

SMG200AWD MOTOR GRADER



Precision hydraulic system

- The load sensing hydraulic system provides adequate flow during multiple implement operation. The rapid, precise response to control input results in exceptional grading quality.
- The automatic regulation of pump flow based on load conditions results in increased fuel economy.
- In the optional "intelligent fan" cooling system, the fan speed is continuously variable the cooling system operating temperature.

Powerful powertrain system

Direct drive power shift transmission delivers smooth, responsive shifting.

Comfortable operator environment

- Provides the operator with a 360 degree field of vision.
- "Silent ride" engineered cab.

Reliable structure

 The precision, reliable, low maintenance circle bearing reduces maintenance costs.

Convenient maintenance

- Conveniently located handrails and steps provide easy access to filters, fluids and service items
- ♦ The centralized lay out of filters are easy for maintenance.

Technical specifications

Engine	Model		SMG200AWD (PDJ100000148)
Rated power (kW) 186 Rated power (kW) 186 Rated power (kW) 186 Rated rotation speed (rpm) 2200	system	Engine	CUMMINS
Rated power (kW) 186		Emission	EPA Tier4(f)
Rated power (kW) 186		Model	QSL9
Peak torque(Nm) 1085		Rated power (kW)	186
Dimensions		Rated rotation speed (rpm)	2200
Typically equipped (with front counterweight and rear scarfier) (L ×W ×H) (mm)		Peak torque(Nm)	1085
Dimensions		Basic (L×W×H) (mm)	9192×2750×3498
Dimensions			10562×2750×3498
Middle and rear wheel base (mm) Min. Ground clearance (mm) Weight of basic type (kg) Weight of typically equipped (with front counterweight and rear scarfier) (kg) Max. total weight (with front dozer plate and rear ripper) (kg) Length of blade (mm) Height of blade (mm) Coperating device specification Ax. Lift above ground (mm) Max. Depth of cut (mm) Blade tip range Forward speed (km/h) Reverse speed (km/h) Steering angle of front wheel Articulated steering angle Min. Turning radius (m) Max. Capacity Max. capacity Max. Capacity Mitt blade) 18713 (12ft blade) / 21423 (14ft blade) 21293 (12ft blade) / 21643 (14ft blade) 21513 (Dimensions	With front dozer plate and rear ripper	11544×2750×3498
Min. Ground clearance (mm) Weight of basic type (kg) Weight of typically equipped (with front counterweight and rear scarfier) (kg) Max. total weight (with front dozer plate and rear ripper) (kg) Length of blade (mm) Height of blade (mm) Tilt angle Turning angle Max. Lift above ground (mm) Max. Depth of cut (mm) Running Specification Running Specification Min. Ground clearance (mm) Weight of basic type (kg) Weight of basic type (kg) 12193 (12ft blade) / 21423 (14ft blade) 21513 (12ft blade) / 21643 (14ft blade) 620 Tilt angle £ 90 Max. Lift above ground (mm) 480 Max. Depth of cut (mm) 715 Blade tip range Front 40°, rear 5° Gears 8 forward and 6 reverse Forward speed (km/h) 3.2/5.9/8.7/13.5/25.3/37 Steering angle of front wheel Left 17°, right 17° Articulated steering angle Left 22°, right 22° Oscillation angle of front axle Min. Turning radius (m) 7.5 Model of tire Max capacity Max capacity Max capacity Max as a sum front axide Max capacity Max capacity		Front and rear axle base (mm)	6300
Weight of basic type (kg) Load Spec. Weight of typically equipped (with front counterweight and rear scarifier) (kg) Max. total weight (with front dozer plate and rear ripper) (kg) Length of blade (mm) Length of blade (mm) Height of blade (mm) Tilt angle Turning angle Max. Lift above ground (mm) Max. Depth of cut (mm) Blade tip range Forward speed (km/h) Reverse speed (km/h) Reverse speed (km/h) Ationale of front wheel Articulated steering angle Oscillation angle of front axle Min. Turning radius (m) Max. Capacity Max. Capacity Max. Depth of typically equipped (with front counterweight and rear scarifier) (kg) 21293 (12ft blade) / 21423 (14ft blade) 21513 (12ft blade) / 21643 (14ft blade) 21513 (12ft		Middle and rear wheel base (mm)	1524
Weight of typically equipped (with front counterweight and rear scarifier) (kg) Max. Iotal weight (with front dozer plate and rear ripper) (kg) Length of blade (mm) Length of blade (mm) Height of blade (mm) Tilt angle Turning angle Specification Max. Lift above ground (mm) Max. Depth of cut (mm) Blade tip range Gears Gears Running Running Specification Running R		Min. Ground clearance (mm)	370
counterweight and rear scarifier) (kg) Max. total weight (with front dozer plate and rear ripper) (kg) Length of blade (mm) Height of blade(mm) Coperating device specification Max. Lift above ground (mm) Max. Depth of cut (mm) Blade tip range Front 40°, rear 5° Gears Running specification Running specification Running specification Counterweight and rear scarifier) (kg) Max. Lift above ground (mm) Max. Depth of cut (mm) Front 40°, rear 5° Gears Roward and 6 reverse Forward speed (km/h) Auticulated steering angle of front wheel Left 50°, right 50° Tilt angle of front wheel Left 17°, right 17° Articulated steering angle Oscillation angle of front axle Min. Turning radius (m) Model of tire Tank capacity Tank capacity Tank capacity	Load Spec.	Weight of basic type (kg)	18713 (12ft blade) / 18843 (14ft blade)
Length of blade (mm) Length of blade (mm) Height of blade (mm) G20 Tilt angle Turning angle Specification Max. Lift above ground (mm) Blade tip range Front 40°, rear 5° Gears Reverse speed (km/h) Reverse speed (km/h) Articulated steering angle Articulated steering angle Max. Left 22°, right 22° Oscillation angle of front axle Max. Depth of tire Max. Depth of cut (mm) Tots Front 40°, rear 5° Reverse speed (km/h) Alo/5.4/8.0/10.9/19.1/23.4/32.3/46.8 Reverse speed (km/h) Articulated steering angle Deft 27°, right 17° Articulated steering angle Max. Depth of cut (mm) Tilt angle of front wheel Left 17°, right 17° Articulated steering angle Dy 16°, down 16° Min. Turning radius (m) Tots Model of tire Tank capacity Max capacity		counterweight and rear scarifier) (kg)	21293 (12ft blade) / 21423 (14ft blade)
Height of blade(mm) Tilt angle Tilt angle Turning angle Specification Max. Lift above ground (mm) Max. Depth of cut (mm) Total Blade tip range Gears Gears Gears Front 40°, rear 5° Gears Forward and 6 reverse Forward speed (km/h) Reverse speed (km/h) Steering angle of front wheel Tilt angle of front wheel Left 50°, right 50° Tilt angle of front wheel Left 22°, right 22° Oscillation angle of front axle Min. Turning radius (m) Tank capacity Tank capacity Tilt angle of hydraulic oil tank (L) Tilt angle of hydraulic oil tank (L)			21513 (12ft blade) / 21643 (14ft blade)
Tilt angle ±90 Turning angle 360 Max. Lift above ground (mm) 480 Max. Depth of cut (mm) 715 Blade tip range Front 40°, rear 5° Gears 8 forward and 6 reverse Forward speed (km/h) 4.0/5.4/8.0/10.9/19.1/23.4/32.3/46.8 Reverse speed (km/h) 3.2/5.9/8.7/13.5/25.3/37 Steering angle of front wheel Left 50°, right 50° Tilt angle of front wheel Left 22°, right 22° Oscillation angle of front axle Up 16°, down 16° Min. Turning radius (m) 7.5 Model of tire 17.5R25 Max capacity		Length of blade (mm)	4270 (standard)
Turning angle Turning angle Turning angle Turning angle Max. Lift above ground (mm) Max. Depth of cut (mm) Blade tip range Gears Gears Front 40°, rear 5° Gears Forward speed (km/h) Reverse speed (km/h) Steering angle of front wheel Tilt angle of front wheel Left 50°, right 50° Tilt angle of front wheel Left 17°, right 17° Articulated steering angle Oscillation angle of front axle Up 16°, down 16° Min. Turning radius (m) 7.5 Model of tire Tank capacity		Height of blade(mm)	620
Turning angle Specification Max. Lift above ground (mm) Max. Depth of cut (mm) Blade tip range Gears Front 40°, rear 5° Gears Forward and 6 reverse Forward speed (km/h) Reverse speed (km/h) Steering angle of front wheel Left 50°, right 50° Tilt angle of front wheel Left 17°, right 17° Articulated steering angle Oscillation angle of front axle Min. Turning radius (m) Tank capacity Tank capacity	Operating	Tilt angle	±90
Max. Depth of cut (mm) Max. Depth of cut (mm) Blade tip range Gears Gears 8 forward and 6 reverse Forward speed (km/h) A.0/5.4/8.0/10.9/19.1/23.4/32.3/46.8 Reverse speed (km/h) 3.2/5.9/8.7/13.5/25.3/37 Steering angle of front wheel Left 50°, right 50° Tilt angle of front wheel Left 17°, right 17° Articulated steering angle Oscillation angle of front axle Up 16°, down 16° Min. Turning radius (m) 7.5 Model of tire 17.5R25 Max capacity	device	Turning angle	360
Blade tip range Gears Gears 8 forward and 6 reverse Forward speed (km/h) 4.0/5.4/8.0/10.9/19.1/23.4/32.3/46.8 Reverse speed (km/h) 3.2/5.9/8.7/13.5/25.3/37 Steering angle of front wheel Left 50°, right 50° Tilt angle of front wheel Left 17°, right 17° Articulated steering angle Left 22°, right 22° Oscillation angle of front axle Up 16°, down 16° Min. Turning radius (m) 7.5 Model of tire 17.5R25 Max capacity	specification	Max. Lift above ground (mm)	480
Gears 8 forward and 6 reverse Forward speed (km/h) 4.0/5.4/8.0/10.9/19.1/23.4/32.3/46.8 Reverse speed (km/h) 3.2/5.9/8.7/13.5/25.3/37 Steering angle of front wheel Left 50°, right 50° Tilt angle of front wheel Left 17°, right 17° Articulated steering angle Left 22°, right 22° Oscillation angle of front axle Up 16°, down 16° Min. Turning radius (m) 7.5 Model of tire 17.5R25 Max capacity		Max. Depth of cut (mm)	715
Forward speed (km/h) Reverse speed (km/h) Reverse speed (km/h) Steering angle of front wheel Left 50°, right 50° Tilt angle of front wheel Left 22°, right 22° Oscillation angle of front axle Up 16°, down 16° Min. Turning radius (m) 7.5 Model of tire Tank capacity Forward speed (km/h) 4.0/5.4/8.0/10.9/19.1/23.4/32.3/46.8 Reverse speed (km/h) 3.2/5.9/8.7/13.5/25.3/37 Left 50°, right 50° Left 17°, right 17° Left 22° Oscillation angle of front axle Up 16°, down 16° T.5 Model of tire 17.5R25		Blade tip range	Front 40°, rear 5°
Running specification Running specification Running specification Tilt angle of front wheel Left 50°, right 50° Articulated steering angle Left 22°, right 22° Oscillation angle of front axle Up 16°, down 16° Min. Turning radius (m) 7.5 Model of tire Tank capacity Reverse speed (km/h) 3.2/5.9/8.7/13.5/25.3/37 Left 50°, right 50° Left 17°, right 17° Left 22°, right 22° Oscillation angle of front axle Up 16°, down 16° 7.5 Model of tire 17.5R25		Gears	8 forward and 6 reverse
Running specification Tilt angle of front wheel Left 50°, right 50° Articulated steering angle Left 22°, right 22° Oscillation angle of front axle Up 16°, down 16° Min. Turning radius (m) 7.5 Model of tire 17.5R25 Max capacity Max capacity		Forward speed (km/h)	4.0/5.4/8.0/10.9/19.1/23.4/32.3/46.8
Running specification Tilt angle of front wheel Left 17°, right 17° Articulated steering angle Left 22°, right 22° Oscillation angle of front axle Up 16°, down 16° Min. Turning radius (m) 7.5 Model of tire 17.5R25 Tank capacity Max capacity of hydraulic oil tank (L) 115		Reverse speed (km/h)	3.2/5.9/8.7/13.5/25.3/37
Articulated steering angle Left 22°, right 22° Oscillation angle of front axle Up 16°, down 16° Min. Turning radius (m) 7.5 Model of tire 17.5R25 Max capacity Max capacity of hydraulic oil tank (L) 115		Steering angle of front wheel	Left 50°, right 50°
Articulated steering angle Left 22°, right 22° Oscillation angle of front axle Up 16°, down 16° Min. Turning radius (m) 7.5 Model of tire 17.5R25 Max capacity of hydraulic oil tank (L) 115	Running specification	Tilt angle of front wheel	Left 17°, right 17°
Min. Turning radius (m) 7.5 Model of tire 17.5R25 Max capacity of hydraulic oil tank (L) 115		Articulated steering angle	Left 22°, right 22°
Model of tire 17.5R25 Max capacity of hydraulic oil tank (L) 115		Oscillation angle of front axle	Up 16°, down 16°
Max capacity of hydraulic oil tank (L) Tank capacity		Min. Turning radius (m)	7.5
Tank capacity		Model of tire	17.5R25
Max. capacity of fuel tank (L) 340	Tank capacity	Max capacity of hydraulic oil tank (L)	115
		Max. capacity of fuel tank (L)	340

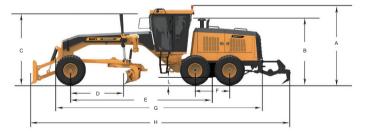
Basic & optional configurations

Model	Standard	Optional
SMG200AWD	14ft moldboard	12ft moldboard
	HVAC	/
	/	Front dozer blade
	/	Front scarifier
	/	Rearripper
	Warning light	/
	Rear camera	/
	/	Automatic leveling system

Dimensions

Model	Name	SMG200AWD
А	Height to top of cab (mm)	3498
В	Height at exhaust stack (mm)	2912
С	Height to top of cylinders (mm)	3110
D	Length - front axle to moldboard (mm)	2460
Е	Wheel base - between front and rear axles (mm)	6300
F	Wheel base - between middle and rear wheel (mm)	1524
G	Length - front tire to rear of machine (mm)	9192
Н	Overall length - front dozer blade to ripper (mm)	11544
I	Width - rear tire center lines (mm)	2270
J	Width - outside front tires (mm)	2750
K	Width - outside rear tires (mm)	2750
L	Ground clearance at rear axle (mm)	370

Notes: Due to technical and product updates, data on specifications might change without prior notice. The pictures may differ from a real machine.





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The product configuration (including technical parameters) is subject to change and the delivered actual machine without notice.

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