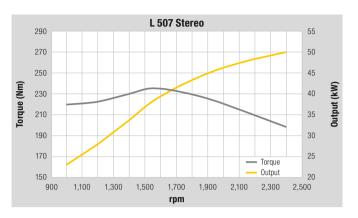
Technical Data

	Engine
-	Liigiiic

		L 507 Stereo	L 507 Speeder L 509 Stereo L 509 Speeder
Diesel engine		4TNV98C	4TNV98CT
Design		Water-cooled in-series diesel engine, exhaust after-treatment with a closed diesel particle filter system	Water-cooled turbocharged in-series diesel engine, exhaust after-treatment with a closed diesel particle filter system
Cylinder inline		4	4
Fuel injection proce	SS	Electronic Common Ra	il high-pressure injection
Max. gross output to ISO 3046 and SAE J1995	kW/HP at RPM		54/73 2,400
Max. net output to ISO 9249 and SAE J1349	kW/HP at RPM		52/71 2,400
Rated output to ISO 14396	kW/HP at RPM		54/73 2,400
Max. net torque to ISO 9249 and SAE J1349	Nm at RPM	237 1,560	280 1,560
Displacement Bore/Stroke	litres mm	3.32 98/110	3.32 98/110
Air cleaner system		Dry type filter with main	and safety element
Operating voltage		12	12
Capacity Alternator	Ah	100 12/80	100 12/80
Starter	V/kW		12/3

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





Driveline

	L 507 Stereo L 509 Stereo	L 507 Speeder L 509 Speeder	
Hydrostatic driveline		<u> </u>	
Design	Continuous, swash plate type variable flow pump and variable axial piston motor in closed loop circuit	2-speed automated gearbox, swash plate sole type variable flow pump and variable axial piston motor in closed loop circuit	
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 – 6 km/h Speed range 2: 0 – 20 km/h forward and reverse Speeds quoted apply as standard on loade	Speed range 1: 0 - 18 km/h Speed range 2: 0 - 38 km/h with the tyres indicated r model.	

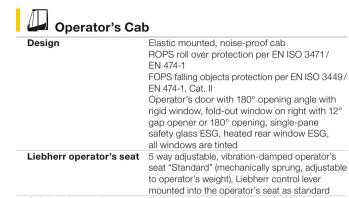
- Axles

	L 507 Stereo L 509 Stereo		L 507 Speeder L 509 Speeder
Four-wheel drive			•
Front axle	Fixed		
Rear axle	Axle pivot stee	ering, fixed	
Height of obstacles which	n		
can be driven over	mm 370	;	370
	with all four w the ground	heels rema	ining in contact with
Differentials	Automatic mu limited slip dif with 45 % lock action in both	ferentials t	100% differential lock ir front axle, manually engaged
Reduction gear	Planetary fina	Planetary final drive in wheel hubs	
Track width	(L 507)	1,630 mm with tyres indicated as standard	

Brakes

	L 507 Stereo L 509 Stereo	L 507 Speeder L 509 Speeder
Service brake	Wear-free service brake due to hydrostatic driveline, applied to all four wheels and addtional hydraulically activated drum brake	Wear-free service brake due to hydrostatic driveline, applied to all four wheels and additional dual-circuit brake system, drum brake and wet multi-disc brake located in the front axle
Parking brake	Negative brake system on the drum brake	Negative brake system in the front axle acting on the wet multi-disc brakes

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



Fresh/recirculated air mode, cab heating via

cooling water, arrangement of the air nozzles ensures quick defrosting and defogging of the windows, electrically heated rear window

Steering

Stereo steering system, hydraulic servo power steering. Central oscilating frame articulation with damper element in combination with
rear-axle pivot steering
30° to each side
8° to each side
J
bar 180

Sound Level

Cab heating and

ventilation

	L 507	L 509
Sound pressure I to ISO 6396	evel	
L _{pA} (inside cab)	dB(A) 70	70
Sound power level to 2000/14/EC	el	
L _{WA} (surround noise	e) dB(A) 101	101

Attachment Hydraulics

		L 507	L 509
Design		Gear pump to supply the hydraulic and steering systems (via priority valve)	
Cooling		Hydraulic oil cooling using thermostatically controlled fan	
Filtration		Suction retu	urn line filter in the hydraulic reservoi
Control		Liebherr control lever, hydraulically operated, 3rd and 4th electrically, proportional control circuit	
Lift circuit		Lifting, neutral, lowering Float position controlled by Liebherr control lever with detent, automatic hoist kick out optional	
Tilt circuit		Tilt back, neutral, dump Automatic bucket return to dig optional	
Max. flow	l/min.	70	93
Max. pressure	bar	230	210

Capacities

509 eeder
.2
7
ļ
3
6
3
2

Attachment

	L 507	L 509
Geometry	Powerful Z-bar linkage with tilt cylinder, hydrau quick hitch as standard	
Cycle time at		
nominal load	ZK	ZK
Lifting	s 4.9	5.6
Dumping	s 1.7	2.0
Lowering (empty)	s 3.5	4.1