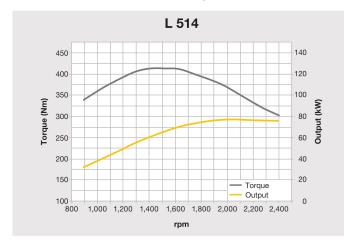
Technical Data



Diesel engine Design	. 4045 HFL 92B . 4-cylinder inline engine, water-cooled v turbocharger, intercooler and diesel par		
Fuel injection process	electronic Common Rail high-pressure		
Max. output according to	good one common than mgn procedure	,oot.o	
DIN/ISO 3046	. 77/105 kW/HP	at 2,000 RPM	
Max. torque		at 1,400 RPM	
Displacement	. 4.5 litres		
Bore/Stroke	. 106/127 mm		
Air cleaner	Dry air filter with main and safety element		
Electrical system			
Operating voltage	. 12 V		
Battery			
Alternator			
Starter motor	_ 4.8 kW		

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





Driveline

Stepless hydrostatic driveline		
Design	Swash plate type variable flow pump and	
Filtering system	axial piston motor in a closed loop circuit. Suction return line filter for closed circuit	
Control	Control of driveline with travel and combi	
	pedal. The inching pedal permits continuo adjustment of crowding and tractive force ground and operating conditions. The Liel	e to match
	lever is used to control forward and rever	se travel
Travel speeds	Speed range 1	
	Speed range 2	
	Forward and reverse with tyre size 17.5R2	25



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



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

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



Design	"Stereo" steering system, hydraulic servo power steering. Central oscilating frame articulation in combination with rear-axle pivot steering, and damper element
Angle of articulation	_ 30° to each side
Angle of articulation –	_ 30 to each side
centre-pivot steering	_ 5° to each side
	400 1
Max. pressure	_ 180 bar
·	



Attachment Hydraulics

Design	Gear pump to supply the hydraulic and steering systems (via priority valve)
Max. flow	. 115 l/min. . 230 bar
Cooling	Hydraulic oil cooling by thermostatically controlled fan and oil cooler
Filtering	Return-line filter in the hydraulic reservoir
Control	Single-lever control with Liebherr control lever, hydraulically actuated, with load-dependent delivery rate distribution
Lift circuit	Lifting, neutral, lowering and float positions controlled by Liebherr control lever with detent; automatic lifting-limit circuit
Tilt circuit	Tilt back, neutral, dump automatic bucket positioning



Geometry can be chosen	hydrauilc qui	attern linkage with one tilt cylinder, ck hitch as option ge with two tilt cylinders, hydraulic quick dard
Bearings	Sealed	
Cycle time at nominal load	ZK	PK
Lifting	6.0 s	7.3 s
Dumping	2.3 s	4.2 s
Lowering (empty)	4.2 s	4.1 s



Operator's Cab

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



Sound Level

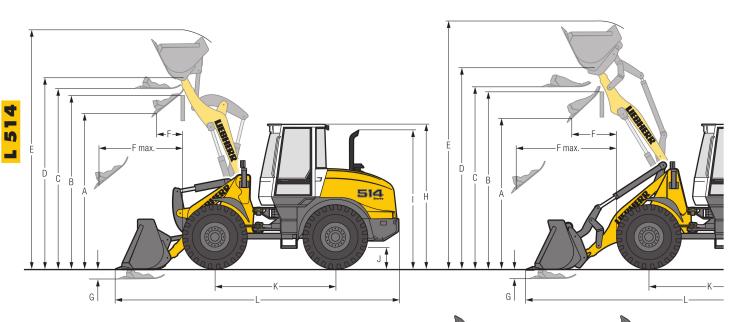
ISO 6396	L _{nA} (inside cab)	= 70 dB(A)
Sound power level	L _{pA} (inside cab)	= 70 dB(A)
2000/14/EC	L _{WA} (surround nois	e) = 100 dB(A)



Capacities

Fuel tank	160 I
Engine oil (inclusive filter change)	13
Travel gear and rear axle differential	21
Front axle/differential	8.9 I
Rear axle/differential	8.7 I
Hydraulic tank	95 I
Hydraulic system total	125 I

Dimensions



						· 🕟
Load	ding Bucket		4			
	Geometry		ZK	ZK	ZK-QH	PK-QH
	Cutting tools		Т	Т	Т	Т
	Lift arm length	mm	2,350	2,350	2,350	2,400
	Bucket capacity according to ISO 7546 **	m³	1.5	1.7	1.5	1.4
	Bucket width	mm/kg	2,400/620	2,400/655	2,400/570	2,400/590
Α	Dumping height at max. lift height and 44° discharge	mm	2,855	2,710	2,775	2,985
В	Dump-over height	mm	3,260	3,260	3,260	3,430
С	Max. height of bucket bottom	mm	3,440	3,440	3,440	3,610
D	Max. height of bucket pivot point	mm	3,675	3,675	3,675	3,860
E	Max. operating height	mm	4,550	4,725	4,680	4,840
F	Reach at max. lift height and 44° max. discharge	mm	830	955	915	785
F max.	Max. outreach at 44° discharge	mm	1,500	1,560	1,608	1,703
G	Digging depth	mm	53	53	53	35
Н	Height above cab	mm	3,070	3,070	3,070	3,070
1	Height above exhaust	mm	2,890	2,890	2,890	2,890
J	Ground clearance	mm	385	385	385	385
K	Wheelbase	mm	2,600	2,600	2,600	2,600
L	Overall length	mm	6,135	6,340	6,395	6,330
	Turning circle radius over outside bucket edge (carry position	n) mm	4,510	4,610	4,565	4,610
	Breakout force (SAE)	kN	77	72	72	77
	Tipping load, straight*	kg	6,200	6,100	5,745	5,385
	Tipping load, articulated at 30°*	kg	5,680	5,590	5,260	4,920
	Operating weight*	kg	8,350	8,390	8,510	8,520
	Tyre sizes		17.5R25 L3	17.5R25 L3	17.5R25 L3	17.5R25 L3

The figures shown here are valid with tyres above, includes all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tyres and optional equipment will change the operating weight and tipping load. (Tipping load, articulated 30° 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 25.

= Excavation bucket with back grading edge for direct mounting

= Excavation bucket with back grading edge for quick hitch

ZK = Z-bar linkage

ZK-QH = Z-bar linkage with hydraulic quick hitch

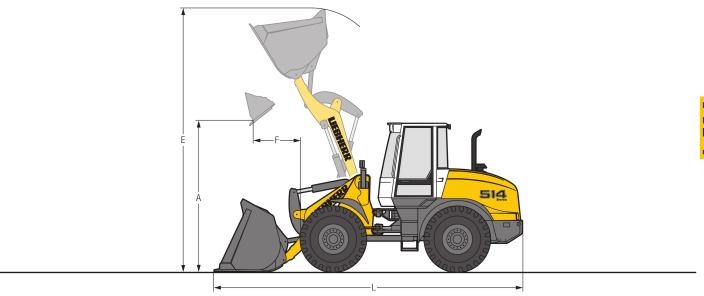
PK-QH = Parallel linkage with hydraulic quick hitch

= Welded-on tooth holder with add-on teeth

Notice: Quick hitch compatibility between L 514Stereo up to L 526 – L 538.

Attachment

Light Material Bucket



L	ight Material Bucket		4		
	Geometry		ZK-QH	PK-QH	
	Cutting tools		BOCE	BOCE	
	Bucket capacity	m ³	2.0	2.0	
	Bucket width	mm	2,500	2,500	
Α	Dumping height at max. lift height	mm	2,757	2,870	
Ε	Max. operating height	mm	4,845	5,075	
F	Reach at maximum lift height	mm	930	940	
L	Overall length	mm	6,290	6,535	
	Tipping load, straight *	kg	5,600	5,155	
	Tipping load, articulated 30° *	kg	5,450	4,720	
	Operating weight*	kg	8,500	8,683	
	Tyre sizes		17 5B25 L3	17 5B25 L3	

^{*} The figures shown here are valid with tyres above, includes all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tyres and optional equipment will change the operating weight and tipping load. (Tipping load, articulated 30° according to ISO 14397-1)

ZK-QH = Z-bar linkage with hydraulic quick hitch

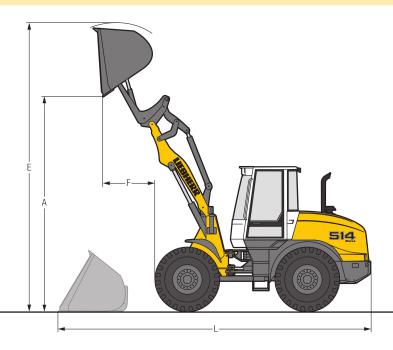
PK-QH = Parallel linkage with hydraulic quick hitch

BOCE = Bolt-on cutting edge

Notice: Quick hitch compatibility between L 514Stereo up to L 526 - L 538.

Attachment

High-Dump Bucket



Heavy Material Density		4		
Geometry		ZK-QH	PK-QH	
Cutting tools		BOCE	BOCE	
Discharge angle		34° ¹)	37° ¹)	
Bucket capacity	m³	2.5	2.5	
Bucket width	mm	2,500	2,500	
A Dumping height at max. lift height	mm	4,260	4,360	
E Max. operating height	mm	5,865	5,980	
F Reach at maximum lift height	mm	1,330	1,325	
L Overall length	mm	6,955	7,100	
Tipping load, straight *	kg	5,070	4,400	
Tipping load, articulated 30° *	kg	4,640	4,040	
Operating weight *	kg	9,660	9,700	
Tyre sizes		17.5B25 L3	17.5B25 L3	

Light Material Density		4		
Geometry		ZK-QH	PK-QH	
Cutting tools		BOCE	BOCE	
Discharge angle		34° ¹)	37° ¹)	
Bucket capacity	m ³	2.5	2.5	
Bucket width	mm	2,500	2,500	
A Dumping height at max. lift height	mm	4,165	4,265	
E Max. operating height	mm	5,735	5,855	
F Reach at maximum lift height	mm	1,345	1,325	
L Overall length	mm	6,900	7,045	
Tipping load, straight *	kg	5,230	4,600	
Tipping load, articulated 30° *	kg	4,780	4,200	
Operating weight *	kg	9,380	9,420	
Tyre sizes		17.5R25 L3	17.5R25 L3	

^{*} The figures shown here are valid with tyres above, includes all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tyres and optional equipment will change the operating weight and tipping load. (Tipping load, articulated 30° according to ISO 14397-1)

ZK-QH = Z-bar linkage with hydraulic quick hitch

PK-QH = Parallel linkage with hydraulic quick hitch

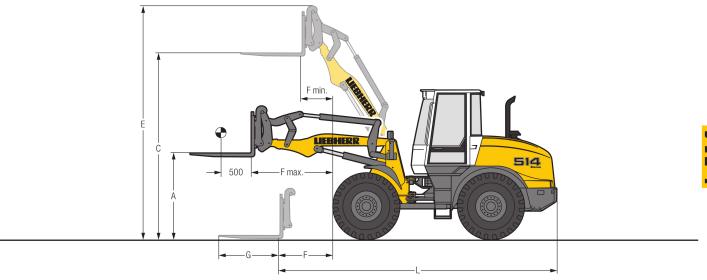
BOCE = Bolt-on cutting edge

Notice: Quick hitch compatibility between L 514stereo up to L 526 - L 538.

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

Attachment

Fork Carrier and Fork



			f		
FEM	III Fork Carrier and Fork	JI 💯			
	Geometry		ZK-QH	PK-QH	
Α	Lifting height at max. reach	mm	1,715	1,700	
С	Max. lifting height	mm	3,497	3,655	
Е	Max. operating height	mm	4,420	4,580	
F	Reach at loading position	mm	815	965	
F max.	Max. reach	mm	1,500	1,615	
F min.	Reach at max. lifting height	mm	678	605	
G	Fork length	mm	1,200	1,200	
L	Length – basic machine	mm	5,610	5,640	
	Tipping load, straight *	kg	4,400	4,230	
	Tipping load, articulated 30° *	kg	4,030	3,870	
	Recommended payload for uneven ground = 60 % of tipping load (full articulated) ***	kg	2,410	2,320	
	Recommended payload for smooth surfaces = 80 % of tipping load (full articulated) ***	kg	2,840	3,095	
	Operating weight *	kg	8,370	8,365	
	Tyre sizes		17.5R25 L3	17.5R25 L3	

The figures shown here are valid with tyres above, includes all lubricants, a full fuel tank, the ROPS/FOPS cab and the operator. Different tyres and optional equipment will change the operating weight and tipping load. (Tipping load, articulated 30° according to ISO 14397-1).

ZK-QH = Z-bar linkage with hydraulic quick hitch

PK-QH = Parallel linkage with hydraulic quick hitch

Notice: Quick hitch compatibility between L 514Stereo up to L 526 – L 538.

^{***} According to EN 474-3