L 538 Speeder

LIEBHERR

Wheel loader

Generation
8

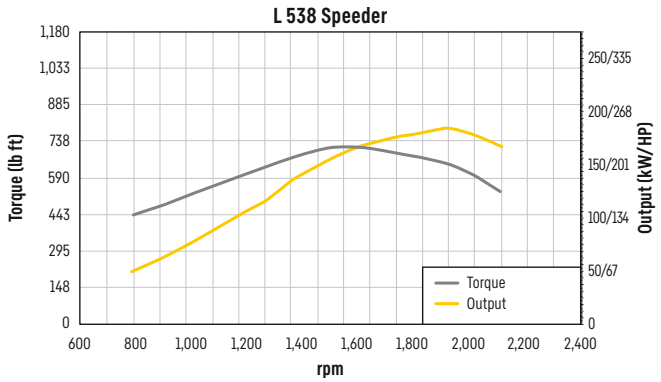
Diesel engine
Tier 4f

Tipping load
20,725 lb – 21,825 lb

Technical data

Diesel engine

Diesel engine		6068HB551
Design		Water-cooled turbocharged in-series engine with cooled exhaust gas recirculation
Cylinder inline		6
Fuel injection process		Electronic Common Rail high-pressure injection
Output to	kW / HP	181/242
ISO 9249 ~ SAE J1349	at RPM	2,000
Rated output to		
ISO 14396 / ECE-R.120	kW / HP	168 / 225
Nominal speed	at RPM	2,200
Max. torque to	lb ft	715
ISO 14396	at RPM	1,600
Displacement	in^3	415
Displacement	liters	6.8
Bore / Stroke	in	4.17" / 5.0"
Tier 4f		
Harmful emissions values		In accordance with EPA 40 CFR part 1039 and CARB 13 CCR section 2423
Emission control		SCR technology and closed diesel particle filter system
Air cleaner system		Dry type filter with main and safety element, pre-cleaner, service indicator on the Liebherr display
Electrical system		
Operating voltage	V	24
Battery	Ah	2 x 135
Alternator	V / A	24 / 100
Starter	V / HP	24 / 10.5



Driveline

Continuous hydrostatic driveline	
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
Filtration	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 control lever is used to control forward and reverse travel
Travel speed range	Speed range 1 ____ 0 – 5.0 mph Speed range A1 – 2 ____ 0 – 9.9 mph Speed range A1 – 3 ____ 0 – 24.9 mph forward and reverse Speeds quoted apply with the tires indicated as standard on loader model.

Brakes

Wear-free service brake	Self-locking of the hydrostatic driveline (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 ISO 3450.

Axles

Four-wheel drive		
Front axle		Fixed
Rear axle		Center pivot, with 10° oscillating angle to each side
Height of obstacles which can be driven over	ft in	1'7" with all four wheels remaining 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		6'3" with all types of tires

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
Angle of articulation	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 control lever, electro-hydraulically operated
Lifting function		Lifting, neutral, lowering Auto lifting and lowering using Liebherr control lever, float position using Liebherr control lever
Tilt function		Tilt back, neutral, dump Automatic bucket return-to-dig for tilting in and out using Liebherr control lever
Max. flow	gpm	53
Max. pressure	psi	5,076

Attachment

Geometry		Powerful, optimized z-bar kinematics with one tilt cylinder, optional hydraulic quick coupler
Bearings		Sealed
Cycle time at nominal load		ZK
Lifting	s	5.5
Dumping	s	1.9
Lowering (empty)	s	4.9

Operator's cab

Design	Elastic mounted, noise-proof cab ROPS roll over protection per EN ISO 3471 / EN 474-1 FOPS falling objects protection per EN ISO 3449 / EN 474-1, Cat. II Driver's cab door with 105° opening angle and opening window with 5° gap opener or 170° opening, right side sliding side window, front windscreen made of laminated safety glass, green tinted as standard, side panels with single-pane safety glass ESG, green tinted, heated rear window ESG. Continuously adjustable steering column
Liebherr operator's seat	6 way adjustable, vibration-damped operator's seat "Comfort" with seat, depth and incline adjustment as standard (air-cushioned with seat heating adjustable to operator's weight), Liebherr control lever mounted into the operator's seat as standard
Cab heating andventilation	2-level air control, cooling water heating, defroster and air conditioning via manual nozzle position or electronic valve control for head and front area, as well as electronic fresh / recirculated air control, electrically heated rear window, filter system with pre-filter, fresh air filter and recirculated air filter, easily replaced, air condition / automatic air conditioning system with new improved cooling output optional

Vibration emissions		
Vibrations in the hand/arm	ft/s^2	≤ 2.5
Vibrations through the whole body	ft/s^2	≤ 0.5

Sound level

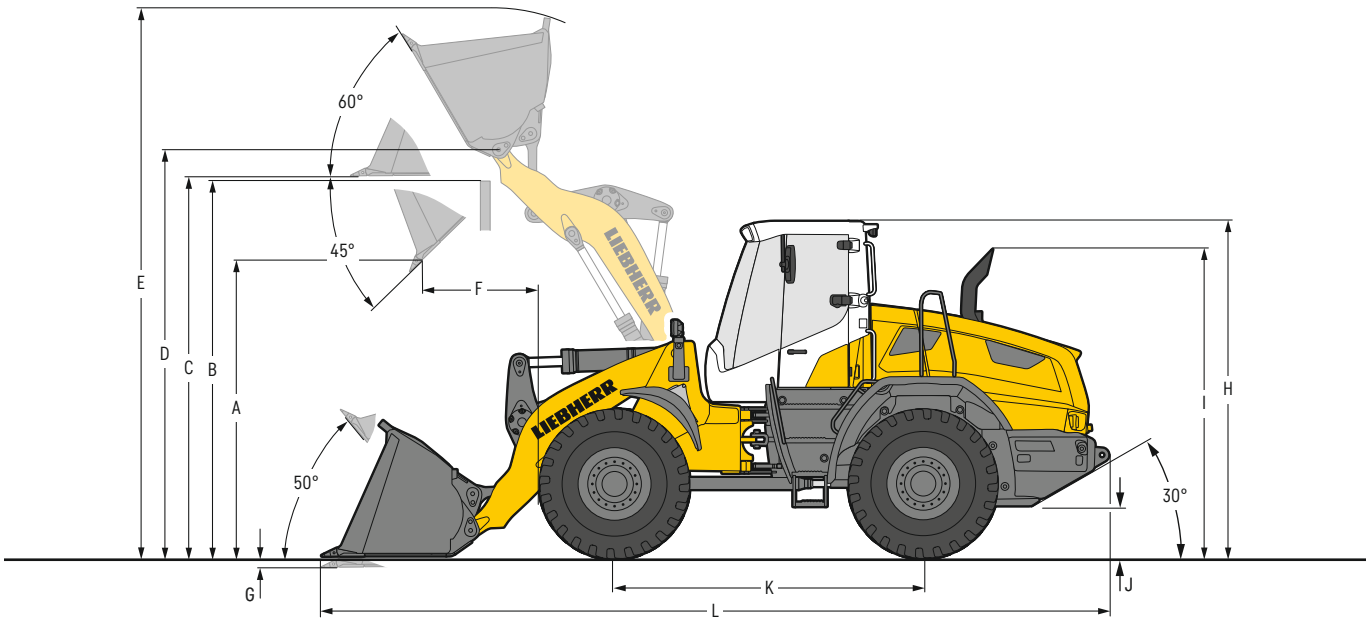
Sound pressure level to ISO 6396		
L_{pA} (inside cab)	dB(A)	69
Sound power level to 2000/14/EG		
L_{WA} (surround noise)	dB(A)	104

Capacities

Fuel tank (plastic design)	gal	54.2
Fuel tank (steel version, optional)	gal	54.2
DEF tank	gal	5.3
Engine oil (inclusive filter change)	gal	6.2
Transmission	gal	0.7
Coolant	gal	7
Front axle / wheel hubs	gal	5 / 0.92
Rear axle / wheel hubs	gal	5 / 0.92
Hydraulic tank	gal	25
Hydraulic system, total	gal	47.6

Dimensions

Loading bucket



Loading bucket

Geometry		ZK	ZK-QH
Cutting tools		T	T
Lift arm length	ft in	8'8"	8'8"
Bucket capacity according to ISO 7546**	yd^3	3.4	3.1
Specific material density	lb/yd^3	3,034	3,034
Bucket width	ft in	8'11"	8'3"
A Dumping height at max. lift height and 45° discharge	ft in	9'9"	9'3"
B Dump-over height	ft in	11'7"	11'7"
C Max. height of bucket bottom	ft in	12'2"	12'2"
D Max. height of bucket pivot point	ft in	13'1"	13'1"
E Max. operating height	ft in	17'3"	17'8"
F Reach at max. lift height and 45° discharge	ft in	3'7"	3'12"
G Digging depth	ft in	4"	4"
H Height above operator's cab[1)]	ft in	10'8"	10'8"
I Height above exhaust	ft in	9'8"	9'8"
J Ground clearance	ft in	1'5"	1'5"
K Wheelbase	ft in	9'11"	9'11"
L Overall length	ft in	25'	25'7"
Turning circle radius over outside bucket edge	ft in	20'2"	20'
Breakout force (SAE)	lbf	28,100	28,855
Tipping load, straight*	lb	25,355	23,590
Tipping load, fully articulated*	lb	21,825	20,725
Operating weight*	lb	32,740	33,510
Tyre size		20.5R25 L3	

* The figures shown include the above tires, 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, fully articulated according to ISO 14397-1)

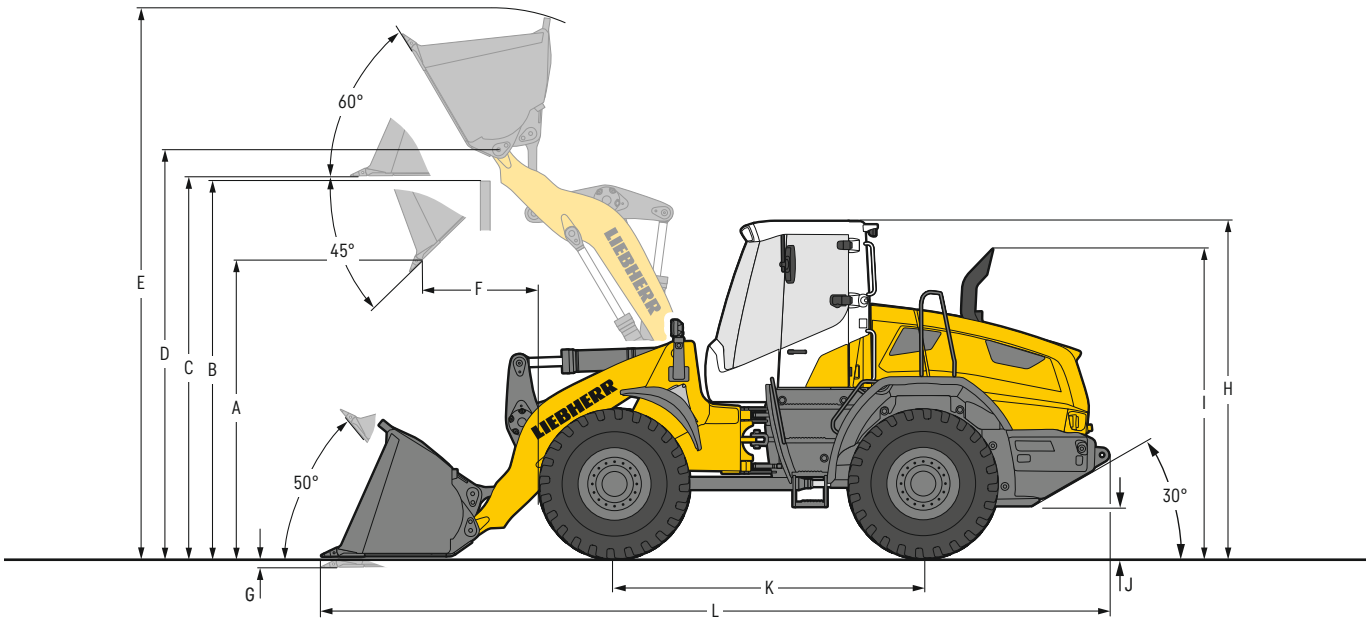
** Actual bucket capacity may be approx. 10 % larger than the calculation according to ISO 7546 standard. The degree to which the bucket can be filled depends on the material – see page 11.

1) With the optional "comfort safety door (can be opened 180°)", the "H" value increases by 5" when door is open.

ZK = Z-bar linkage
ZK-QC = Z-bar linkage incl. quick coupler
T = Welded-on tooth holder with add-on teeth

Dimensions

High lift arm/standard bucket



Loading bucket

Geometry		ZK	ZK-QH
Cutting tools		T	T
Lift arm length	ft in	9'10"	9'10"
Bucket capacity according to ISO 7546**	yd^3	3.1	2.9
Specific material density	lb/yd^3	2,697	2,697
Bucket width	ft in	8'3"	8'3"
A Dumping height at max. lift height and 45° discharge	ft in	11'6"	11'2"
B Dump-over height	ft in	13'4"	13'4"
C Max. height of bucket bottom	ft in	13'12"	13'12"
D Max. height of bucket pivot point	ft in	14'10"	14'10"
E Max. operating height	ft in	19'1"	19'3"
F Reach at max. lift height and 45° discharge	ft in	3'1"	3'4"
G Digging depth	ft in	5"	5"
H Height above operator's cab[1)]	ft in	10'8"	10'8"
I Height above exhaust	ft in	9'8"	9'8"
J Ground clearance	ft in	1'5"	1'5"
K Wheelbase	ft in	9'11"	9'11"
L Overall length	ft in	26'6"	26'11"
Turning circle radius over outside bucket edge	ft in	20'6"	20'8"
Breakout force (SAE)	lbf	29,225	26,980
Tipping load, straight*	lb	21,165	19,620
Tipping load, fully articulated*	lb	18,080	16,755
Operating weight*	lb	32,980	33,863
Tyre size		20.5R25 L3	

* The figures shown include the above tires, 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, fully articulated 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 11.

1) With the optional "comfort safety door (can be opened 180°)", the "H" value increases by 5" when door is open.

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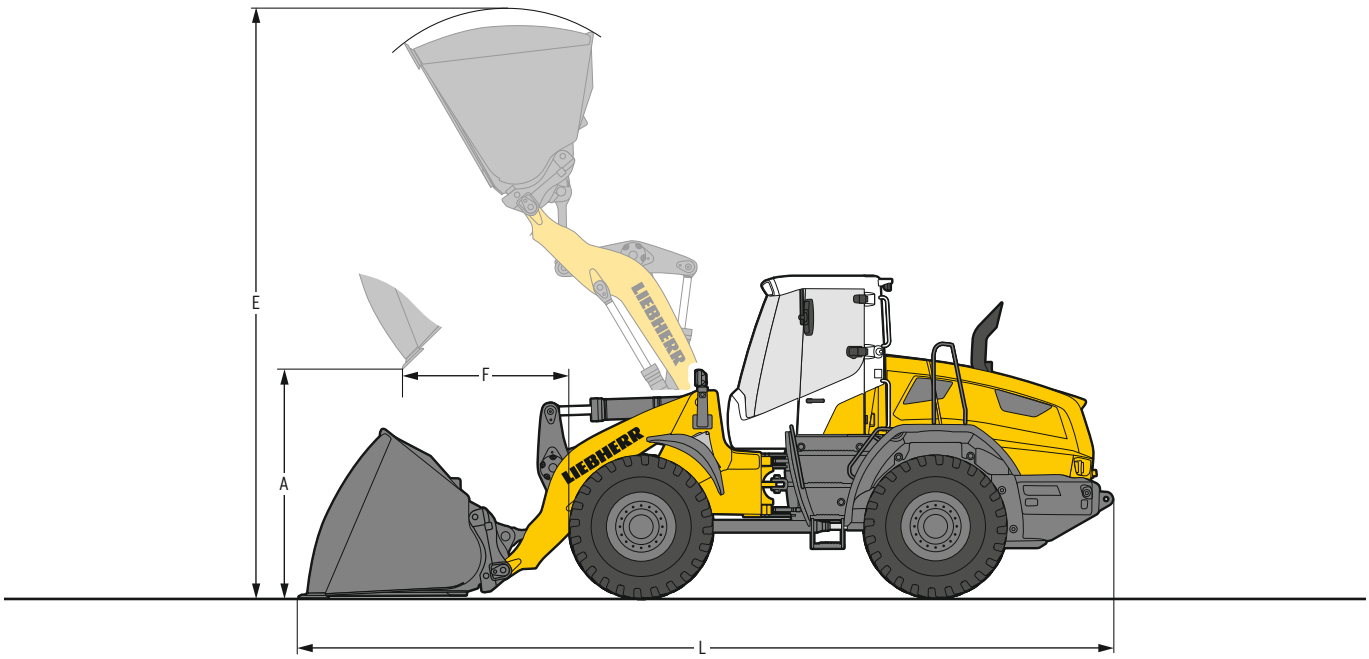
Attachment

Light material bucket



Heavy material density

Geometry		ZK	ZK-QH
Cutting tools		BOCE	BOCE
Bucket capacity	**yd³**	5.2	5.2
Specific material density	**lb/yd³**	1,770	1,686
Bucket width	**ft in**	8'10"	8'10"
A Dumping height at max. lift height	**ft in**	8'6"	8'3"
E Max. operating height	**ft in**	18'1"	18'5"
F Reach at maximum lift height	**ft in**	4'8"	4'11"
L Overall length	**ft in**	26'2"	26'6"
Tipping load, straight*	**lb**	24,030	22,710
Tipping load, fully articulated*	**lb**	20,505	19,620
Operating weight*	**lb**	33,290	34.215
Tyre size		20.5R25 L3	

Light material density

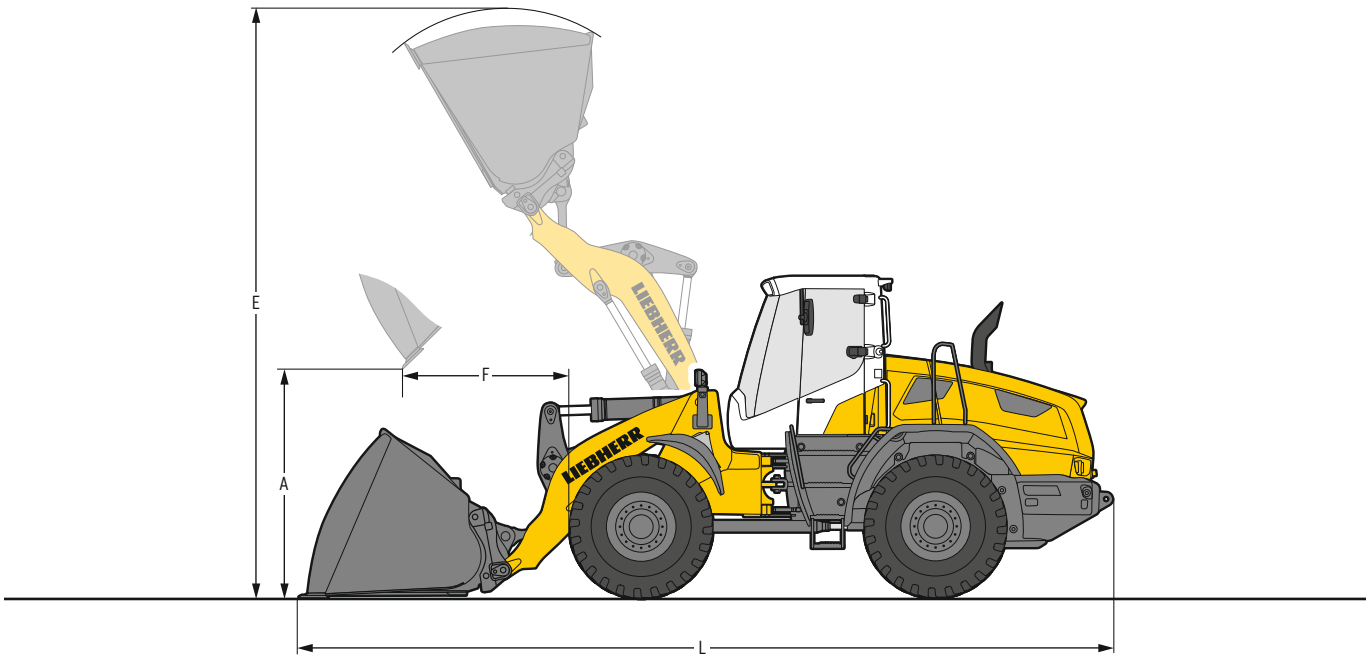
Geometry		ZK-QH
Cutting tools		BOCE
Bucket capacity	**yd³**	8.5
Specific material density	**lb/yd³**	843
Bucket width	**ft in**	8'10"
A Dumping height at max. lift height	**ft in**	7'2"
E Max. operating height	**ft in**	19'11"
F Reach at maximum lift height	**ft in**	6'
L Overall length	**ft in**	28'1"
Tipping load, straight*	**lb**	21,605
Tipping load, fully articulated*	**lb**	18,520
Operating weight*	**lb**	35,100
Tyre size		20.5R25 L3

* The figures shown include the above tires, 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, fully articulated according to ISO 14397-1)

ZK = Z-bar linkage
ZK-QH = Z-bar linkage incl. quick hitch
BOCE = Bolt-on cutting edge

Attachment

High lift arm/light material bucket



Heavy material density

Geometry		ZK	ZK-QH
Cutting tools		BOCE	BOCE
Bucket capacity	**yd³**	5.2	5.2
Specific material density	**lb/yd³**	1,433	1,348
Bucket width	**ft in**	8'10"	8'10"
A Dumping height at max. lift height	**ft in**	10'3"	10'
E Max. operating height	**ft in**	19'11"	20'3"
F Reach at maximum lift height	**ft in**	4'2"	4'5"
L Overall length	**ft in**	27'7"	27'12"
Tipping load, straight*	**lb**	22,270	21,165
Tipping load, fully articulated*	**lb**	18,960	17,860
Operating weight*	**lb**	34,725	35,495
Tyre size		20.5R25 L3	

Light material density

Geometry		ZK-QH
Cutting tools		BOCE
Bucket capacity	**yd³**	8.5
Specific material density	**lb/yd³**	843
Bucket width	**ft in**	8'10"
A Dumping height at max. lift height	**ft in**	9'4"
E Max. operating height	**ft in**	21'2"
F Reach at maximum lift height	**ft in**	5'1"
L Overall length	**ft in**	28'12"
Tipping load, straight*	**lb**	20,945
Tipping load, fully articulated*	**lb**	17,635
Operating weight*	**lb**	35,825
Tyre size		20.5R25 L3

* The figures shown include the above tires, 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, fully articulated according to ISO 14397-1)

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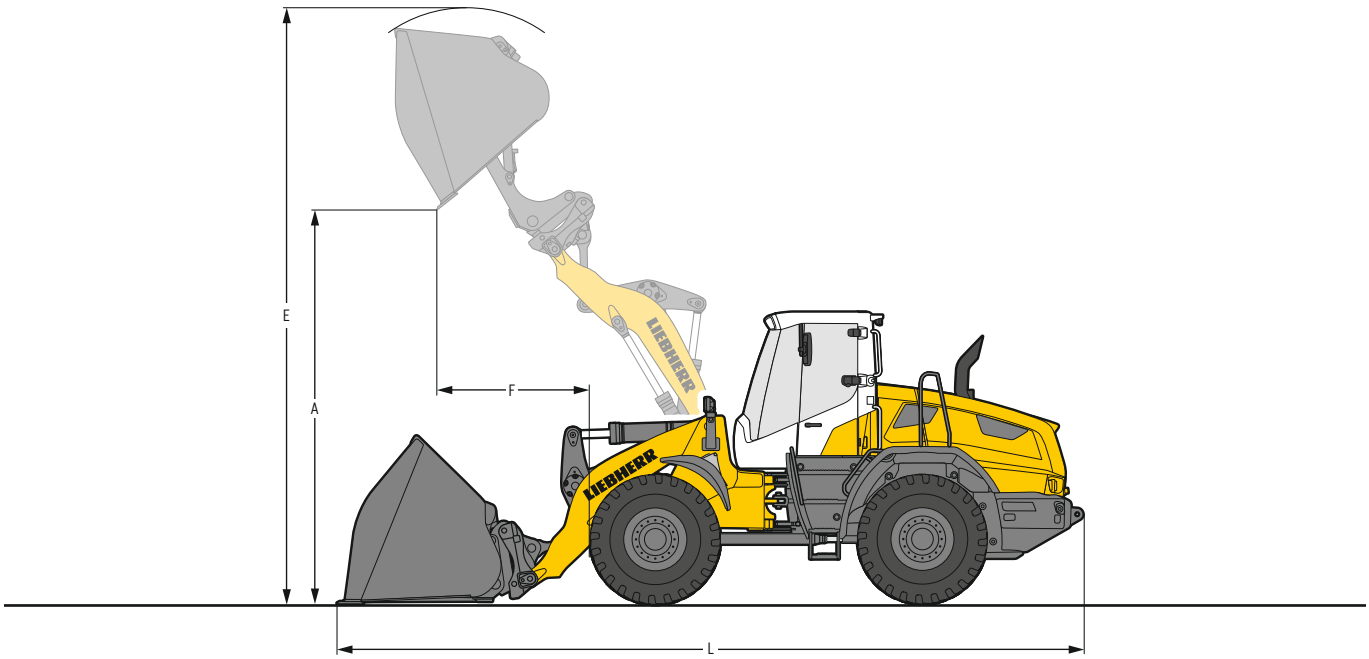
BOCE = Bolt-on cutting edge

Attachment

High-Dump bucket



Heavy material density

Geometry		ZK	ZK-QH
Cutting tools		BOCE	BOCE
Bucket capacity	yd³	5.2	5.2
Specific material density	lb/yd³	1,854	1,770
Bucket width	ft in	8'10"	8'10"
A Dumping height at max. lift height	ft in	14'11"	15'4"
E Max. operating height	ft in	20'10"	21'6"
F Reach at maximum lift height	ft in	4'8"	4'10"
L Overall length	ft in	26'5"	26'8"
Tipping load, straight*	lb	22,265	21,165
Tipping load, fully articulated*	lb	18,960	17,855
Operating weight*	lb	34,725	35,495
Tyre size		20.5R25 L3	

Light material density

Geometry		ZK-QH
Cutting tools		BOCE
Bucket capacity	yd³	7.2
Specific material density	lb/yd³	843
Bucket width	ft in	8'10"
A Dumping height at max. lift height	ft in	14'5"
E Max. operating height	ft in	22'8"
F Reach at maximum lift height	ft in	5'9"
L Overall length	ft in	27'11"
Tipping load, straight*	lb	20,945
Tipping load, fully articulated*	lb	17,635
Operating weight*	lb	35,825
Tyre size		20.5R25 L3

* The figures shown include the above tires, 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, fully articulated according to ISO 14397-1)

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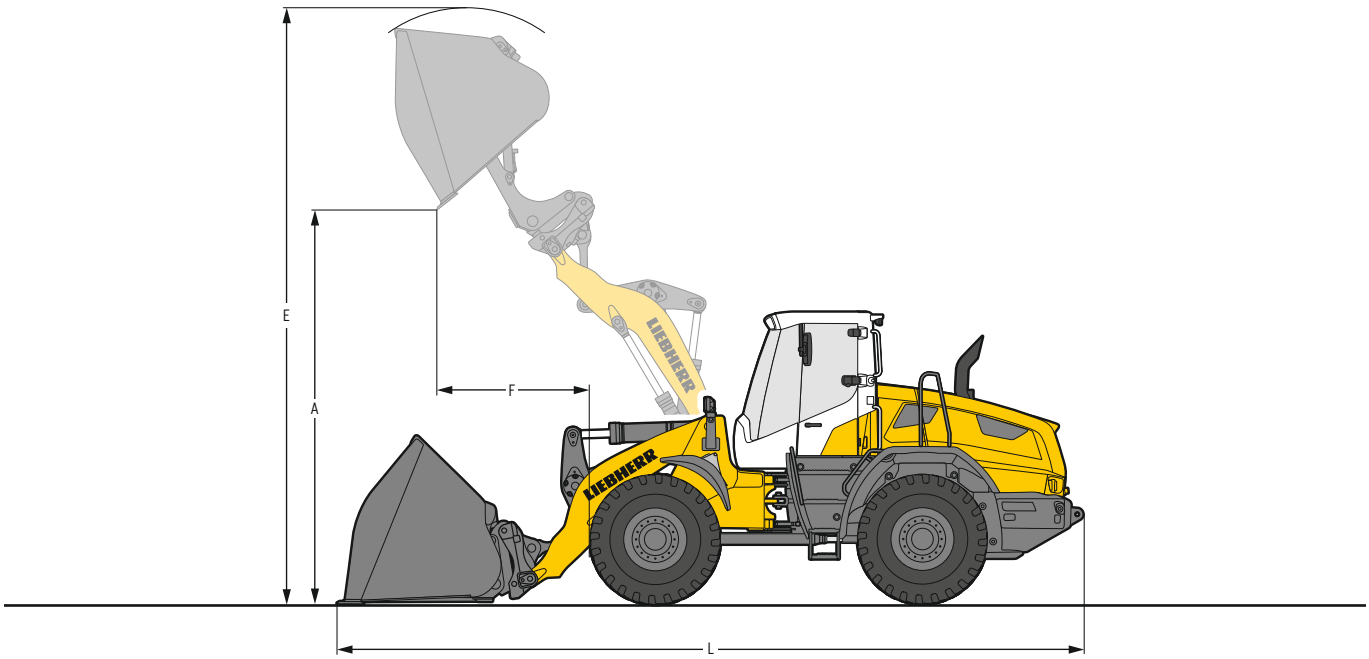
ZK-QH = Z-bar linkage incl. quick hitch
BOCE = Bolt-on cutting edge

Attachment

High lift arm/high dump bucket



Heavy material density

Geometry		ZK	ZK-QH
Cutting tools		BOCE	BOCE
Bucket capacity	yd³	5.2	5.2
Specific material density	lb/yd³	1,433	1,348
Bucket width	ft in	8'10"	8'10"
A Dumping height at max. lift height	ft in	16'8"	17'2"
E Max. operating height	ft in	22'8"	23'3"
F Reach at maximum lift height	ft in	4'3"	4'4"
L Overall length	ft in	27'10"	28'2"
Tipping load, straight*	lb	18,300	17,195
Tipping load, fully articulated*	lb	15,430	14,330
Operating weight*	lb	35,165	35,935
Tyre size		20.5R25 L3	

Light material density

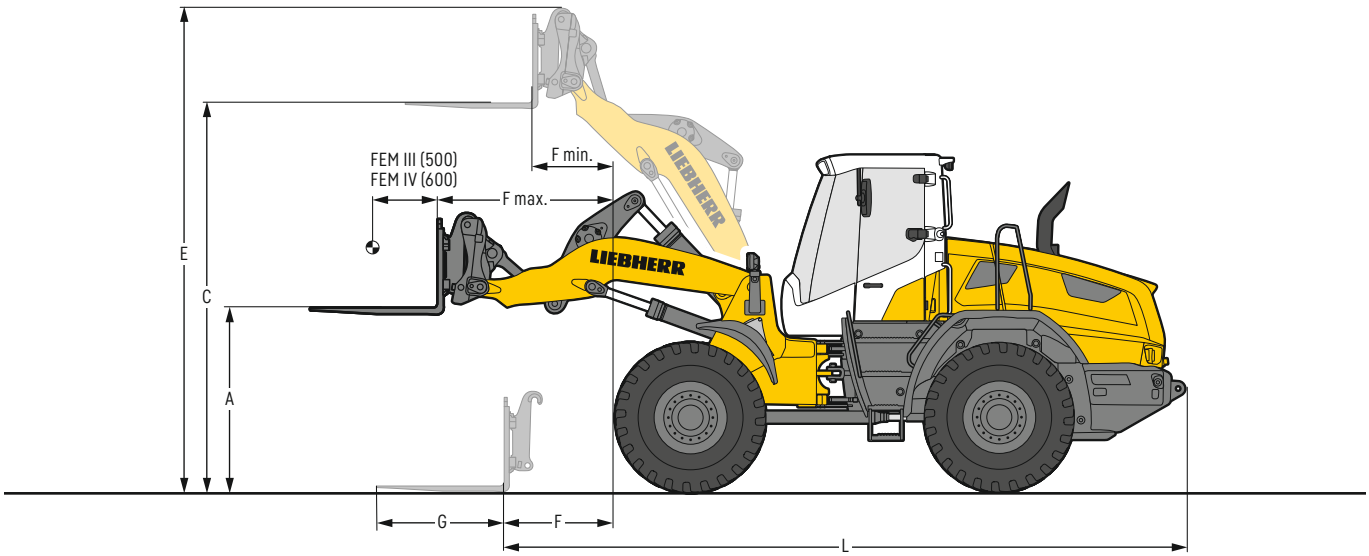
Geometry		ZK-QH
Cutting tools		BOCE
Bucket capacity	yd³	6.5
Specific material density	lb/yd³	843
Bucket width	ft in	8'10"
A Dumping height at max. lift height	ft in	16'5"
E Max. operating height	ft in	23'11"
F Reach at maximum lift height	ft in	4'11"
L Overall length	ft in	28'11"
Tipping load, straight*	lb	17,195
Tipping load, fully articulated*	lb	14,330
Operating weight*	lb	36,045
Tyre size		20.5R25 L3

* The figures shown include the above tires, 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, fully articulated according to ISO 14397-1)

ZK = Z-bar linkage
ZK-QH = Z-bar linkage incl. quick hitch
BOCE = Bolt-on cutting edge

Attachment

Fork carrier and fork



Fork carrier and fork

			STD	HL	STD	HL
Fork			FEM III	FEM III	FEM IV	FEM IV
Geometry			ZK-QC	ZK-QC	ZK-QC	ZK-QC
Lift arm length		**ft in**	8'8"	9'10"	8'8"	9'10"
A	**Lifting height at max. reach**	**ft in**	5'10"	5'10"	5'9"	5'9"
C	**Max. lifting height**	**ft in**	12'5"	14'2"	12'3"	14'
E	**Max. operating height**	**ft in**	15'5"	17'3"	15'7"	17'4"
F	**Reach at loading position**	**ft in**	3'6"	4'11"	3'7"	5'
F max.	**Max. reach**	**ft in**	5'7"	6'9"	5'7"	6'8"
F min.	**Reach at max. lifting height**	**ft in**	2'7"	2'2"	2'6"	2'1"
G	**Fork length**	**ft in**	3'11"	3'11"	4'11"	4'11"
L	**Length – basic machine**	**ft in**	21'11"	23'4"	21'12"	23'5"
Tipping load, straight*		**lb**	18,300	15,765	17,420	14,990
Tipping load, fully articulated*		**lb**	15,850	13,560	14,950	12,745
Recommended payload for uneven ground = 60 % of tipping load, articulated[1)]		**lb**	9,480	8,050	8,820	7,605
Recommended payload for smooth surfaces = 80 % of tipping load, articulated[1)]		**lb**	11,025	10,805	11,905	10,140
Operating weight*		**lb**	32,365	32,785	32,895	33,355
Tyre size			20.5R25 L3		20.5R25 L3	

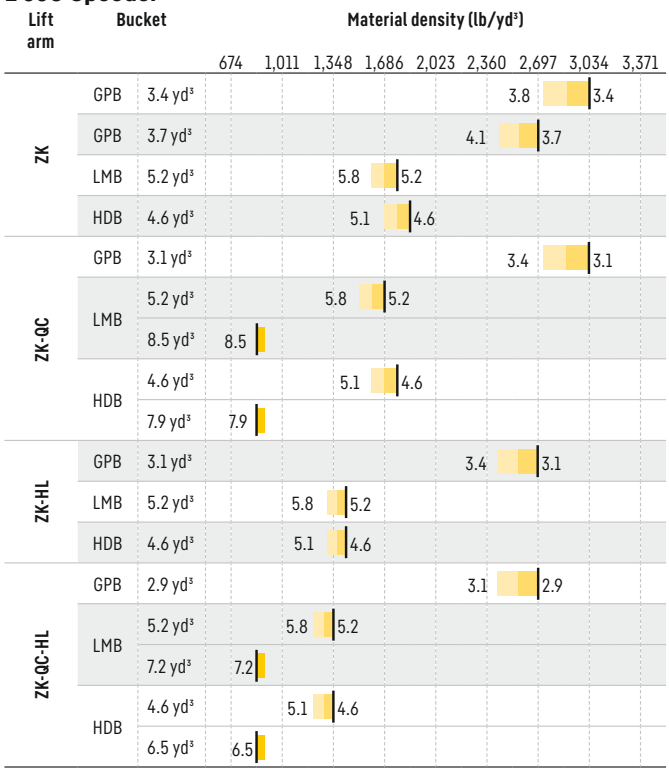
* The figures shown include the above tires, all lubricants, a full fuel tank, the ROPS / FOPS cab and the operator. Different tires and optional equipment will change the operating weight and tipping load. (Tipping load, fully articulated according to ISO 14397-1)

[1)] According to EN 474-3

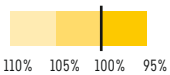
STD = Standard lift arm length
HL = High Lift
ZK-QH = Z-bar linkage incl. quick hitch

Bucket selection

L 538 Speeder



Bucket filling factor



Lift arm

ZK	Z-bar linkage, standard lift arm length
ZK-QH	Z-bar linkage incl. quick coupler, standard lift arm length
ZK-HL	Z-bar linkage, High Lift
ZK-QH-HL	Z-bar linkage incl. quick coupler, High Lift

Bucket

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

Tipping load

What is tipping load?
Load at center 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 center pivot.

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

Bucket capacity.
The bucket volume is determined from the pay load.

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

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

Bulk material densities and bucket filling factors

		lb/yd³	%
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

		lb/yd³	%
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/yd³	%
Glass waste	broken	2,360	100
	solid	1,686	100
Compost	dry	1,348	105
	wet	1,686	110
Wood chips / Saw dust		843	110
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

Tires

Tyre types

	Size and tread code		Change of operating weight lb	Width over tires ft in	Change in vertical dimensions* ft in	Use
L 538 Speeder						
Bridgestone	20.5R25 VJT	L3	37	8'2"	0.31"	Bulk material (firm ground conditions)
Continental	20.5R25 EM-Master	L3	344	8'2"	1.02"	Bulk material (firm ground conditions)
Goodyear	20.5R25 TL-3A+	L3	344	8'2"	0.43"	Sand, Gravel, Earthworks, Clay (all ground conditions)
Goodyear	20.5R25 RT-3B	L3	24	8'2"	0.63"	Gravel (all 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	620/70R26 CereXBib 2		- 802	8'7"	0.43"	Green area (agricultural tractor)
Michelin	620/75R26 MegaXBib		- 701	8'6"	2.68"	Green area (agricultural tractor)
Michelin	750/65R26 MegaXBib		- 49	9'4"	3.19"	Green area (agricultural tractor)
Mitas	750/65R26 SFT		- 137	9'5"	2.99"	Green area (agricultural tractor)
Nokian	20.5R25 Hakkapeliitta	L2	- 251	8'2"	0.24"	Winter tires, Gravel, Asphalt (all ground conditions)
Trelleborg	620/75R26 TM2000		- 337	8'8"	2.83"	Green area (agricultural tractor)

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

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

The Liebherr wheel loaders

Wheel loader

		L 538 Speeder
Tipping load	**lb**	21,825
Bucket capacity	**yd³**	3.4
Operating weight	**lb**	32,740
Engine output	**kW / HP**	168/225

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Equipment

Basic wheel loader	L 538
Tow hitch	●
Automatic engine shutdown (after 5 minutes at idle speed < 1,000 rpm)	+
Automatic central lubrication system Liebherr	+
Electr. equipment for sweeper (socket for sweeper)	+
Electronic tractive force regulation for difficult ground conditions	●
Exhaust tail pipe in stainless steel	+
Travel light (with additional headlights) on front section halogen	+
Travel light (with additional headlights) on front section LED	+
Travel light on front section – halogen	●
Travel light on front section – LED	+
Ride control	+
Fire extinguisher 13 lb	+
Fluff trap for radiator	+
External jump starter equipment	+
Speed limitor 12.4 mph	+
Plastic diesel exhaust fluid tank	●
Integrated tyre pressure monitoring system	+
Rear license panel light	+
Combined inching-braking system	●
Mudguard in plastic design	●
Steel fuel tank	+
Fuel pre-filter	●
Fuel pre-filter with pre-heating	+
Large-mesh radiator	+
Cooling water pre-heating 230 V	+
Adjustable plastic mudguard	+
Multi-disc limited slip differentials in both axles	●
Liebherr biodegredable hydraulic oil	+
Reversible fan drive	+
Automatic delayed engine stop (5 min.)	+
Plastic wheel case flare	+
Steel design adjustable wheel case flare	+
SCR technology incl. diesel particle filter	●
Auxiliary heater (Additional heating with engine preheating)	+
Air pre-cleaner TOP AIR	+
Toolbox with toolkit	+
Liebherr weighing system with “Truck Payload Assist” (cannot be certified as a regulated weights and measure device)	+

Equipment	L 538
1st hydraulic additional function on the front incl. lines	+
1st and 2nd hydraulic additional function on the front incl. lines	+
Working hydraulics lockout	●
Continuous mode, additional function	+
Pressure relief for hydraulic additional function	●
Stroke limit damping	+
Fork carrier and pallet forks	+
High-dump bucket	+
Automatic lift arm position and lowering programmable	●
Lift arms 8'8"	●
Lift arms 9'10"	+
Hydraulic quick hitch	+
Hydraulic quick hitch LIKUFIX	+
Hydraulic quick change device preparation LIKUFIX	+
Sweeper mode	+
Adjustable tipping speed	●
Tilt cylinder protection	+
Light material bucket	+
Pipe break protection (lift and tilt cylinders)	+
Automatic return high dump bucket	+
Bucket tilt assistant	+
Bucket bearing seal (standard)	●
Bucket return-to-dig (automatic and programmable)	●
Bucket return-to-dig via button	+
Float position	●
Visualisation of the equipment position	●

Equipment

Operator's cab	L 538
2-in-1 steering	+
Adapter plate for additional fastening on the multi-function rail	•
Adaptive working lighting	+
Exterior mirror, electrical adjustable, with heating	+
Exterior mirrors, folding and heated	+
Folding exterior mirror	•
Hinged window (left)	+
Access assistance to facilitate cleaning windscreen	•
Operation with multi-lever control	+
Operating hour meter (mechanic)	+
Electronical theft protection with code	+
Electronical theft protection with key	+
Automatic driver identification	+
Manual driver identification	+
"Comfort" operator's seat with "Comfort integrated" pneumatic suspension Grammer (with seat heating and 3-point belt)	+
"Comfort" operator's seat with "Comfort integrated" pneumatic suspension Grammer (with seat heating and 4-point belt)	+
"Comfort" operator's seat with "Comfort integrated" pneumatic suspension Grammer (with seat heating)	•
"Premium" operator's seat with low frequency suspension – with seat air conditioning, seat heating and head rest – Grammer	+
Particle filter F7	•
Fire extinguisher in cab 4 lb	+
Radio unit installation (preparation)	+
V_{max} speed limit adjustable via button on control unit	•
Speed limit & fixed speed	+
Seat belt warning device (visual) – green warning flashlight on cab	+
Rear window heated electrically	•
Button-operated horn via right button	+
Interior mirror left	•
Joystick steering	+
Joystick steering only	+
Floor mat	•
Clothes hook	•
Air conditioning system	+
Automatic air conditioning system	+
Comfort safety door (open through 180°)	+
Head rest	+
Cool box	+
Steering column height-adjustable	+
Steering column folding	•
LiDAT hardware	•
Liebherr control lever with mini-joystick	+
Liebherr control lever with buttons	•
Multifunctional rail, right	•

Operator's cab	L 538
Emergency steering pump	•
Premiumdisplay (Touchscreen), with height adjustment and tilting function	•
Radio "Comfort" (DAB+ / USB / AUX / BLUETOOTH / handsfree set)	+
Radio "Standard"	+
Preparation for radio installation	+
Amber beacon swiveling LED	+
Headlights activation (on the cab) for reverse travel	+
Soundproof ROPS / FOPS cab	•
Wipe and wash system	•
Windscreen wiper single-sweep function with button	+
Headlights rear, triple design, LED	+
Headlights rear, single design, halogen	+
Headlights rear, single design, LED	+
Headlights rear, double design, halogen	+
Headlights rear, double design, LED	+
Headlights front, double design, halogen	•
Headlights front, double design, LED	+
Headlights activation for reverse travel (on the cab)	+
Sliding window right	•
Slipcover for operator seat	+
Beacon activation in reverse travel	+
Sunblind rear	+
Sunblind front	+
Power socket 12 V	•
USB charging port	+
First aid kit	•
Preparation for protective ventilation device	+
Preparation for dust filtrating device	+
Wide angle mirror	+
Cigarette lighter	•

Safety	L 538
Active personnel detection at the rear	+
Main battery switch (lockable)	+
Roof camera for front area monitoring	+
Standard parking brake	•
Custom paintwork	+
Back-up alarm (acoustical)	+
Reversing alarm LED warning flashlight (visual) (adjustable to 0 – constant – reverse travel)	+
Rear space monitoring with camera	•
Skyview 360°	+

• = Standard
+ = Option
– = not available

Further information can be found in the brochure "Assistance systems for wheel loaders" or you can find here:

Here you can download our wheel loader brochures:

The Liebherr Group

Global and independent: more than 70 years of success
Liebherr was founded in 1949. With the development of the world's first mobile tower crane, Hans Liebherr laid the foundations of a successful family business which today comprises more than 140 companies on all continent and employs nearly 50,000 people. The parent company of the Group is Liebherr-International AG in Bulle (Switzerland), whose associates are exclusively members of the Liebherr family.

Technology leadership and pioneering spirit
Liebherr regards itself as a pioneer. This spirit has enabled the company to make a decisive contribution to the technological history of many industries. Today, employees around the world still share the courage of the company founder to take new paths. They are all united by a passion for technology and fascinating products and the determination to perform outstanding work for their customers.

Widely diversified product portfolio
Not only is Liebherr one of the biggest construction equipment manufacturers in the world, it also provides high-quality, user-oriented products and services in a wide range of other areas. The product portfolio includes the segments earthmoving, material handling technology, deep foundation machines, mining, mobile and crawler cranes, tower cranes, concrete technology, maritime cranes, aerospace and transportation systems, gear technology and automation systems, refrigeration and freezing, components and hotels.

Customized solutions and maximum customer benefit
Liebherr solutions are characterized by maximum precision, outstanding implementation and exceptional longevity. Its mastery of key technologies enables the company to offer its customers customized solutions. For Liebherr, customer focus does not end with the product; it also encompasses a wide range of services that make a real difference.

www.liebherr.us

⚠ WARNING

Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
- Always start and operate the engine in a well-ventilated area.
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with exhaust system.
- Do not idle the engine except as necessary.

For more information go to www.P65warnings.ca.gov/diesel.

⚠ WARNING

This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.P65warnings.ca.gov.

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