

Reliability in Action

G9190H Grader

Gross Power: 197hp @ 2200rpm

Operating Weight: 15800KG

CEV-IV Certified

Built for heavy duty applications



Member of The Volvo Group



Technical Specifications

Standard Equipment

Engine	
Make	Weichai
Model	WP4.6NG150E501
Type	Electronically controlled CRDI engine
Engine exhaust after treatment	DOC + SCR + ASC
Gross power @rpm	197hp @ 2200 rpm
Working modes	4
Maximum torque Nm@rpm	900Nm@1400 to 1600 rpm
Cruise control	Standard

Transmission		
Make	ZF	
Model	6WG200	
Type	Fixed shaft power shift	
Torque converter type	Single stage single-phase three element	
Maximum Travel Speed km/hr	40	
Travel Speed km/h	Forward	Reverse
1 st	5	5
2 nd	8.5	11.5
3 rd	11.5	25
4 th	20	
5 th	25	
6 th	40	
Manual Over ride	Yes	
Max Gradeability	20°	

Rear Axle	
Make	SDLG
Ground clearance	430mm
Differential	No Slip

Tandem	
Make	SDLG
Oscillation	±15°

Front Axle	
Oscillation	±16°
Wheel Lean	±18°
Ground clearance	610 mm
Tyres	Type – Tube Type Size: 17.5- 25 Ply rating: 16PR
Optional Attachment	Front Dozer Blade
	Mid Mount Scarifier
	Rear Ripper
	Auto Blade Lift

Cabin	
ROS/FOPS compliant	Standard
AC	Standard with dual filters
Operator seat	Mechanical suspension seat
Music system	MP3 Player with blue-tooth mobile connection
Seat Belt	Standard

Machine Dimension (mm)	
Overall Length A	9095
Blade Base B	2569
Wheel Base C	6450
Tread Gauge D	2260
Tread Width E	2710
Overall Height F	3200
Overall width	2170

Noise dB	
Operator ear level	74
Pass by	107

Mold Board Turn circle & Blade range	
Type	Dual Hydraulic cylinder
Circle pitch diameter	1626
Blade length	3657
Width	635
Height	559
Number of cutting edge	2

Blade side shift	
Right	673mm
Left	673mm
Maximum cutting angle (Left & Right)	90°
Maximum ground penetration	787mm
Maximum lift above ground	445mm
Mold Board tilt angle backward	5°
Mold board tilt-angle forward	47°
Max traction force KN	82
Rotating Degree of Mold board	360
Blade down force Kgf	7811
Blade Base mm	2250
Max bank sloping angle	90
Blade impact protection	Yes (relief valve)

Steering System	
Type	Load-sensing and hydraulic steering
Steering Angle	±50°
Pump Rated Flow	75ml/r*2200r/min
Rated Pressure	14MPa
Turning radius mm	7600mm
Number of cylinders	2

Articulation	
Articulation angle	±23
Articulation control	Hydraulically controlled

Brake	
Type	1.Service brake: MICO single-circuit system with nitrogen charged accumulators. Outboard mounted hydraulically operated.
Parking Brake	Mechanical control on transmission

System refill capacity (litres) & Interval (Hrs)	Tank Capacity	Refil Interval
Fuel	375	
Adblue	35	
Engine coolant	30	2000
Engine oil	22	500
Transmission oil	28	1000
Rear Axle	23	1000
Tandem	23*2	1000
Hydraulic oil volume in tank	132	2000

Standard Equipment

Electrical System	
Power	24V
Batteries	2

Hydraulic System	
Type	Load sensing hydraulic system
Pump	Variable Piston pump
Rated Flow	75ml/r*2200r/min
Rated Pressure	21MPa
Control Valve	9 Spool

Frame	
Type	2 part articulated Box frame

Drawbar	
Type	A Frame welded structure

Operating Weight kg	
Front Axle	4700
Rear Axle	11100
Total Machine	15800

