

Reliability in Action

# G9138H Grader

Gross Power: 148hp @ 2200 rpm

Operating Weight: 13000KG

CEV-IV Certified

## Delivers speed & versatility



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	148hp @ 2200 rpm
Working modes	4
Maximum torque Nm@rpm	640 @ 1400 to 1600 rpm
Cruise control	Standard

Transmission		
Make	ZF	
Model	6WG158	
Type	Fixed shaft power shift	
Torque converter type	Single stage single-phase three element	
Maximum Travel Speed km/hr	39	
Travel Speed km/h	Forward	Reverse
1 <sup>st</sup>	4.8	4.8
2 <sup>nd</sup>	8.5	10
3 <sup>rd</sup>	10	24.5
4 <sup>th</sup>	17	
5 <sup>th</sup>	24.5	
6 <sup>th</sup>	39	
Manual Over ride	Yes	
Max Gradeability	20°	

Rear Axle	
Make	SDLG
Ground clearance	400mm
Differential	No Spin

Tandem	
Make	SDLG
Oscillation	±15°

Front Axle	
Oscillation	±16°
Wheel Lean	±18°
Ground clearance	590 mm
Tyres	Type – Tube Type Size: 14.00-24 and 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	8380
Blade Base B	2250
Wheel Base C	6055
Tread Gauge D	2070
Tread Width E	2410
Overall Height F	3220
Overall width	2580

Noise dB	
Operator ear level	78
Pass by	107

Mold Board Turn circle & Blade range	
Type	Dual Hydraulic cylinder
Circle pitch diameter	1375
Blade length	3657
Width	635
Height	482
Number of cutting edge	2

Blade side shift	
Right	500mm
Left	500mm
Maximum cutting angle (Left & Right)	90°
Maximum ground penetration	575mm
Maximum lift above ground	380mm
Mold Board tilt angle backward	5°
Mold board tilt-angle forward	47°
Max traction force KN	76.6
Rotating Degree of Mold board	36°
Blade down force Kgf	5729
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	25ml/r*2200r/min
Rated Pressure	14MPa
Turning radius mm	6500
Number of cylinders	2

Articulation	
Articulation angle	±25
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	380	
Adblue	35	
Engine coolant	28	2000
Engine oil	12	500
Transmission oil	28	1000
Rear Axle	23	1000
Tandem	23*2	1000
Hydraulic oil volume in tank	88	2000

Standard Equipment

Electrical System	
Power	24V
Batteries	2

Hydraulic System	
Type	Opened hydraulic system
Pump	Gear pump
Rated Flow	25ml/r*2200r/min
Rated Pressure	18±0.35MPa
Control Valve	9 Sections

Frame	
Type	2 part articulated Box frame

Drawbar	
Type	A Frame welded structure

Operating Weight kg	
Front Axle	3600
Rear Axle	9400
Total Machine	13000

