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BENCHMARK POSITION



INDUSTRY-LEADING INNOVATION

1156 valid patents

592 invention patents

10 patent families for international inventions

The Secretariat Unit of ISO/TC96 for standard setting

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.



Intelligent Warehousing Logistics







PRODUCT FEATURES - EASY TO USE

HUMANIZED HOPPER

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



EASY CLEANING

- Immersible high flow rate water pump, cleaning efficiently without blind spots, and large capacity water tank well supplied with water for multi-site construction, making it convenient for transfer.
- Independent large capacity water tank 700l.
- Immersible high flow rate water pump 70l/min.



User-friendly and generalization design for convenient maintenance.



Optimized slewing table structure Externalized delivery pipe with a 20% increase in strength. Less time for replacing the delivery pipe from 3h to 1h.



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.



Upgraded boom shaft sleeve Integral structure: no welding required, no welding deformation, easy assembly and disassembly.

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%.



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.



Real-time remote temperature monitoring

30%



Integrated test bench for hydraulic pumps, hydraulic cylinders, and hydraulic valves

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 ~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.



3-in-1 integrated test bench (for vibration, temperature, and humidity)

RELIABLE ELECTRICAL

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





EMC test chamber

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	
EmergencyRev: ON EmergencyMix: OFF EmergencySlew: ON	EmergencyCool: OFF EmergencyLub: OFF A/MOilSupply/Leak: Auto
OperationCondition HeavyPumpMode: ON	PumpStartMode: OpenMode

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.







SAFER

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





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.

PRODUCT FEATURES- INTELLIGENT

MANAGEABLE

Digital operation management system

- Positioning and forewarning for all equipment
- Intelligent scheduling and dispatching, facilitating the speed on statistics
- Digital accounting without missing orders





PC+APP



36m		
Model	-	36X-5Z
Vertical/horizontal/depth reach	m	35.5/31.15/23.32
Outrigger span Front/Side/Rear	m	6.19/7.7/6.775
Maximum theoretical output	m³/h	170
Maximum output pressure	Mpa	8.8

38m		
Model	-	38X-5RZ
Vertical/horizontal/depth reach	m	37.1/32.36/25.2
Outrigger span Front/Side/Rear	m	6.19/7.7/6.775
Maximum theoretical output	m³/h	170
Maximum output pressure	Mpa	8.8

43m		
Model	-	43X-5RZ
Vertical/horizontal/depth reach	m	42.3/37.7/29.68
Outrigger span Front/Side/Rear	m	7.98/8.22/8.605
Maximum theoretical output	m³/h	170
Maximum output pressure	Mpa	8.8

50m		
Model	-	50X-6RZ
Vertical/horizontal/depth reach	m	49.3/44.3/35.3
Outrigger span Front/Side/Rear	m	9.31/10.5/8.92
Maximum theoretical output	m³/h	170
Maximum output pressure	Mpa	8.8

56m		
Model	-	56X-6RZ
Vertical/horizontal/depth reach	m	56/51/40.2
Outrigger span Front/Side/Rear	m	9.59/10.86/12.62
Maximum theoretical output	m³/h	180
Maximum output pressure	Mpa	11.3











CONSTRUCTION CASES





















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. parts.

Fastest response to service & spare parts.

Customization

Customized colour painting.Operation and maintenaOptional configurations.delivery.Customized service solution and extendedPre-delivery inspection.warranty package.Annual inspection.

Training & delivery

Operation and maintenance training when delivery. Pre-delivery inspection. Annual inspection.

ABOUT ZOOMLION

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







