

# SHANTUI AUSTRALIA

## SG21-B6

Motor Grader



Engine Model: Cummins 6CTAA8.3-C215  
Gross Power: 160kW @ 2200rpm  
Operating Weight: 16,800kg

**POWERED BY**

**EVCORE®**

# SG21-B6 SPECIFICATIONS

## ENGINE

|                        |                                         |
|------------------------|-----------------------------------------|
| Model                  | Cummins 6CTAA8.3-C215                   |
| Number of cylinders    | 6                                       |
| Type                   | 4-cycle, direct injection, water-cooled |
| Bore x stroke          | 114*135mm                               |
| Displacement           | 8.3L                                    |
| Gross power            | 160kW @ 2200rpm                         |
| Max. traction          | 88kN                                    |
| Max. torque            | 980N.m @ 1500rpm                        |
| Rated fuel consumption | 223g/kW.h                               |
| Emission               | China-II                                |

## POWER TRAIN

|                  |                                                                    |
|------------------|--------------------------------------------------------------------|
| Transmission     | Fixed-axis type, electro-hydraulic control                         |
| Torque converter | Single-stage, single-phase, three basic elements                   |
| Rear axle        | Modular, planetary reduction, "no-Spin" anti-skid differential     |
| Tandem drive     | Roller chain. Oscillating angle: $\pm 15^\circ$                    |
| Tire             | 17.5-25PR12                                                        |
| Front axle       | Oscillating angle: $\pm 16^\circ$<br>Tilting angle: $\pm 18^\circ$ |

## STEERING

|                            |                 |
|----------------------------|-----------------|
| Type                       | Hydraulic power |
| Front wheel steering angle | $\pm 50^\circ$  |
| Articulation angle         | $\pm 23^\circ$  |
| Min. turning radius        | 7500mm          |

## BRAKES

|               |                                                                                        |
|---------------|----------------------------------------------------------------------------------------|
| Service brake | Drum type, foot operated, single circuit, hydraulically actuated on four tandem wheels |
| Parking brake | Drum type, manually actuated                                                           |

## MOLDBOARD

|                                  |                |
|----------------------------------|----------------|
| Rotation                         | 360°           |
| Moldboard width                  | 3965/4270mm    |
| Moldboard height                 | 620mm          |
| Moldboard thickness              | 20mm           |
| Moldboard tip angle              | 22~73°         |
| Max. cutting depth               | 970mm          |
| Max. lifting height              | 480mm          |
| Max. shoulder reach (left/right) | 1900/1950mm    |
| Max. tilting angle (left/right)  | $\pm 90^\circ$ |

## SPEED

|              |                                 |
|--------------|---------------------------------|
| Forward, 1-6 | 5.5\9.1\12.2\20.7\26.5\39.2km/h |
| Reverse, 1-3 | 5.3\12.4\26.1km/h               |

## HYDRAULICS

|                                       |                                        |
|---------------------------------------|----------------------------------------|
| Tandem pump                           | Gear pump. 32ml/r \ Piston pump 75ml/r |
| Relief pressure for working equipment | 18MPa / 24MPa                          |
| Relief pressure for steering          | 16.5MPa                                |
| Relief pressure for brakes            | 10MPa                                  |

## CAPACITIES

|                    |      |
|--------------------|------|
| Fuel tank          | 360L |
| Hydraulic oil tank | 85L  |
| Engine crank case  | 19L  |
| Engine coolant     | 33L  |

## ELECTRICAL SYSTEM

|               |              |
|---------------|--------------|
| Battery       | 2x12V, 105Ah |
| Alternator    | 28V, 70A     |
| Starter motor | 24V, 6kW     |

## OPERATING WEIGHT

|                                |         |
|--------------------------------|---------|
| Standard                       | 16800kg |
| With front blade               | 17860kg |
| With rear ripper               | 18350kg |
| With front blade & rear ripper | 19000kg |

## RIPPER (OPTIONAL)

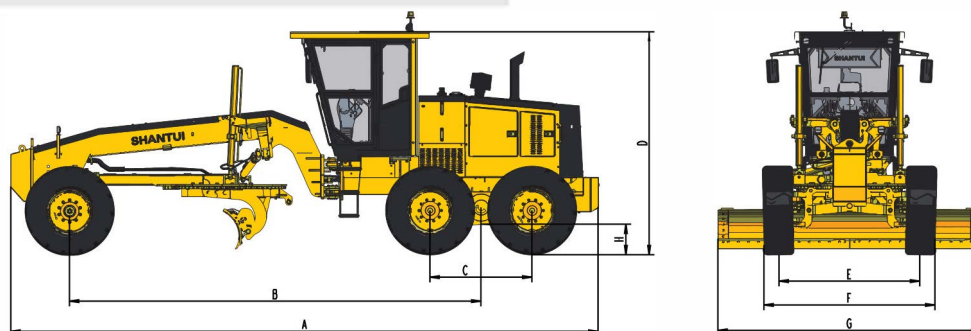
|                       |        |
|-----------------------|--------|
| Ripping depth         | 425mm  |
| Shank supports        | 5      |
| Shank support spacing | 520mm  |
| Working width         | 2080mm |

## FRONT BLADE (OPTIONAL)

|                     |            |
|---------------------|------------|
| Width x height      | 2740x890mm |
| Thickness           | 12mm       |
| Max. lifting height | 660mm      |
| Max. digging depth  | 425mm      |

## DIMENSIONS

|                                                  |             |
|--------------------------------------------------|-------------|
| A Overall length: Standard                       | 9270mm      |
| A Overall length: With rear ripper               | 10620mm     |
| A Overall length: With front blade               | 10380mm     |
| A Overall length: With front blade & rear ripper | 11140mm     |
| B Length: Front axle to mid tandem               | 6560mm      |
| C Length: Between tandem axles                   | 1540mm      |
| D Height: Cab                                    | 3400mm      |
| E Tread                                          | 2155mm      |
| F Width: Outside tires                           | 2600mm      |
| G Moldboard width                                | 3965/4270mm |
| H Minimum ground clearance                       | 400mm       |



\* 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.

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