

# ZOOMLION TRUCK PUMPS



**ZOOMLION**

# TRUCK MOUNTED CONCRETE PUMPS

## History

ZOOMLION Group based in Changsha China, has more than 50 years of history of innovation. One of the major milestone in the history of the group is the foundation of the CICM, lately ZOOMLION, the **Changsha Institute of Construction Machinery**. The institute did concentrate all its activity in research and development of technologies applied to construction and in particular to concrete transportation and pumping. Today, ZOOMLION means great product portfolio, innovative solutions, best in class reliability and technology on top of an extended sales network and aftersales support.

<b>1956</b> Foundation of CICM in Beijing, China	<b>1969</b> CICM in Changde, China	<b>1978</b> CICM in Changsha, China	<b>1992</b> Establishment of ZOOMLION in Changsha
<b>1997</b> Establishment of ZOOMLION Lifting Machinery Co. Ltd. in China	<b>2004</b> Started exploring the international market	<b>2008</b> Acquisition of CIFA in Italy	<b>2009</b> Changde factory put into production
<b>2011</b> Purchase of the JOST Flat-top Technology in Germany	<b>2013</b> Set up a joint-venture and started production in India	<b>2014</b> Acquisition of RAXTAR in Netherland	<b>2018</b> Acquisition of WILBERT in Germany
<b>2018</b> Establishment of Zoomlion CIFA Europe	<b>2019</b> Changde Intelligent Factory Phase 1 put into operation	<b>2020</b> Jiangyin factory started production	<b>2021</b> Solferino (MN) plant inaugurated in Italy. Changde Intelligent Factory Phase 2 completed

**9+** Countries R&D Center overseas Bases

**10+** Countries Service platform

**10+** Countries Subsidiaries

**200+** Dealers

- Construction Machinery
- Agriculture Industry
- Financial Service
- ZValley

**Zoomlion Vision**

**To be a World-class Enterprise in Equipment Manufacturing**

- Scientific & Technological Industrialization
- Development Globalization
- Industry Technologization

# CONCRETE PUMP RANGE

The range of truck-mounted concrete pumps developed for the European Market is only a selection of the technology and the product portfolio of the group. The best combination of features and specifications to work out all task at the job site.

**Placing Boom**

The right design for each application to maximize the net reach of the boom.

**Stabilization**

Work made easy and flexible keeping always high performance.

**Pumping Unit**

Simple, reliable and powerfull, in one word: Smart.

**Control Unit**

Intuitive operations but with total and detailed control of the pumping unit and boom.



ZL56

ZL49

ZL43

ZL40

ZL36

# PLACING BOOM



Great robustness

## Made to last

The strengthens and reliability job after job. The Boom of ZOOMLION truck mounted pumps will be Your alley day after day. The design of each section has been optimized to be always effective thus avoid stress overload and extend the maintenance intervals.

## Job done easily

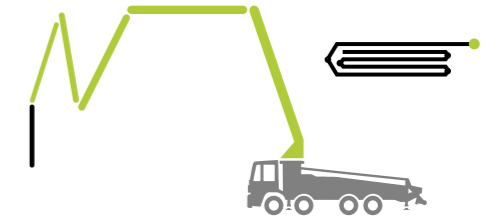
Boom placing made intuitive and easy to operate that's for what ZOOMLION truck mounted concrete pumps are made. The sections of the boom can be configured with precision allowing to reach every corner of the construction site even in narrow spaces, cutting the working time. With boom from 36 up to 56 m there will always be the right model to be chosen with always the greatest pumping capacity, precision and speed of execution needed.



### Z Type

Quick opening operations for concrete pouring near and far from the truck pump.

Available for: **ZL36**



### RZ Type

Ideal for 5 and 6 sections boom. It provides maximum flexibility by combining R+Z solutions.

Available for: **ZL40 - ZL43 - ZL49 - ZL56**



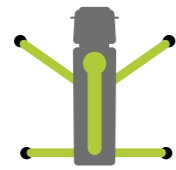
Direct Boom control emergency panel

## Folding system

The structural strength and stiffness of the sections ensure limited oscillations even on longer booms. The working speed, guarantees the complete extension of the boom and its perfect positioning within few minutes.

# STABILIZATION

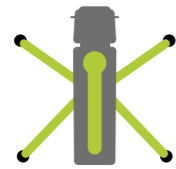
The right combination to have the best stabilization and the lowest footprint. Operation always grant with no limitations. The opening of the outriggers can be adapted to the working area easily with the integrated controls. Furthermore, the system does recognize the configuration of the outriggers opening and manage the rotation of the boom in order to assure the maximum safe condition.



**Front:** Single telescopic X style

**Rear:** Single horizontal

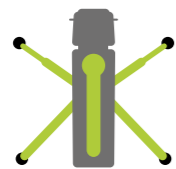
Available for: **ZL36**



**Front:** Single telescopic X style

**Rear:** Swing-out

Available for: **ZL40**



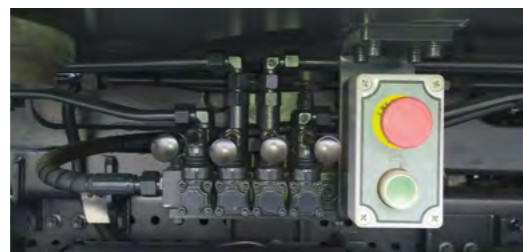
**Front:** Double telescopic X style

**Rear:** Swing-out

Available for: **ZL43 - ZL49 - ZL56**

## Controls

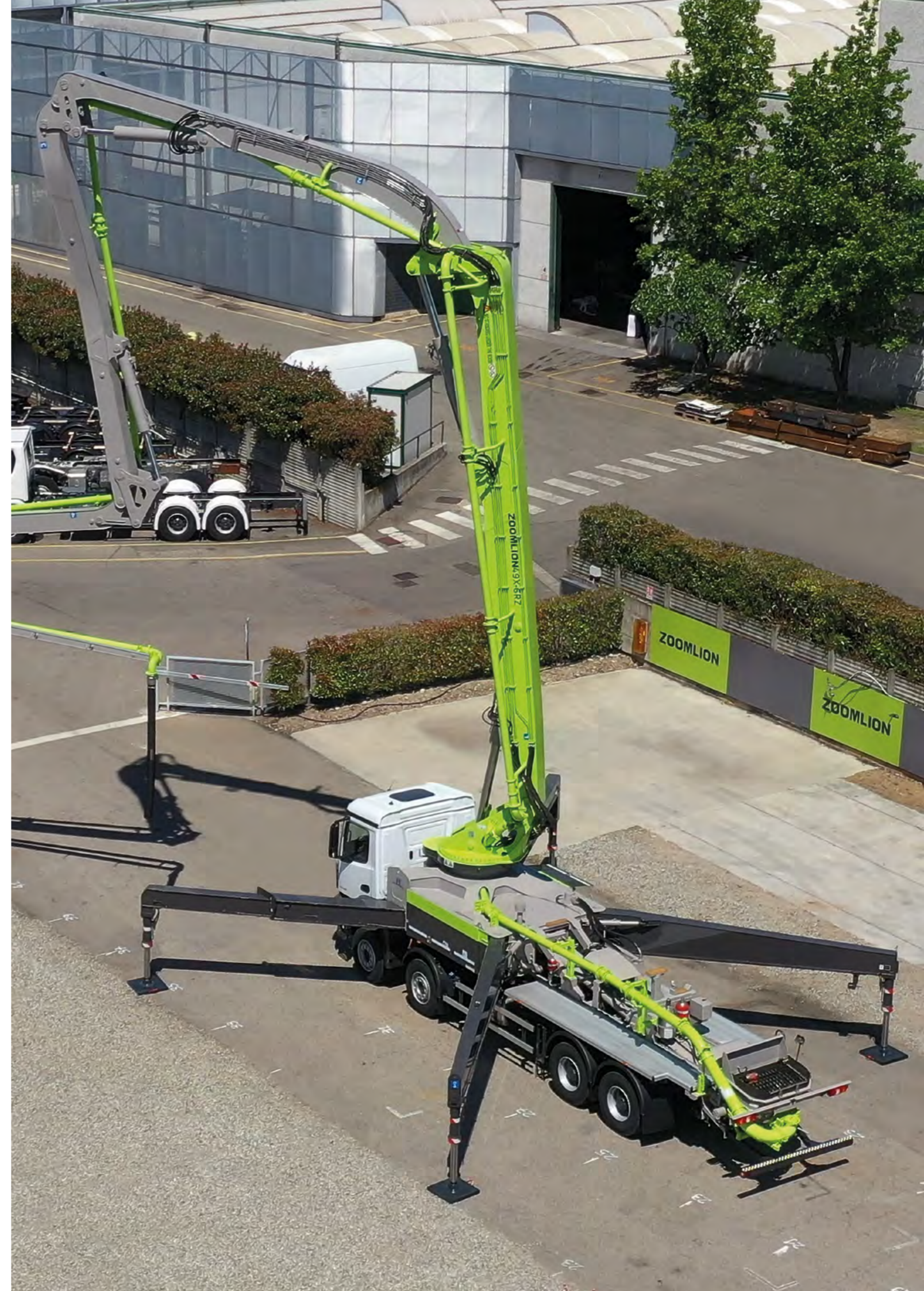
Zoomlion stability control system will always let You work in maximum safety. Once the outriggers are placed in the desired configuration, simple select it with the dialer and confirm it to unlock the boom movement. In this way the system will admit to move the boom accordingly to the outriggers configuration.



Outriggers activation control panel



Stabilization configuration selector



# PUMPING UNIT

Get the maximum performance and control. ZOOMLION pumping units work with all kind of concrete regardless the size and type of aggregate making it possible to operate always with the maximum flow rate and smoothly in all working conditions. Four different pumping units all with electronic control and each one created to match perfectly the size of the boom, paring the great capacity and the number of cycles per minute. Two different technologies: Open Loop pump for less power absorption and simplicity of control; Closed Loop for increased working capacity with 56m Boom. Both solutions foresee effortless maintenance and are completely removable.

**ZL36**  
PU1207 (120 m³/h)  
Open Loop

**ZL40**  
PU1607 (160 m³/h)  
Open Loop

**ZL43**  
PU1708 (170 m³/h)  
Open Loop

**ZL49**  
PU1808 (180 m³/h)  
Open Loop

**ZL56**  
PU1808 (180 m³/h)  
Closed Loop



Zoomlion comprehensive control system



Intuitive control panels



Remote control

## Long life wearing parts

- Using anti-wearing material at the wearing position of bending pipe, the max thickness is up to 12 mm, pipe life improved by more than 20%, and cost reduced by more than 30%.
- Adopting braze welding for wearing ring, combination rate of alloy and matrix is improved from 60% to 90%, anti-impact and anti-break ability greatly strengthened, the work life improved by more than 30%, and cost reduced by more than 10%.
- Turret with piping externally routed to perform maintenance easily.



Turret with externally routed piping



Double layer pipes



Strengthened S valve  
Maximum efficiency in all working conditions



Wear Ring and Wear Plate in special material to assure Long-Life

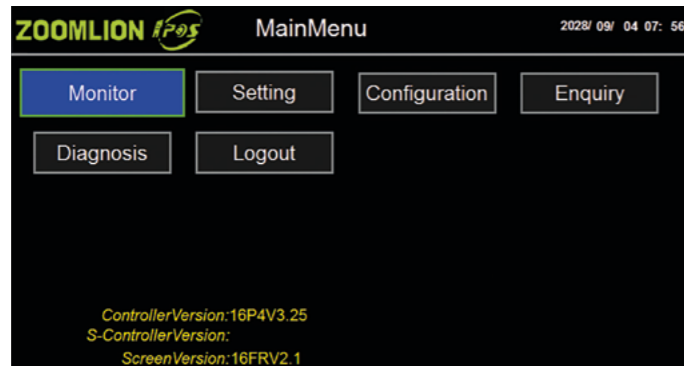


# CONTROL SYSTEM

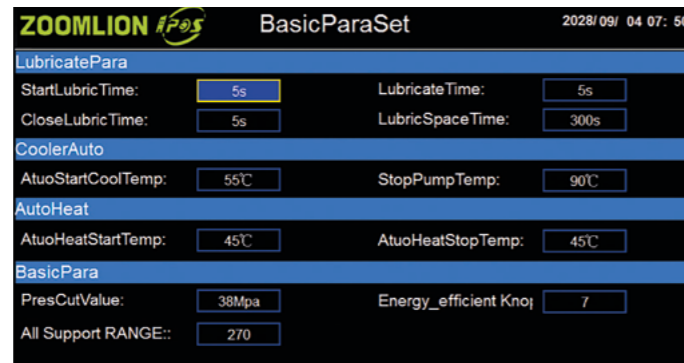
Use Technologies to make life easier and simple.  
A full set of controls all gathered in the on board computer to have all parameters, diagnostic and counters always available, always visible no matter the working environment or light.

## MAIN DASHBOARD

- Main parameters monitoring
- Pumping unit check
- Main speed and pressures check
- Error codes warning



Parameter checking and counters



## SOFTWARE NAVIGATION

- Direct access to all sub menu
- Plenty control of all parameters and messages

Integrated Diagnostic system





Model		ZL36	ZL40	ZL43	ZL49	ZL56
Folding Model		5Z	5RZ	5RZ	6RZ	6RZ
Maximum theoretical output	m <sup>3</sup> /h	120	160	170	180	180
Maximum pressure on concrete	bar	70	70	88	83	83
Concrete cylinders (diam. x stroke)	mm	230x2100	230x2100	260x2100	260x2100	260x2100
Concrete hopper capacity	l	550	550	550	600	600
Hydraulic circuit		Open	Open	Open	Open	Closed
Pipeline diameter	mm	125	125	125	125	125
Maximum vertical reach	m	35.5	39.5	42.3	48.6	56
Maximum horizontal distance (from center of slewing axis)	m	31.1	35.2	37.65	43.6	51
Minimum unfolding height	m	8.5	8.1	9.8	12.9	15.8
Number of sections	No.	5	5	5	6	6
Rotating angle	°	+/- 270	+/- 270	+/- 270	+/- 270	+/- 270
End hose length	m	3	3	3	3	3

Technical data and characteristics subject to modifications without notice



**VISION CREATES FUTURE**

**ZOOMLION**

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