

Wheel Loader

# JGM756K

Tier 2



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Operating Weight: 16,850kg

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Rated Load: 5T

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Bucket Capacity: 2.7m<sup>3</sup>

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**JINLONG** 晋工

# JG756K

Wheel Loader

JINGONG

## Specifications

**Operating weight:** 16,850kg

Operating weight includes the work equipment stipulated by manufacturer, the unloaded attachments, driver (75kg), full-filled fuel tank, full-filled radiator, and all fluids (including the hydraulic oil, drive oil, engine oil, and engine coolant) added to the set level stipulated by manufacturer.

**Bucket capacity:** 2.4-3.6m<sup>3</sup>

### Engine

#### Description

Weichai power low-rpm engine, China II emission high torque at low rpm, more powerful, lower fuel consumption.

Standard 93 dust rate, enabling the four matching parts to drop their rate of early wear by 90% or higher;

Intake heater grille effectively solve the difficulty to start up at low temperature.

Hyperboloid fan makes the heat dissipation more effective and the noise lower.

Common-rail electric-control fuel injection technologies not only increase the efficiency of the fuel consumption, also drop the engine noise and the displacement of exhaust gas.

The inter-cooler is mounted to drop the temperature of the supercharged air and thus to increase the intake efficiency. Accordingly, that drops the consumption temperature and NOx content in exhaust gas.

Emission grade	Tier 2
Manufacturer	Weichai
Model	WD10G220E23
Total power of engine (SAE J1995 / ISO 14396)	162kW(220hp) @2000rpm
Net power of engine (SAE J1349 / ISO 9249)	154kW(209hp) @2000rpm
Max. torque	890 N·m
Displacement	9.726L
Number of cylinders	6
Intake type	Turbocharger & inter-cooler

### Drive parts

#### Description

Effective torque converter and reliable low-rpm transmission self-made by Jingong feature the prominent fuel-saving.

ZL50L low-speed planetary power-assisted transmission from Jingong.

Single-stage four-element dual-turbo hydraulic torque converter  
Heavy-duty type drive axle developed by Jingong.

Power - train type	Drive axle Power gear-shifting
Torque converter	Single- stage Four elements
Max. traveling speed, forward	36 km/h
Max. traveling speed, backward	17 km/h
Gears, forward	2
Gears, backward	1

### Drive axle

Type	Jingong 50H drive axle
Swinging angle	±10°

### Fluid level

Fuel	290 L
Engine oil	23 L
Antifreeze	60 L
Hydraulic oil	290 L
Drive oil	53 L
Drive axle / single	44 L

### Hydraulic system

#### Description

This hydraulic system is of dual-pump confluence and steering - prevailing type, featuring the high efficiency and low fuel consumption.

Hydraulic pump is of high-pressure gear pump, featuring the excellent performance and higher reliability.

Hydraulic elements are of high standard and new process type, making its system more reliable.

Work pump type	Gear pump
System pressure	17 MPa
Lifting duration	5.1 s
Unloading duration	1.3 s
Lowering duration	4.2 s
Sum of three durations	<10.6 s
Control type	Control handle

## Brake

### Description

The service brake is of Air-against-oil caliper disc brake type and the parking brake is of cable-control type clamp brake type.

Type of service brake	Caliper disc brake
Type of service brake	Air - against - oil
Type of parking brake	Clamp type brake
Type of parking brake	Cable control

## Control

### Description

Steering system: articulated steering by steering wheel  
System supply: full-hydraulic coaxial flow-amplification steering system, flexible and easy steering and reliable performance.  
Steering cylinder: two action cylinders

Steering type	Steering wheel
Steering pressure	16 MPa
Number of cylinders	2
Diameter of cylinder bore	90 mm
Diameter of piston rod	45 mm
Travel of cylinder	340 mm
Displacement of pump	80 ml/r
Steering angle	±35°
Min. steering (outside of tire)	6,216 mm

## Cab

### Description

Meter: all important information is located in the middle instruments and inside the vision of operators.

The large space panoramic cab is equipped with adjustable steering, pilot control, dust proof, shock absorbing and noise reducing, which improves the comfort and safety of the driver.

The automobile electrophoretic primer treatment process is used for the housing of whole machine, which can effectively prevent rust.

The interior adopts composite material, standard visor curtain, silk-loop mattress, artistic and natural.

The cab adopts four point elastic suspension with two-way shock absorption.

Sound-absorbing materials are used to reduce noise, and cushion insulation to reduce indoor reverberation.

## Noise & Air conditioner

Cab noise In line with ISO 6396-2008 / EN ISO 3744-1995	83 dB(A)-- Travel mode
Cab noise In line with ISO 6396-2008 / EN ISO 3744-1995	84 dB(A)--Stationary work cycle mode
Outdoor noise In line with ISO 6395-2008	110 dB(A)--Travel mode
Outdoor noise In line with ISO 6395-2008	111 dB(A)--Stationary work cycle mode
Heating capacity of A/C	5 kW (7.8 hp)
Refrigerating capacity of A/C	4.7 kW (8 hp)

## Electronic system

### Description

GPS (Global Positioning System)

Brand-new intelligent instrument system is able to monitor the real-time work conditions of complete vehicle.

Updated smart control system with independent intellectual property has the remote diagnosis system which could provide the fast and accurate solution to customer in case of failure

Reversing alarm could make the driving safer.

Voltage	24 V
Battery	2 x 12 V
Battery capacity	2 x 120Ah
Capacity of cold startup	850 A
Grade of AC generator	1,960 W / 70 A
Output of starter motor	7.5 kW

## Performance parameters

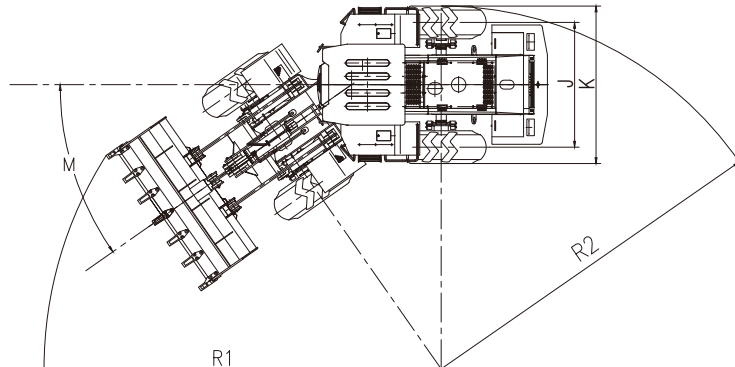
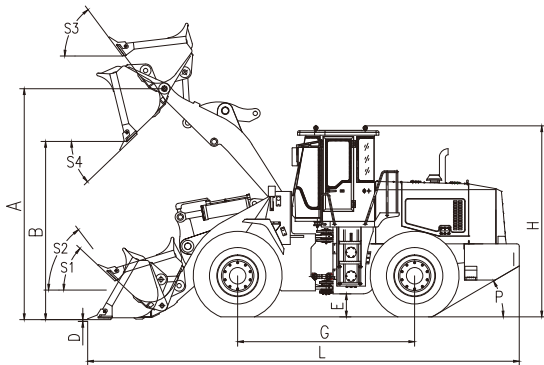
### Description

Tilting load is calculated at the condition with bucket capacity at 2.7 m<sup>3</sup>, and 16850kg of operation weight.

Tipping load - straight according to ISO 14397-1:2007	11,700 kg
Tilting load - full turning in line with ISO 14397-1:2007	10,000 kg
Breakout force	>168 kN
Pivot height at max. lifting height	4,160 mm
Unloading height	3,150 mm
Unloading height at max. lifting height	1,130 mm
Breakout depth	40 mm
Max. bucket-withdrawing angle on the ground	45°
Max. bucket-withdrawing angle at transporting position	48°
Max. bucket-withdrawing angle at max. lifting height	60°
Unloading angle	45°

## Dimensions

E Ground clearance	770 mm
G Wheelbase	2,920 mm
H Cab height	3,450 mm
J Wheel track	2,250 mm
K Outside width of tire	2,850 mm
L Overall length (with the attachments)	7,750 mm
M Steering angle, at any side	35°
P Departure angle	34°
R1 Min. turning radius with bucket at transporting position	6,670 mm
R2 Turning radius, at outside of tire	6,216mm



## Tire

Proper tires for your machine will become the key competitive edge of excellent performance. Through closely and jointly development and cooperation with well-known supplier which is carefully selected, Jingong could provide the full-series tires specially customized for wheeled loader.

Size	Application	Mode	Dimensions	PR/*	Tube type	Width	Overall diameter	Depth of tread	Loading capacity, 50km/h/10km/h
L2	<ul style="list-style-type: none"> <li>At site with good traction</li> <li>For example, on slope with smooth gradeability</li> <li>Work at soft and muddy site without sharp rocks.</li> <li>In all loading/transporting conditions.</li> </ul>		23.5-25	12	TL	595mm	1,615mm	29.5mm	3,650/6,150kg
			23.5-25	16	TL	595mm	1,615mm	29.5mm	6,150/9,500kg
L3	<ul style="list-style-type: none"> <li>Work in sandy conditions</li> <li>In all types of loading/carrying operations</li> <li>Unlike L2, L3 tread is narrow and less self-cleaning effect.</li> </ul>		23.5-25	18	TL	595mm	1,615mm	35mm	6,150/9,500kg
			23.5-25	20	TL	595mm	1,615mm	35mm	7,300/10,900kg
			23.5-25	24	TL	595mm	1,615mm	35mm	8,000/13,200kg
			23.5R25	*	TL	600mm	1,617mm	36mm	7,100/12,150kg
			23.5R25	**	TL	600mm	1,617mm	36mm	9,250/14,500kg
L4	<ul style="list-style-type: none"> <li>Very invasive material</li> <li>Good cut-proof protection, such as in quarry and mine.</li> </ul>		23.5R25	*	TL	600mm	1,704mm	78mm	12,150kg,10km/h
			23.5R25	**	TL	600mm	1,704mm	78mm	14,500kg,10km/h

Note: radial tire has its load-bearing capacity represented with stars \*. The more stars means the radial tire has more load-bearing capacity. The special radial tire dimensions listed in table 2 starts (\*\*) means the max. load-bearing capacity of radial tire.

## Parameters of work equipments

Item	Rock bucket	Coal bucket	Jingong Side-unloading bucket	High-position unloading		Unit
				Regular bucket	Coal bucket	
Bucket capacity	2.4	3.5	2.3	2.7	3.5	m <sup>3</sup>
Rated load	5000	5000	4300	5000	5000	kg
Complete vehicle weight	17030	17200	18300	17330	18000	kg
Unloading height	3180	2990	2950	3510	3310	mm
Unloading distance	1100	1215	1200	1170	1210	mm
Overall length	7790	7915	7950	8255	8440	mm
Min. steering radius (edge of bucket)	6700	6820	6850	6870	7020	mm

The product structures and parameters may alter with the technology updating, without any notice in advance. If sample differs from the actual product, the latter prevails.

# Standard configurations

## Engine

Weichai WD10G220,Tire2  
Engine output power 162KW(220hp),  
water cooling, six cylinders and four strokes  
Pre-filtration of oil-water separator  
Fuel filter  
Direct-drive fan

## Drive

Jingong ZL50L low-speed type planetary  
transmission with power gear-shifting  
Startup function, forward four gears, neutral  
gear and backward two gear  
Transmission oil level detector  
Secondary oil filter, oil bar  
Remote pressure switch for diagnosis

## Drive axle

Heavy-duty drive axle self-made by Jingong  
Air-against-oil brake system  
Auxiliary parking brake

## Hydraulic system

Cable control  
Dual-pump confluence hydraulic system

## Steering system

Full-hydraulic coaxial flow-amplification  
steering system and steering – prevailing

## Tire

23.5-25 / L3 diagonal tire  
Regular mudguard

## Frame assembly

Spacious central articulation arrangement  
with conic bearing  
Articulated locking lever  
Draw bar

## Electrical system

Two headlamps, low beam/ high beam  
On the top of cab, there are two headlamps  
Battery, maintenance-free  
24 V power socket  
Electric horn  
Wiper of windshield  
Radio / player with USB port  
Reversing warning lamp

## Instrument

Engine coolant temperature  
Transmission oil temperature  
Fuel level meter  
Timer  
Voltage  
Brake pressure  
Charging of battery  
Steering lamp  
Transmission oil pressure alarm  
High-beam indicator

## Cab

Seat  
Dual-direction adjustable steering column  
Large- arc window  
Rubber cushion  
Two sides of rearview mirror  
Heater  
One cup holder  
Sunvisor

## Others

On-board tools and attachments

# Optional configurations

## Engine

Cold startup device  
Oil-bathed dual-layer air filter

## Transmissions

AT box

## Hydraulic system

Pilot controls

## Axles and tires

Check the front tire specifications  
Tire protective chains

## Cab

Luxury seat

## Electrical system

Single cold type / heating/cooling A/C

## Attachments

Timber - holding type, grass-holding  
type  
Side-unloading device, optimal for ores

## Others

Automatic central lubrication  
Automatic weighing device  
Sub blade

# WIN WITH RELIABILITY



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