

# SG21

## SPECIFICATIONS MOTOR GRADER



ENGINE	
Model	Cummins 6CTAA8.3-C215
Number of cylinders	6
Type	4-cycle, direct injection, water-cooled
Bore x stroke	114*135mm
Displacement	8.3L
Gross power	160kW @ 2200rpm
Max. traction	93.3kN
Max. torque	980N.m @ 1500rpm
Rated fuel consumption	223g/kW.h
Emission	China-II
POWER TRAIN	
Transmission	Fixed-axis type, electro-hydraulic control
Torque converter	Single-stage, single-phase, three basic elements
Rear axle	Modular, planetary reduction, "no-Spin" anti-skid differential
Tandem drive	Roller chain. Oscillating angle: ±15°
Tire	17.5-25PR12
Front axle	Oscillating angle: ±16° Tilting angle: ±18°
STEERING	
Type	Hydraulic power
Front wheel steering angle	±50°
Articulation angle	±23°
Min. turning radius	7500mm
BRAKES	
Service brake	Drum type, foot operated, single circuit, hydraulically actuated on four tandem wheels
Parking brake	Drum type, manually actuated
MOLDBOARD	
Rotation	360°
Moldboard width	3965/4270mm
Moldboard height	620mm
Moldboard thickness	20mm
Moldboard tip angle	22-73°
Max. cutting depth	970mm
Max. lifting height	480mm
Max. shoulder reach (left/right)	2250/2100mm
Max. tilting angle (left/right)	±90°
SPEED	
Forward, 1-6	5.3\9.1\11.9\20.2\25\40.9km/h
Reverse, 1-3	5.3\11.9\25km/h

HYDRAULICS	
Tandem pump	Gear pump, 32ml/r \ Piston pump 75ml/r
Relief pressure for working equipment	18MPa / 24MPa
Relief pressure for steering	17.5MPa
Relief pressure for brakes	10MPa
CAPACITIES	
Fuel tank	360L
Hydraulic oil tank	85L
Engine crank case	19L
Engine coolant	33L
ELECTRICAL SYSTEM	
Battery	2x12V, 105Ah
Alternator	28V, 70A
Starter motor	24V, 6kW
OPERATING WEIGHT	
Standard	17000kg
With front blade	17860kg
With rear ripper	18250kg
With front blade & rear ripper	18900kg
RIPPER (OPTIONAL)	
Ripping depth	270mm
Shank supports	5
Shank support spacing	520mm
Working width	2080mm
FRONT BLADE (OPTIONAL)	
Width x height	2740x890mm
Thickness	16mm
Max. lifting height	528mm
Max. digging depth	170mm
DIMENSIONS	
A Overall length: Standard	9700mm
A Overall length: With rear ripper	10620mm
A Overall length: With front blade	10380mm
A Overall length: With front blade & rear ripper	11140mm
B Length: Front axle to mid tandem	6560mm
C Length: Between tandem axles	1558mm
D Height: Cab	3358mm
E Tread	2155mm
F Width: Outside tires	2600mm
G Moldboard width	3965/4270mm
H Minimum ground clearance	375mm

