

# SE220

The medium-sized workhorse in Shantui's lineup of excavators

- ▶ Engine model: Cummins B5.9-C (Tier 2)
- ▶ Rated power: 112 kW/1950 rpm
- ▶ Operating weight: 21.9 t

### Product features

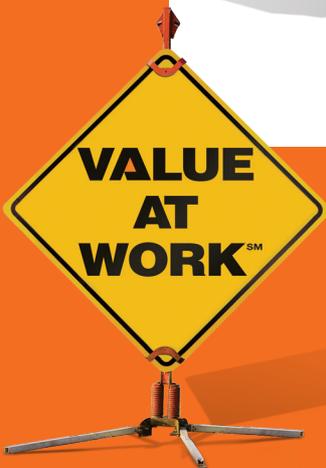
\* The paralleling radiator is adopted to effectively prevent the overheating. The exhaust system is optimized based on the Fluent simulation to reduce the exhaust noise and improve the engine power utilization efficiency. The transmission route is optimized based on the MATLAB vibration system simulation principle so that the noise level of the machine is superior to CE standard requirement. The three-stage integrate fuel filter and the electric fuel pump guarantee the good fuel adaptability and effectively protect the engine.

\* Product reliability: The high quality core parts and the design optimized working device feature stable and reliable quality.

\* Operations and maintenances: The large color display can real-time monitor the working status of machine mode and incorporates the malfunction self-diagnosis and record function. The multi-stage power control is adopted for the manual and electronic accelerators so that the user can select different working modes depending on own needs. The diversified optional attachments, including breaking hammer, ripper, and quick change device, can be equipped to realize the digging, landfill, breaking, and leveling operations, featuring multi-function capability. The remote installation locations for the maintenance parts ease the maintenance operations.

\* Comfort: Within the spacious cab, the arrangement and color matching of the upholstery are designed as per the ergonomic principle. The full-automatic A/C system, automatic air vent adjustment and distribution, and height and position adjustable seats feature excellent adaptability. The cab is equipped with composite shock absorbers to effectively mitigate the vibration of the cab.

\* Appearance: The all-new modeling is designed as per bionic principle and is covered with fully molded and electrophoresis treated coverings.



**SHANTUI**  
VALUE THAT WORKS

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## Technical specifications:

Minimum ground clearance: 470 mm

Overall length: 9605 mm

Operating weight: 21.9 t

Overall height: 3070 mm

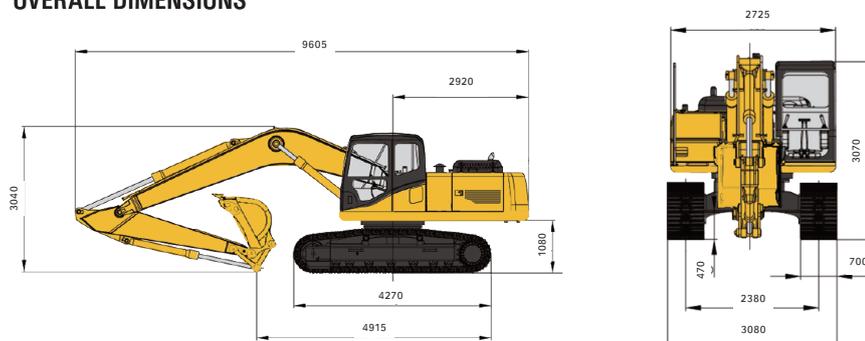
Ground pressure: 41.3 kPa

Overall width: 3080 mm

SE220

|   |                  |   |  |
|---|------------------|---|--|
|    | ENGINE           | Model   | Cummins B5.9-C                                     |
|   |                  | Type  | Water cooling, in-line ,6 cylinders, turbocharging |
|   |                  | Quantity of cylinders                                       | 6  |
|   |                  | Bore x stroke   | 102 x 120 mm                                       |
|   |                  | Displacement  | 5.9 L  |
|   |                  | Power output  | 112 kW/1950 rpm                                    |
|   |                  | Maximum torque  | 614N.m   |
|    | HYDRAULIC SYSTEM | Pump  | Imported   |
|   |                  | Type  | Variable piston pump                               |
|   |                  | Maximum discharge flow                                      | 2x218 L/min  |
|   |                  | Control circuit   | 3.9 MPa  |
|   |                  | Travel circuit  | 31.9 MPa   |
|   |                  | Swing circuit   | 25.5 MPa   |
|    | TRAVEL SYSTEM    | Travel motor  | Variable axial piston motor                        |
|   |                  | Travel brakes   | Lubricated double-disc                             |
|   |                  | Parking brake   | Pressure release                                   |
|   |                  | Travel shoes  | 2 x 47   |
|   |                  | Travel speed  | 3.3/5.1 km/h                                       |
|   |                  | Drawbar pulling force                                       | 195 kN   |
|   |                  | Gradeability  | 70%  |
|   |                  | Minimum ground clearance                                    | 470 mm   |
|  | OIL CAPACITY     | Fuel tank   | 330 L  |
|   |                  | Cooling system  | 28 L   |
|   |                  | Engine oil  | 20 L   |
|   |                  | Hydraulic oil tank  | 270 L  |
|   |                  | System capacity   | 400L   |
|  | SWING SYSTEM     | Brake   | Pressure Release Mechanical Braking                |
|   |                  | Swing speed   | 11.5 rpm   |
|   |                  | Tail swing radius   | 2925 mm  |
|   |                  | Arm digging force   | 92.5 KN  |
|   |                  | Bucket digging force  | 127 KN   |
|  | BUCKET           | Bucket capacity   | Backhoe bucket 1.05 m <sup>3</sup> (SAE)           |
|   |                  | Number of bucket teeth                                      | 5  |
|   |                  | Bucket width  | 1370 mm  |
|   |                  | Arm length  | 2.925 m  |
|   |                  | Maximum digging reach/Maximum digging reach at ground level | 9.865 m/9.680 m                                    |
|   |                  | Maximum digging depth/height                                | 6.49 m/10.100 m                                    |
|   |                  | Maximum dumping height                                      | 7.19 m   |
|   |                  | Minimum swing radius  | 2.97 m   |

## 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.