

# SG16-3

National III emission standard.

- ▶ Engine model: Cummins QSB5.9-C160-30
- ▶ Rated power: 120 kW/2200 rpm
- ▶ Operating weight: 15.4 t

## Product features

Shantui's Motor Grader Series has been internally developed, based on the most advanced foreign technologies. The working devices employ external gears with high torque transference and a linked swing frame for easy operation. With a large cutting angle on the cutting edges and a strong resistance to external shocks, the working devices are capable of handling high workloads and can operate under the harshest of working conditions.



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# SHANTUI

VALUE THAT WORKS

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# SG16-3

## Technical specifications:

|                                  |                         |
|----------------------------------|-------------------------|
| Operating weight: 15.4 t         | Gradeability: 20°       |
| Blade length: 3660/3965 mm       | Wheel base: 2155 mm     |
| Minimum ground clearance: 430 mm | Maximum traction: 86 kN |

SG16-3

|   |                  |   |  |  |             |             |             |             |
|---|------------------|---|--|--|-------------|-------------|-------------|-------------|
|    | ENGINE           | Engine model  | Cummins QSB5.9-C160-30   |  |             |             |             |             |
|   |                  | Engine type   | In-line, water-cooled, 4-cycle, direct injection, turbocharged |  |             |             |             |             |
|   |                  | Rated power/speed   | 120 kW/2200 rpm  |  |             |             |             |             |
|   |                  | Number of cylinders (bore x stroke)   | 6 (102 x 120 mm)   |  |             |             |             |             |
|   |                  | Piston displacement   | 5.9 L  |  |             |             |             |             |
|   |                  | Maximum torque/speed  | 720 N-m/1400 rpm   |  |             |             |             |             |
|   |                  | Minimum fuel consumption  | 201 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   | 0~5.3 km/h   | 0~8.2 km/h   | 0~13.2 km/h | 0~20.0 km/h | 0~29.7 km/h | 0~39.6 km/h |
|   |                  | Reverse   | 0~5.3 km/h   | 0~13.2 km/h  | 0~29.7 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 drive type tire                                      |             |             |             |             |
|   |                  |   | Pattern level  | L-2A/L-3   |             |             |             |             |
|   |                  |   | Optional tire  | 17.5-25PR14 block tread common tire                              |             |             |             |             |
|   |                  | 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   | 15400 kg         |   |  |  |             |             |             |             |
| Front axle load   | 4600 kg          |   |  |  |             |             |             |             |
|   | Rear axle load   | 10800 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  | 23.5 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 SHOW

