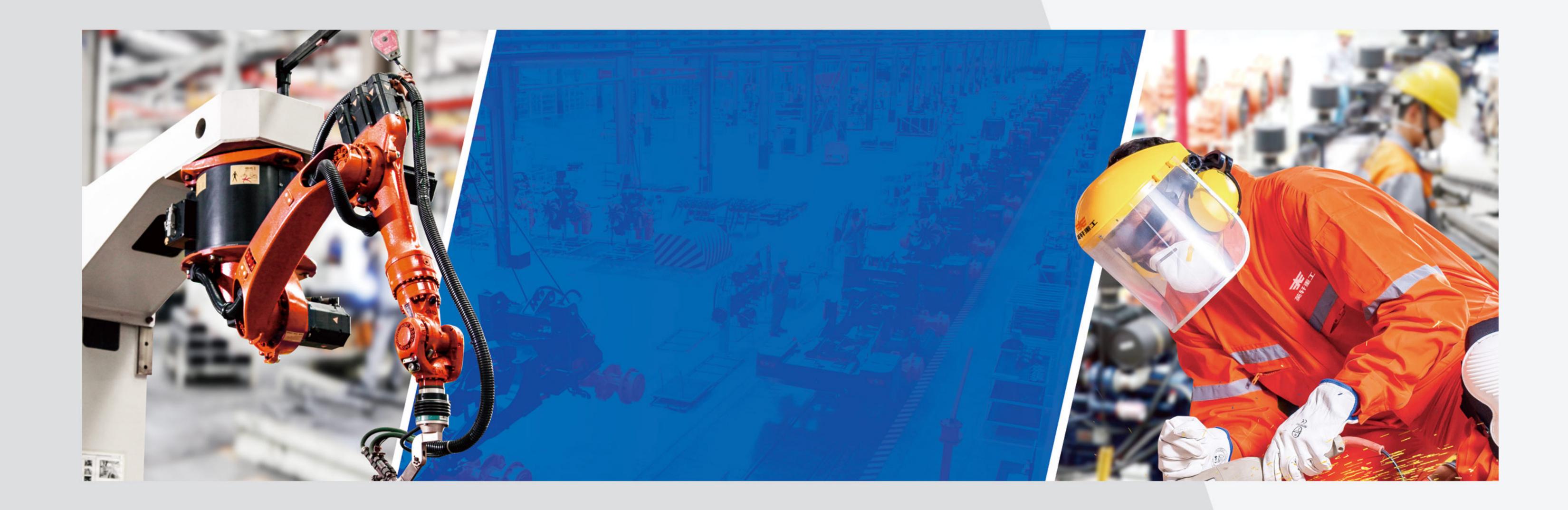
## Trustworthy in Task







## ENSIGN HEAVY INDUSTRIES CO.,LTD

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- Operating Weight 20000 kg
- Bucket Capacity 3.5 cbm
  - Rated Power 178/179 kW
- Rated Load 6000 kg





## 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 has to go through more than 1,000 working hours' reliability test before launching into the market.

## Reliable Manufacturing

ENSIGN builds one of the Asian largest integrated production plants to produce qualified wheel loaders with high-technology. 80% components and parts are made 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 can get service and support in customers' local market as well.

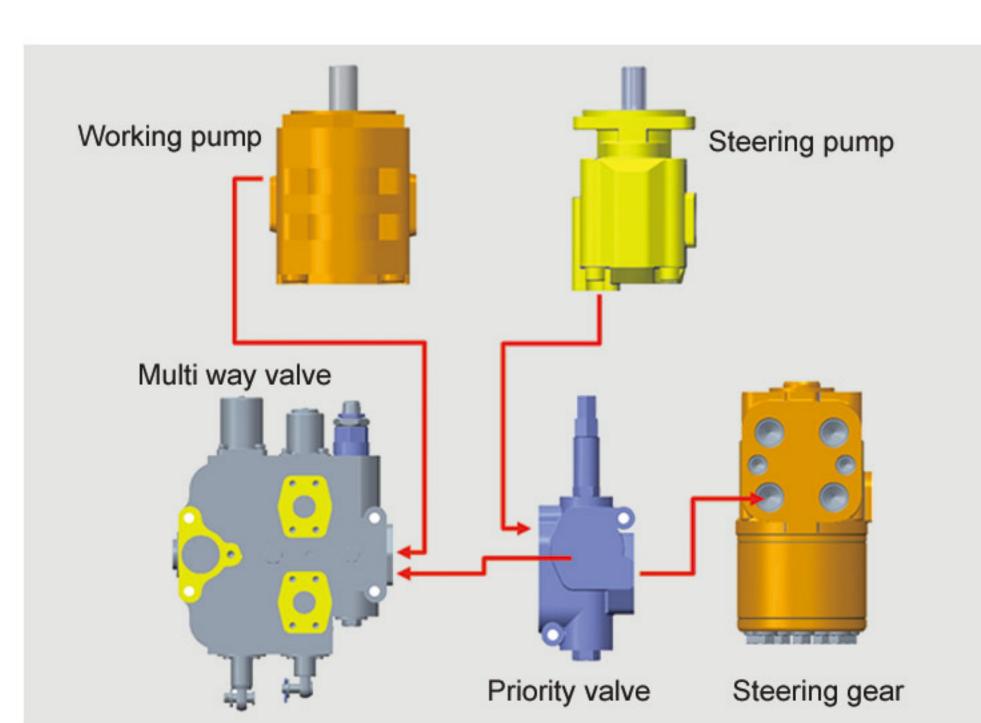
## Reliable Service

ENSIGN dedicates to service customers perfectly with "ProCare" 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.

## Productivity









## Perfect Match with High Performance

Powertrain and hydraulic system are matched perfectly, which makes the loader easy to operate and the work efficiency improved dramatically, both will significantly increase the loader's productivity.

Reinforced structure and qualified parts make the loader more reliable, which increase the loader's service life and thus profit customer greatly.

## Unique Hydraulic System Design

Dual-pump converging hydraulic system can improve the loading power and speed significantly when loading the materials, and reduce the steering fatigue when operator turning the machines.

Equipped with hydraulic accumulator which can dramatically improve the system reaction speed and increase whole system working efficiency.

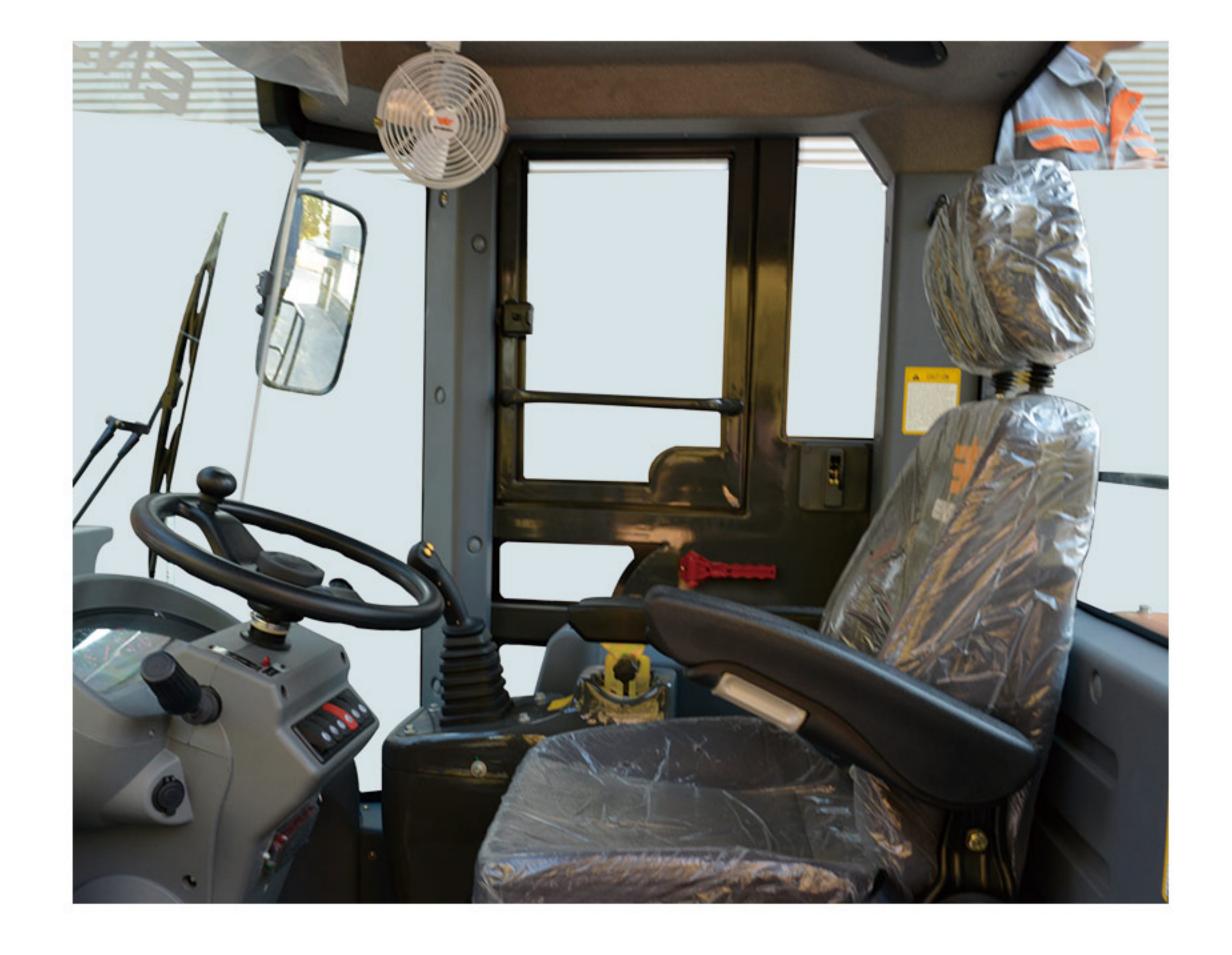
## **Short Working Cycle Time**

The machine's working cycle time is less than 10.2s, which ensures it can load more materials in short time. Pilot joystick function can both improve working speed and reduce fatigue to operator.

## Z- Bar Linkage and Bucket

The proven Z-bar linkage with series of high-performance buckets provide excellent insertion into the pile, large breakout force, good roll back angle and fast digging. The results are improved production capabilities, these also help to enable a sustainable solution for your business.

### Comfort





## Luxury cab

ENSIGN luxury cab with full skeleton structure can provide large space and protection to operator.

Both front and rear of the cabin have excellent visibility. The front arc windshield and large rear mirror are equipped to increase operator's vision. Rearview camera is an option to loader, which can increase security during operation. Sun visor is standard to protect operator's eyes.

## Micro-pressurized Sealing Design

Micro-pressurized design makes cab have better sealing performance, 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.

## **Advanced Front Operation Panel**

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

### **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 protect operator's neck and head during operation.

### Vibration and Noise Isolation

ENSIGN unique vibration absorption design can improve the operation and protect the main components dramatically, which could reduce operator's fatigue and prolong uptime of machine. Rear axle can oscillate 11 degrees to increase passage capacity in rough jobsite.

The inside 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.

# Three-point Climbing Design

The steps and all climb steps are adopted three-point design to be more convenient for getting on and off the machine. Anti-slip footstep could reduce the possibility of sliding when climbing the machines.





## Serviceability





## **Engine Access**

The ENSIGN sloped "one-piece" tilting hood which can be opened 65 degrees provides industry leading access to the engine, and if necessary, the entire hood can be removed easily. Single ply-parallel radiators have excellent heat dissipation performance which also very easy to clean.

The fuel filter and oil filters are located in one side of engine to make them easy to be maintained. Fuel and hydraulic oil level indicators are placed in convenient places on the tanks for easy check.

### **Convenient Lubrication**

All lubricating grease filling positions are placed in the convenient positions on the loader for easy lubrication. Operator can stand on the ground when do the routine maintenance. Centralization lubrication is optional for convenience if customer has special demand.





### Instrument Panel

Advanced instrument panel integrates analog-like gauges which have green and red zone indicators, helping operator see if machine systems are within operating range. It is very convenient to help technician to maintain and repair machine.

## 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

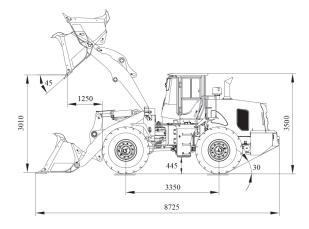


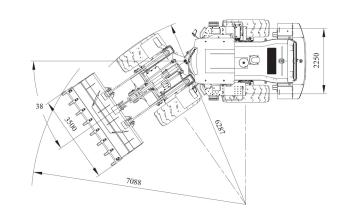
#### **Trustworthy In Task**

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

### YX667

#### Wheel Loader





Technical Parameters	
Bucket capacity(m³)	3.5
Rated Load(kg)	6000
Operating Weight(kg)	20000
Max.traction force(kN)	195
Max. breakout force(kN)	186
Gradeability(°)	30
lin.turning radious (outerside of the bucket)(mm	7088
//in.turning radious (outerside of the tire)(mm)	6287
Departure angle (°)	30
Total cycle time (s)	≤10.6
Dump angle (°)	45
Dump height(mm)	3010
Dump distance(mm)	1250
Min.ground clearance(mm)	445
Vheel base(mm)	3350
Wheel tread(mm)	2250
Fire Specification	23.5-25
Лах.speed(km/h)	40
Steering angle (left&right)(°)	38
Overall dimension (L*W*H)(mm)	8725*3080*3500

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#### Working Device Hydraulic System 17.5MPa Hydraulic system pressure Control type joystick gear pump Oil pump type

Steering	System
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Туре	load sensing hydraulic
Oil pump displacement	100cc
Working pressure	16 MPa

Model	Weichai WD10G2	40E201/Cummins 6CTA8.3-C240- II
Туре	,	vertical, in-line, direct injection, water-cooling, four-stroke, turbo charged
Rated por	wer(kW)	178/179
Max.torqu	ıe(N·m)	980/1028
Rated spe	eed(r/min)	2200
Displacer	nent (L)	9.72/8.3

Drive System	
Toruqe converter type	Single stage, 3 elements
Transmission type	fixed shaft, power shift
Gears	4 forward, 2 reverse
Main drive type	sprival bevel gear, first reduction
Hub reduction type	planetary, first reduction
Drive axle	dry type axle

Oil Capacity	
Fuel tank(L)	305
Engine oil(L)	20
Transmission oil(L)	50
Hydraulic oil(L)	185
Gear oil(per axle)(L)	42
Antifreeze liquid(L)	41

#### Braking System

Service brake	air-over-oil caliper disc
Parking brake(emergency brake)	manual caliper disc