

Motor Grader Series

SG21-3



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Motor Grader Series

SG21-3

ENGINE			
Make	Cummins		
Model	6CTAA8.3-C215		
Rated Power	160 kW / 2200 rpm		
Maximum Torque	980 N.m@1500 rpm		
Displacement	8.3ℓ		
Cylinder	6-114 x 135 mm (bore x stroke)		
Water cooled	Yes		
Direct injection	Yes		
Turbocharged	Yes		
Minimum Fuel Consumption	202 g/kW,h		
TRANSMISSION			
Make	WG180		
Torque converter	Integrated with transmission		
Transmission	Fixed-shaft, Multi-speed, Electronic controlled hydraulic transmission		
AXLES			
Differential type	Locking		
Final drive type	Geared tandem		
Axle Oscillation	±15°		
Front axle type	All welded steel frame		
Front axle wheel lean angle	Left/Right 17°		
BRAKING SYSTEM			
Service Brake	4-Wheel Plier-Pan Brake - Full Hydraulic - Foot Brake		
Parking Brake	Hand Brake with Ratchet Wheel		
Brake Pressure	10 Mpa		
STEERING SYSTEM			
Minimum Turning Radius	8200 mm		
Front Wheel Tilting Angle	± 17°		
Front Wheel Steering Angle	± 45°		
Front Axle Oscillating Angle	± 15°		
Articulation Angle	25°		
TRAVEL SPEED			
1st gear forward	0 - 5.4 km/h	6th gear forward	0 - 39.7 km/h
2nd gear forward	0 - 9.4 km/h	1st gear Reverse	0 - 5.4 km/h
3rd gear forward	0 - 12.2 km/h	2nd gear Reverse	0 - 12.2 km/h
4th gear forward	0 - 20.5 km/h	3rd gear Reverse	0 - 25.4 km/h
5th gear forward	0 - 25.4 km/h		
HYDRAULIC CONTROL SYSTEM			
Working Pump	Tandem Pump		
Displacement of Working Pump	28 x 2 ml		
Working Hydraulic Pressure	16 Mpa		
Blade lift cylinder	Φ101mm×2		
Blade tilt cylinder	Φ101mm×1		
Ripper cylinder	Φ140mm×1		
BALANCE BOX			
Type	No-Spin Limited Slip Differential - Heavy Duty Roller Chain Drive		
Oscillation	15° Forward - 15° Reverse		
TYRES			
Type	17.5-25PR14		
Pattern Level	L-3		

REAR RIPPER	
Ripper type	5 teeth
Maximum digging depth	320mm
Maximum lift above ground	410mm
Weight	962Kg
Ripper overall width	2085mm
CAB	
A/C	YES
Adjustable air suspension seat	YES
Seat belt	YES
Strobe light	YES
Fire extinguisher	YES, SABS Standard
Engine oil pressure meter	YES
Hydraulic oil temperature meter	YES
Coolant temperature meter	YES
Hour meter	YES
Voltage meter	YES
DIMENSIONS AND WEIGHT	
Overall length	9430 mm
Overall width	2600 mm
Overall height	3400 mm
Min. ground clearance	430 mm
Wheel Base	6560 mm
Operating weight	17 tons
Load on front axle	5100Kg
Load on rear axle	11900Kg
ELECTRICAL EQUIPMENT	
Batteries	2x12V-105Ah
Starter Motor	11 kW
Alternator	28V-70A
SERVICE	
Fuel tank	320ℓ
Engine coolant	30ℓ
Engine oil	80ℓ
Hydraulic tank	110ℓ
Transmission and torque converter	28ℓ
Rear axle	25ℓ
Balance box	23ℓ each
MOLDBOARD	
Blade Length	4270 mm
Blade Height	635 mm
Blade Rotational Angle	360°
Cutting Angle Adjustment Range	44 ~ 91°
Maximum Cutting Depth	500 mm
Cutting Force per Dozing	22.48 kN/m
Maximum Lift Above Ground	440 mm
Maximum Blade Lateral Extension (Left/Right)	1900 / 1950 mm
PERFORMANCE	
Maximum Traction	96 kN
Gradeability	20°

The specifications are subject to change without notice. The pictures may include options. The actual colour & appearance of the product may differ from what is shown.

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Address: Unit 1 Jurgens Street, Jet Park Ext 5-1619 Tel: +27 (0) 11 390 8160