



# RQ85W Wheel Excavator

## Excellent Performance

**Operating Weight:** 7060kg

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

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

**Rated Load:** 400kg

### High-Efficiency Power

YS85W 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.

Optional power assembly: Yuchai 48kW / Yunnei 48kW.

### Enhanced Tires

Reinforced 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.



### 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.

## Extended Working Device

With the support of 3650mm boom + 2250mm arm. The maximum digging height can reach 7273mm, and the maximum digging depth can reach 3800mm, meeting the deep digging requirements in various earthwork operations.



## 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.

## Large-tonnage Front and Rear Axles

High-strength integrated axle housing, stronger bearing capacity. Reinforced internal gears, can withstand larger torque, fearless of tough road conditions.

## 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.

## Drivetrain

- Enhanced transmission, with newly matched and optimized gear ratio, better adapting to the complex working conditions of wheel excavator, flexible and faster.
- Reinforced central differential, reducing the friction resistance of internal bearings and gears, higher transmission efficiency, further improving fuel economy.

## 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%.



## Convenient Maintenance

The body covers can be opened in a large area. The valve group, fuse control box, air filter, oil-water separator, etc. are arranged in the right front and left rear hoods, making daily maintenance one-step.

Enlarged the opening of the engine hood, with large internal operation space, convenient for maintenance work.

## Luxury Cab

Newly upgraded cab. Larger size windows with low waistline design, giving the driver an excellent all-round vision.

Dual-rail adjustable ergonomic seat adapts to various body types, no fatigue after long-time sitting, and optional luxury configurations such as "seat ventilation / heating".

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

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

Full-color smart dashboard upgraded again, high-definition large screen display is more intuitive, you can master the whole machine's working condition at any time.

New layout of air conditioning air outlet position, enlarged air ball further improving the cooling / heating effect. Added front windshield defrosting air duct.

## Reliability

1. **Boom & Arm:** Reinforced working device, using high-quality plates to further optimize the internal structure. The improvement of robotic welding process and the use of formed arm greatly improve the reliability of the excavator working arm during the whole life cycle.
2. **Platform:** D-type platform design, higher body rigidity, large torsional strength. The frame is the carrier of all parts, excellent structural design and good welding technology 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. **Counterweight:** Thick plate stretching, integrated counterweight block effectively prevents collision. The low center of gravity structure makes the whole vehicle operation more stable.
5. **Hydraulic Cylinders:** High-pressure cylinders developed specifically for excavators. Excellent cylinder and piston rod material selection, and exquisite welding processing technology achieve high strength of the cylinder. High-quality seals are selected to prevent oil leakage and internal leakage. The piston rod is based on high-frequency quenching, and further improves the anti-rust and wear resistance by plating nickel hard chromium.

## Humanized Design

- Equipped with sunshade curtains for sunroof, side window and front windshield. The design of three sunshade curtains allows the driver to be protected from the sun in all directions during operation.
- Equipped with high-brightness indoor lighting, meeting the basic indoor lighting needs for night operation.
- Multi-angle adjustable steering wheel, meeting the needs of drivers of various body types.
- Serrated edge design of the boarding pedal, effectively anti-slip, safer for daily driving.
- Equipped with "24V 360W" cigarette lighter interface and 5V 2.1A fast USB interface in the cab, meeting the driver's various power and cigarette needs.
- 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.
- Windshield wiper water spray function, ensuring the driver has a clear driving vision under all weather conditions.
- External hydraulic oil temperature observation hole, more intuitive to observe the oil temperature, master the whole machine's working condition at any time.
- Equipped with high-position LED work lights and cab top warning light, making driving and operation safer. Reinforced boom work light protection cover, and embedded LED combination headlights, effectively preventing accidental bumps during operation, reducing the risk of accidental damage to the lamps.

## Optional Attachments

More attachments are optional...



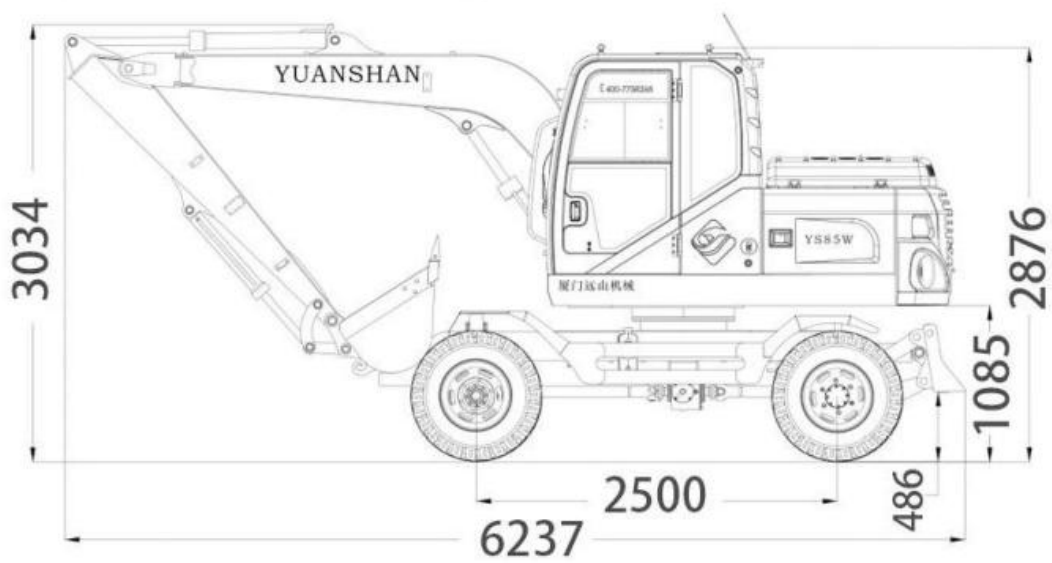
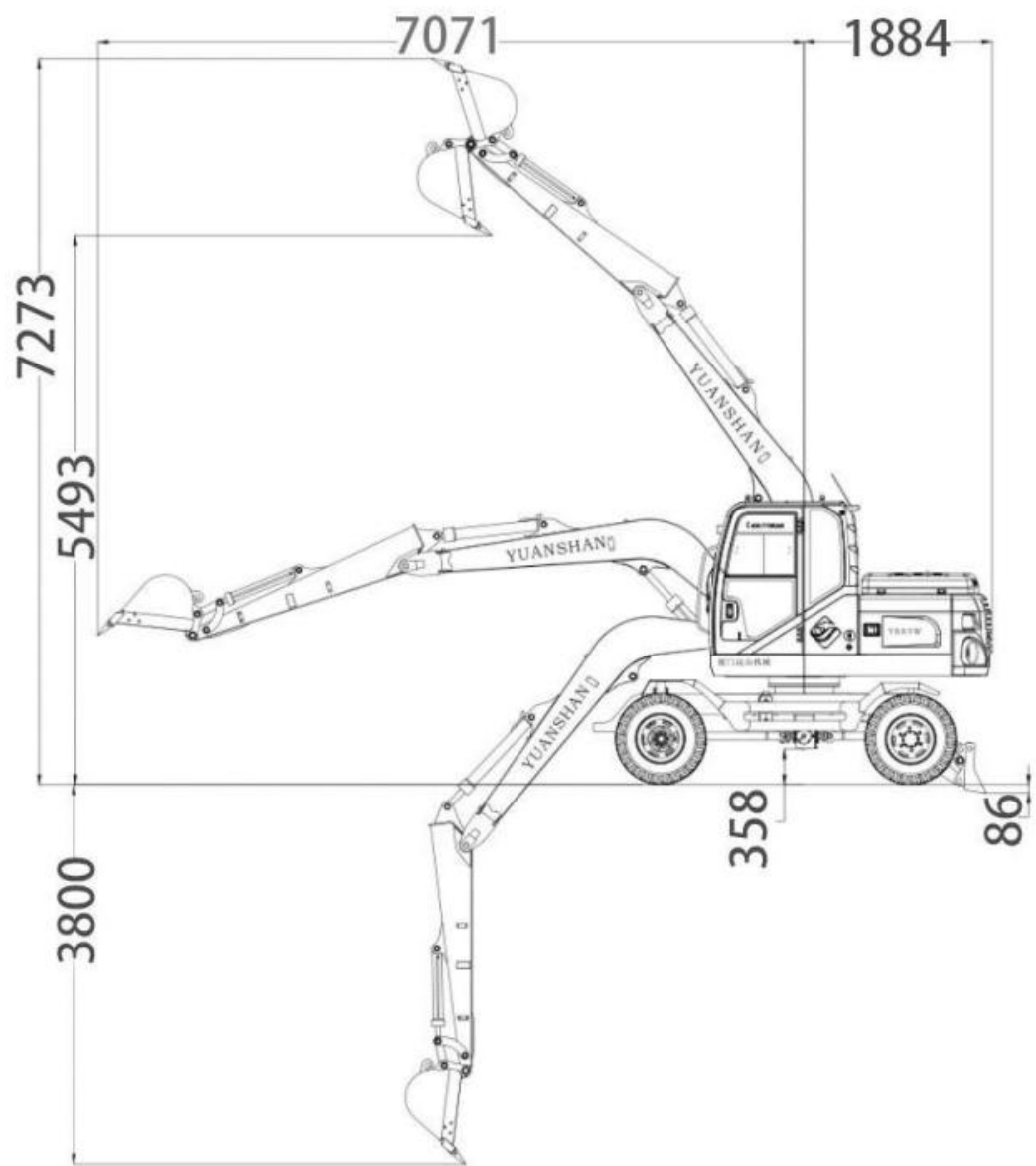
## Working Range

Item	Value
Boom Length	3650mm
Arm Length	2250mm
Maximum Digging Reach	7071mm
Maximum Digging Depth	3800mm
Maximum Digging Height	7273mm
Maximum Dumping Height	5493mm
Minimum Tail Swing Radius	1884mm
Overall Width	2050mm
Overall Height	2876mm
Wheel Base	2500mm
Distance from Arm Edge to Swing Center	4353mm
Overall Transport Length	6237mm
Minimum Ground Clearance	264mm
Dozer Blade Height (Optional)	490mm

Dozer Blade Rising / Lowering Distance	486 / 86mm
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## Technical Performance Parameters

Item	Value
Engine Power	48kW/2200rpm
Operating Weight	7060kg
Rated Load	400kg
Bucket Capacity	0.27m <sup>3</sup>
Hydraulic Working Pressure	25Mpa
Maximum Digging Force	42kN
Gradeability	59% (30°)
Travel Speed	30km/h
Maximum Traction Force	65kN
Platform Swing Speed	10.5rpm
Fuel Tank Capacity	145L
Hydraulic Tank Capacity	100L



Note

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

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