

SG21-3

GRADER
SERIES

ENGINE MODEL	6BTAA8.3-C215
GROSS POWER	160kW/2200rpm
OPERATING WEIGHT	16800kg

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SG21-3 TECHNICAL PARAMETERS



Engine

Model	Cummins6CTAA8.3-C215
Number of cylinders	6
Type	4-cycle, direct injection, water-cooled
Aspiration	Turbocharged, air-air intercooled
Bore X Stroke	114×135
Displacement	8.3L
Gross power	160kW/2200rpm
Max. Traction	88.2kN
Max. Torque	980N.m/1500rpm
Max. Fuel Consumption	202g/kW·h
Air Cleaner	2-stage, dry type



Power train

Transmission	Fixed shaft, electro-hydraulic control, power shift
Torque converter	Single-stage single-phase and three-element
Rear Axle	Modular, planetary reduction, "no-Spin" anti-skid differential
Tandem drive	Oscillating, roller chain
	Oscillating angle $\pm 15^\circ$
Wheel	17.5-25PR12
Front axle	Solid bar construction with oscillation about the central mounting pin
	Oscillating angle $\pm 15^\circ$
	Tilting angle $\pm 17^\circ$



Steering

Type	Hydraulic power
Front wheel steering angle	$\pm 45^\circ$
Articulation angle	$\pm 25^\circ$
Min. turning radius	8200mm



Brakes

Service brake	Caliper type, foot operated, Single circuit, hydraulically actuated on four tandem wheels
Parking brake	Drum type, manually actuated



Moldboard

Type	Hydraulic power, replaceable cutting edges, hardened cutting edges and end bits
Rotation	360°
Blade length	3660/3965/4270mm
Blade height	635mm
Blade thickness	20mm
Blade tip angle	37~83°
Max. Cutting depth	500mm
Max. lifting height	440mm
Blade side shift(Left/ Right)	650/700mm
Max. shoulder reach outside rear tires(Left/Right)	1900/1950mm
Max. Blade tilting angle(left/right)	90°



Speed

Forward	I	5.4km/h
	II	9.4km/h
	III	12.2km/h
	IV	20.5km/h
	V	25.4km/h
	VI	39.7km/h
Reverse	I	5.4km/h
	II	12.2km/h
	III	25.4km/h



Hydraulics

Tandem pump	Gear pump.28ml/r
Brake pump	Gear pump.16ml/r
Relief pressure for working equipment	16MPa
Relief pressure for steering	12.5MPa
Relief pressure for brakes	10MPa



Fuel tank	340L
Oil tank	110L
Engine oil pan	27L
Coolant	35L



Electrical system

Battery	2X105Ah
Alternator	28V-70A
Starter motor	24V-7.5kW



Operating Weight

Standard	16800kg
With Rear Ripper	16820kg
With Front Blade	17210kg
With Rear Ripper and Front Blade	17430kg



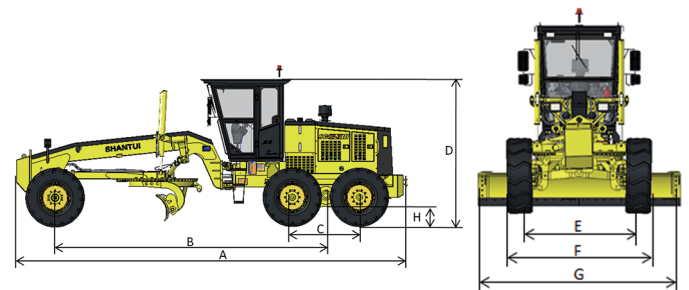
Ripper

Ripping depth	320mm
Shank holders	5
Shank holder spacing	500mm



Front Blade (Optional)

L X H	2740 X 930mm
Thickness	10mm
Maximum Lifting Height	501mm
Maximum Digging Depth	209mm



DIMENSIONS

A	Overall Length: Standard	9315	D	Height: Cab	3400
	Overall Length: With Rear Ripper	9919	E	Tread	2155
	Overall Length: With Front Blade	10307	F	Width over Tires	2600
	Overall Length: With Front Blade and Rear Ripper	10911	G	Blade Width	3660 /3965 /4270
B	Wheel Base to Tandem Center	6560	H	Minimum	430
C	Tandem	1538			