

SAG SERIES MOTOR GRADERS

The World's First Hydraulic-Mechanical Transmission System

POWERFUL TRANSMISSION

- ◆ Combines advantages of both hydraulic and mechanical transmission, which is powerful
- ◆ Rear axle applies no-spin differential lock technology, enhancing synchronization
- ◆ Large torque rotary motor and worm-gear case with overload protection, making the blade more powerful in ground leveling
- ◆ Hydraulically controlled inching technology produces outstanding low speed work

EXCELLENT EFFICIENCY AND SMART CONTROL

- ◆ Auto change of gears, easy to operate, highly efficient
- ◆ Speed range and initial gear can be set by operator, making operating extremely easy
- ◆ Intelligent reversing technology, reducing the time for direction shift



Serial Products: SAG120 SAG160 SAG200

SAFETY AND COMFORT

- ◆ Step-less speed change, low gear-shifting impact and comfortable operation
- ◆ Joystick requires less exertion of physical force and less distance, is able to realize synchronous actions
- ◆ Tripple braking (when travelling, when parked, and assisted by the hydraulic system) leading to greater safety and reliability

CONVENIENT MAINTENANCE

- ◆ Engine cabin door on each of the two sides which can be opened wider, making maintenance points more accessible and giving more space for maintenance work
- ◆ Commonly used electrical devices centrally arranged, making it easier to check
- ◆ Filters centrally arranged, easier to access and maintain

TECHNICAL PARAMETER

SAG Series Motor Grader Technical Parameters

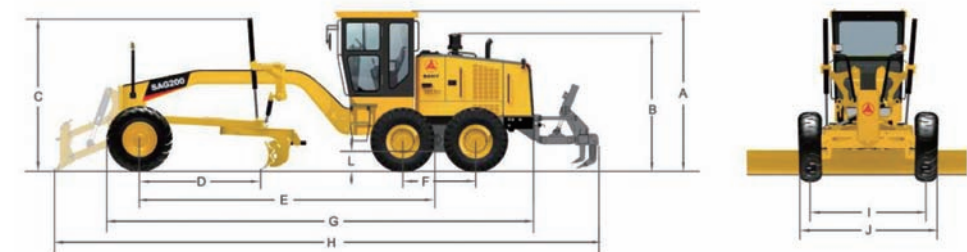
Model		SAG120	SAG160	SAG200		
Basic Parameter	Engine Model	4BTAA3.9-C125 (Stage II)	6BTAA5.9-C160 (Stage II)	6CTAA8.3-C215(Stage II)		
	Rated Power (kW) /Speed (rpm)	93/2200	118/2200	160/2200		
	Max. Torque (N.m) /Speed (rpm)	480/1400	690/1300	980/1500		
	Dimensions (Standard) (mm)	6990×2280×3350	7570×2345×3310	8800×2754×3260		
	Operating Weight (Standard) (kg)	8200	13300	15130		
Performance Parameter	Top Speed Forward/Backward (km/h)	4/7/12/22/31	Working Mode	Travelling Mode	Working Mode	Travelling Mode
			3/5/7/9/13	6/10/16/28/38	3/5/7/9/13	6/10/16/28/38
	Minimum Turning Radius (m)	6.2	6.7	7.5		
	Max. Hydraulic Working System Pressure (MPa)	18	18	18		
Working Device Parameter	Gearbox Transmission System Pressure (MPa)	/		1.6 ~ 2.2		
		/		1.6 ~ 2.2		
	Max. Front Wheel Turning Angle (°)	±45	±45	±45		
	Max. Front Wheel Tilt Angle (°)	±17	±17	±17		
	Max. oscillation angle of front axle (°)	±15	±15	±15		
	Max. oscillation angle of balance box (°)	/	Forward 15 Backward 15	Forward 15 Backward 15		
	Ground Clearance at Rear Axle (mm)	470	370	390		
	Blade Range	Moldboard Width xArc Radius (mm)	2440x620	3050x620	3660x620	
		Max. Lift above Ground (mm)	460	460	480	
		Max. Depth of Cut (mm)	560	560	715	
		Max. Blade Position Angle (°)	±70	±70	±90	
		Blade Tip Range (°)	Forward 30	Forward 40 Backward 5	Forward 40 Backward 5	
	Ripper	Circle reversing rotation (°)	120	360	360	
		Scarifying Depth, Max. (mm)	298	400	466	
Maximum lift above ground (mm)		510	590	590		
Max. Departure Angle (°)		24	25	25		
Dozer Blade	Working Width, Max. (mm)	1494	2044	2060		
	Max. Depth of Cut (mm)	185	185	229		
	Max. Lift above Ground (mm)	614	614	614		
	Max. Penetrating Angle (°)	63	63	63		
Max. Working Width (mm)	2540	2540	2740			

Size Code	Name	SAG120	SAG160	SAG200
A	Height to Top of Cab (mm)	3350	3310	3260
B	Height to Filter/Rain Shield (mm)	2680	2875	3180
C	Height to Top of Cylinders (mm)	2816	2816	3110
D	Length - Front Axle to Moldboard (mm)	1900	2080	2345
E	Length - Front Axle to Mid Tandem (mm)	5000	5373	6106
F	Length - Between Tandem Axles (mm)	/	1540	1524
G	Length - Front Tire to Rear of Machine (mm)	6990	7440	8676
H	Overall Length - Front Dozer Blade to Ripper (mm)	9180	9500	11055
I	Width - Tire Center Lines (mm)	1945	2054	2215
J	Width - Outside Front Tires (mm)	2280	2345	2754
L	Ground Clearance at Rear Axle (mm)	470	370	390

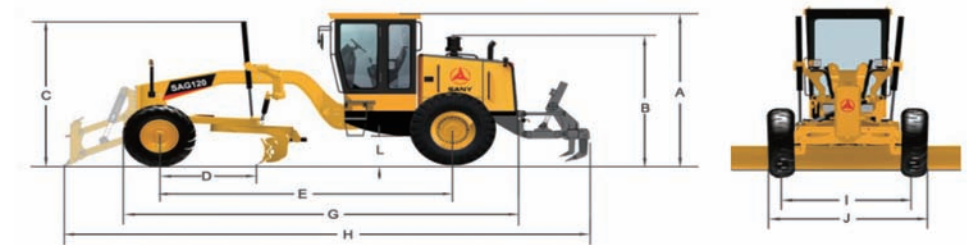
Notes: Due to technical and product updates, data on specifications might change without prior notice. The pictures may differ from a real machine.

SAG Series Motor Grader Basic Specs and Options

Model	Parts	Base Specifications	Options
SAG120	Engine	Dongfeng Cummins (Stage II)	Dongfeng Cummins (Stage III)
	Moldboard	8ft	10ft
	Air Con	/	Air Conditioner
	Dozer Blade	/	Front Dozer Blade
	Ripper	/	Rear Ripper (3-Tooth)
	Self-Levelling System	/	Moba Motor Grader Single Ultra-Sound Self-Balancing System
SAG160	Engine	Dongfeng Cummins (Stage II)	Dongfeng Cummins (Stage III)
	Working Hydraulic System	Constant Displacement Pump + Open Center Control Block	Load-sensitive pump + Load-sensitive control block
	Moldboard	10ft	8ft/12ft
	Air Con	/	Air Conditioner
	Dozer Blade	/	Front Dozer Blade
	Ripper	/	Rear Ripper (3-Tooth/5-Tooth)
SAG200	Engine	Dongfeng Cummins (Stage II)	Dongfeng Cummins (Stage III)
	Working Hydraulic System	Constant Displacement Pump + Open Center Control Block	Load-sensitive pump + Load-sensitive control block
	Frame Pin	Manual Pinning	Oil-Cylinder-Controlled
	Moldboard	12ft	13ft/14ft
	Cab	Standard	Premium
	Air Con	/	Air Conditioner
	Dozer Blade	/	Front Dozer Blade
	Ripper	/	Rear Ripper (5-Tooth)
Self-Levelling System	/	Moba Motor Grader Single Ultra-Sound Self-Balancing System	



SAG160 and SAG200 Motor Graders Specifications



SAG120 Motor Grader Specifications