling (firm ground conditions)
Goodyear	20.5R25 RT-3B	L3 + 530	2,450	+ 78	Gravel (all ground conditions)
Goodyear	20.5R25 TL-3A+	L3 + 675	2,460	+ 73	Sand, Gravel, Earthworks, Clay (all ground conditions)
Goodyear	20.5R25 GP-4D	L4 + 847	2,430	+ 82	Gravel, Industry, Wood (firm ground conditions)
Goodyear	20.5R25 RL-4K	L4 + 1,107	2,460	+ 97	Gravel, Industry, Stone (firm ground conditions)
Goodyear	20.5R25 RL-5K	L5 + 1,271	2,460	+ 111	Stone, Scrap, Recycling (firm ground conditions)
Michelin	17.5R25 XTLA	L2 - 70	2,460	+ 18	Gravel, Earthworks, Clay (all ground conditions)
Michelin	17.5R25 XHA	L3 0	2,450	0	Sand, Gravel (all ground conditions)
Michelin	17.5R25 XLD D2A	L5 + 364	2,460	+ 37	Stone, Mining spoil (firm ground conditions)
Michelin	17.5R25 X MINE	L5 + 548	2,480	+ 59	Stone, Scrap, Recycling (firm ground conditions)
Michelin	20.5R25 XTLA	L2 + 398	2,470	+ 55	Gravel, Earthworks, Clay (all ground conditions)
Michelin	20.5R25 XHA2	L3 + 519	2,440	+ 62	Sand, Gravel (all ground conditions)
Michelin	20.5R25 XLD D2A	L5 + 950	2,440	+ 92	Stone, Mining spoil (firm ground conditions)
Michelin	20.5R25 X MINE	L5 + 1,218	2,430	+ 107	Stone, Scrap, Recycling (firm ground conditions)
Michelin	550/65R25 XLD65	L3 + 437	2,460	+ 18	Gravel (all ground conditions)
L 538/L 542					
Bridgestone	20.5R25 VJT	L3 + 17	2,480	+ 8	Bulk material (firm ground conditions)
Bridgestone	20.5R25 VSDL	L5 + 670	2,440	+ 60	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	550/65R25 VTS	L3 - 44	2,500	- 50	Gravel (all ground conditions)
Bridgestone	650/65R25 VTS	L3 + 595	2,650	+ 16	Gravel (all ground conditions)
Goodyear	20.5R25 RT-3B	L3 + 11	2,490	+ 16	Gravel (all ground conditions)
Goodyear	20.5R25 TL-3A+	L3 + 156	2,500	+ 11	Sand, Gravel, Earthworks, Clay (all ground conditions)
Goodyear	20.5R25 GP-4D	L4 + 328	2,470	+ 20	Gravel, Industry, Wood (firm ground conditions)
Goodyear	20.5R25 RL-4K	L4 + 588	2,500	+ 35	Gravel, Industry, Stone (firm ground conditions)
Goodyear	20.5R25 RL-5K	L5 + 752	2,500	+ 49	Stone, Scrap, Recycling (firm ground conditions)
Michelin	20.5R25 XTLA	L2 - 121	2,510	- 7	Gravel, Earthworks, Clay (all ground conditions)
Michelin	20.5R25 XHA2	L3 0	2,480	0	Sand, Gravel (all ground conditions)
Michelin	20.5R25 XLD D2A	L5 + 431	2,480	+ 30	Stone, Mining spoil (firm ground conditions)
Michelin	20.5R25 X MINE	L5 + 699	2,470	+ 45	Stone, Scrap, Recycling (firm ground conditions)
Michelin	550/65R25 XLD65	L3 - 82	2,500	- 44	Gravel (all ground conditions)
Michelin	650/65R25 XLD65	L3 + 478	2,640	- 7	Gravel (all ground conditions)

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

Equipment



Basic Machine

	524	528	538	542
Crash protection, rear	+	+	+	+
Access to facilitate windscreen cleaning	•	•	•	•
Exhaust pipe – stainless steel	+	+	+	+
Automatic central lubrication system	+	+	+	+
Battery master switch	•	•	•	•
Diesel particle filter	•	•	•	•
Electronical theft protection	•	+	+	+
Electronic tractive force regulation for difficult ground conditions	•	•	•	•
Automatic travel mode	•	•	•	•
Speed range selection	•	•	•	•
Driver identification (in conjunction with electronic theft lock)	+	+	+	+
Ride control	•	•	•	•
Parking brake	•	•	•	•
Fluff trap for radiator	+	+	+	+
Speed limitation, 20 km/h	•	•	•	•
Speed limitation V _{max}	+	+	+	+
Large-mesh radiator	•	•	•	•
Pre-heat system for cold starting	•	•	•	•
Combined inching-braking system	•	•	•	•
Fuel tank steel version	+	+	+	+
Multi-disc limited slip differentials in both axles	•	•	•	•
LIDAT (Liebherr Data Transfer System) – one year free of charge	•	•	•	•
Liebherr biodegradable hydraulic oil	+	+	+	+
Reversible fan drive	•	•	•	•
Air cleaner system with pre-filter	•	•	•	•
Emergency steering system	•	•	•	•
Reversing obstruction detector	+	+	+	+
Back-up alarm audible / visual	•	•	•	•
Tail lights, single version	•	•	•	•
Rear area monitoring camera (integrated in display unit)	+	+	+	+
Headlights front, single version (on front-chassis) – halogen	•	•	•	•
Lockable doors, service flap and engine hood	•	•	•	•
Widening for fender and rear mudguard (steel design)	+	+	+	+
Rubber widening for rear mudguards	+	+	+	+
Air pre-cleaner Top-Air	•	•	•	•
Hazard warning lights	•	•	•	•
Toolbox with toolkit	+	+	+	+
Weighing device for approved or non-approved weighing (integrated in display unit)	+	+	+	+
Towing hitch	•	•	•	•



Operator's Cab

	524	528	538	542
Storage box	•	•	•	•
Armrest, adjustable	•	•	•	•
Exterior mirror, tiltable	•	•	•	•
Exterior mirror, heated	+	+	+	+
Fold-out window (operator's door)	+	+	+	+
Operator's package	•	•	•	•
Operator's seat (mechanically sprung)	•	•	•	•
Operator's seat – air sprung with/without seat heating	+	+	+	+
Fire extinguisher 2 kg	•	•	•	•
Cup holder	•	•	•	•
Rear window heater	•	•	•	•
Horn	•	•	•	•
Joystick steering	+	+	+	+
Floor mat	•	•	•	•
Clothes hook	•	•	•	•
Air conditioning system (manual)	+	+	+	+
Automatic air conditioning system	+	+	+	+
Storage box with cooling function	•	•	•	•
Steering column, height-adjustable	+	+	+	+
Steering column, adjustable	•	•	•	•
Liebherr joystick control – adjustable	•	•	•	•
Premium Display, Touchscreen (display unit)	+	+	+	+
Radio set	+	+	+	+
Provision for radio including loudspeaker	•	•	•	•
Interior rear-view mirror	•	•	•	•
Amber beacon	•	•	•	•
Soundproof ROPS/FOPS cab	•	•	•	•
Wash/wipe system for windscreen and rear window	•	•	•	•
Headlights rear, single or double version – halogen/LED	+	+	+	+
Headlights front, double version – halogen	•	•	•	•
Headlights front, double version – LED	+	+	+	+
Headlights front, single version – XENON	+	+	+	+
Protective ventilation system	+	+	+	+
Windscreen guard	•	•	•	•
Sun visor	•	•	•	•
Sunblind front/rear	+	+	+	+
Dust filter system	•	•	•	•
Plug 12 V	•	•	•	•
First aid kit	+	+	+	+
Hot water heater with defroster and recirculated-air system	•	•	•	•
Wide angle mirror	+	+	+	+



Audible Warnings for

	524	528	538	542
Quick-hitch, opened	•	•	•	•
Coolant level	•	•	•	•
Charge air/fuel temperature too high	•	•	•	•
Steering system / braking system	•	•	•	•
Engine oil pressure	•	•	•	•
Reversing obstruction detector	+	+	+	+
Back-up alarm	•	•	•	•
Service codes	•	•	•	•
Overheating of coolant, fuel, hydraulic oil	•	•	•	•



Display unit

	524	528	538	542
Working hydraulics lockout	•	•	•	•
Automatic central lubrication system	+	+	+	+
Battery charge	•	•	•	•
Operating voltage	+	+	+	+
Timer for hours of operation	•	•	•	•
Indicator light / Hazard warning lights / High beam	•	•	•	•
Brake accumulator pressure	•	•	•	•
Date/outside temperature	+	+	+	+
Diesel particle filter	•	•	•	•
Rev. Counter	•	•	•	•
Speed range indicator	•	•	•	•
Driver identification	+	+	+	+
Travel speed	•	•	•	•
Travel direction	•	•	•	•
Parking brake	•	•	•	•
Gear level	•	•	•	•
Heater / Air conditioning	+	+	+	+
Hydraulic oil temperature	•	•	•	•
Joystick steering	+	+	+	+
Fuel level	•	•	•	•
Fuel consumption	+	+	+	+
Coolant temperature	•	•	•	•
Reversible fan drive	+	+	+	+
Engine oil pressure	+	+	+	+
Emergency steering system	•	•	•	•
Service codes	•	•	•	•
System and function settings	+	+	+	+
Time	•	•	•	•
Weighing device	+	+	+	+
Tractive force regulation	•	•	•	•



Warning symbols for

	524	528	538	542
Battery charge	•	•	•	•
Brake accumulator pressure	•	•	•	•
Diesel particle filter	•	•	•	•
Air cleaner blockage	•	•	•	•
Engine oil pressure	•	•	•	•
Emergency steering system	•	•	•	•
Reversing obstruction detector	+	+	+	+
Engine overspeed	•	•	•	•



Equipment

	524	528	538	542
Working hydraulics lockout	•	•	•	•
Automatic hoist kick out – adjustable	+	+	+	+
Automatic bucket return to dig – adjustable	•	•	•	•
Fork carrier and lift forks	+	+	+	+
High-dump bucket	+	+	+	+
Log Grapple	+	+	+	+
Hydraulic quick-hitch – Z-bar linkage	+	+	+	+
Hydraulic servo control of working hydraulics	•	•	•	•
Tilt cylinder protection	+	+	+	+
Loading buckets with and without teeth, or bolt-on cutting edge	+	+	+	+
Country-specific versions	+	+	+	+
Light material bucket	+	+	+	+
LKUFIX	+	+	+	+
Parallel linkage including quick-hitch	+	+	+	+
Parallel linkage including quick-hitch – High Lift version	+	+	+	+
Load holding valves	+	+	+	+
Float position	•	•	•	•
Z-bar linkage	•	•	•	•
3rd hydraulic control circuit	+	+	+	+
3rd and 4th hydraulic control circuits	+	+	+	+

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

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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. 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 130 companies with over 39,000 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.

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