Trustworthy in Task







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The illustrations do not necessarily show the standard version of the machine.

*Under our policy of continuous improvement, we reserve the right to change specifications and designs without prior notice.

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ENSIGN

- Operating Weight 25220 kg
- Bucket Capacity 5.2 cbm
- Rated Power 210 kW
- Rated Load 7500 kg

YX677HV Wheel Loader

ACTO

Reliability



Reliable Design

On basis of Chinese striking technology, as a High-tech enterprise, ENSIGN set up its unique R&D system, hundreds of engineers dedicate to push innovation and development of ENSIGN products. The machines' design and verification are ensured by using CAE analysis, bionic simulation, dynamic simulation and other advanced methods. Each model also has to go through more than 1,000 working hours' reliability test before launching to the market.

Reliable Manufacturing

With the largest single production plant, ENSIGN dedicates to produce qualified wheel loaders with high-technology, 80% components and parts are produced here by using various advanced facilities with strict quality control to ensure the quality of machines. Flexible production line and lane manufacturing can satisfy diverse demands of customers.

Reliable Suppliers

Through establishing strategic cooperation with global well-known suppliers, ENSIGN gets adequate and qualified parts to match with its home-made components to produce reliable products. These parts also can get service and support in customers' local market.

Reliable Service

ENSIGN dedicate to service customer perfectly with "Pro-Care" principle, together with global dealer's support, ENSIGN can provide various service packages according to the customers' demands with quick and adequate parts supply. Jobsite service is always available if needed.









Premium configuration

Equipped with weichai WP10 engine which adopts German BOSCH electric-control, high - pressure common - rail technology and multi-stage oil injection to realize high efficiency, low noise and powerful output with long service life.

ZF BP230 automatic transmission makes machine achieve greater traction and speed. The compact design, great gearbox match and standard automatic control make this transmission has great oil economic efficiency. The new generation proportion valve and advanced control logic can reduce the operator's fatigue dramatically. All of these can significantly improve machine's operation performance and working efficiency. FNR joystick is standard which can both improve working speed and reduce fatigue to operator.

Optimal working device

The proven Z-bar linkage with series high-performance Buckets offer excellent penetration into the pile, high breakout forces, good roll back angles and faster dig times. The results are improved production capabilities, these also help to enable a sustainable solution for your business. The machine's working cycle time is less than 10.3s, that ensures machine can load more materials in short time. Optimal designed 5.2m3 standard bucket can load more material and avoid spilling.

Comfort





Luxury cab

ENSIGN luxury cab with full skeleton structure can provide large space and safety protect to operator. Visibility is excellent to both front and rear of the cabin, the front arc windshield and large rear mirror are equipped to increase operator's vision. Rear camera is an option to machine which can reduce risk when operation. Sun visor is standard to protect operator's eyes.

Micro-pressurized Sealing Design

Micro-pressurized design makes cab has better sealing feature, also the temperature can be kept stable no matter the outside weather when using warm-fan or air conditioning. Improved sealing also decreases the internal noise dramatically which makes operator comfortable and reduce fatigue.

Comfortable Seat

The mechanical suspension seat with excellent vibration absorption feature can better adapt to operator's weight which can reduce operation fatigue dramatically. Adjustable headrest could increase neck and head safety to operator.

Comfortable operation

The single joystick can control the hydraulic system easily with very small effort, that will reduce the operator's fatigue dramatically when operating machine.

Equipped with advanced front panel which has various gauge, the operator can monitor machine's working conditions in time. Steering column can be adjusted back and forth according to the operator's demand.

Vibration and Noise Isolation

ENSIGN unique vibration absorption design can improve the operation and protect the main components dramatically, that can reduce operator's fatigue and prolong uptime of machine. Rear axle can oscillate 12 degrees to increase passage capacity in rough jobsite.

The internal wall of engine hood and the cab floor are stuck by sound absorbing material in order to reduce the noise of machine to improve operator's comfort.





Serviceability



Engine Access

The ENSIGN "side-open" engine hood is easily to open and offers large space for operator when maintain the machine, the Three-points design of foot-plate and hand-holders is very convenient for operator to climb the machines with safety. The fuel filter and oil filters are located in one side of engine to make them easy and quick maintenance. Fuel and hydraulic oil level indicators are placed in convenient places on the tanks for easy check.

Convenient Lubrication

All butter filling positions are leaded to the convenient places on machine in order to easy lubrication. Operator can stand on the ground when do the routine maintenance. Centralization lubrication is optional to convenient lubrication if customer has special demand.





Instrument Panel

Advanced instrument panel integrates gauges which can help operator monitor the running situations of machines, it is very convenient to help technician to maintain and repair machine.

Electronic Centralized Control Box

Electronic centralized control box integrates fuses and relays together and located in the cab, it is more safety and reliability, also very convenient to check and maintenance.

Dry brake axles

Equipped with dry brake axles that the brake pads are exposed outside of axles, this design makes brakes pads are easy to be replaced with low cost. Brake pipes in front of axles are protected by steel plate to avoid damage which may be caused by materials dropped from bucket.







We are pleased to be ENSIGN customer, not only because of quality of ENSIGN products, but also its great customer service, after working in our jobsite thousands hours with minimum downtime, we are sure that ENSIGN and its machines are reliable and trustworthy

Ayu, Project Manager of a Construction enterprise in East Asia



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- mum in order to benefit customer with lower using cost.



• Trustworthy quality: As a responsive enterprise, ENSIGN believe in heart that quality is the most important thing to create profit to customer. Produce qualified machine with great performance is the priority of ENSIGN.

Trustworthy service: "Customer first with integrity" is lodged in ENSIGN's concepts and behaviors. With fast service, adequate spare parts and global network, ENSIGN "ProCare" dedicates to keep machine downtime in mini-

Trustworthy team: ENSIGN see customer as trustworthy partner to do the business, we always listen from customers to create innovated approaches to reach customer's demand with teamwork. ENSIGN always stay with you.

YX677HV

Wheel Loader



Technical Parameters	
Bucket capacity(m ³)	3.5-7.0
Rated Load(kg)	7500
Operating Weight(kg)	25220
Max.traction force(kN)	200
Max. breakout force(kN)	200
Gradeability(H)(°)	28
Min.turning radious (outerside of the bucket)(P)(n	nm) 7540
Min.turning radious (outerside of the tire)(Q)(mm)	6680
Departure angle (°)	30
Total cycle time(s)	≤10.3
Dump angle(J) (°)	45
Dump height(E)(mm)	3440
Dump distance(G)(mm)	1440
Min.ground clearance(D)(mm)	440
Wheel base(B)(mm)	3500
Wheel tread(N)(mm)	2380
Tire Specification	750/65R25
Max.speed(km/h)	40
Steering angle (left&right)(O)(°)	±38
Overall dimension (L*W*H)(A*L*C)(mm)	9460*3300*3485

Working Device Hydraulic System

Hydraulic system pressure	24MPa
Control type	joystick
Steering System	
Туре	load sensing hydraulic
Oil pump displacement	100cc
Working pressure	20 MPa
Oil pump type	plunger pump

Engine		
Model	Weichai W	P10G286E301
Туре	Electronically controlled high pressu vertical, in-line, water-cooling, four-stroke	
Rated power	r(kW)	210
Max.torque(N∙m)	1185
Rated speed	d(r/min)	2200
Displacemer	nt (L)	9.726

Drive System

Toruqe converter type	Single stage, Single phase, 3 elements
Transmission type	Fixed shaft electro-hydraulic control shift
Gears	4 forward, 3 reverse
Main drive type	spiral bevel gear, first reduction
Hub reduction type	planetary, first reduction
Drive axle	dry type axle

Oil Capacity	
Fuel tank(L)	390
Engine oil(L)	20
Transmission oil(L)	45
Hydraulic oil(L)	300
Gear oil(per axle)(L)	(F)40 (R)35
Antifreeze liquid(L)	55

Braking System

Service brake Parking brake

air-over-oil caliper disc manual caliper disc