

Comfort & Durability
Security & Reliability



YX646 Wheel Loader

Reliability & Durability

Heavy-duty front & rear frames, long-wheelbase and matured transmission system increase the overall stability. Integrated deflation system enables the loader to adapt to worse working conditions.

High Efficiency & Energy Conservation

Power match is optimized and upgraded, improving the speed, breakout force and traction force, and increasing the working efficiency.

Driving Comfort

Shaping high-rise and instrument panel increases human-machine interaction. Joyful operation is easy and flexible. Spacious cabs also has good sound & vision insulation.

Convenient Maintenance

Back-flipped engine-hood, big platform, and humanized design for maintenance contribute to convenience of daily maintenance.

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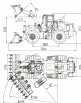


Equipped with air seats, vibration-reducing materials inside, which significantly reduces the noise. New type shock absorption structure is adopted to increase the comfort for driving. Steering column is adjustable. Stepping type instrument panel is of high-level. Oil level sensor is added for the convenience of checking oil easily.

Security & Reliability

Strengthened structural components is adopted including the front and rear frames, hinge joint and working devices, which prolongs the service life of the machine.

Layout of water radiator, hydraulic oil radiator and transmission oil radiator is reasonable. The new radiator ensures the reliability of the machine when works under high temperature.



Technical Parameters

Bucket capacity (standard)	m ³	2.0	Total cycle time(lift, dump & lower)	s	<19
Rated load	kg	4000	Dump height/Dump angle	mm/°	3610/45°
Overall operating weight	kg	13480	Dump distance/Dump angle	mm/°	1170/45°
Max. traction force	kN	130	Min. ground clearance	mm	428.5
Max. breakout force	kN	123	Wheel base	mm	2800
Driveability	°	58	Wheel tread	mm	2054
Min. turning radius(outer side of the bucket)	mm	6150	Departure angle	°	30
Min. turning radius(outer side of the tire)	mm	6080	Steering angle(left & right)	°	30
Overall dimension(standard configuration)	mm		7044*2770*3050		

Engine

Model ----- Weichai WP6C1250F
 (Weichai 6C6175-15281 (system)
 vertical, water-cooled system)
 Type ----- water-cooled four-cylinder turbo diesel
 Rated power ----- 125kw(Weichai)
 120kw(Shangchai)

Braking System

Service brake ----- air-over-oil
 caliper disc
 Parking brake ----- rearward pneumatic
 caliper disc

Tire

Specification ----- 29.5-25
 Tread pattern ----- general pattern

Drive System

Torque converter type ----- single stage,
 2 phase, 2 planets
 Transmission type ----- planetary power shift
 Gears ----- 2 forward, 1 reverse
 Main drive type ----- neutral level gear,
 first reduction
 Hub reduction type ----- planetary
 first reduction
 Drive axle ----- dry type axle

Working Device Hydraulic System

Hydraulic system pressure ----- 16MPa
 Control type ----- pilot control
 Oil pump type ----- gear pump

Steering System

Type ----- steady-distributing hydraulic
 Oil pump type ----- gear pump
 Oil pump-displacement ----- 63Lper
 Working pressure ----- 17MPa

Oil Capacity

Fuel tank ----- 160L
 Engine oil ----- 17L
 Transmission oil ----- 68L
 Hydraulic oil ----- 128L
 Gear oil (gear case) ----- 27L
 Antifreeze liquid ----- 28L

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