

Reliability in Action

G9138H Grader

Gross Power: 148hp @ 2200 rpm

Operating Weight: 13000KG

CEV-IV Certified

Delivers speed & versatility



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 st | 4.8 | 4.8 |
| 2 nd | 8.5 | 10 |
| 3 rd | 10 | 24.5 |
| 4 th | 17 | |
| 5 th | 24.5 | |
| 6 th | 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 |

