

C H O O S E S H A N T U I C H O O S E T H E F U T U R E

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SHANTUI CONSTRUCTION MACHINERY CO., LTD

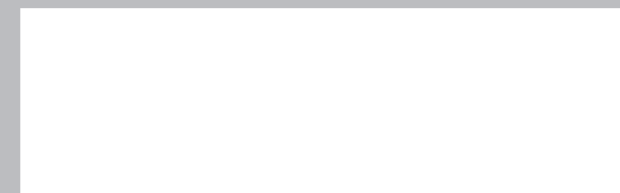
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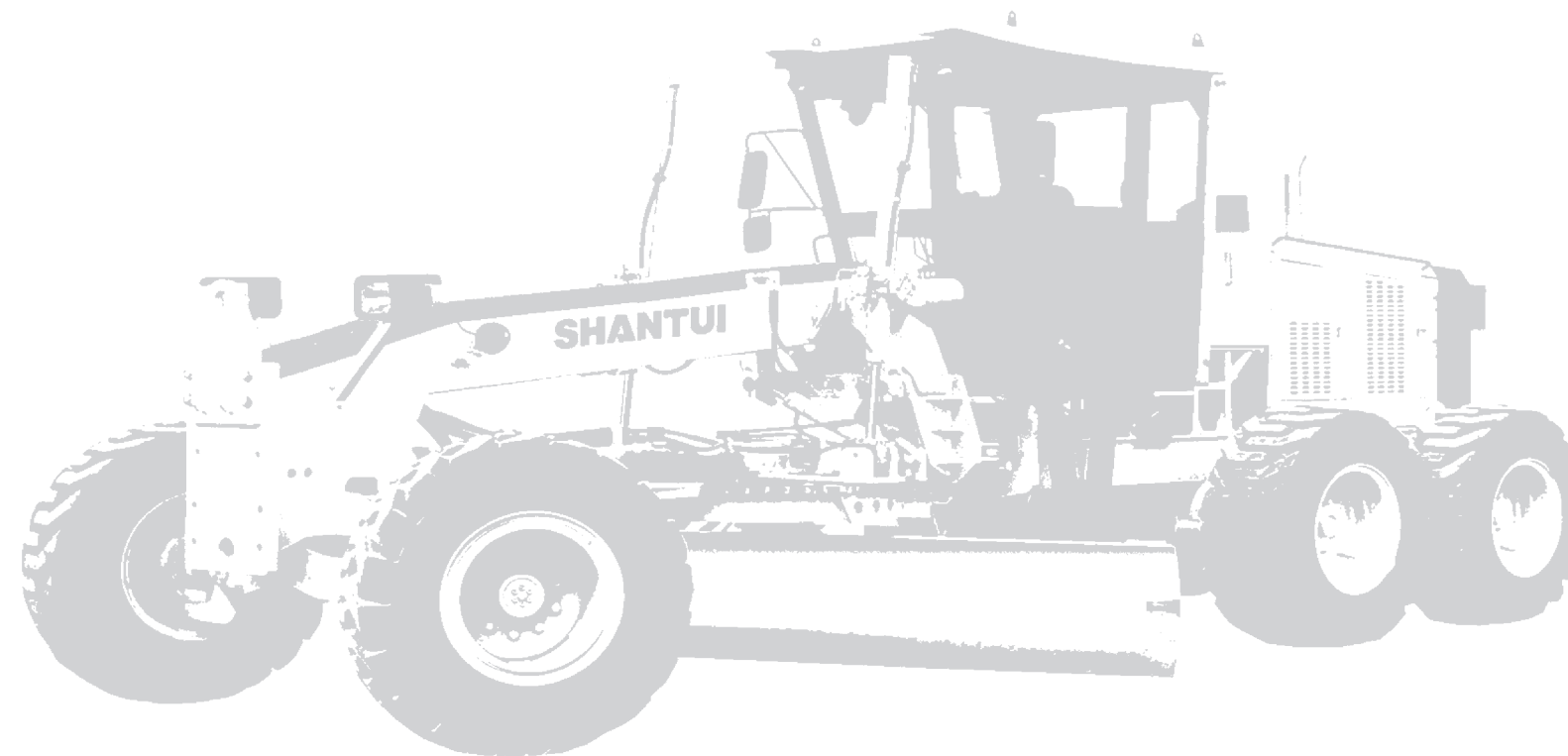
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MOTOR GRADER



SHANTUI

Motor Grader



Motor Graders

SG18-3, SG16-3, SG21-3 Graders Similarities

- Radiators are produced by API Heat Transfer (Suzhou), with integrated water dispersers, air-coolers, transmission/torque converter oil coolers and hydraulic system oil converters combined into one, for effective heat transfer and a compact structure.
- Blade Length: 3660mm
SG18-3 has optional 3965mm blade
SG21-3 has optional 3965mm or 4270mm blade
- SG16-3 Loader parts are identical to SG18-3 parts, except for engine, transmission and weights.
- SG21-3 Grader's cab, weights, front axle, transmission control, working device control, working pump tubing, operational fluid tank and diesel fuel tank are identical to SG18-3.

Operational Overview

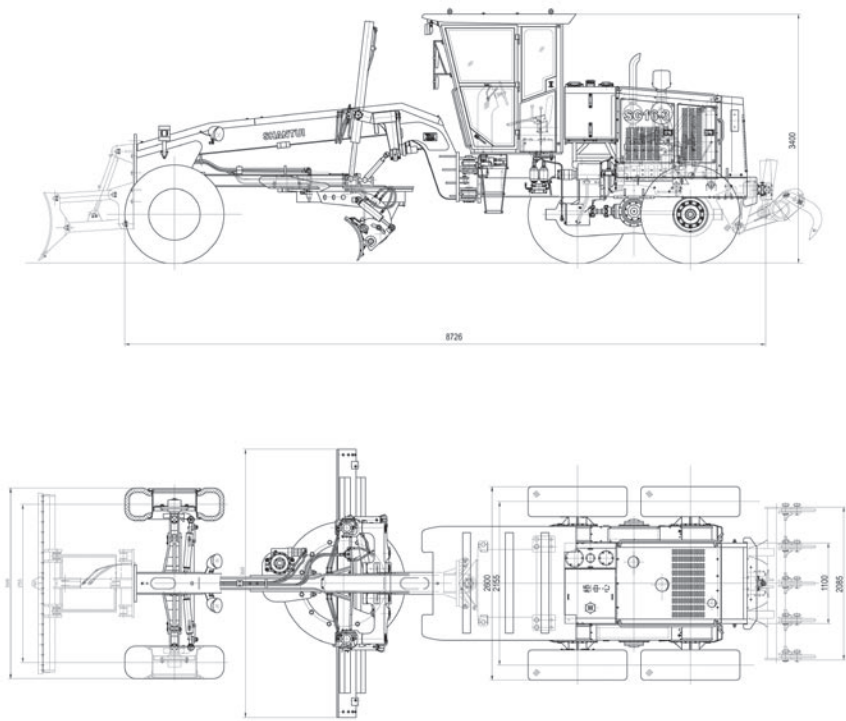
- Articulated steering greatly decreased turning radius, giving grader more flexibility during operation. These graders can “crabwalk,” which allows the blade to extend beyond the rear wheel, thereby avoiding tires from treading on ground that has already been worked. Articulated steering also gives grader self-save capabilities when it runs into problems.
- The following accessories can increase uses of grader: rear rippers, moldboard, front/rear weights.
- One major factor in the graders optimum performance is proper selection of a blade rotational angle and blade angle. We recommend using a fairly large rotational angle, as this gives a relatively high digging pressure on every centimeter of length worked. During work with the blade, a small blade angle can decrease the cutting resistance, while a large blade angle can increase fineness of grading and the mixing effect.
- Front wheel should be tilted towards the side of material flow. When working on inclined surfaces, place the front wheel in a vertical state, and with the help of the front wheel tilt, greater adhesion can be achieved.
- While in operation, if there are no changes made to blades working height, manipulating the blade extraction device can stretch the blade forward.
- These graders are not for work underground or in environments with poor ventilation. Due to engine being direct injection, engine emissions special filter may not be sufficient.



SG16-3



OVERALL DIMENSION



Technical Specifications

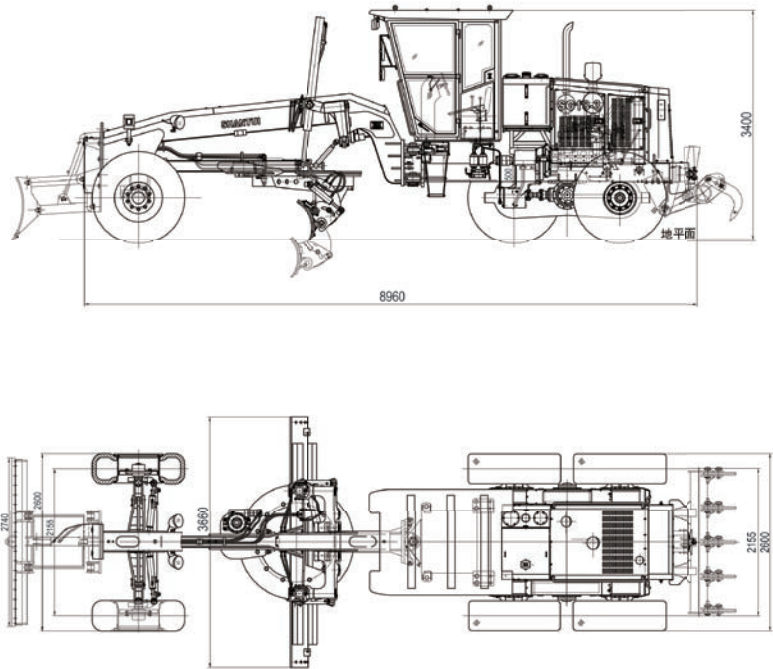
No.	Item	Specification	
1	Product Number & Name	SG16-3 Motor Grader	
2	Engine Model	Cummins 6BTAA5.9-C160	
3	Engine Rated Output/Revolutions	118kW/2100rpm	
4	Operational Weight	15400Kg	
5	Dimensions (L x W x H)	8726×2600×3400mm	
6	Tire Central Distance	2155mm	
7	Front/Rear Tire Central Distance	6260mm	
8	Max Traction	81KN	
9	Min Ground Clearance	430mm	
10	Gradeability	20°	
11	Min Turning Radius	7800mm	
12	Operational System Pressure	16Mpa	
13	Brake System Pressure	12Mpa	
14	Blade Width	3660 mm	
15	Blade Height	635mm	
16	Blade Rotational Angle	360°	
17	Max Cutting Depth	500mm	
18	Max Lifting Height	410 mm	
19	Blade Cutting Angle Adjustment Range	44°～91°	
20	Drive Speeds	Forward Gear 1	0～5.4（Km/h）
		Forward Gear 2	0～8.4（Km/h）
		Forward Gear 3	0～13.4（Km/h）
		Forward Gear 4	0～20.3（Km/h）
		Forward Gear 5	0～29.8（Km/h）
		Forward Gear 6	0～39.6（Km/h）
		Reverse Gear 1	0～5.4（Km/h）
		Reverse Gear 2	0～13.4（Km/h）
		Reverse Gear 3	0～29.8（Km/h）

The specifications are subject to change without notice.The pictures may include options.
The actual color & appearance of Shantui product may differ from what they show.

SG18-3



OVERALL DIMENSION



Technical Specifications

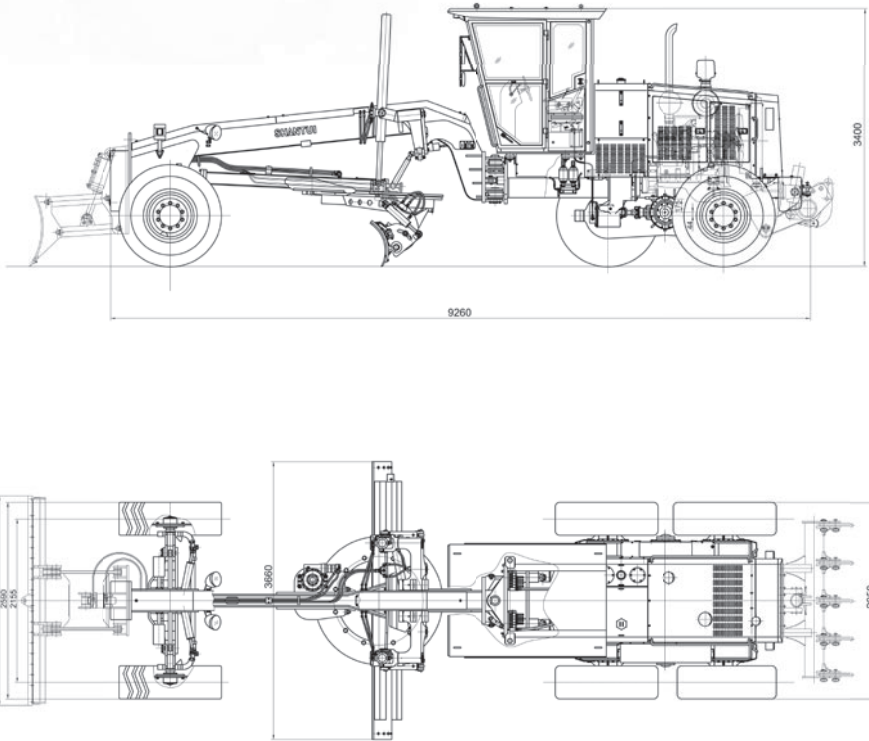
No	Item	Specification	
1	Product Number & Name	SG18-3 Motor Grader	
2	Engine Model	Cummins 6BTAA5.9-C180	
3	Engine Rated Output/Revolutions	132kW/2200rpm	
4	Operational Weight	16200Kg	
5	Dimensions (L x W x H)	8960×2600×3400mm	
6	Tire Central Distance	2155mm	
7	Front/Rear Tire Central Distance	6260mm	
8	Max Traction	85.5KN	
9	Min Ground Clearance	430mm	
10	Gradeability	20°	
11	Min Turning Radius	7800mm	
12	Operational System Pressure	16Mpa	
13	Brake System Pressure	12Mpa	
14	Blade Width	3660 /3965mm	
15	Blade Height	635mm	
16	Blade Rotational Angle	360°	
17	Max Cutting Depth	500mm	
18	Max Lifting Height	410 mm	
19	Blade Cutting Angle Adjustment Range	44° ~91°	
20	Drive Speeds	Forward Gear 1	0~5.4 (Km/h)
		Forward Gear 2	0~9.3 (Km/h)
		Forward Gear 3	0~12.2 (Km/h)
		Forward Gear 4	0~20.7 (Km/h)
		Forward Gear 5	0~25.6 (Km/h)
		Forward Gear 6	0~39.7 (Km/h)
		Reverse Gear 1	0~5.4 (Km/h)
		Reverse Gear 2	0~12.2 (Km/h)
		Reverse Gear 3	0~25.6 (Km/h)

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SG21-3



OVERALL DIMENSION



Technical Specifications

No.	Item	Specification	
1	Product Number & Name	SG21-3 Motor Grader	
2	Engine Model	Cummins 6CTAA5.9-C215	
3	Engine Rated Output/Revolutions	160kW/2200rpm	
4	Operational Weight	17000Kg	
5	Dimensions (L x W x H)	9260×2590×3400mm	
6	Tire Central Distance	2155mm	
7	Front/Rear Tire Central Distance	6560mm	
8	Max Traction	90KN	
9	Min Ground Clearance	430mm	
10	Gradeability	20°	
11	Min Turning Radius	8200mm	
12	Operational System Pressure	16MPa	
13	Brake System Pressure	12MPa	
14	Blade Width	3965 /4270mm	
15	Blade Height	635mm	
16	Blade Rotational Angle	360°	
17	Max Cutting Depth	500mm	
18	Max Lifting Height	410 mm	
19	Blade Cutting Angle Adjustment Range	44° ～91°	
20	Drive Speeds	Forward Gear 1	0～5.4 （Km/h）
		Forward Gear 2	0～9.4 （Km/h）
		Forward Gear 3	0～12.2 （Km/h）
		Forward Gear 4	0～20.5 （Km/h）
		Forward Gear 5	0～25.4 （Km/h）
		Forward Gear 6	0～39.7 （Km/h）
		Reverse Gear 1	0～5.4 （Km/h）
		Reverse Gear 2	0～12.2 （Km/h）
		Reverse Gear 3	0～25.4 （Km/h）

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