



# RQ80W Wheel Excavator

## Excellent Performance

**Operating Weight:** 6870kg

**Rated Power:** 48kW/2200rpm

**Bucket Capacity:** 0.27m<sup>3</sup>

**Rated Load:** 500kg

### High-Efficiency Power

YS80W adopts the new China IV engine, equipped with high-pressure common-rail injection system, delivering strong power output and responsive throttle response.

Based on the previous generation, we have carefully optimized the friction pairs of piston, piston ring and cylinder liner, reducing oil consumption and being more eco-friendly.

Further optimized crankshaft and connecting rod, reducing rotational inertia, achieving large torque and high fuel efficiency. Compared with the previous generation, while being durable, it achieves 15% fuel saving.

### DPF Diesel Particulate Filter

Equipped with DPF (Diesel Particulate Filter), installed in the exhaust system of 48kW power, reducing the particulate matter (PM) in the exhaust through filtration, which is more eco-friendly. It meets China IV emission regulations.

### Combined Cooling System

Large heat dissipation area, high heat exchange efficiency. It meets the heat dissipation requirements of engine and hydraulic system under various working conditions. The suction-type heat dissipation further reduces wind noise.

### Reinforced Support Structure

Reinforced support, solid as a rock. The components are designed with long service life, ensuring the failure rate of the slewing bearing is minimized during the whole life cycle of the excavator.

### Hydraulic System

Load-sensing hydraulic system, which can precisely control the hydraulic power ratio according to the vehicle load, with precise and smooth movement.

Optimized variable displacement piston pump, greatly reducing power loss, further saving fuel and improving operation efficiency by 20%.

## Hydraulic Travel System

YS80W adopts hydraulic travel automatic transmission, easy to operate, avoiding cumbersome shifting actions, simple to get started, easier for transition.

It greatly reduces the work intensity, which is favored by drivers. The maximum travel speed can reach 35km/h, with strong climbing ability.

At the same time, it eliminates the mechanical transmission structure, and also saves the maintenance and replacement cost of the clutch friction structure, which is conducive to improving the reliability of the whole vehicle.



## Enhanced Tires

Increased the number of cord layers, effectively preventing accidental puncture and cutting.

Large block tread design, ensuring good grip performance even on muddy roads.

New generation rubber formula design, improving wear resistance by 20%, further improving the stability of the equipment.

## Convenient Maintenance

The body covers can be opened in a large area. The engine is horizontally arranged, with large internal operation space in the engine room, convenient for various maintenance work.

## Luxury Cab

Larger size porthole and optimized cab layout improve the driver's riding comfort, and also ensure that the driver has a good all-round vision.

The suspension seat provides multiple adjustment functions to adapt to the operator's body type and weight (including front/back, height and rebound preload).

New generation Bluetooth multimedia system, with dual-channel high-fidelity speakers, no boredom even during long-time operation.

Upgraded and optimized air conditioning air duct, further improving the cooling / heating effect.

Full-color dashboard realizes visualization of important vehicle information. It can realize self-diagnosis of the whole machine status and early warning display of hundreds of fault status.

The cabin buttons are well arranged, convenient for control and switching, thus achieving efficient operation.



## Reliability

1. **Working Device:** The boom, arm and other high-stress areas adopt high-strength plates, supplemented by robotic welding process, ensuring stable reliability of the working device.

2. **Platform:** Reinforced platform design, higher body rigidity and torsional strength. The excellent structural design and good welding process of the upper platform lay a solid foundation for the performance and reliability of the whole machine.

3. **Chassis:** The chassis optimized for harsh working conditions can better ensure the stability and safety during operation and walking. The integrated mudguard is more sturdy.

4. **Tires:** Domestic well-known brand engineering machinery special tires, increased the number of tire cord layers, effectively preventing accidental puncture and cutting. Deep pattern large block design ensures that the equipment has good grip even under muddy road conditions.

5. **Hydraulic Cylinders:** Special high-pressure cylinders for excavators. The cylinder body and piston rod adopt high-strength materials, excellent forging processing technology and electroplating process, ensuring the anti-rust, durability and stability of the cylinder body. Equipped with high-quality seals, eliminating oil leakage.

## Humanized Design

- Multi-angle adjustable steering wheel, meeting the needs of drivers of various body types.
- Suspension shock-absorbing seat, effectively filtering bumps, no fatigue after long-time sitting.
- Serrated edge design of the boarding pedal, effectively anti-slip, safer for daily driving.
- The grease bucket is placed at the bottom of the excavator, no space occupation, easy to access, more convenient to use.

- Equipped with high-brightness indoor lighting, meeting the basic lighting needs of the cab for night operation.
- Equipped with safety hammer on board, to deal with emergencies.
- Thoughtful design, equipped with large-capacity hand-washing water tank, meeting the driver's basic cleaning requirements.
- Equipped with external toolbox, thick plate forming, sturdy and durable. Large capacity, can place various tools.
- Reinforced work light protection cover, effectively preventing accidental bumps during operation, reducing the risk of accidental damage to the lamps.
- External hydraulic oil temperature observation hole, more intuitive to observe the oil temperature, master the whole machine's working condition at any time.

## Optional Attachments

- Wood grapple
- Brick grapple
- Steel grapple
- Breaker
- Rotary drilling rig
- Hydraulic quick coupler
- Various small buckets (300mm--400mm)
- More attachments are optional...

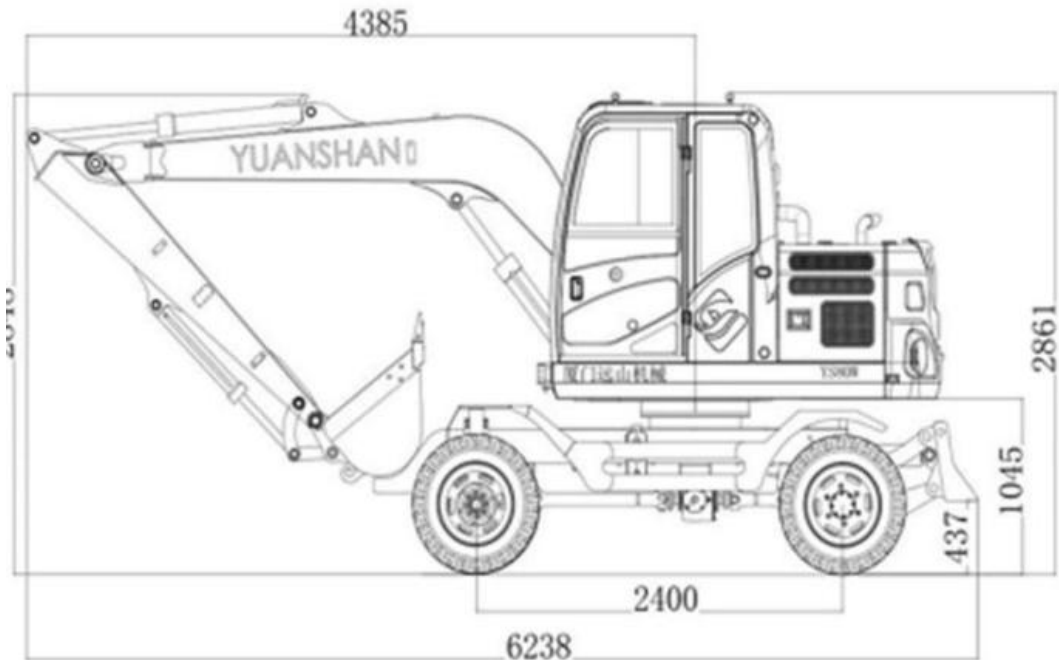
## Working Range

Item	Value
Boom Length	3400mm
Arm Length	1900mm
Maximum Digging Reach	6498mm
Maximum Digging Depth	3344mm
Maximum Digging Height	6766mm
Maximum Dumping Height	4986mm
Minimum Tail Swing Radius	1686mm
Overall Width	2050mm
Overall Height	2861mm
Wheel Base	2500mm
Distance from Arm Edge to Swing Center	3750mm
Overall Transport Length	5966mm
Minimum Ground Clearance	240mm

Dozer Blade Height (Optional)	460mm
Dozer Blade Rising / Lowering Distance	437 / 80mm

## Technical Performance Parameters

Item	Value
Engine Power	48kW/2200rpm
Operating Weight	6870kg
Rated Load	500kg
Bucket Capacity	0.27m <sup>3</sup>
Hydraulic Working Pressure	25Mpa
Maximum Digging Force	48kN
Gradeability	59% (30°)
Travel Speed	35/12 km/h
Maximum Traction Force	50kN
Platform Swing Speed	10.5rpm
Fuel Tank Capacity	160L
Hydraulic Tank Capacity	125L



### Note

With the progress of technology, the structure, performance and parameters of the product will be improved accordingly, subject to change without notice.

Product Manager: Frida:+86 19355385977 Amy:+86 18297527921