TRUCK-MOUNTED CONCRETE **BOOM PUMP** VISION CREATES FUTURE **ZOOMLION**

ZOOMLION

Zoomlion Heavy Industry Science & Technology Co.,Ltd.

BENCHMARK POSITION





INNOVATION LEADERSHIP

The World's Longest 101m Carbon Fiber Boom Pump Truck- Guinness World Record holder.

80m Carbon Fiber Boom Pump Truck won the Guinness World Record in 2011.

101m Carbon Fiber Boom Pump Truck set a new record in 2012 and remains so far.

592 invention patents

1156 valid patents

10 patent families for international inventions

INDUSTRY-LEADING INNOVATION

The Secretariat Unit of ISO/TC96 for standard setting



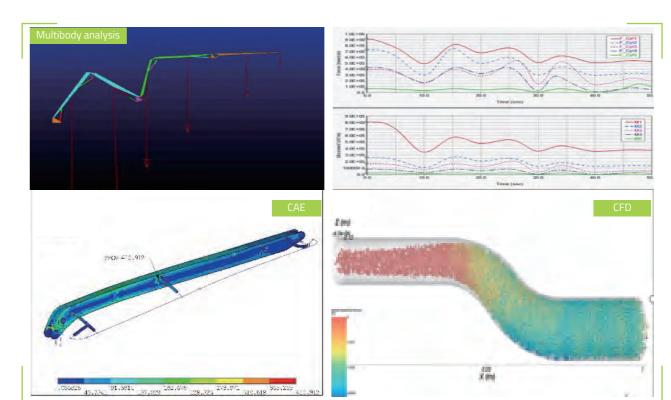
Published the first international standard in the industry

INDUSTRY-LEADING DESIGN AND TESTING

The industry-only National Engineering Research Center of Concrete Machinery

With a world-class digital simulation team for structural strength, stiffness, vibration, fatigue, fluid, and lightweight to carry out the forward design of products efficiently, accurately, and reliably







The industry's most advanced intelligent manufacturing park for concrete pumping machinery.

The largest capacity: 45% reduction in production cycle.

Reliable manufacturing: dark unmanned machining, fully automatic welding, intelligent assembly, etc., to ensure high quality and reliability of products.

27min/set

Manufacturing of boom pump trucks

≥90 %
Automation rate of key processes











PRODUCT FEATURES



To Operate To Maintain To Clean



Structure Wearing Parts Hydraulic And Electrical Systems



Driving Construction



Intelligent Manageable



PRODUCT FEATURES - EASY TO USE

Optimized design to avoid aggregate or leakage, worry free cleaning after construction in high thermal environments.



EASY CLEANING

- High-low Pressure water pump, cleaning efficiently without blind spots, it is equipped with compressed air cleaning an diesel spray, and large capacity water tank well supplied with water for multi-site construction, making it convenient for transfer
- High flow rate water pump (55-70) L/min
- High pressure water pump 20MPa
- Compressed air cleaning
- Diesel spray





TRUCK-MOUNTED

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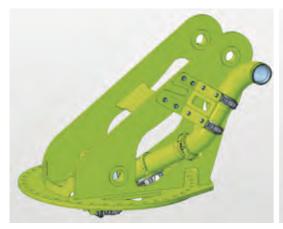
TRUCK-MOUNTED

CONCRETE

BOOM PETER

EASY MAINTENANCE

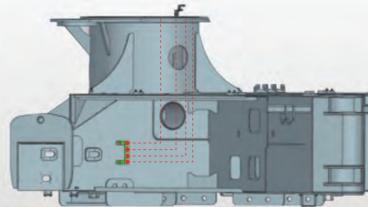
User-friendly and generalization design for convenient maintenance.



Optimized slewing table structure

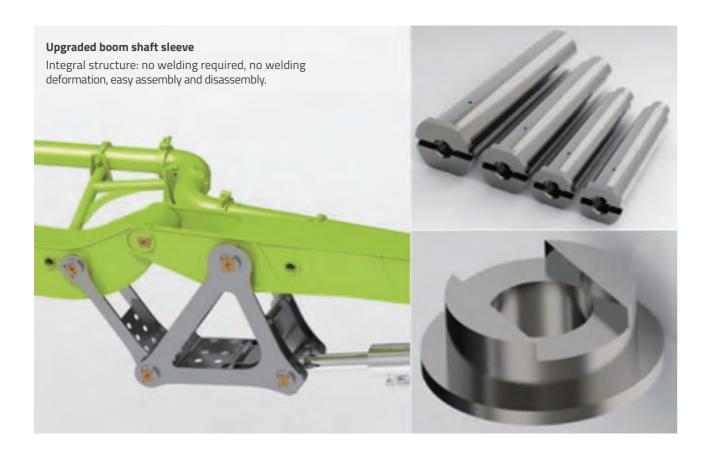
from 3h to 1h.

Externalized delivery pipe with a 20% increase in strength.
Less time for replacing the delivery pipe



Central lubricating

Slewing bearing lubrication point externally centralized to the triangle area of the pedestal, convenient for grease filling.



PRODUCT FEATURES - RELIABLE

RELIABLE STRUCTURE

Long fatigue life of boom and pedestal structures

Designed structural components according to European fatigue design standard; the boom and the main structures of pedestal passed the bench fatigue test by pumping 450,000 cubic meters of concrete.





Fatigue test bencl

STABLE BOOM

Dual damping systems of boom in vertical direction and slewing.making the boom stable.

Boom active vibration control technology, reducing impact by morethan 30% at key parts of the boom.

The vertical amplitude at the end of the boom reduced by 30% and theslewing amplitude reduced by 80%.



TRUCK-MOUNTED

O9-10

CONCRETE

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RELIABLE HYDRAULICS

Major hydraulic components such as hydraulic pumps, hydraulic valves, hydraulic cylinders, and hydraulic pipelines have passed the rigorous environmental adaptation and durability tests to ensure the reliability of the components.





nyaraulic pump

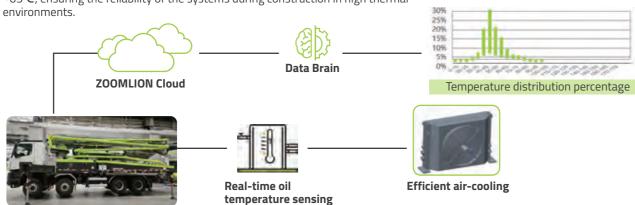
Real-time remote temperature monitoring

hydraulic valve



RELIABLE HYDRAULICS

The low-energy and long-life air-cooling radiator based on intelligent control technology, controls the oil temperature in the optimal working range of 40 °C \sim 65°C, ensuring the reliability of the systems during construction in high thermal environments.



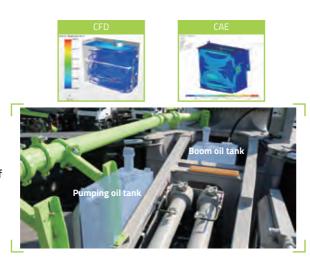
RELIABLE HYDRAULICS

Independent oil tank, less hydraulic oil consumption, long service life, low equipment operating costs.

The **best match** between hydraulic oil tank capacity and system performance through hydrodynamic analysis, reducing generally the hydraulic oil consumption by **30%**;

The unique oil tank structure integrated chamber and grid, slowing the flow, eliminating air bubbles and reducing cavitation to improve system efficiency and prolong the service life of hydraulic oil;

The system with dual independent tanks, extending the maintenance period of hydraulic oil of boom system more than twice as much and reducing the operating cost.

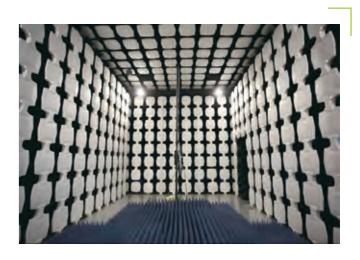


RELIABLE ELECTRICAL

Major electrical components such as controllers, remote controls, displays, circuit boards, and sensors have passed the rigorous environmental adaptation, electro magnetic compatibility (EMC), and durability tests to ensure the reliability of the components.







EMC test chamber

RELIABLE ELECTRICAL

HBC remote control, equipped with automatic frequency management system (AFS), enables the wireless communication distance of the remoter to be >100m.

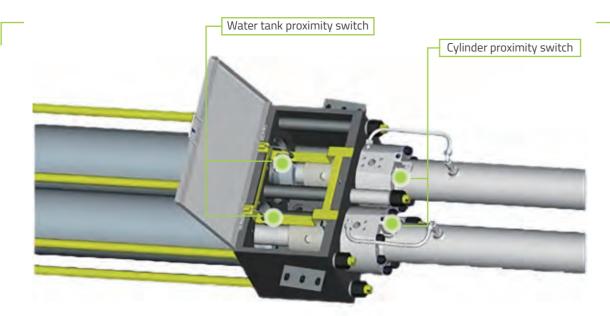


TRUCK-MOUNTED
CONVETE
SOM PUMP

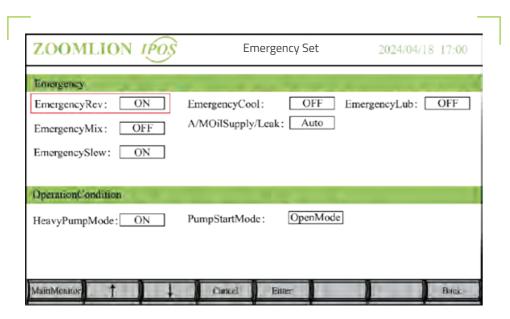
Reliable Electrical

Pumping trouble emergency changeover system, can learn, can adapt

Self-learning and self-adaptive intelligent technology based, can still be pumping even if the proximity switch or displacement sensor fails



Redundant design of reversing sensor

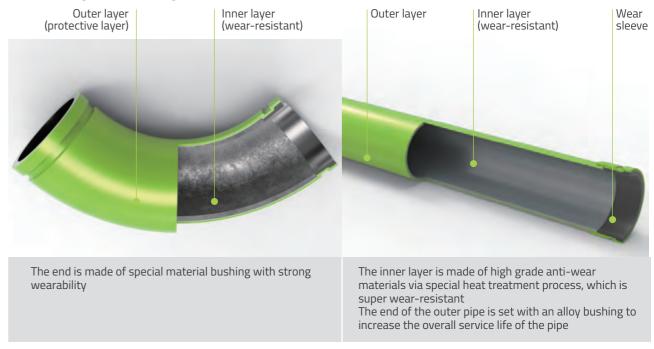


Emergency function setting of control panel

PRODUCT FEATURES- ECONOMICAL

LONG SERVICE LIFE OF WEARING PARTS

Pipes with long service life and great versatility



S-pipe, spectacle plate, and cutting ring with long service life and good sealing performance



The sealing surface of spectacle plate, cutting ring, and S-pipe are processed by grinding, providing high surface accuracy and good sealing performance;

The runner surface is reinforced by surfacing welding with high-chromium anti-wear materials, providing good wear and corrosion resistance.

The piston with strong adaptability to working conditions and long service life

High-performance piston materials with low frictional resistance and strong compressive strength;

The structure design of lubrication cavity to ensure effective lubrication;

One-piece molding process for high dimensional accuracy and good sealing performance.



TRUCK-MOUNTED
CONCENT
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PRODUCT FEATURES- SAFE

360° panoramic image around the truck pump+OGS

Driving on roads

Enter the constuction site before

360° panoramic image around the truck pump

1 Driver Assistance



Multimedia touch screen in cab



Real-time HD display

Based on the high-definition cameras, it is able to display the 360° panoramic HD video with touch interaction, and to record and view the historical video locally so as to assist in the operation during driving.





The auxiliary lines indicate the positions wherethe outriggers will reach when they are fullyunfolded

SAFER

Standard configuration of side searchlights and warning lights as intense light source, making nighttime construction safer



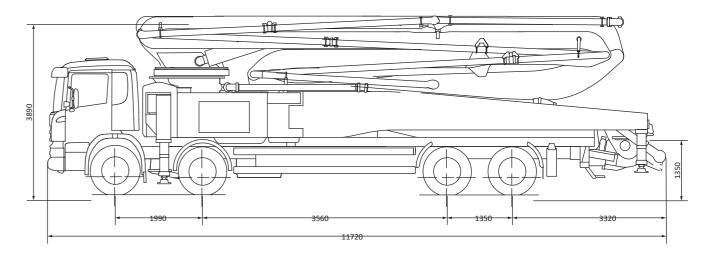
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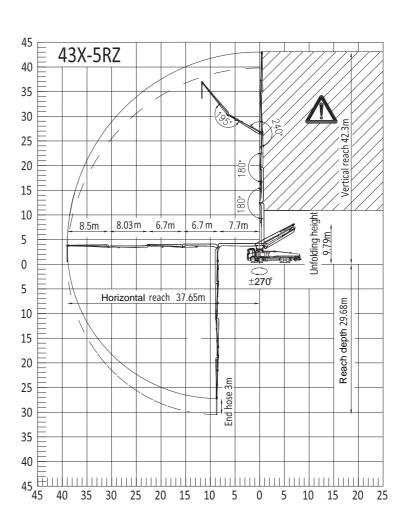
TRUCK MOUNTED CONCRETE PUMP

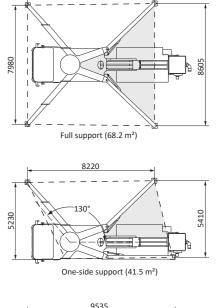


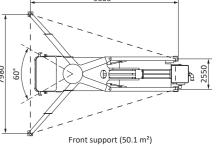
воом		
Vertical reach	m	42.3
Horizontal reach	m	37.7
Reach depth	m	29.7
Min. height of unfolding boom	m	9.8
PUMP		
Max. theoretical output	m³/h	170
Max. theoretical concrete output pressure	bar	88
Concrete cylinder dia × stroke	mm	Ф260×2100
CHASSIS		Open
Chassis brand		SCANIA P 500×4
Engine power	kW	368
Emission standard		Euro 6



Note: Dimensions varing according to truck assembly (mm). For illustration only







TRUCK-MOUNTED CONCRETE BOOM PUMP 17-18

PRODUCT HIGHLIGHTS







Hose Reel









360 View



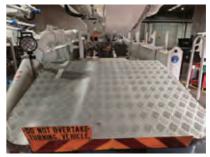
High Pressure Water Pump



Centralized Lubrication System



New HBC Remote



Aluminum alloy Hopper Cover



Swing Cylinder Guard



Hose Recovery Self-locking Device



Boom Searchlight



Boom Support Warning Light



Electric Whistle & Vibrating Motor Buttons on Both Sides of Hopper



Emergency Button & Water Pump Button on Both Sides of Hopper



Outrigger Searchlight



Air Washing Device

TRUCK-MOUNTED CONCRETE

19-20

CONSTRUCTION CASES

























SERVICE SYSTEMS

QUICK RESPONSE

Localization

Local service team provides high-valued repairs and maintenance service and technical support as and when required.

Local stock of a wide range of service exchange warranty package.

Fastest response to service & spare parts.

Customization

Customized colour painting. Optional configurations. Customized service solution and extended Pre-delivery inspection.

Training & delivery

Operation and maintenance training when Annual inspection.







ABOUT ZOOMLION

- 1. Zoomlion is one of the world's largest concrete equipment manufacturers and leaders in developing and manufacturing of major high-tech equipment.
- 2. Manufacturing enterprise integrating engineering machinery, agricultural machinery and financial services.
- 3. Possessing 11 major categories and 70 product lines, as well as nearly 568 leading products.
- 4.Based on the national research institute with 64 years history.
- 5. Annual sales turnover is more than 6 billion USD.
- 6. More than 20,000 staff working for Zoomlion globally.
- 7. Holding over 75% technology innovation patents in the industry in China now.
- 8.22 industrial parks all over the world (13 in China, 9 in other countries).
- 9.The only drafter of the ISO Technical Committee of ISO in China.
- 10.Drafted 200 national industrial standards.

