



# Truck-mounted concrete pump

ZLJ Series



**OLIVIER**

OLIVIER GROUP is the exclusive dealer for

 **ZOOMLION**

# Summary of ZOOMLION Truck-mounted Concrete Pump

ZOOMLION is the cradle of the concrete pumping technology and the forerunner of the concrete pumping industry in China. With the strong technological support from Changsha Construction and Machinery Institution, ZOOMLION has been focusing its efforts on special and professional development. Due to high-technology it is highly competitive, thus leading the market. The cost-effective products are made in a cutting edge industrial design, perfect exterior design, excellent performance, and high working efficiency.

In 1977, China's first truck-mounted concrete pump design was designed by ZOOMLION.

In 2004, the first Chinese industrial standard for concrete pump trucks was set by ZOOMLION.

In 2005, a new-generation truck-mounted concrete pump was designed by ZOOMLION, with better performance and technical parameters which were widely approved by the market.

In 2006, the first homemade domestic special long-boom pump truck was born, leading the development of economical pump trucks.

In 2007, the 52m long-boom pump truck came into being, and 37m, 40m pump trucks suited for narrow construction sites also staged its debut.



Isuzu Chassis pump-truck



M-Benz Chassis pump-truck



VOLVO Chassis pump-truck



Hino Chassis pump-truck



# Characteristics of Pump Truck with Powerful Profits:

## Highly efficient, low-cost, reliable, safe, smart

By continually upgrading our technology and management, ZOOMLION has developed and manufactured a new generation of concrete pump trucks in China featuring high efficiency, low cost, reliable performance, ensured security and smart control. It is on the cutting edge of industrial technology thus improving your profits.





Highly efficient: Maximum theoretical concrete output capacity reaching 165m<sup>3</sup>/h with optimized configuration.

Low-cost: Low consumption of fuel, hydraulic oil, and lubrication grease; high endurance of spectacle plate and delivery pipe system.

Reliable: Low system impact, no peak pressure; appropriate oil temperature, and little leakage.

Safe: Complying CE standard, safety protection exceeds your expectation.

Smart: Smart control system of pump truck to provide with an overall view to master the working conditions.



# Top Configuration Reliable Guarantee

Our unswerving pursuit is to develop and produce the most pragmatic and suitable concrete pump vehicles for you.

## Transfer gearbox

The imported transfer gearbox has been adopted due to its good sealing, compact structure, light weight and efficient lubrication. The top brand transfer gearbox ensures stable and reliable work.

## Engine

The engine's automatic power matching and energy saving control technology ensures a good fuel efficiency, that makes its fuel consumption 25% lower than that of the competitor's. Engine emissions meet EURO III standard, are environment-friendly and save energy.

## Chassis

The M-BENZ or VOLVO chassis have been adopted. They are not only comfortable and fully configured but also has superior performance. ISUZU or HINO chassis can also be used due to their good economical & practical characteristics and widely spreaded service network. The chassis produced by ZOOMLION has high performance & good cost-efficiency.



## The third generation energy saving and low fuel consumption technology.

With the adoption of computer smart control, utilization of the most advanced sensor technology and automatic & timely adjustment of engine revolutions to meet the operational requirements at the best matched power and the most economic fuel consumption conditions, the purpose of reducing power and saving fuel is achieved.

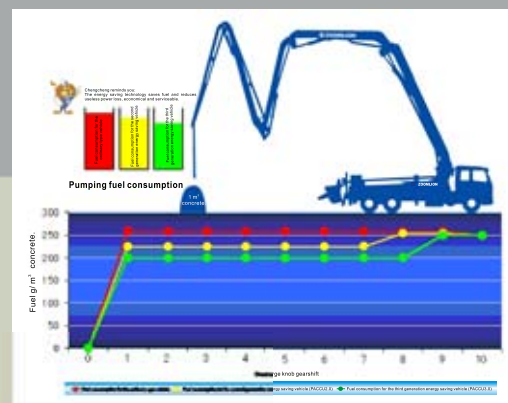
The third generation of energy saving and low fuel consumption technology cuts down 22% of fuel consumption compared with the traditional control method.



Engine



Imported transfer gearbox











# Highly-efficient Pumping System

ZOOMLION stands for reliable professionalism. We are the cradle of the Chinese concrete pumping technology and on the cutting edge of the concrete pumping technology development. We devote ourselves with unremitting efforts to your experience of success.

## Fully-Hydraulic Control Reversing Technology

It is the first time for concrete machinery to apply stable and reliable fully hydraulic control reversing technology with a closed system featuring high accuracy and low system impact.

## Dual-pump Dual-loop Closed Hydraulic System

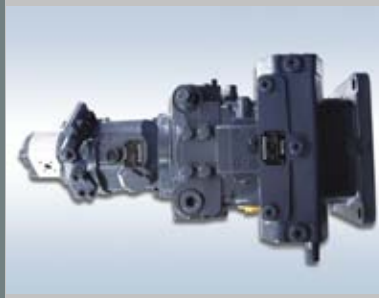
The system impact is 20% lower than the regular pumping systems and hydraulic components have longer service life. Outriggers and booms are breaking resistant. Closed circulation of hydraulic oil against pollution and emulsification. Low cost of hydraulic oil 30% less than open system.

## Concrete Piston Automatic Withdrawal Technology

Easier to change piston; safe and reliable with mechanical and hydraulic dual positioning for piston.

## High Suction Capacity

Actual pumping efficiency has reached 80% of theoretical value with optimized design of pumping system, suction rate is 10%-15% higher than the average value of competitors.



Main oil pump



Main valve set



Patent of quick-piston-changing



Automatic heat rejection system

## Boom Folding Method

- RZ type boom's characteristics:  
Requires a small space to be unfolded, opens and folds quickly;  
Moves flexibly and delivers concrete efficiently in a large working scope; beautiful and clean appearance.
- Z type boom's characteristics:  
Requires less space to be unfolded, opens and folds quickly;  
It is convenient to replace concrete pipe, suitable to be used in a narrow and limited working place.



Z type booms



RZ type booms



# Reliable Boom System

**Quality materials**  
**Precise design**  
**Fine manufacture**

## Precise design

Reasonably structured system and superior performance are guaranteed by the design made on the basis of precise data that are collected through the finite element analysis, model analysis,

## Quality material

The booms are made of Swedish high quality and reliable, 700~900 MPa high strength steel.

## Fine manufacture

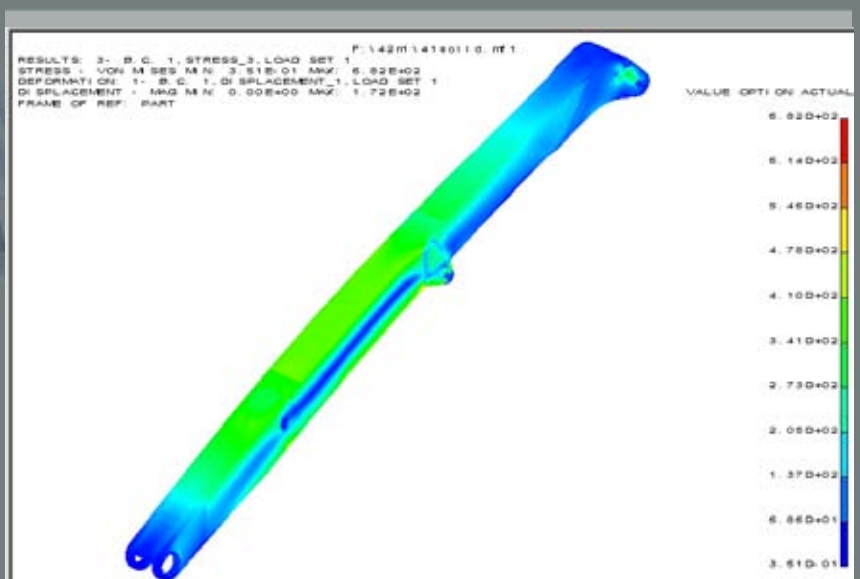
All steel plates and all welding seams have undergone 100% disfigurement detection. Prudent technology, Outstanding durability.

## Boom speed regulation

The variable-speed adjustment, the pressure compensation and the load-sensitive proportion control system make the booms move freely at different speed and with best maneuverability.

## New type cushioning technology

The new type patented cushioning technology for the distribution cylinder will ensure the boom to get a lower side impact.



Boom structure optimum



# Excellent Smart Control

For the "nervous system" of the concrete pump, we pay great attention to each "nerve endings". It applies an electric system of high automation with more operator-oriented design.

## Smart Control Technology & Smart Diagnosis

It applies a self-adaptation of the pumpage and a stable control technology with perfect self-protection on a real-time monitor with system parameters, automatic analysis and processing system data.

## User friendly Operating Interface

Operator-oriented operating interface with high precision and clearance can access the information you want quickly.

## Safety Control Technology

Safety control technology prevents false operation on outriggers and boom effectively, which makes the system safer and more reliable.

## Feedback Remote Control

It applies a data feedback two-way communication technology remote control, which can monitor the operation system parameters in real-time and ensures the safety of operators as well as a reliable performance of the equipment.

## Equipment Management Database

Equipment working records, maintenance reminders and a repairing guidance are more convenient for the management, maintenance and repairing of the equipments.

## GPS Remote Locating Management

Precise locating of the vehicle, entire data monitoring and management can enable you to master the equipment working conditions and status indoor.



Smart control system



Pump truck remote online monitor



Data feedback two-way communication control







# Extra value accessories enhance profitability.

Bearing the operation costs in our mind and thinking from the end-user's point of view, we spare no effort to reap "profits" for our customers.

## Highly efficient lubrication and low cost

The lubrication system has adopted compulsory filtering. The pre-pressurized dual-pump energy saving & automatic centralized lubrication oil supply system offers efficient lubricating oil and good lubricating effect. Time oil consumption is 50% lower than the ordinary continuous lubrication system.

## Long service life of components

The moisture-absorbing & dirt-absorbing filter valve is configured on the oil circuit so that the hydraulic oil and hydraulic elements' service life is prolonged.

## Extra long life of the wear parts

The spectacle plates and the cutting rings are made of a high-strength hard alloy. The service life of the spectacle plate is as high as 130,000 m<sup>3</sup>, thus reducing the operation costs.



Spectacle plate and cutting ring



Easily demountable hopper outlet



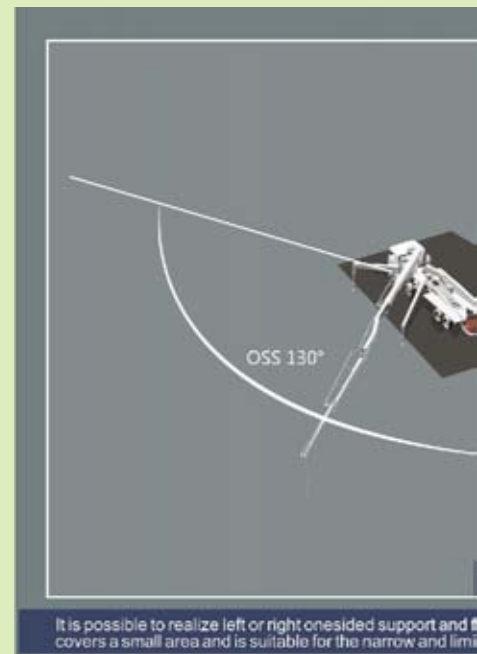
Wear-resisting delivery pipe



Energy saving lubricating pump



German self-cleaning system





## Onesided support

front V type special support, it  
ted construction jobsite.





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◀ Night work of ZOOMLION concrete pump truck in Shanghai Hongmei Trestle Bridge



▲ ZOOMLION concrete pump truck for United Arab Emirates construction



◀ Electric power station construction in Penglai, Shandong



▼ On May 26, 2007, ZOOMLION new-generation concrete pump truck in Qin Shan Nuclear Power Station.

▶ On July 13, 2005, ZOOMLION was brilliant in Qinhuangdao Seaport construction

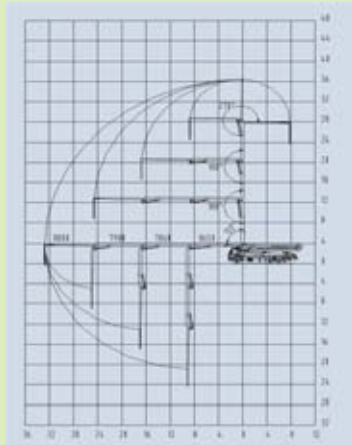


▼ Civil engineering project in Shen Yang

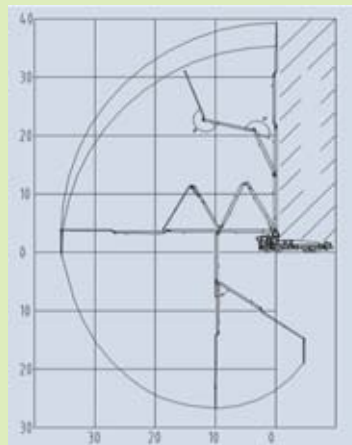




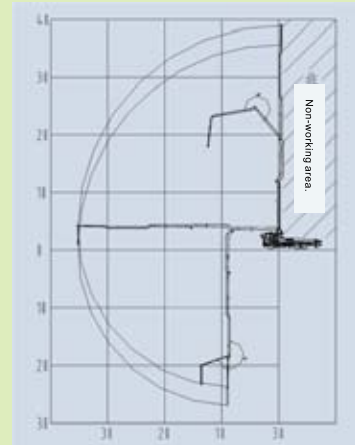
# Pump vehicle working scope



37m pump vehicle



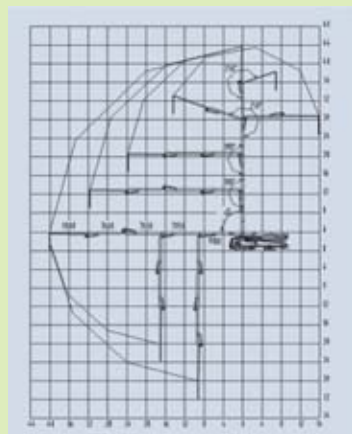
40m pump vehicle (Z-type arm)



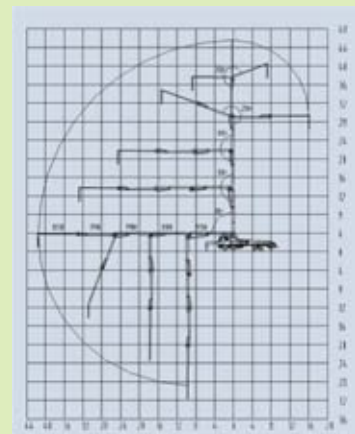
40m pump vehicle



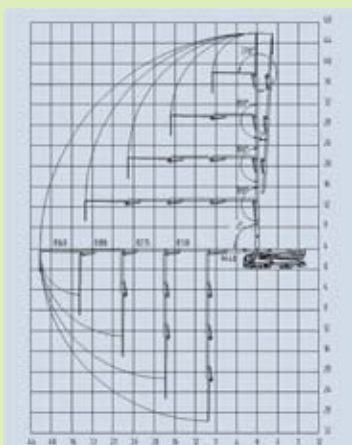
42m pump vehicle



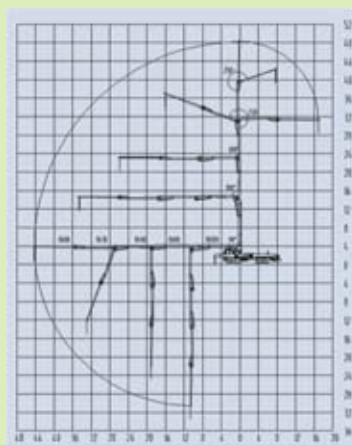
44m pump vehicle



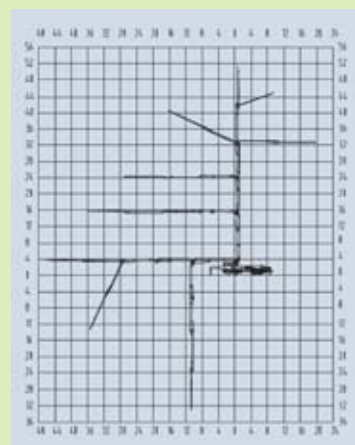
46m pump vehicle



47m pump vehicle



49m pump vehicle



52m pump vehicle



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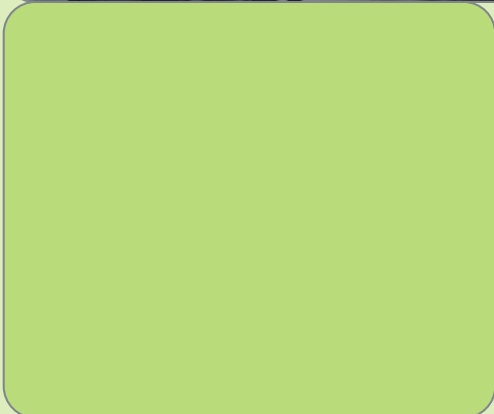


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▲ On August 8, 2006, ZOOMLION truck pump in China Dedicated Passenger Line project—TaiYuan to Yin Chuan Line







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