

Motor Grader Series



SHANTUI®
VALUE THAT WORKS™

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Shantui Construction Machinery Co., Ltd.
is a flagship member of the Shandong
Heavy Industry Group newly formed in 2009.

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MOTOR GRADER SERIES

Since their addition to Shantui's product line up a few years back, graders have gradually **flattened the competition** with superior performance and very attractive value.

Today, Shantui produces motor graders both for the domestic market and for export.

Graders are a new line for us, and are picking up steam in the market thanks to their roots in Shantui's other successful product lines. Our graders feature the latest technology in steering, transmission and blade movement.

Perhaps the chief selling point of these graders is the fact that the operator has extended visibility, and is even able to view all the working parts of the machine below. This wider range of visibility contributes to the cost efficiency of the machine, getting work done more accurately and faster.

And because Shantui is the nation's construction machinery leader in manufacturing, efficiency, quality and control, these machines come off the line at a very attractive price point.

SHANTUI VALUE AT WORK FOR YOU!



MOTOR GRADER SERIES

Grader models include the SG16-3, SG18-3 and SG21-3. All are similar in characteristics, except for the graduated engine size and power ratings. The “3” stands for 3rd generation.

Product features:

- 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 Grader parts are identical to SG18-3 parts, except for engine, transmission and weight.
- SG21-3 Grader's cab, weight, front axle, transmission control, working device control, pump tubing, operational fluid tank and diesel fuel tank are identical to SG18-3.

Operational overview:

- Articulated steering greatly decreases turning radius, giving the 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 the grader self-correcting capabilities when it runs into problems.
- The following accessories can increase the uses of graders: 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.
- The 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 the direct injection engine, the emissions special filter may not be sufficient.



Flattens
your costs.

MOTOR GRADER SERIES

SG16-3

These machines can **level** just about any obstacles in the road ahead.

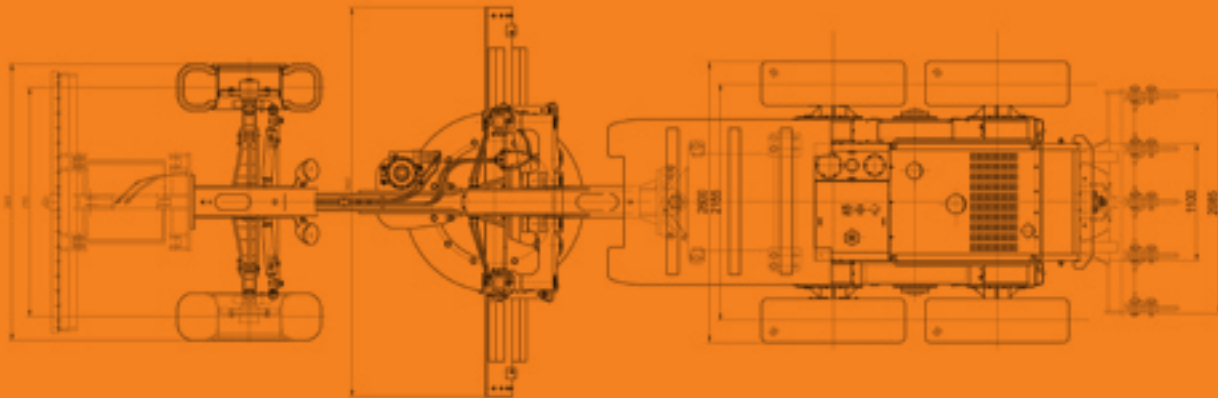
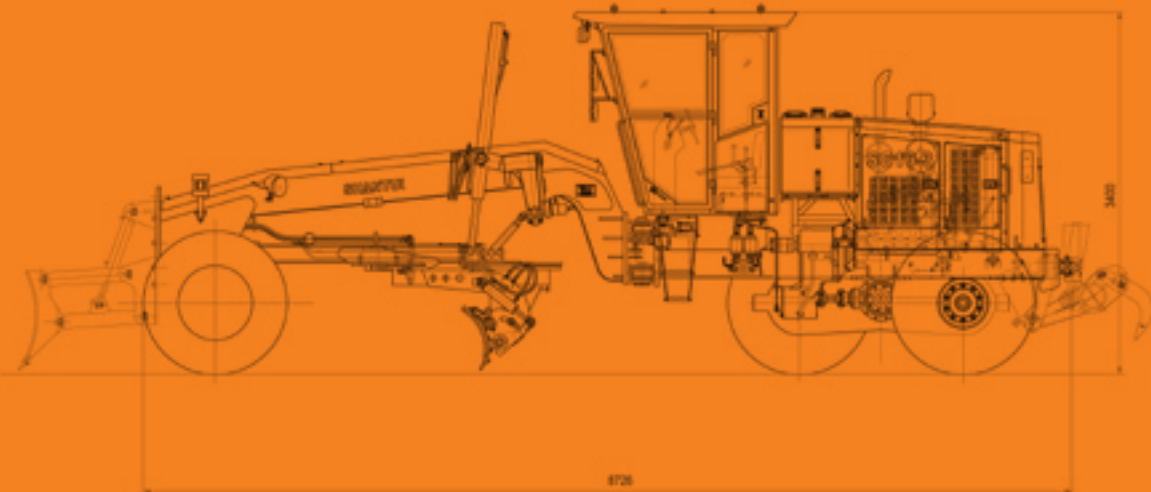
Technical specifications:

MODEL:		SG16-3
Engine		Cummins 6BTAA5.9-C160
Rated power/rpm (kw/rpm)		118/2200
Travel speed (km/h)	Forward 1	0-5.4
	Forward 2	0-8.4
	Forward 3	0-13.4
	Forward 4	0-20.3
	Forward 5	0-29.8
	Forward 6	0-39.6
	Reverse 1	0-5.4
	Reverse 2	0-13.4
	Reverse 3	0-29.8
Dimensions (LxWxH) (mm)		8726×2600×3400
Minimum turning radius (mm)		7800
Wheel base (mm)		2155
Gradeability (°)		20
Maximum traction (kN)		81
Maximum cutting depth (mm)		500
Operating weight (kg)		15400
Blade width (mm)		3660
Blade height (mm)		635
Blade rotational angle (°)		360
Maximum lifting height (mm)		410
Blade cutting angle adjustment range (°)		44-91
Min. ground clearance (mm)		430
Working hydraulic system pressure (MPa)		16
Brake system pressure (MPa)		10

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



SG16-3 ▲



MOTOR GRADER SERIES

SG18-3

When you need to **level** the playing field between performance and value, Shantui motor graders do the trick.

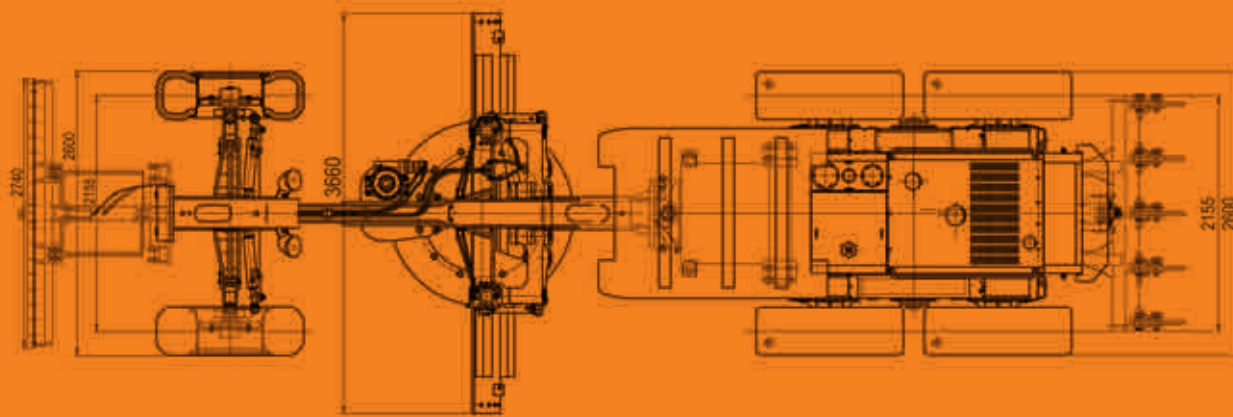
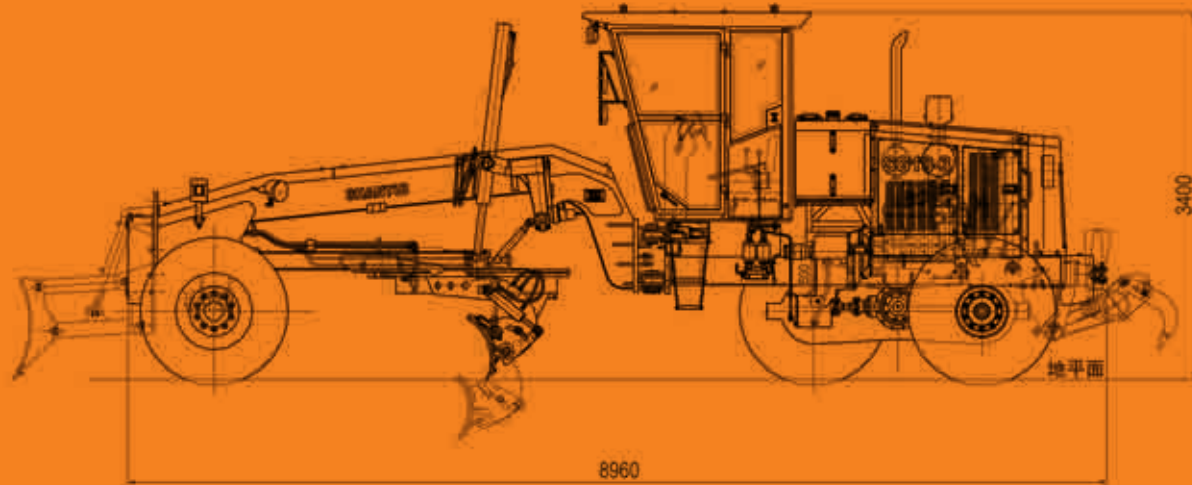
Technical specifications:

MODEL:		SG18-3
Engine		Cummins 6BTAA5.9-C180
Rated power/rpm (kw/rpm)		132/2200
Travel speed (km/h)	Forward 1	0-5.4
	Forward 2	0-9.3
	Forward 3	0-12.2
	Forward 4	0-20.7
	Forward 5	0-25.6
	Forward 6	0-39.7
	Reverse 1	0-5.4
	Reverse 2	0-12.2
	Reverse 3	0-25.6
Dimensions (LxWxH) (mm)		8960×2600×3400
Minimum turning radius (mm)		7800
Wheel base (mm)		2155
Gradeability (°)		20
Maximum traction (kN)		85.5
Maximum cutting depth (mm)		500
Operating weight (kg)		16200
Blade width (mm)		3660/3965
Blade height (mm)		635
Blade rotational angle (°)		360
Maximum lifting height (mm)		410
Blade cutting angle adjustment range (°)		44-91
Min. ground clearance (mm)		430
Working hydraulic system pressure (MPa)		16
Brake system pressure (MPa)		10

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SG18-3 ▲



MOTOR GRADER SERIES

SG21-3

On the **level**, our SG21-3 is one of the toughest motor graders in the market today.

Technical specifications:



MODEL:		SG21-3
Engine		Cummins 6CTAA8.3-C215
Rated power/rpm (kw/rpm)		160/2200
Travel speed (km/h)	Forward 1	0-5.4
	Forward 2	0-9.4
	Forward 3	0-12.2
	Forward 4	0-20.5
	Forward 5	0-25.4
	Forward 6	0-39.7
	Reverse 1	0-5.4
	Reverse 2	0-12.2
	Reverse 3	0-25.4
Dimensions (LxWxH) (mm)		9260×2600×3400
Minimum turning radius (mm)		8200
Wheel base (mm)		2155
Gradeability (°)		20
Maximum traction (kN)		90
Maximum cutting depth (mm)		500
Operating weight (kg)		17000
Blade width (mm)		3660/3965/4270
Blade height (mm)		635
Blade rotational angle (°)		360
Maximum lifting height (mm)		410
Blade cutting angle adjustment range (°)		44-91
Min. ground clearance (mm)		430
Working hydraulic system pressure (MPa)		16
Brake system pressure (MPa)		10

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SG21-3 ▲

