Wheel Loader LW300FV

Main technical parameters

Parameters	UoM	LW300FV
Loader Performance with Standard Bucket		
Tipping load	kg	7800
Full turn tipping load	kg	6000
Bucket break out force	kN	130
Max. dump angle at full height	Deg	45
Dump clearance at full height discharge	mm	2930
Dump reach at full height discharge	mm	1010
Maximum hinge pin height	mm	3570
Maximum digging depth, bucket level	mm	35
Bucket rollback at ground level	Deg	43
Bucket rollback at carry	Deg	46
Bucket rollback at maximum height	Deg	53.2
Bucket Capacity		
Standard (General purpose)	m3	1.8
Dimensions		
Length with bucket down	mm	7050
Width over tyres	mm	2300
Wheel base	mm	2600
Wheel tread	mm	1850
Ground clearance	mm	400
Turn angle, either side	Deg	35
Maximum gradeability	Deg	28
Turning radius, outside of tyre	mm	5385
Turning radius, centre of tyre	mm	5170
Turning radius, bucket carry	mm	5990
Tyres		
Tyre size		17.5 - 25 (12PR)
Tyre pressure	kg/cm2	3.5±0.01
Operating weight		
Operating weight	kg	10600
Service capacities		
Fuel tank	L	145
Engine oil	L	14
Cooling system	L	30
Hydraulic oil tank	L	170
Transmission and torque converter	L	34
Axles, each	L	25

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The Data given in this brochure are subject to change without notice.

SSI:CAT:XGMGW:LW300FV:122018

XCMG Wheel Loader

LW300FV

SCHWING Stetter

Wheel Loader LW300FV

LW300FV is an economic version of XCMG classic LW300F. LW300FV has a short wheelbase type and small turning radius makes it more flexible and convenient to use in small and narrow space operation. Site adaptability is unmatched and is tested especially for sand, stone, earth, coal and other bulk materials. Comprehensive upgrading has been made to electrical systems, hydraulic systems, transmission systems, ease of maintenance and it comes with a luxury cabin. Vibration noise have been greatly reduced. Overall, the machine is energy saving, reliable, economical, comfortable, with convenient maintenance points and has high performance efficiency.

Energy-saving power transmission system

a. Engine

It adopts turbocharged technology with strong power to meet BSIII emission standards making it more energy saving and safe for the environment. The heat dissipation area of the radiator is increased to overcome the high oil temperature problem and is beneficial to the improve the life of components and system reliability. The pressure measuring device and the temperature measuring device adopts an electronic sensing system to make the user's maintenance more convenient.

b. Gearbox -torque converter

The reinforced heavy-duty drive axle has had more than 820,000 fatigue life tests to meet various high-strength and high-load operating requirements.

c. Drive axle

The fixed axis power shift transmission is connected with a single-stage, single-phase & three-element torque converter, and has multiple gears for 4 forward and 2 reverse which can meet the speed requirements of different working conditions. The fixed-shaft gearbox has the advantages for light shifting, stable combination making it highly reliable with high transmission efficiency. It has long service life making it convenient to maintain.

Hydraulic system

The hydraulic system adopts reliable single pump diversion and load sensing steering technology. Large displacement working pumps reduce hydraulic cycle time. The hydraulic pipe is with an optimized design to facilitate the installation of hydraulic connections, while reducing the hydraulic pipe pressure loss and the heat from hydraulic system.

Frame

The reinforced front and rear frame and the working device are analyzed by CAE, under heavy load conditions to make the shovel effective. Joint bearings are used at the hinge of the frame to ensure the reliability of the hinges of the front and rear frames. Continuing the structural characteristics of XCMG products, the rear frame still adopts a reliable single-slab beam structure, which improves the structural strength through finite element analysis, reduces stress concentration and eliminates local weakness, making the machine safer and reliable. The rear of the fuel tank greatly improves the stability, tipping load and excavation force of the machine. The rear axle has a large swing angle, which can effectively avoid the phenomenon that the wheel is suspended when working on the pit road. Increase the fuel tank shield to prevent deformation of the fuel tank under severe conditions.

Wheel Loader LW300FV

Cabin and control system

The humanized design, new international version of the fully enclosed, micro charged air conditioning cabin has a spacious interior and an open view. The large arc glass integrated cabin is safe with noise being only 3dB making it more comfortable and convenient to operate. Super spherical rearview mirror enhances driving safety with the expanded field vision. The new digital combination meter has electronic oil level, electric three stage display, fault warning, sound and light alarm function. It can be equipped with pilot, warm air, audio. It has spare power cord, coat hook, cigarette lighter, fire extinguisher stent, indoor ball lights and other readily available. Vehicle standard GPS, CAN bus instrument and the engine achieves seamless connection, real-time monitoring of the engine data to master the engine running state.

Electrical system

The electrical system uses fully sealed connectors which significantly improve dust and water resistance. The key electrical components and centralized fuse box are placed in the cabin making inspection and maintenance more convenient.

Maintenance

The hood adopts large side door and upturned skeletal structure design. The side door has a large opening angle and the rear cover can be opened to overhaul engine and radiator. Optimized radiator inlet channel helps improve the cooling effect. Various oil level inspections, oil additions and grease filling and other maintenance points are arranged in easy-to-access areas. Air filter elements, electrical equipment, etc. can be easily removed; the heater is placed on the right side of the cab. Maintenance is more convenient.

Working device and bucket

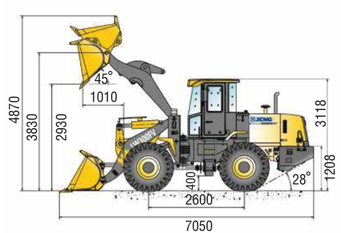
The working device is optimized and designed with a single rocker arm, short pull rod and horizontal boom cylinder with a Z-reverse six-bar linkage structure, which has superior operating performance and operating efficiency. The boom beam adopts a rectangular tube structure, it can effectively avoid stress concentration, welding defects and other phenomena and improve structural strength. Various pin shafts adopt special heat treatment technology of special materials, which have high strength, good wear resistance and long service life.

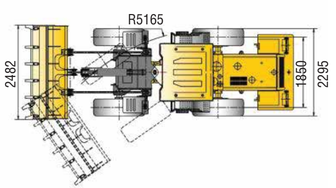
The specially designed bucket type can load the pile more effortlessly. The use of wear resistant materials greatly increases the service life of the bucket. The insertion resistance is small, the full bucket coefficient is high, and the high discharge unloading level indication and the transport position relying on the stopper function can reduce the scattering of materials during the operation.

Brake system

The brake system adopts the pneumatic -oil and the caliper disc four wheel braking system, which can exert a powerful braking force, with travel brake and the parking brake are configured, wherein the service brake adopts the pneumatic -oil and the caliper disc four wheel braking system, which has the advantages of stable braking, safety and reliability, simple structure and convenient maintenance. The dust pump has a dust-proof and large-flow respirator, which is easy to maintain and improve the cleanliness inside the parts such as afterburner

Technical Specifications





Wheel Loader LW300FV

Main technical parameters

Parameters	UoM	LW300FV
Engine		
Tier		BS III
Make		Weichai Power Co., Ltd.
Model		WP6G125E331
Rated power		123 HP / 92kw@ 2300 rpm
Peak torque		515 N.m@1500 rpm
Displacement	mm	6.75
Number of cylinders		6
Aspiration		Turbo charged
Engine		
Transmission type		Power shift transmission with electric operated selector
Transmission configuration		Fixed shaft power shift
Torque converter		Single stage, 3 element
Max. travel speed, fwd.	km/h	40
Max. travel speed, rev	km/h	30
Number of speeds, fwd.		4
Number of speeds, rev		2
Axles		
Differential front type		fixed
Differential rear type		Oscillating
Axle oscillation		±12°
Steering		
Steering pump type		gear pump
Steering configuration		Full hydraulic flow amplifies steering mode
Steering relief pressure	Bar	140
Brakes		
Service brake type		Air over hydraulic brake system (calliper disc type)
Service brake actuation		Air over hydraulic
Parking brake type		Drum type Brake
Parking brake actuation		Mechanical
Hydraulic system		
Main pump type		Gear
Main relief valve pressure	Bar	160
Raise	Sec	5.5
Dump time	Sec	3.6
Float down time	Sec	0.9
Fastest total cycle time	Sec	10