

SG18D-3

Leveling the playing field between performance and value

- ▶ Engine model: Cummins 6BTAA5.9-C180
- ▶ Rated power: 132 kW/2200 rpm
- ▶ Operating weight: 16.2 t

SG18D-3 grader is one kind of high performance multi-purpose graders developed by this Company in light of the high temperature and sandy area in Africa.

1. Radiating system: in light of the high temperature and sandy climatic features in Africa, the radiating system is strengthened by adding fan blowing rate and enlarging radiator radiating area. It can guarantee the engine, torque converter and hydraulic system to work normally under 55°C ambient temperature.
2. Rear axle: select special axle produced by Xuzhou Meritor Axle Co., Ltd. It can satisfy continuous heavy-duty working requirement on grader.
3. Front axle: optimize the original axle structure by improving ground clearance and enhancing the complete vehicle trafficability characteristic. The steering track rod is changed into hinge joint structure making steering to be more flexible.
4. Gear box protective device: protective bottom cover is added onto the gear box which can protect the gear box from external shocks.
5. Electrical equipment: fuel level gauge is added, enabling the drive to conveniently know the fuel condition in course of driving; steering lamps and brake lamps are changed into LED lamps which save more energy and protect the environment better.



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SHANTUI

VALUE THAT WORKS

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SG18D-3

Technical specifications:

Operating weight: 16.2 t

Gradeability: 20°






Blade length: 3660/3965 mm

Wheel base: 6260 mm

Minimum ground clearance: 430 mm

Maximum traction: 91 kN

SG18D-3

	ENGINE	Engine model	Cummins 6BTA5.9-C180					
		Engine type	In-line, water-cooled, 4-cycle, direct injection, turbocharged					
		Rated power/speed	132 kW/2200 rpm					
		Number of cylinders (bore x stroke)	6 (102 x 120 mm)					
		Piston displacement	5.9 L					
		Maximum torque/speed	770 N-m/1500 rpm					
		Minimum fuel consumption	206 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	0~9.3 km/h	0~12.2 km/h	0~20.7 km/h	0~25.6 km/h	0~39.7 km/h
		Reverse	0~5.4 km/h	0~12.2 km/h	0~25.6 km/h	-	-	-
	SYSTEMS	Balance box	Type	No-spin limited slip differential, heavy-duty roller chain drive				
			Oscillation angle	15° forward, 15° reverse				
		Tire	Type	17.5-25PR14				
			Pattern level	L-2A/L-3				
			Optional tire	17.5-25PR14				
		Steering system	Minimum turning radius	7800 mm				
			Front wheel tilting angle	±17°				
			Front wheel steering angle	±45°				
			Front axle oscillating angle	±15°				
		Brake system	Articulation angle	25°				
			Service brake	4-wheel pliers-pan brake, full hydraulic, foot brake				
			Parking brake	Hand brake with ratchet wheel				
		Operating weight	Brake pressure	10 MPa				
Total	16200 kg							
Front axle load	4860 kg							
Rear axle load	11340 kg							
	BLADE	Blade length	3660/3965 mm					
		Blade height	635 mm					
		Blade rotational angle	360°					
		Cutting angle adjustment range	44~91°					
		Maximum cutting depth	500 mm					
		Cutting force per dozing	24.47/22.95 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					

OVERALL DIMENSIONS

▶ 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.

