Motor Grader Series

SG21A-3

- Engine model: Cummins 6CTAA8.3-C215
- Rated power: 160 kW/2200 rpm
- Operating weight: 17.0 t

Product features

SG21A-3 full-drive motor grader is one kind of multi-function high efficiency construction machinery. It can be used for leveling, ditching, scraping, bulldozing, ripping, land clearing and snow removing on large area ground such as highway, airport, mine and farmland etc. It is necessary construction machinery for defense construction, mine building, urban and rural road construction, water conservancy construction and farmland improvement etc.

The hydraulic drive system on front wheel can be interlocked with rear wheel gears. The complete machine can realize 6-wheel, 4-wheel and 2-wheel drive.

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VALUE THAT WORKS

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SG21A-3

Technical specifications:

Operating weight: 17.0 t	Gradeability: 20°
Blade length: 3660/3965/4270 mm	Wheel base: 6560 mm
Minimum ground clearance: 430 mm	Maximum traction: 122 kN

ENGINE	Engine model	Cummins 6CTAA8.3-C215
	Engine type	In-line, water-cooled, 4-cycle, direct injection, turbocharged
	Rated power/speed	160 kW/2200 rpm
	Number of cylinders (bore x stroke)	6 (114 x 135 mm)
	Piston displacement	8.3 L
	Maximum torque/speed	980 N·m/1500 rpm
	Minimum fuel consumption	202 g/kW·h

TRAVEL SPEED	Transmission and torque converter: Electronic controlled transmission with 6 forward gears and 3 reverse gears.						
	Gear	1st	2nd	3rd	4th	5th	6th
	Forward	0~5.4 km/h	0~9.4 km/h	0~12.2 km/h	0~20.5 km/h	0~25.4 km/h	0~39.7km/h
	Reverse	0~5.4 km/h	0~12.2 km/h	0~25.4 km/h	–	–	–
Front axle speed	Forward I gear (Km/h)	0-8.9					
	Forward II gear (Km/h)	0-18.2					

SYSTEMS	Balance box	Type	No-spin limited slip differential, heavy-duty roller chain drive
		Oscillation angle	15° forward, 15° reverse
	Steering system	Minimum turning radius	8200 mm
		Articulation angle	±25°
	Brake system	Brake pressure	10 MPa
	Operating weight	Total	17000 kg
		Front axle load	5100 kg
		Rear axle load	11900 kg

BLADE	Blade length	3660/3965/4270 mm
	Blade height	635 mm
	Blade rotational angle	360°
	Cutting angle adjustment range	44~91°
	Maximum cutting depth	500 mm
	Cutting force per dozing	25.96/23.96/22.25 kN/m
	Maximum lift above ground	440 mm
	Maximum blade lateral extension (left/right)	1900/1950 mm

HYDRAULIC SYSTEM	Working pump	Tandem pump
	Displacement of working pump	28*2ml/r
	Working hydraulic pressure	16 MPa

SG21A-3

► THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. THE PICTURES MAY INCLUDE OPTIONS. THE ACTUAL COLOR & APPEARANCE OF THE PRODUCT MAY DIFFER FROM WHAT IS SHOWN.

OVERALL DIMENSIONS

OVERALL DIMENSION: L×W×H (MM)	9260×2600×3400
DISTANCE BETWEEN FRONT AXLE AND REAR AXLE (MM)	6560
WHEEL BASE BETWEEN MIDDLE WHEEL AND REAR WHEEL (MM)	1538