Wheel Loaders

L 524 - L 542

Tipping load, articulated: 16,535 lb - 22,485 lb



LIEBHERR

L 524

Tipping load, articulated: 16,535 lb Bucket capacity: 2.7 yd³ 22,930 lb Operating weight:

Engine output: 121 HP(I)/90 kW

Tipping load, articulated: 18,740 lb Bucket capacity: 3.0 yd3 Operating weight: 24,030 lb Engine output: 134 HP(I)/100 kW

Tipping load, articulated: 20,945 lb Bucket capacity: 3.4 yd³ 28,220 lb Operating weight: Engine output: 154 HP(I)/115 kW

542



Economy

The Liebherr driveline with Liebherr Power Efficiency (LPE) reduces wheel loader fuel consumption by 25% or more when compared to conventional travel gears!

Performance

The Liebherr driveline allows for optimal positioning of the diesel engine. In this wheel loader class the diesel engine is rotated 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

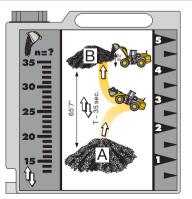
All the materials used in the Liebherr wheel loaders have passed extensive tests to ensure that they meet Liebherr's exacting standards even in the toughest conditions. The advanced concept and proven quality make Liebherr wheel loaders the benchmark of reliability.

Comfort

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

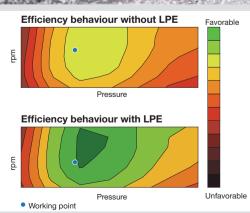






Lower Fuel Consumption

- Up to 25% less fuel consumption when compared to conventionally driven machines.
- The Liebherr wheel loaders demonstrate their fuel efficiency in the Liebherr standard Normtest.





Economy

The Liebherr driveline with Liebherr Power Efficiency (LPE) reduces wheel loader fuel consumption by 25% or more when compared to conventional travel gears!

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. Thanks to the newly developed Liebherr Power Efficiency system the generation Tier 4i wheel loaders L 524 - L 542 use up to 8% less fuel compared to their predecessors.
- Practically no brake wear thanks to the hydraulic braking action of the driveline; this ultimately reduces repair costs.
- Reduced tire 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:

0.3 gal of fuel produces up to 7 lb of carbon dioxide (CO₂). By saving up to 1.3 gal per operating hour, up to 33,070 lb less CO₂ is produced in 1,000 operating hours. Not only are operating costs reduced but the environment also benefits from the drastically reduced emissions.

Low Noise Emission

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) optimizes the interaction between the drive components. It optimizes 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.



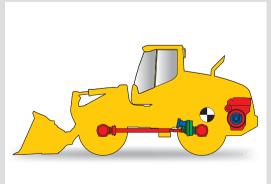
Reduced Tire Wear

• The tractive force is controlled continuously. This stops wheel spins and reduces tire wear by up to 25%.

Reduced Brake Wear

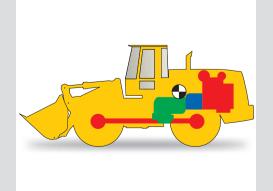
 Even under the toughest working conditions, the Liebherr travel drive always brakes hydraulically. The mechanical service brake only acts as a support and is therefore subject to hardly any wear.





Liebherr Driveline

- Optimum weight distribution thanks to transverse installation of the diesel engine.
- The diesel engine as well as the variable displacement pumps mounted on the engine act as counterweight, therefore allowing higher tipping loads at low operating weight.
- Compact design improves visibility in all directions.





Performance

The Liebherr driveline allows for optimal positioning of the diesel engine. In this wheel loader class the diesel engine is rotated 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 for higher tipping loads at low operating weight. This leads to significantly higher productivity since 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 larger and heavier attachments as well as transporting heavy loads. With its parallel linkage Liebherr offers a continuous and uniform solution for industrial operations over the entire range of all-round loaders. With their compact design, Liebherr wheel loaders can maneuver quickly and efficiently - the best choice for high handling capacities.

Power All-Rounders for Industry

The new generation Tier 4i all-round wheel loader models have been specifically 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 all-round loaders the perfect solution for all industrial uses.

Conventional Travel Gear

- · Longitudinally mounted diesel engine moves the center 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 poor 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 the Liebherr wheel loaders have passed extensive tests to ensure that they meet Liebherr's exacting standards even in the toughest conditions. The advanced 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 wear-free since there is no need for a reversing gear unit. There are fewer components needed, which minimizes the number of parts susceptible to wear.

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 is increased to maximum output, thus preventing the engine from overheating.

Components Meet Manufacturer's Quality Standards

Everything from a Single Source

Main components such as hydraulic cylinders and electronics are developed and manufactured by Liebherr to ensure the highest quality standards. Liebherr Wheel Loaders are carefully designed down to the smallest detail to provide customers with the perfect machine solution to match the application-specific demands while achieving maximum productivity and longevity.

Optimized Engine Technology

As well as further developments towards greater environmental compatibility, the new generation of diesel engines have been optimized in a number of other respects. In addition to Common Rail technology a diesel particle filter significantly reduces exhaust emissions. With active regeneration, in most operational circumstances this filtration process ensures efficient, uninterrupted work.

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.
- The reversible fan drive is a standard feature.



Diesel Engine

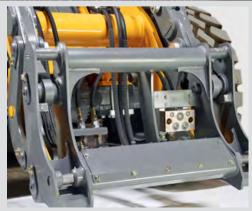
- Common Rail technology optimizes the combustion process and reduces emissions.
- Further reduction of particle emissions due to the diesel particle filter with oxidation catalytic converter. Active regeneration ensures efficient, uninterrupted work.
- Proactive intervention of Liebherr Power Efficiency (LPE) in the engine management system increases 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 lead to extraordinary overall comfort.

First-Class Cab Design

Comfort Cab

The spacious and ergonomically designed Liebherr operator's cab provides a wide view to the working area to ensure safety. All tool controls and displays have been carefully arranged for ease of operation and to maintain a comfortable work environment during working shifts.

Liebherr Control Lever All the working and travel functions are operated precisely from a single control lever. This ensures accurate and safe handling, and the left hand always remains on the steering wheel. Jobsite safety is increased.

Liebherr Driveline

Continuously Variable Transmission

Liebherr Power Efficiency

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

Liebherr Power Efficiency (LPE) optimizes 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 to obtain the full power performance desired. An electrical signal is transmitted from the pedal to the software of the machine which automatically calculates the most efficient driving command. This is possible due to the proactive intervention into the engine management system. The usual high performance as well as the drive behavior of the machine as a whole remain unchanged. If anything, the response is even faster.

LIKUFIX

Time Savings and Productivity

LIKUFIX is quick-change system combined with an automatic hydraulic coupling system developed in-house by Liebherr. This option is available for Liebherr wheel loaders and excavators. LIKUFIX allows the quick exchange between attachments and all hydraulic connections safely from inside the cab with a simple press of a button.

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 system comes standard on the L 524 – L 542 wheel loaders and it includes a one-year free trial.

Diagnostic and Remote Maintenance

Consistent Monitoring

The electronic system of the all-round loaders has been designed just as the large size class. Due to this fact, the all-round loaders offer an extended range of options such as the convenient touchscreen, the integral rear-view monitoring camera and the newly developed Liebherr weighing device. The new electronic system permits standard diagnostic and remote maintenance over the range of machines providing a clear benefit in their everyday operations.

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.

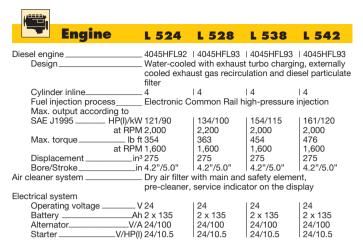
All service points can be reached from ground level for routine maintenance. Cleaning of the cooling system is carried out while positioned on the machine, anti-slip step surfaces and strong handrails in the access area ensure high safety standards.



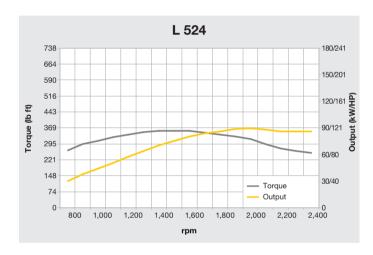
Electronics

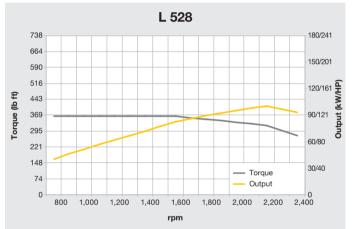
- Standard diagnostic and remote maintenance
- Full version of LiDAT including a one-year free trial.
- Optional touchscreen
- Optional Liebherr rear-view monitoring camera and weighing device – integrated in the color touchscreen

Technical Data



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









Technical Data



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 Control	Suction return line filter for closed circuit. 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 - 3.7 mph Speed range A1-2 0 - 9.9 mph Speed range A1-3 0 - 24.9 mph The quoted speeds apply with the tires that are standard equipment on the loader.



Four-wheel drive	
Front axle	Fixed
Rear axle	Centre pivot, with 10° oscillating angle to each side.
	1'7" 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 tires (L 524, L 528)
	1,900 mm with all types of tires (L 538, L 542)



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 seperate 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 Emergency steering	. 40° (to each side) . Electro-hydraulic emergency steering system



Attachment Hydraulics

Design		sing" variable a flow control, a		
Cooling		il cooling using	g thermostatica	ally controlled
Filtration	Return line	filter in the hyd	draulic reservoi	ir
Control	"Liebherr jo	ystick" with hy	drostatic serv	o control
Lift circuit	Lifting, neu	tral, lowering		
Tilt circuit	detent; auto	osition controllomatic hoist ki eutral, dump oucket return to	ck out as stand	
Max. flow Max. pressure	L 524 gpm 27 psi 4,569	L 528 36 4,786	L 538 45 5,076	L 542 45 5,076



Geometry can be chosen	_ Parall	ulic qui el linka	ick cou	pler – d two til	optiona t cylind	l equip lers, hy		
Bearings	Seale	d						
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	4.0 s	4.0 s	4.0 s	4.0 s	4.0 s	4.0 s	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 and heating system; adjustable air suspension from soft to hard; automatic weight adjustment
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 condition as standard/automatic air conditioning system optional



ISO 6396	L 524	L 528	L 538	L 542
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)

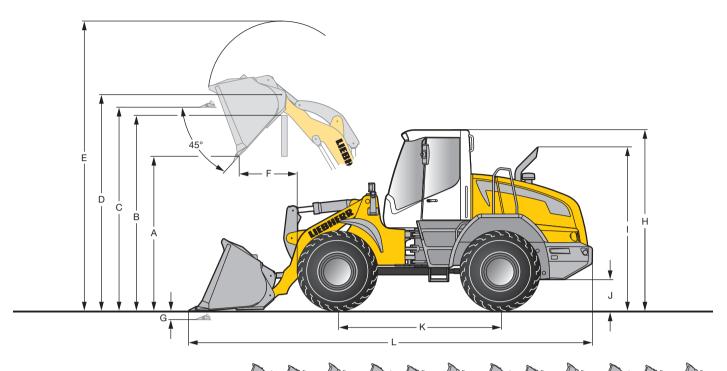


Capacities

	L 524	L 528	L 538	L 542
Fuel tank (plastic design) Fuel tank	gal 54.2	54.2	54.2	54.2
(steel version, optional) Engine oil	gal 58.1	58.1	58.1	58.1
(inclusive filter change)	. gal 3.9 . gal 1	5.4	5.4	5.4
Coolant Front axle/wheel hubs	gal 10 gal 4.3/0.7	10 4.3/0.7	10 4.3/0.7	10 4.3/0.7
Rear axle/wheel hubs Hydraulic tank	gal 4/0.7 gal 29	4.3/0.7 4/0.7 29	4.0.7 4/0.7 29	4/0.7 29
Hydraulic system, total	gal 44.9	44.9	47.6	47.6

Dimensions

Z-bar Linkage



				1 JW			13D			1 Jan			1 DV	
L	pading Bucket			L 524	-		L 528	•		L 538	•		L 542	
	Geometry		ZK	ZK-QC	ZK-QC	ZK	ZK-QC	ZK-QC	ZK	ZK-QC	ZK-QC	ZK	ZK-QC	ZK-QC
	Bucket type		GPB	GPB	LMB	GPB	GPB	LMB	GPB	GPB	LMB	GPB	GPB	LMB
	Cutting tools		Т	Т	BOCE	Т	Т	BOCE	Т	Т	BOCE	Т	Т	BOCE
	Lift arm length	ft in	7'10"	7'10"	7'10"	7'10"	7'10"	7'10"	8'2"	8'2"	8'2"	8'2"	8'2"	8"2"
	Bucket capacity according to ISO 7546*	* yd³	2.7	2.4	3.1	3.0	2.7	3.9	3.4	3.0	4.6	3.7	3.3	5.2
	Bucket width	ft in	8'2"	8'2"	8'2"	8'2"	8'2"	8'10"	8'2"	8'2"	8'10"	8'2"	8'2"	8'10"
Α	Dumping height at max. lift height	ft in	9'4"	8'11"	8'9"	9'1"	8'10"	8'4"	9'4"	9'	8'7"	9'3"	8'11"	8'3"
В	Dump-over height	ft in	10'11"	10'11"	10'11"	10'11"	10'11"	10'11"	11'5"	11'5"	11'5"	11'5"	11'5"	11'5"
С	Max. height of bucket bottom	ft in	11'7"	11'7"	11'7"	11'7"	11'7"	11'7"	12'1"	12'1"	12'1"	12'1"	12'1"	12'1"
D	Max. height of bucket pivot point	ft in	12'5"	12'5"	12'5"	12'5"	12'5"	12'5"	12'11"	12'11"	12'11"	12'11"	12'11"	12'11"
Ε	Max. operating height	ft in	16'2"	16'3"	16'11"	16'4"	16'6"	17'2"	17'2"	17'6"	18'2"	17'3"	17'8"	18'4"
F	Reach at max. lift height	ft in	2'10"	3'1"	3'6"	3'2"	3'3"	3'8"	3'4"	3'5"	3'10"	3' 4"	3'7"	4'2"
G	Digging depth	ft in	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"
Н	Height above cab	ft in	10'6"	10'6"	10'6"	10'6"	10'6"	10'6"	10'8"	10'8"	10'8"	10'8"	10'8"	10'8"
1	Height above exhaust	ft in	9'5"	9'5"	9'5"	9'5"	9'5"	9'5"	9'7"	9'7"	9'7"	9'7"	9'7"	9'7"
J	Ground clearance	ft in	1'6"	1'6"	1'6"	1'6"	1'6"	1'6"	1'7"	1'7"	1'7"	1'7"	1'7"	1'7"
K	Wheelbase	ft in	9'4"	9'4"	9'4"	9'4"	9'4"	9'4"	9'9"	9'9"	9'9"	9'9"	9'9"	9'9"
L	Overall length	ft in	22'5"	22'9"	24'1"	22'9"	23'1"	23'9"	23'5"	23'11"	24'11"	23'8"	24'1"	25'3"
	Turning circle radius	0.1.	401011	401011	4014411	401	401411	4010"	4014411	001	0014 !!	4014411	001011	0014"
	over outside bucket edge	ft in	18'8"	18'9"	18'11"	19'	19'1"	19'2"	19'11"	20'	20'1"	19'11"	20'2"	20'4"
	Breakout force (SAE)	lbf	20,460			20,010		15,285		24,505		,	23,155	19,110
	Tipping load, straight *	lb 	18,740	, -	16,380	,		18,715	,		21,100	,	23,600	22,930
	Tipping load, articulated at 40° *	lb	16,535			-	17,020						20,945	20,060
	Operating weight*	lb	-				24,910							
	Tire sizes		1	7.5R25 L	.3	1	7.5R25 L	.3	2	0.5R25 L	.3	2	0.5R25 L	.3

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

ZK = Z-bar linkage

GPB = General purpose bucket (Rehandling bucket)

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

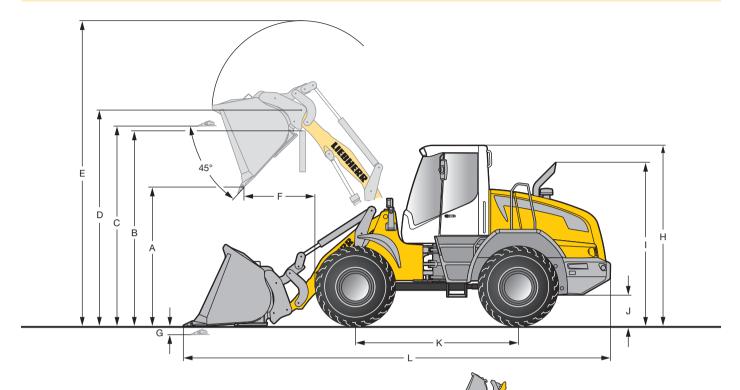
ZK-QC = Z-bar linkage including hydraulic quick coupler

LMB = Light Material Bucket BOCE = Bolt-on cutting edge

^{**} 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.

Dimensions

Parallel Linkage



							1 (8)			
L	oading Bucket		L 5	24	L 5	28	L !	538	L 5	42
	buding bocker		STD	HL	STD	HL	STD	HL	STD	HL
	Geometry		PK-QC							
	Cutting tools		Т	Т	Т	Т	Т	Т	Т	Т
	Lift arm length	ft in	8'2"	9'10"	8'2"	9'10"	8'2"	9'10"	8'2"	9'10"
	Bucket capacity according to ISO 7546	** yd³	2.4	2.4	2.7	2.7	3.0	3.0	3.3	3.3
	Bucket width	ft in	8'2"	8'2"	8'2"	8'2"	8'2"	8'2"	8'2"	8'2"
Α	Dumping height at max. lift height	ft in	9'2"	11'2"	9'1"	11'1"	9'	11'	8'10"	10'10"
В	Dump-over height	ft in	11'1"	13'1"	11'1"	13'1"	11'3"	13'3"	11'3"	13'3"
С	Max. height of bucket bottom	ft in	11'9"	13'9"	11'9"	13'9"	11'11"	14'	11'11"	14'
D	Max. height of bucket pivot point	ft in	12'7"	14'7"	12'7"	14'7"	12'9"	14'10"	12'9"	14'10"
Е	Max. operating height	ft in	16'6"	18'6"	16'4"	18'9"	17'4"	19'4"	17'6"	19'7"
F	Reach at max. lift height	ft in	3'5"	3'4"	3'7"	3'5"	3'7"	3'5"	3'8"	3'7"
G	Digging depth	ft in	2"	3"	2"	3"	2"	1"	2"	1"
Н	Height above cab	ft in	10'6"	10'6"	10'6"	10'6"	10'8"	10'8"	10'8"	10'8"
1	Height above exhaust	ft in	9'5"	9'5"	9'5"	9'5"	9'7"	9'7"	9'7"	9'7"
J	Ground clearance	ft in	1'6"	1'6"	1'6"	1'6"	1'7"	1'7"	1'7"	1'7"
K	Wheelbase	ft in	9'4"	9'4"	9'4"	9'4"	9'9"	9'9"	9'9"	9'9"
L	Overall length	ft in	23'5"	25'6"	23'6"	25'7"	24'	26'3"	24'1"	26'5"
	Turning circle radius over									
	outside bucket edge	ft in	19'	19'11"	19'3"	19'10"	20'1"	21'	20'2"	21'1"
	Breakout force (SAE)	lbf	18,210	18,435	17,985	17,985	25,180	25,405	24,055	24,280
	Tipping load, straight *	lb	18,300	14,000	20,505	15,765	22,705	17,815	24,075	19,070
	Tipping load, articulated at 40° *	lb	16,205	12,345	18,080	13,890	20,060	15,740	21,495	16,800
	Operating weight *	lb	25,355	26,235	27,115	27,975	29,500	30,315	30,425	31,215
	Tire sizes		17.5R	25 L3	17.5R	25 L3	20.5F	R25 L3	20.5R	25 L3

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

STD = Standard lift arm length

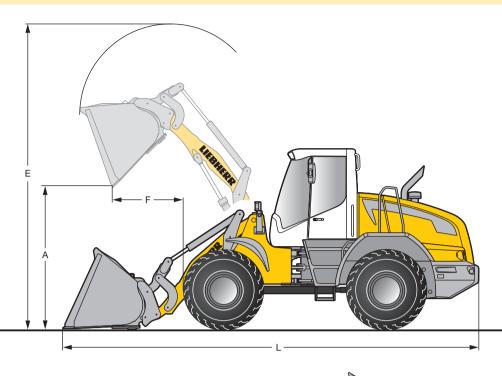
HL = High Lift

PK-QC = Parallel linkage including hydraulic quick coupler T = Welded-on tooth holder with add-on teeth

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

Attachment

Light Material Bucket



						//	1 1 3			
u	eavy Material Density		L 524		L 5	28	L 5	38	L 542	
•	eavy material belishly		STD	HL	STD	HL	STD	HL	STD	HL
	Geometry		PK-QC	PK-QC	PK-QC	PK-QC	PK-QC	PK-QC	PK-QC	PK-QC
	Cutting tools		BOCE	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE	BOCE
	Bucket capacity	yd ³	3.9	3.3	4.6	3.9	5.2	4.6	5.9	5.2
	Bucket width	ft in	8'10"	8'2"	8'10"	8'10"	8'10"	8'10"	9'	8'10"
Α	Dumping height at max. lift height	ft in	8'8"	10'8"	8'4"	10'7"	8'3"	10'5"	8'	10'3"
Е	Max. operating height	ft in	17'4"	19'2"	17'10"	19'4"	17'11"	20'2"	18'3"	20'3"
F	Reach at max. lift height	ft in	4'	3'11"	4'3"	3'11"	4'3"	4'	4'6"	4'3"
L	Overall length	ft in	24'2"	26'3"	24'6"	26'4"	25'6"	27'5"	25'10"	27'11"
	Tipping load, straight *	lb	17,460	13,005	19,775	15,100	21,825	17,040	25,440	18,430
	Tipping load, articulated at 40° *	lb	15,390	11,465	17,460	13,340	19,245	15,035	20,480	16,270
	Operating weight *	lb	26,015	27,050	27,560	28,470	29,985	30,955	31,175	31,660
	Tire sizes		17.5R	25 L3	17.5R25 L3		20.5R25 L3		20.5R25 L3	

							J.D.			
	ight Material Density		L 5	24	L 5	28	L 538		L 5	42
Ligiti Mulciful Delisity		STD	HL	STD	HL	STD	HL	STD	HL	
	Geometry		PK-QC							
	Cutting tools		BOCE							
	Bucket capacity		7.2	5.2	7.8	5.9	8.5	6.5	9.2	7.2
	Bucket width	ft in	9'	9'	9'	9'	9'	9'	9'	9'
Α	Dumping height at max. lift height	ft in	7'4"	10'	7'2"	9'9"	7'2"	9'9"	7'	9'4"
Е	Max. operating height	ft in	18'7"	19'6"	17'11"	19'10"	19'5"	20'2"	19'7"	20'6"
F	Reach at max. lift height	ft in	5'4"	4'5"	5'6"	4'8"	5'5"	4'7"	5'7"	4'11"
L	Overall length	ft in	26'	27'1"	26'3"	27'5"	27'1"	28'4"	27'4"	28'10"
	Tipping load, straight *	lb	16,160	12,700	18,385	14,570	20,725	16,755	22,180	17,835
	Tipping load, articulated at 40° *	lb	14,265	11,220	16,250	12,875	18,300	14,770	19,555	15,720
	Operating weight *	lb	26,895	27,335	28,440	28,880	30,755	31,195	31,790	32,255
	Tire sizes		17.5F	R25 L3	17.5F	R25 L3	20.5R	25 L3	20.5F	R25 L3

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

STD = Standard lift arm length

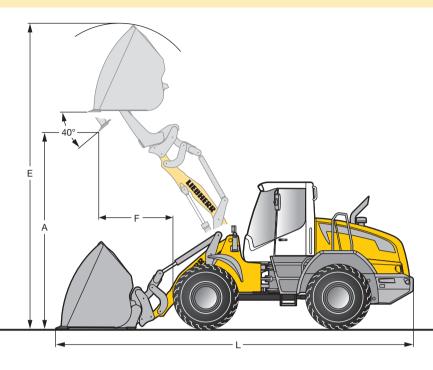
PK-QC = Parallel linkage including hydraulic quick coupler

HL = High Lift

BOCE = Bolt-on cutting edge

Attachment

High-Dump Bucket



						//	1313			
ш	Heavy Material Density		L 524		L 528		L 538		L 5	42
•	cavy material belishly		STD	HL	STD	HL	STD	HL	STD	HL
	Geometry		PK-QC							
	Cutting tools		BOCE							
	Bucket capacity		3.9	2.9	4.6	3.3	5.2	3.9	5.9	4.6
	Bucket width f		8'2"	8'2"	8'2"	8'2"	8'10"	8'2"	8'10"	8'2"
Α	Dumping height at max. lift height ft i		14'9"	16'10"	14'6"	16'8"	14'7"	17'4"	14'4"	17'1"
Ε	Max. operating height	ft in	20'5"	21'9"	20'8"	21'11"	20'11"	22'11"	21'1"	23'2"
F	Reach at max. lift height	ft in	4'11"	4'5"	5'2"	4'7"	5'	4'5"	5'4"	4'8"
L	Overall length	ft in	25'3"	26'8"	25'7"	26'10"	26'3"	27'8"	26'7"	28'
	Tipping load, straight *	lb	14,925	11,685	16,955	13,535	19,025	15,280	20,215	16,290
	Tipping load, articulated at 40° *	lb	13,160	10,340	14,970	11,970	16,775	13,470	17,835	14,375
	Operating weight *	lb	27,810	27,865	29,430	29,540	31,910	32,255	32,980	33,355
	Tire sizes		17.5R	25 L3	17.5F	R25 L3	20.5R	25 L3	20.5F	R25 L3

	ight Material Density		L 5	L 524		L 528		L 538		42
Light Mulcilal Delisity		STD	HL	STD	HL	STD	HL	STD	HL	
	Geometry		PK-QC							
	Cutting tools		BOCE							
	Bucket capacity	yd ³	6.5	4.6	7.2	5.2	7.8	5.9	8.8	6.5
	Bucket width	ft in	8'10"	8'2"	8'10"	8'10"	8'10"	8'10"	9'8"	8'10"
Α	Dumping height at max. lift height	ft in	14'8"	17'3"	14'7"	17'3"	14'8"	17'3"	14'6"	17'3"
Ε	Max. operating height	ft in	21'4"	22'8"	21'9"	22'11"	22'2"	23'3"	22'5"	23'6"
F	Reach at max. lift height	ft in	5'5"	4'10"	5'6"	4'10"	5'4"	4'9"	5'3"	4'10"
L	Overall length	ft in	25'9"	27'5"	25'10"	27'5"	26'7"	28'3"	26'11"	28'5"
	Tipping load, straight *	lb	15,090	11,420	17,705	13,340	20,415	15,540	21,605	16,800
	Tipping load, articulated at 40° *	lb	13,315	10,075	15,630	11,775	17,990	13,715	19,050	14,815
	Operating weight *	lb	27,890	28,220	29,385	29,740	31,570	32,055	32,915	33,180
	Tire sizes		17.5F	25 L3	17.5F	R25 L3	20.5R	25 L3	20.5F	R25 L3

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

STD = Standard lift arm length

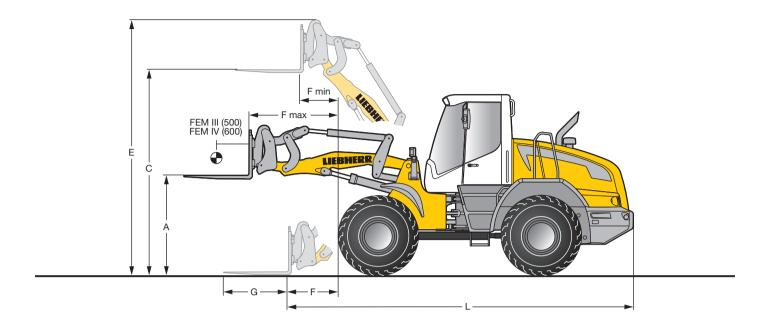
PK-QC = Parallel linkage including hydraulic quick coupler

HL = High Lift

BOCE = Bolt-on cutting edge

Attachment

Fork Carrier and Fork



Fork	Carrier and Fork		L 5	24	L 5	28	L 5	38	L 5	42	L 5	38	L 5	42
	Fork		FEM		A III			FEM IV						
	Geometry		ZK-QC	PK-QC	ZK-QC	PK-QC	ZK-QC	PK-QC	ZK-QC	PK-QC	ZK-QC	PK-QC	ZK-QC	PK-QC
	Lift arm length	ft in	7'10"	8'2"	7'10"	8'2"	8'2"	8'2"	8'2"	8'2"	8'2"	8'2"	8'2"	8'2"
Α	Lifting height at max. reach	ft in	5'7"	5'7"	5'7"	5'7"	5'10"	5'8"	5'10"	5'8"	5'9"	5'8"	5'9"	5'8"
С	Max. lifting height	ft in	11'9"	12'	11'9"	12'	12'3"	12'2"	12'3"	12'2"	12'2"	12'	12'2"	12'
E	Max. operating height	ft in	14'10"	15'	14'10"	15'	15'4"	15'2"	15'4"	15'2"	15'5"	15'1"	15'5"	15'1"
F	Reach at loading position	ft in	3'2"	3'8"	3'2"	3'7"	3'1"	3'2"	3'1"	3'2"	3'2"	3'3"	3'2"	3'3"
F max.	Max. reach	ft in	5'4"	5'8"	5'4"	5'8"	5'4"	5'4"	5'4"	5'4"	5'4"	5'3"	5'4"	5'3"
F min.	Reach at max. lifting height	ft in	2'3"	2'7"	2'3"	2'6"	2'3"	2'3"	2'3"	2'3"	2'3"	3'2"	2'3"	3'2"
G	Fork length	ft in	3'11"	3'11"	3'11"	3'11"	3'11"	3'11"	3'11"	3'11"	3'11"	3'11"	3'11"	3'11"
L	Length – basic machine													
	without forks	ft in	20'4"	20'9"	20'4"	20'9"	20'10"	21'	20'10"	21'	20'9"	20'11"	20'9"	20'11"
	Tipping load, straight *	lb	13,230	14,285	14,860	16,225	17,370	17,965	18,630	19,290	17,220	17,815	18,475	19,070
	Tipping load, articulated at 40° *	lb	11,685	12,565	13,050	14,350	15,300	15,875	16,425	16,995	15,125	15,695	16,315	16,865
	Recommended payload for uneven ground = 60% of													
	tipping load, articulated 1)	lb	7,010	7,540	7,890	8,600	9,150	9,525	9,835	10,185	8,975	9,415	9,745	10,030
	Recommended payload for													
	smooth surfaces = 80% of													
	tipping load, articulated 1)	lb	8,840 2)	10,095	9,2602)	11,025 3)	11,0253)	11,0253)	11,025 3)	11,025 3)	11,575	12,565	11,905 2)	13,230
	Operating weight *	lb	23,370	24,825	24,825	26,235	28,000	28,440	29,055	29,365	28,660	28,990	29,540	29,870
	Tire sizes		17.5F	R25 L3	17.5F	R25 L3	20.5R	25 L3	20.5F	R25 L3	20.5F	25 L3	20.5R	R25 L3

- * The figures shown here are valid with tires above and include all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tires and optional equipment will change the operating weight and tipping load. (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 11,025 lb

ZK-QC = Z-bar linkage including hydraulic quick coupler

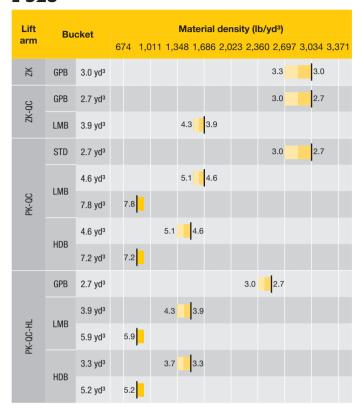
PK-QC = Parallel linkage including hydraulic quick coupler

Bucket Selection

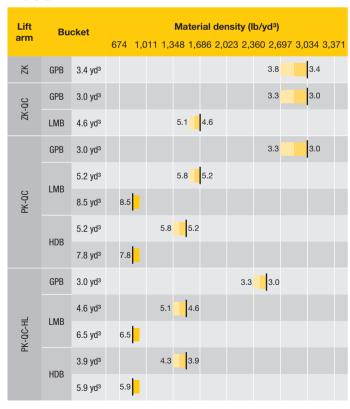
L 524

Lift Material density (lb/yd³) **Bucket** arm 674 1,011 1,348 1,686 2,023 2,360 2,697 3,034 3,371 2.7 2.7 yd³ 3.0 X GPB 2.4 GPB 2.4 yd3 2.6 3.4 3.1 LMB 3.1 yd³ GPB 2.6 2.4 2.4 yd3 4.3 3.9 3.9 yd³ LMB 7.2 7.2 yd³ 3.9 4.3 3.9 yd³ HDB 6.5 6.5 yd3 2.6 2.4 GPB 2.4 yd³ 3.3 3.3 yd^{3} 5.2 5.2 yd³ 2.9 2.9 yd3 3.1 4.6 yd3

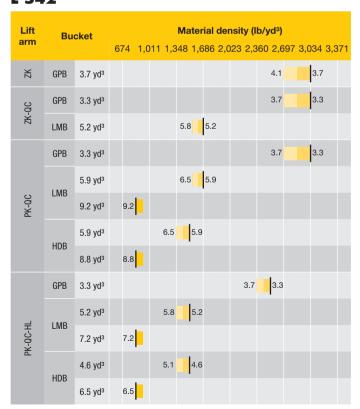
L 528



L 538



L 542



Bucket Selection

Bucket Filling Factor



I ift Arm

ZK	Z-bar linkage, standard lift arm length
ZK-QC	Z-bar linkage including hydraulic quick coupler, standard lift arm length
PK-QC	Parallel linkage including hydraulic quick coupler, standard lift arm length
PK-QC-HL	Parallel linkage including hydraulic quick coupler, High Lift

DUCKET	
GPB	General purpose bucket (Rehandling bucket)
LMB	Light material bucket
HDB	High-dump bucket

Bulk Material Densities and Bucket Filling Factors

		lb/yd ³	3 %
Gravel,	moist	3,203	105
	dry	2,697	105
	crushed stone	2,528	100
Sand,	dry	2,528	105
	wet	3,203	110
Gravel and sand,	dry	2,865	105
	wet	3,371	100
Sand / clay		2,697	110
Clay,	natural	2,697	110
	dry	2,360	110
Clay / gravel,	dry	2,360	110
	wet	2,697	100

		ID/ya ³	%
Earth,	dry	2,191	115
	wet excavated	2,697	110
Topsoil		1,854	110
Basalt		3,287	100
Granite		3,034	95
Sandstone		2,697	100
Slate		2,950	100
Bauxite		2,360	100
Limestone		2,697	100
Gypsum,	broken	3,034	100
Coke		843	110
Slag.	broken	3.034	100

		lb/yd ³	%			
Glass waste,	broken	2,360	100			
	solid	1,686	100			
Compost,	dry	1,348	105			
	wet	1,686	110			
Wood chips / saw dust 843						
Paper,	shredded / loose	1,011	110			
	recovered paper / cardboard	1,686	110			
Coal,	heavy material density	2,023	110			
	light material density	1,517	110			
Waste,	domestic waste	843	100			
	bulky waste	1,686	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.

Tipping load, articulated Pay load =

Pay load (lb) Bucket capacity = Specific bulk weight of material (lb/yd3)

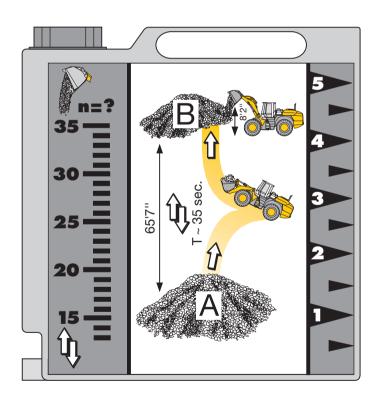
The Liebherr Wheel Loaders

		P	PA			
Wheel Load	er					
		L 524	L 528	L 538	L 542	L 550
Tipping load	lb	16,535	18,740	20,945	22,485	26,785
Bucket capacity	yd ³	2.7	3.0	3.4	3.7	4.2
Operating weight	lb	22,930	24,030	28,220	29,540	38,140
Engine output	kW/HP(I)	90/121	100/134	115/154	120/161	129/173

Wheel Load	-				
wneel Load	er	L 556	L 566	L 580	L 586
Tipping load	lb	29,870	34,720	40,785	45,040
Bucket capacity	yd ³	4.7	5.2	6.5	7.2
Operating weight	lb	39,460	51,035	55,510	69,180
Engine output	kW/HP(I)	140/188	190/255	215/288	250/335

04.13

Environmental Protection Can Help You Earn Money!



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

The test consits on determining the number of loading cycles that can be carried out with 1.3 gal of diesel. The material is taken from pile A and carried over a distance of 65'7" 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 8'2". The working cycles continue until the 1.3 gal of diesel in the external measuring tank have been used up. The loader's fuel consumption per operating hour is calculated as follows:

400	_	Consumption	
Number of loading cycles	_	per hour	

Values for the	Liebherr wl	neel loade	ers	
	Numbers of working cycles	Gallons/ 100 US tons	Gallons/ hour	Ø Gallons/ hour**
L 524: 2.7 yd ³	n = 47	0.82	2.25	1.88
L 528: 3.0 yd ³	n = 46	0.76	2.30	1.90
L 538: 3.4 yd ³	n = 39	0.79	2.72	2.25
L 542: 3.7 yd ³	n = 38	0.76	2.77	2.30
L 550: 4.2 yd ³	n = 31	0.82	3.41	2.88
L 556: 4.7 yd ³	n = 27	0.84	3.83	3.20
L 566: 5.2 yd ³	n = 22	0.93	4.81	3.99
L 580: 6.5 yd ³	n = 20	0.82	5.28	4.28
L 586: 7.2 yd ³	n = 14	1.05	7.53*	5.42

- * Equipped with L5 tires and 7.2 yd³ HD bucket
- ** Wheel loader in practical customer applications (with individual machine configurations).

Tires

经	Size and		Change of	Width	Change in vertical	
	tread code		operating weight	over tires	dimensions	Use
			lb	ft in	ft in	
L 524/L 5						
Bridgestone	17.5R25 VUT	L2	- 104	8'	+ 0.16"	Gravel, Earthworks, Clay (all ground conditions)
Bridgestone	17.5R25 VJT	L3	+ 201	8'	+ 0.71"	Bulk material (firm ground conditions)
Bridgestone	17.5R25 VSDL	L5	+ 1,407	8'	+ 2.24"	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	20.5R25 VJT	L3	+ 1,182	8'	+ 2.76"	Bulk material (firm ground conditions)
Bridgestone	20.5R25 VSDL	L5	+ 2,643	8'	+ 4.80"	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	550/65R25 VTS	L3	+ 853	8'1"	+ 0.47"	Gravel (all ground conditions)
Goodyear	17.5R25 RT-3B	L3	+ 364	8'1"	+ 0.83"	Gravel (all ground conditions)
Goodyear	17.5R25 TL-3A+	L3	+ 514	8'1"	+ 0.91"	Sand, Gravel, Earthworks, Clay (all ground condition
Goodyear	17.5R25 RL-4K	L4	+ 1,224	8'1"	+ 1.65"	Gravel, Industry, Stone (firm ground conditions)
Goodyear	17.5R25 RL-5K	L5	+ 1,497	8'1"	+ 1.65"	Stone, Scrap, Recycling (firm ground conditions)
Goodyear	20.5R25 RT-3B	L3	+ 1,168	8'	+ 3.07"	Gravel (all ground conditions)
Goodyear	20.5R25 TL-3A+	L3	+ 1,488	8'1"	+ 2.87"	Sand, Gravel, Earthworks, Clay (all ground condition
Goodyear	20.5R25 GP-4D	L4	+ 1,867	8'	+ 3.23"	Gravel, Industry, Wood (firm ground conditions)
Goodyear	20.5R25 RL-4K	L4	+ 2,440	8'1"	+ 3.82"	Gravel, Industry, Stone (firm ground conditions)
Goodyear	20.5R25 RL-5K	L5	+ 2,802	8'1"	+ 4.37"	Stone, Scrap, Recycling (firm ground conditions)
Michelin	17.5R25 XTLA	L2	- 154	8'1"	+ 0.71"	Gravel, Earthworks, Clay (all ground conditions)
Michelin	17.5R25 XHA	L3	0	8'	0	Sand, Gravel (all ground conditions)
Michelin	17.5R25 XLD D2A	L5	+ 802	8'1"	+ 1.46"	Stone, Mining spoil (firm ground conditions)
Michelin	17.5R25 X MINE	L5	+ 1,208	8'2"	+ 2.32"	Stone, Scrap, Recycling (firm ground conditions)
Michelin	20.5R25 XTLA	L2	+ 877	8'	+ 2.17"	Gravel, Earthworks, Clay (all ground conditions)
Michelin	20.5R25 XHA2	L3	+ 1,144	8'	+ 2.44"	Sand, Gravel (all ground conditions)
Michelin	20.5R25 XLD D2A	L5	+ 2,094	8'	+ 3.62"	Stone, Mining spoil (firm ground conditions)
Michelin	20.5R25 X MINE	L5	+ 2,685	8'	+ 4.21"	Stone, Scrap, Recycling (firm ground conditions)
Michelin	550/65R25 XLD65	L3	+ 963	8'1"	+ 0.71"	Gravel (all ground conditions)
/						
L 538/L 5		1.0	. 07	01011	. 0.04"	Dull and the side (films are all times)
Bridgestone	20.5R25 VJT	L3	+ 37	8'2"	+ 0.31"	Bulk material (firm ground conditions)
Bridgestone	20.5R25 VSDL	L5	+ 1,477	8'2"	+ 2.36"	Stone, Scrap, Recycling (firm ground conditions)
Bridgestone	550/65R25 VTS	L3	- 97	8'2"	- 1.97"	Gravel (all ground conditions)
Bridgestone	650/65R25 VTS	L3	+ 1,312	8'8"	+ 0.63"	Gravel (all ground conditions)
Goodyear	20.5R25 RT-3B	L3	+ 24	8'2"	+ 0.63"	Gravel (all ground conditions)
Goodyear	20.5R25 TL-3A+	L3	+ 344	8'2"	+ 0.43"	Sand, Gravel, Earthworks, Clay (all ground condition
Goodyear	20.5R25 GP-4D	L4	+ 723	8'1"	+ 0.79"	Gravel, Industry, Wood (firm ground conditions)
Goodyear	20.5R25 RL-4K	L4	+ 1,296	8'2"	+ 1.38"	Gravel, Industry, Stone (firm ground conditions)
Goodyear	20.5R25 RL-5K	L5	+ 1,658	8'2"	+ 1.93"	Stone, Scrap, Recycling (firm ground conditions)
Michelin	20.5R25 XTLA	L2	- 267	8'3"	- 0.28"	Gravel, Earthworks, Clay (all ground conditions)
Michelin	20.5R25 XHA2	L3	0	8'2"	0	Sand, Gravel (all ground conditions)
Michelin	20.5R25 XLD D2A	L5	+ 950	8'2"	+ 1.18"	Stone, Mining spoil (firm ground conditions)
Michelin	20.5R25 X MINE	L5	+ 1,541	8'1"	+ 1.77"	Stone, Scrap, Recycling (firm ground conditions)
Michelin	550/65R25 XLD65	L3	- 181	8'2"	- 1.73"	Gravel (all ground conditions)
Michelin	650/65R25 XLD65	L3	+ 1,054	8'8"	- 0.28"	Gravel (all ground conditions)

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

Equipment

	Basic Wheel Loader	524	528	538	542
C	Crash protection, rear	+	+	+	+
Α	ccess to facilitate windscreen cleaning	•	•	•	•
E	xhaust pipe – stainless steel	+	+	+	+
Α	automatic central lubrication system	+	+	+	+
Е	Battery master switch	•	•	•	•
	Diesel particle filter	•	•	•	•
	lectronical theft protection	+	+	+	+
Е	lectronic tractive force regulation for difficult ground conditions	•	•	•	•
Α	automatic travel mode	•	•	•	•
S	Speed range selection	•	•	•	•
	Priver identification (in conjunction with electronic theft lock)	+	+	+	+
	Ride control	+	+	+	+
	arking brake	•	•	•	•
	Particle protection for radiator	+	+	+	+
	Speed limitation, 12.4 mph	+	+	+	+
	Speed limitation V _{max}	•	•	•	•
	arge-mesh radiator	•	•	•	•
	Pre-heat system for cold starting	•	•	•	•
	Combined inching-braking system	•	•	•	•
-	uel tank steel version	+	+	+	+
	Multi-disc limited slip differentials in both axles	•	•	•	•
	iDAT (Liebherr Data Transfer System) – one year free of charge	•	•	•	•
	iebherr biodegredable hydraulic oil	+	+	+	+
-	Reversible fan drive	•	•	•	•
	ir cleaner system with pre-filter	•	•	•	•
	mergency steering system	•	•	•	•
	Reversing obstruction detector	+	+	+	+
	Back-up alarm audible	•	•	•	•
	Back-up alarm visual	+	+	+	+
	ail lights, single version	•	•	•	•
	Rear-view monitoring camera (integrated in dispay unit)	+	+	+	+
	leadlights front, single version (on front-chassis) - halogen	•	•	•	•
	ockable doors, service flap and engine hood	•	•	•	•
	Videning for fender and rear mudguard (steel design)	+	+	+	+
	Rubber widening for rear mudguards	+	+	+	+
	ir pre-cleaner Top-Air	+	+	+	+
	lazard warning lights	•	•	•	•
	oolbox with toolkit	+	+	+	+
	Veighing device for approved or non-approved weighing ntegrated in dispay unit)	+	+	+	+
	owing hitch	•	•	•	•

Operator's Cab	524	528	538	542
Storage box	•	•	•	•
Armrest, adjustable	•	•	•	•
Exterior mirror, tiltabel	•	•	•	•
Exterior mirror, heated	+	+	+	+
Fold-out window (operator's door)	+	+	+	+
Operator's package	•	•	•	•
Operator's seat (mechanically sprung)	+	+	+	+
Operator's seat – air sprung with seat heating	•	•	•	•
Operator's seat – air sprung without seat heating	+	+	+	+
Fire extinguisher 4 lb	•	•	•	•
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	+	+	+	+
12 V Outlet	•	•	•	•
First aid kit	+	+	+	+
Hot water heater with defroster and recirculated-air system	•	•	•	•
Wide angle mirror	+	+	+	+

Audible Warnings for	524	528	538	542
Quick coupler, 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	•	٠	•	•
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	+	+	+	+

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	•	•	•	•

المرازة المراز				
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 coupler - 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	+	+	+	+
LIKUFIX	+	+	+	+
Parallel linkage including quick coupler	+	+	+	+
Parallel linkage including quick coupler - 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 and mining trucks.

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 41,000 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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