



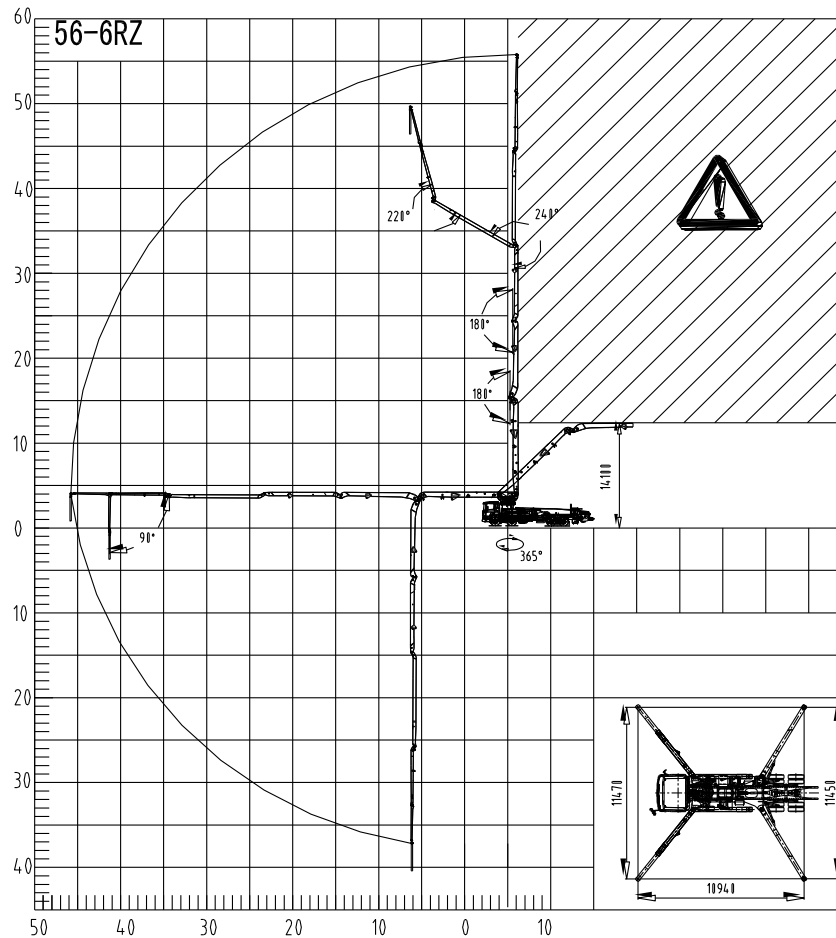
1. 主要技术参数 Main technology parameter

型号 Model		ZLJ5433THB 56-6RZ
泵送系统 Pumping system	最大理论输送量 Max. Theor. output	m ³ /h 180
	混凝土最大出口压力 Max. Theor. concrete output Pressure	MPa 9
	额定工作压力 Rated working pressure	MPa 35
	泵送频率 Pumping frequency	min ⁻¹ 27
	料斗容积 Hopper capacity	L 600
	上料高度 Filling height	mm 1540
	液压系统型式 Hydraulic system type	闭式 Closed loop
	分配阀形式 Distribution valve	S 管阀 S valve
	油缸缸径×行程 Oil cylinder dia. ×stroke	mm φ130×2100
	混凝土缸径×行程 Concrete cylinder dia. ×stroke	mm φ260×2100
	液压油冷却 Hydraulic oil cooling	风冷 Air cooling
	推荐塌落度 Recommended concrete slump	cm 12~23
	最大骨料尺寸 Max. aggregate dimension	mm 40
	臂架 Placing boom	结构形式 Structure type
最大布料高度 Placing depth		m 55.8
最大布料半径 Horizontal distance		m 50.8
最大布料深度 Placing depth		m 404
回转角度 Slewing angle		365 °
臂节数量 Boom number		6
臂节长度 The length of boom section		mm 11360/9020/8890/11060/6970/4500
展臂角度 Sections folding angle		90 °180 °180 °240 °220 °90 °
输送管直径 Pipe diameter		mm 125
末端软管长度 End hose length		mm 3000
臂架最小打开高度 Min. height of opening placing boom		mm 14100
支腿跨距 (前×后×纵向) Outriggers span (front×rear×side)		mm 11470×11450×10940
底盘及整车 Chassis and the whole machine		底盘型号 Chassis model
	轴距 Wheelbase	mm 1700+4600+1350
	发动机型号 Engine type	OM501LA
	发动机最大功率 Engine power	kW/(r/min) 300/1800
	发动机最大扭矩 Engine moment	N.m/(r/min) 2000/1080
	发动机排量 Maximum displacement	cc 11946
	燃油箱容积 Oil tank cubage	L 400
	尾气排放标准 Tail gas exhaust standard	欧III Euro. III
	整车质量 Total weight	kg 42890
整车外形尺寸(长×宽×高) Overall dimensions	mm 13750×2500×4000	
其它 Others	润滑方式 Lubrication mode	节能式自动润滑 Automatic lubrication
	液压油箱容积 Oil tank volume	L 800
	控制方式 Control mode	手动+遥控 Manual+remote control
	水泵最大压力 Maximum water pressure	MPa 7
	水箱容量 Water tank volume	L 400



2. 工作范围图

Working scope fig.



3. 性能特点 Capability feature

3.1 底盘 Chassis

采用德国奔驰底盘。

This truck-mounted concrete pump adopts BENZ chassis.

3.2 臂架系统 Boom system

臂架系统由臂架、转台、回转机构、底架及支腿组成。

Boom, swivel head, swivel framework, base structure and outriggers consist boom system.

3.2.1 布料范围大: 臂架为 6 节 RZ 型臂架, 最大布料半径 50.8 米, 最大布料高度可达 55.8 米, 具有臂架应急功能。

Wide placing range: the 56-6RZ placing boom is manufactured by itself. Its horizontal radius is 50.8m, and the maximum vertical reach is 55.8m. The machine has lash-up function of boom.

3.2.2 精准设计: 采用 PRO/E、ANSYS、ADMAS、IDEAS 等先进软件对臂架、底架、支腿等进行运动学、动力学和装配有限元结构分析, 使应力分布趋于最合理, 根据计算结果



作全面调整，确保臂架系统结构合理，性能优良。

Extractive design: We introduces into PRO/E、ANSYS、ADMAS、IDEAS software, and so on. Through analysis for the boom、base structure and outriggers, stress is very reasonable. According to the calculation, engineers rectify the design, so this will make the boom system more reasonable and unparalleled.

3. 2. 3 自动收放软管的支架形式和臂架结构，大大降低机手操作泵车展收臂架过程中的劳动强度；并且将机手在低能见度和复杂施工环境的情况下布料时，可能挂损末端臂架的几率降低至最低。

Hose support and placing boom structure debases labor strength when operator extends and folds the placing boom; it also debases the damage odds to the lowest when the operator operates it in lower visibility and complicated construction environment.

3. 2. 4 重量轻：采用高强度合金钢和最新结构设计使布料臂的结构重量较以前的更轻，而外形更美观。

Light weight: strong rigidity boom frame is made of high strength alloy steel, which designed with the newest structure. Thus the placing boom becomes less weight with better mechanics performance and much stronger rigidity.

3. 2. 5 平稳性好：采用具有世界先进技术的回转减速机和回转支承。以及电液比例换向控制阀可使布料臂的回转，伸展动作更加平稳。

More steady: equipped with slewing reducer、slewing bearing which with advanced technique in world and electro-hydraulic proportional direction valve, etc. All of these ensure the boom's motion of slewing and extension more steady.

3. 2. 6 可靠性高：电液比例阀和带二次溢流的平衡阀均采用德国 HAWE 原装进口件，有效地解决了臂架下放时可能产生的超速运动和由于油缸压力受外力影响突然升高而造成臂架损坏，提高了泵车的可靠性。

High reliability: electro-hydraulic proportional valves and compensation valve with secondary pressure relief valves are all original ones imported from Germany HAWE. This prevents boom going at excessive speed while it being folded back. And this also prevents boom being damaged in case of the increase of pressure in boom cylinders caused by outside force. So, the reliability of the whole machine is improved effectively.

3. 3 泵送系统 Pumping system

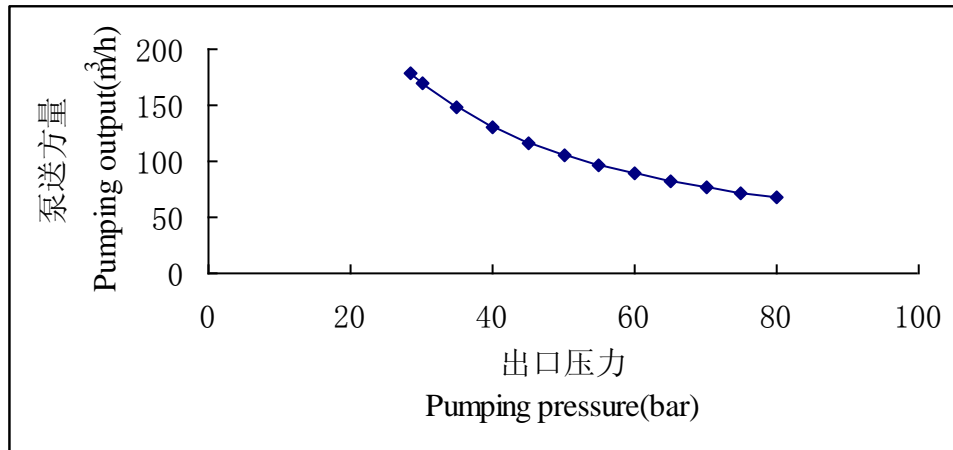
3. 3. 1 冲击小、元件寿命更长：采用“最佳时差逻辑换向”专利技术，使主油缸换向和 S 阀换向配合时间处于最佳状态，换向冲击小。

Less impulsion: with the utilization of best time difference logic switch technology, the match time of main hydraulic cylinders' switching-over and S tube's swing is in the best state. And the impulsion of hydraulic system while changing direction is much less.



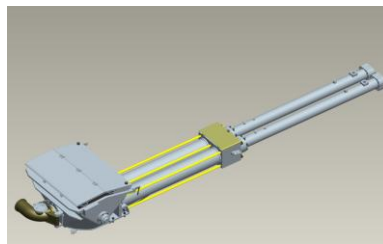
- 3.3.2 技术性能高: 泵送系统采用大排量泵供油, 不但提高了设备的可靠性, 而且性能更佳: 出口最大理论方量可达 $180\text{m}^3/\text{h}$, 最大理论压力可达 9MPa 。

High technology performance: large displacement hydraulic pumps supply oil to the pumping hydraulic system. By using this system, not only the reliability of the machine is improved, the performance of the machine is much better. The maximum theoretic concrete output can reach 180m^3 per hour, and the maximum pressure can reach 9MPa .



- 3.3.3 吸料性好: 采用了大缸径、长冲程, 较小的倾角和最新结构的料斗及 S 管, 不但提高了功率利用率, 而且使其吸料性得到提高。

High efficient suction: big cylinder diameter, long stroke, small obliquity and the newest structure of the hopper and S tube, all of them improves the ability of concrete suction as well as the efficiency of power's utilization.



- 3.3.4 可靠性高: 液压元件及电气元件均采用国际名牌产品, 再加上优秀的系统设计, 使泵送系统可靠性高, 使用费用低。

High reliability: hydraulic components and electrical components are all from international famous companies. The outstanding design of the whole system ensures the high reliability and low cost.

3.4 电气系统 Electricity system

- 3.4.1 先进可靠的电气配置: 泵车充分利用了先进的计算机数字控制技术、智能传感技术和故障自检测技术, 配以精美的电控柜外型设计、精良的装配制造工艺和调试技术, 使泵车在底盘、臂架及泵送控制上达到了高度的智能化控制技术, 且运行安全、稳定可靠。

The advanced and reliable electricity equipment: Our truck-mounted concrete pump has the advanced digital technology control, the intelligent global detection and the self-check trouble system. The electric control box has the flexible outside, excellent manufactory crafts. This equipment runs the high-smart control system reliable, steadily and safely in chassis and pump control.

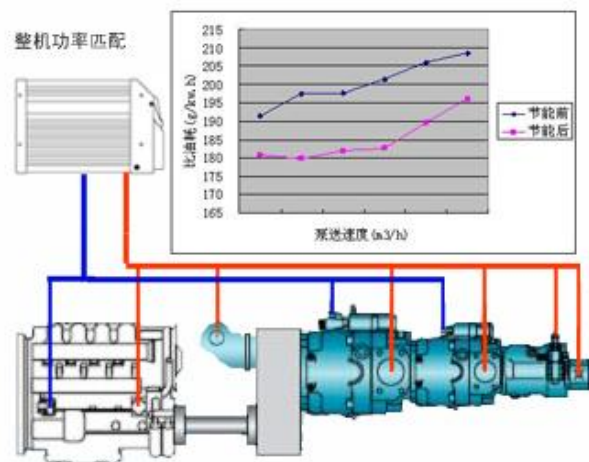
- 3.4.2 全功能遥控: 标配德国带反馈型无线遥控器, 使对布料臂、泵送系统以及底盘柴油机等控制更方便、可靠。

Full function remote control: original Germany remote control with feedback function is equipped with the machine, which can do it very conveniently and reliably to operate placing boom、pumping units system、the chassis diesel and etc.

3.5 使用成本低 Low cost

- 3.5.1 油耗低: 采用整机功率匹配控制技术, 使油耗得到了进一步的降低, 能耗降低约 30%, 比同行能耗低 10%。

Low oil cost: adopting the control technique that the whole machine power can be matched automatically, this make the oil consume lower and lower, consume is reduced about 30% and it is lower 10% than trade.



- 3.5.2 系统功率利用率高: 布料臂和泵送系统均采用了变量系统恒功率控制, 因此可在保证整机性能的情况下, 减少液压系统功率损失, 提高系统效率。

High power utilization: placing boom and pumping units system all apply constant power variable control, which will reduce the power loss and improve the system efficiency, with ensuring whole machine's performance.

- 3.5.3 易损件使用费用低 Parts which are very damageable cost lower

- 3.5.3.1 弯管采用精密铸造弯头, 确保壁厚均匀, 提高使用寿命。

Bend pipe is molten, which makes pipe's thickness even, so bend pipe's life is very longer.



3.5.3.2 直管采用特殊淬火处理，使直管的使用寿命大于 30000 方。

Straight pipe adopts special quench heat treatment which makes the pipe's life is longer than 30000m³.

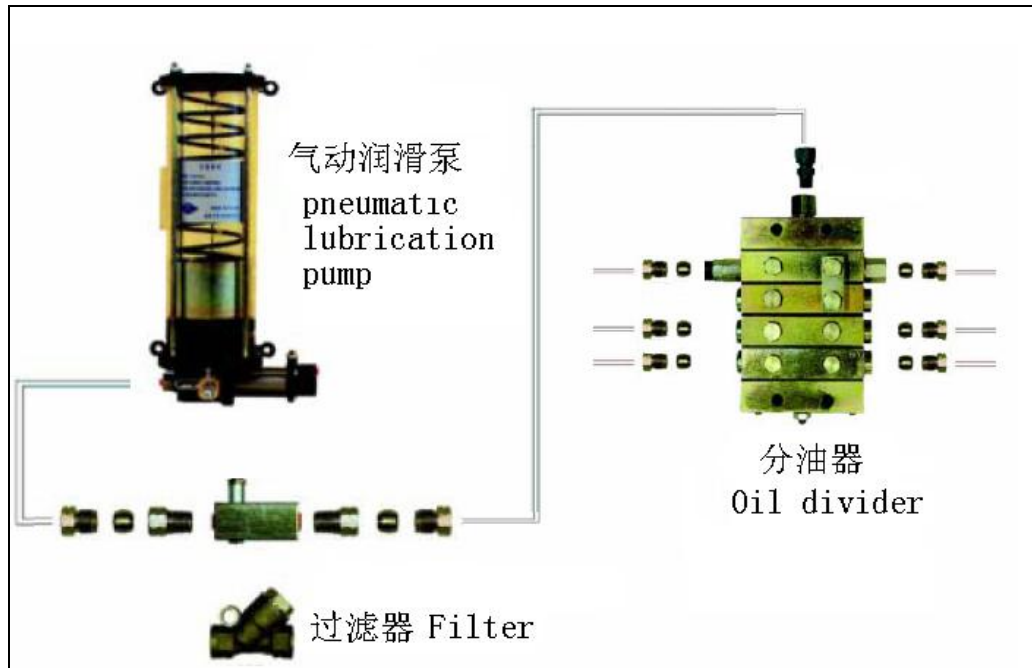
3.5.3.3 眼睛板与切割环采用耐磨硬质合金，并用特殊工艺，使眼睛板与切割环具备了卓越的寿命。

Glasses plate and cutting ring adopt alloy that is wearable and especial technology, so they have the longer life.



3.5.4 润滑使用成本低：采用行业内首创的气动润滑系统，该系统具有独立的稳定性，更简单，易操作，易维修，故障率低。

Low use cost: adopting pneumatic lubrication system, which is originate in the trade. This system has absolute stability and is operated and maintained. Its failure probability is very lower.



4. 制造能力 Manufacture ability

拥有超大生产厂房、高精尖加工设备和高素质、高技能的员工队伍；拥有卧式加工中心、数控双面镗床、数控落地镗铣床等高档加工设备；拥有先进的零部件预涂装流水线和整机涂装线；拥有颗粒度计数器对系统清洁度进行控制，保证液压系统清洁度要求；拥有数控折弯机、水下等离子切割机、自动焊接机床、三坐标划线机、超声波探伤仪等先进设备，保证结构件制造质量。

We have very big workshop、high exact machining machine and high making employee; We have horizontal machining center、numerical control double-face boring lathe、numerical control boring-milling machine ,and so on; We have advanced paint line used for painting parts and whole machine; We have instrument which can calculate granule and control cleanness degree, so hydraulic system cleanness degree can be assured; We have numerical control flex machine、plasma cutting machine working under the water、automation welding machine、three coordinate lineation machine 、ultrasonic detector, and so on ,so structure parts quality can be assured.