

Wheel Loader

JGM738K

Tier 2



JIN'ONG 晋工

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WIN WITH RELIABILITY

JG738K

Wheel Loader

Specifications

Operating weight:	11,500kg
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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:	1.3-2.5m ³
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Engine

Description

International famous brand Weichai WP6G140E22(DHB06G0046) engine with large torque reserve, stronger power and lower fuel consumption. Six cylinders, in-line, water-cooled, four-stroke, direct injection.

Emission grade	Tier 2
Manufacturer	Weichai
Model	WP6G140E22
Total power of engine (SAE J1995 / ISO 14396)	105kW(140hp) @2200rpm
Max. torque	560 N·m
Displacement	6.75L
Number of cylinders	6
Intake type	Turbocharger

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	16 MPa
Lifting duration	6.0 s
Unloading duration	1.5 s
Lowering duration	3.5 s
Sum of three durations	11 s
Control type	Control handle

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Drive parts

Description

Highly efficient torque converter and highly reliable low-rpm transmission developed by Jingong ZL50L low-rpm planetary drive transmission

Single-stage four-element dual-turbo hydraulic torque converter

Power - train type	Drive axle Power gear-shifting
Torque converter	four-element dual-turbo hydraulic
Max. traveling speed, forward	36 km/h
Max. traveling speed, backward	16 km/h
Gears, forward	2
Gears, backward	1

Drive axle

Type	FEI CHENG AXLE
Swinging angle	±10°

Fluid level

Fuel	210 L
Engine oil	14 L
Antifreeze	47 L
Hydraulic oil	210 L
Drive oil	53 L
Drive axle / single	40 L

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	80 mm
Diameter of piston rod	45 mm
Travel of cylinder	362 mm
Displacement of pump	100 mL/r
Steering angle	±35°
Min. steering (outside of tire)	5,720 mm

Cab

Description

Brand-new designed cab is equipped with high-end, luxury seat, adjustable steering gear, finger-controlled gear-shifting switch and pilot control; spacious panoramic cab is resistant to dust, shock or noise, make the driver safer and more comfortable to control. Trim being of composite material; cab is equipped with sunvisor and wire-coiled carpet with elegant appearance. Cab is equipped with four-point elastic suspension, absorbing shock in dual way. Rear hood has beautiful modeling, with its side door and rear window able to open, featuring easy maintenance.

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
Reserve capacity	230 min
Grade of AC generator	1,960 W / 70 A
Output of starter motor	7.5 kW

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)

Performance parameters

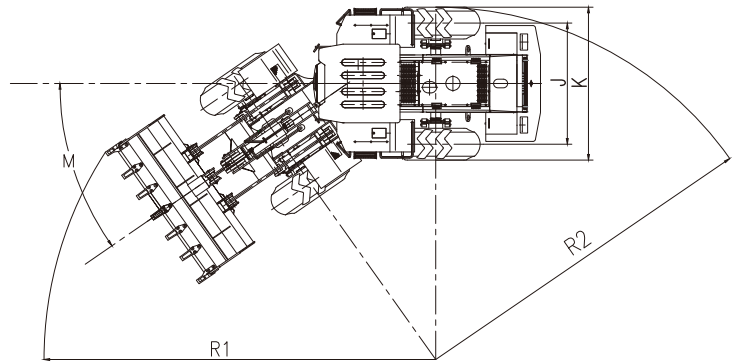
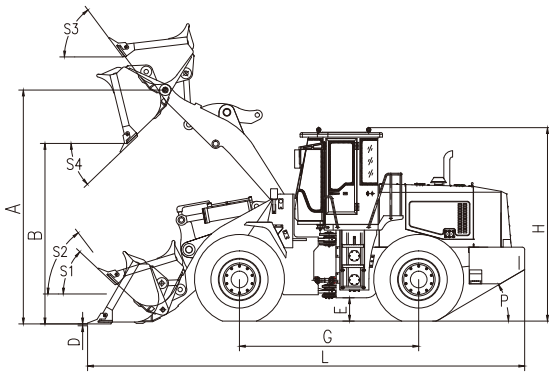
Description

Tilting load is calculated at the condition with bucket capacity at 2.0 m³ and operating weight at 11750kg.

Tipping load - straight according to ISO 14397-1:2007	8,600 kg
Tipping load-straight according to ISO 14397-1:2007	7,377 kg
Breakout force	≥95 kN
A Pivot height at max. lifting height	4,055 mm
B Unloading height	3,125 mm
C Unloading height at max. lifting height	1,155 mm
D Digging depth	35 mm
S1 Max. bucket-withdrawing angle on the ground	45°
S2 Max. bucket-withdrawing angle at transporting position	50°
S3 Max. bucket-withdrawing angle at max. lifting height	57°
S4 Unloading angle	45°

Dimensions

E Ground clearance	345 mm
G Wheelbase	2,870 mm
H Cab height	3,200 mm
J Wheel track	1,865 mm
K Outside width of tire	2,310 mm
L Overall length (with the attachments)	7,640 mm
M Steering angle, at any side	35°
P Departure angle	30°
R1 Min. turning radius with bucket at transporting position.	6,415 mm
R2 Turning radius, at outside of tire	5,720mm



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, Liugong could provide the full-series tires specially customized for wheeled loader.

Size	Application	Mode	Dimensions	PR/*	Tube type	Width	Overall diameter	Loading capacity 50km/h/10km/h
L2	<ul style="list-style-type: none"> • At site with good traction For example, on slope with smooth gradeability • Work at soft and muddy site without sharp rocks. • In all loading/transporting conditions 		17.5-25	8	TL	445mm	1,350mm	2,800/4,750kg
			17.5-25	12	TL	445mm	1,350mm	3,650/6,150kg
L3	Work in sandy conditions <ul style="list-style-type: none"> • In all types of loading/carrying operations • Unlike L2, L3 tread is narrow and less self-cleaning effect. 		17.5-25	16	TL	445mm	1,350mm	4,250/7,300kg
			17.5-25	20	TL	445mm	1,350mm	5,000/8,250kg
			17.5R25	*	TL	445mm	1,350mm	4,125/7,100kg
			17.5R25	**	TL	445mm	1,350mm	5,450/8,500kg

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	Enlarged bucket	unit
Bucket capacity	1.3	2.5	m ³
Rated load	3500	3500	kg
Complete vehicle weight	11450	11720	kg
Unloading height	3395	3090	mm
Unloading distance	1090	1400	mm
Overall length	7500	7760	mm
Min. steering radius (edge of bucket)	6265	6555	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 WP6G140E22, Tier 2 Engine output power 105kW , six cylinders, water cooling, four strokes and direct injection

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 two gears, neutral gear and backward one gear

Remote pressure switch for diagnosis

Drive axle

Feicheng Yunyu 30 Axle

Air-against-oil brake system

Auxiliary parking brake

Hydraulic system

Cable control (Mechanical control)

Dual-pump confluence hydraulic system

Steering system

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

Tire

17.5-25 / L3 diagonal tire

Regular mudguard

Frame assembly

Spacious intermediate articulation

Joint bearing

Articulated locking lever

Draw bar

Electrical system

Two headlights, low beam/ high beam

On the top of cab, there are two headlights

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

Hydraulic system

Pilot control (Joystick control)

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

Others

Automatic central lubrication

Automatic weighing device

Sub blade

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