



TRUCK-MOUNTED CONCRETE PUMP

SHOCK





RELIABLE CONDENSATION

Integrated joint R & D and design
Advanced process manufacturing
Advanced test and detection system
Gold supply chain, global sourcing



INTELLIGENT CONDENSATION

CAN Bus technology
Interactive interface
Intelligent hydraulic oil temperature system
Intelligent data collection management system
Boom flexible damping system
Pendulum cylinder self-pressing system



EFFICIENT CONDENSATION

High inhalation efficiency
Hydraulic reversing system
Automatic low pressure concrete withdrawal Technology
Flexible design of RZ and R boom
High and low voltage switching technology



ECONOMIC CONDENSATION

Adaptive closed loop control of engine throttle
High reliability system matching of wearing parts
Maintenance cost reduction
Energy saving and comprehensive care of lubrication system



PRACTICAL CONDENSATION

Break through the limit of region
Bearing all kinds of construction strength
High yield





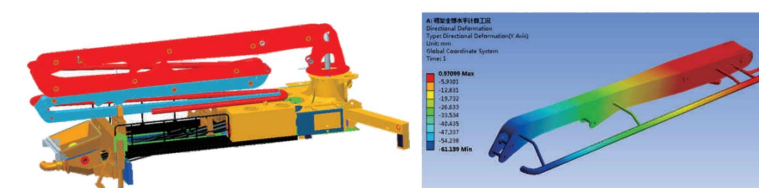
INTEGRATED JOINT RESEARCH AND DEVELOPMENT DESIGN

Integrating the R & D team of topcoat and chassis, the technology is built based on decades of Chinese and German research institutes and customer terminal requirements.



ADVANCED PROCESS MANUFACTURING

Three dimensional modular design, finite element calculation and analysis, dynamic analysis and test, using Sweden weldox900e high strength plate.



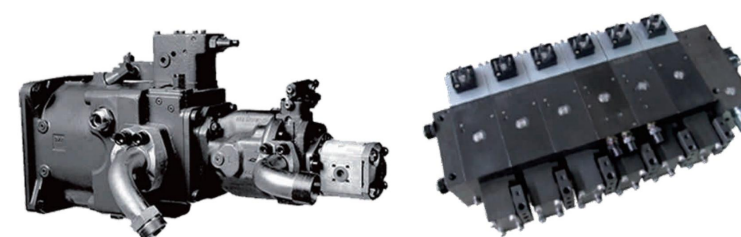
FIRST-CLASS TEST AND INSPECTION SYSTEM

Fatigue test of boom and structural parts NDT for non-destructive weld. High precision main suction and return oil filtration, customized high-level hydraulic oil, hydraulic system cleanliness to nas7 level.



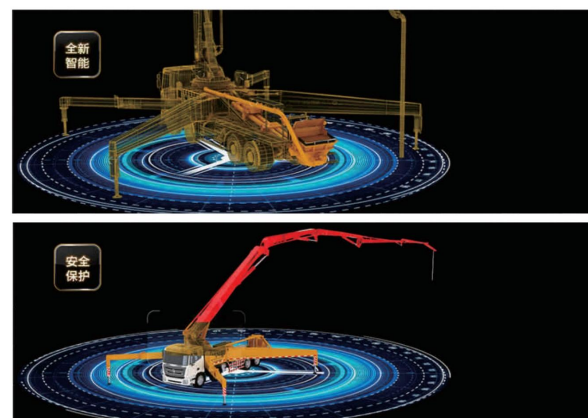
GOLD SUPPLY CHAIN, GLOBAL PROCUREMENT

Germany Rexroth main oil pump group, Germany haWe multi-channel valve, the United States wiggs valve, Harvey balance valve, Germany Spock transfer box and other top imported raw parts.



CAN BUS TECHNOLOGY

Advanced intelligent operating system, integrated classical pumping algorithm and function library, strong signal transmission and strong anti-interference ability. The fault points are reduced by 40% and redundant external control components are removed.



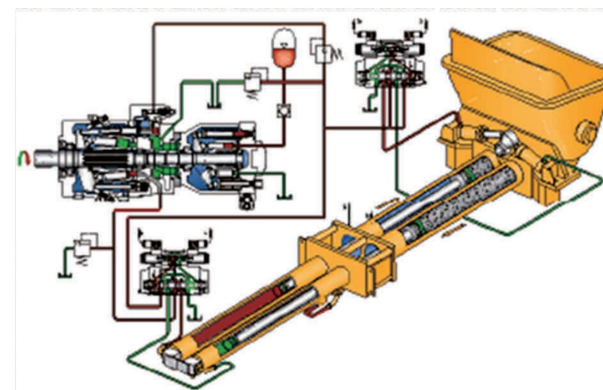
INTERACTIVE INTERFACE

Mechanical instrument and digital instrument coexist, automatically help to detect the fault point, convenient maintenance, simple operation, stable operation.



INTELLIGENT HYDRAULIC OIL TEMPERATURE SYSTEM

Forced cooling and flushing system, dynamic heat balance technology, intelligent control and system over temperature protection.



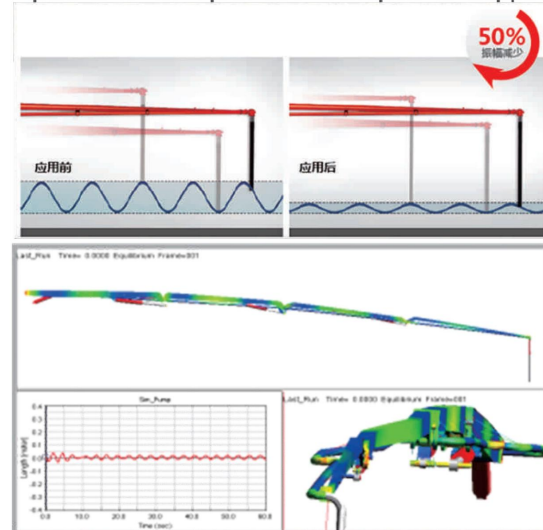
INTELLIGENT DATA COLLECTION MANAGEMENT SYSTEM

Intelligent collection of fuel consumption, pumping volume, time, fault code, mobile terminal intelligent real-time warning, to assist customers in reasonable management of equipment.



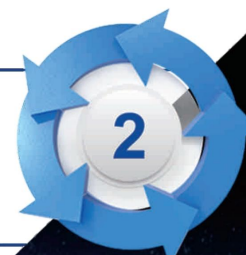
BOOM FLEXIBLE DAMPING SYSTEM

Combined with various structural damping technologies of Sany, Zoomlion and Putzmeister, the advanced damping control such as reverse displacement, disturbance natural frequency, frequency adaptive, slope control, closed-loop data acquisition and displacement adaptive are applied.



PENDULUM CYLINDER SELF-PRESSING SYSTEM

Japanese pilot unloading and charging device is adopted. Ensure that the accumulator pressure is always saturated, while accelerating the flushing heat dissipation.

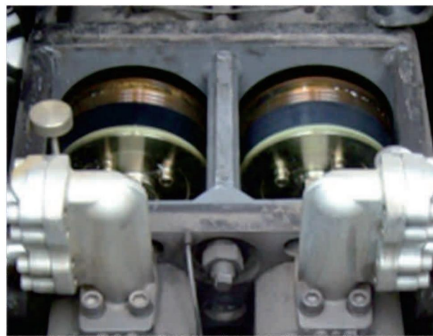


Intelligent



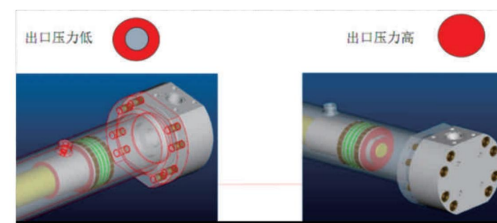
AUTOMATIC LOW PRESSURE RETRACTION TECHNOLOGY

Hydraulic limit and one key concrete withdrawal are adopted to make loading, unloading and maintenance more convenient. Save fuel consumption. The maintenance time of piston replacement can be reduced from 4 hours to 1 hour.



HIGH AND LOW VOLTAGE SWITCHING TECHNOLOGY

High and low voltage switching technology



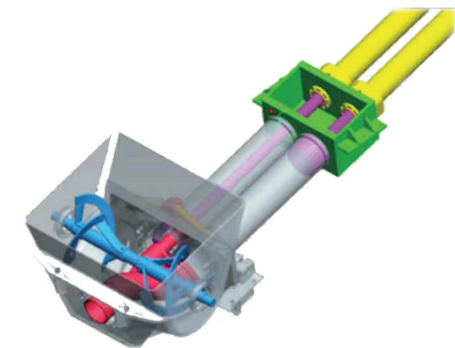
FLEXIBLE RZ AND R-ARM DESIGN

The effective utilization rate of boom is improved, the effective distribution height is increased by 15%, the distribution range is increased by 20%, and the construction of narrow and low sites can be easily realized.



HIGH INHALATION EFFICIENCY

Long stroke, low elevation pumping system, hopper optimization design, improve the suction efficiency, suction up to 90%, the overall pumping efficiency increased by 20%.



HYDRAULICALLY CONTROLLED REVERSING SYSTEM

Large displacement hydraulic control open system, advanced hydraulic control reversing technology, make-up and drain oil balance, strong driving force, less pressure loss, large flow, high reliability, transportation efficiency increased by 10%.



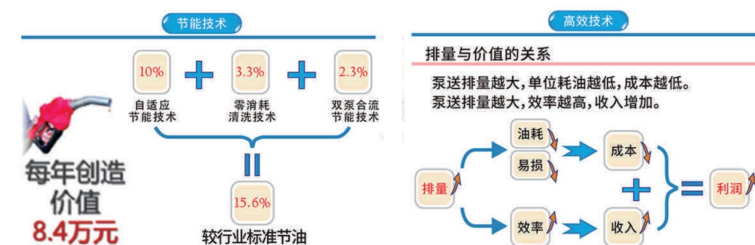
输送效率



Efficiency

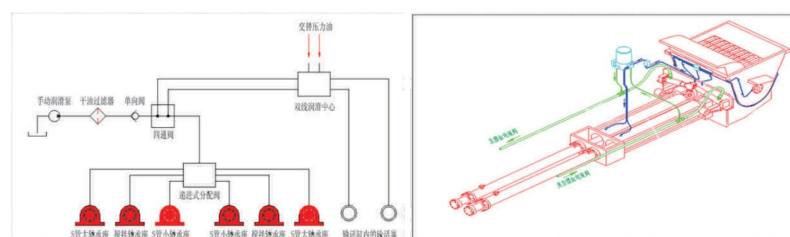
ENGINE THROTTLE ADAPTIVE CLOSED-LOOP CONTROL

The perfect match of advanced energy-saving technology and can bus control, automatic adjustment of engine speed and power, to achieve 20% energy saving, fuel saving technology is obvious. Pumping efficiency increased by 25%.



LUBRICATION SYSTEM ENERGY SAVING COMPREHENSIVE CARE

Improve the lubrication structure, multi-point centralized oil supply lubrication, prolong the service life, reliable and economic.



CONSUMABLE PARTS WITH HIGH RELIABILITY SYSTEM MATCHING

Comprehensive integration of Chinese and German technology, greatly improved performance, to create greater value for you.

Conveying pipe: straight pipe, hinged elbow, large elbow and small elbow are all made of high wear-resistant materials. The inner layer is extremely wear-resistant, with a service life of 60000 cubic meters. All vulnerable parts and consumables are 100% common in the industry.

Discharge port and transition sleeve; Special steel is used, the wear resistance is 10 times of that of ordinary steel, and the service life is up to 60000-80000 square meters

Concrete piston: polyurethane or rubber concrete piston extreme pressure, heat resistance, wear resistance, adapt to all kinds of bad conditions, service life up to 20000-30000 cubic meters.

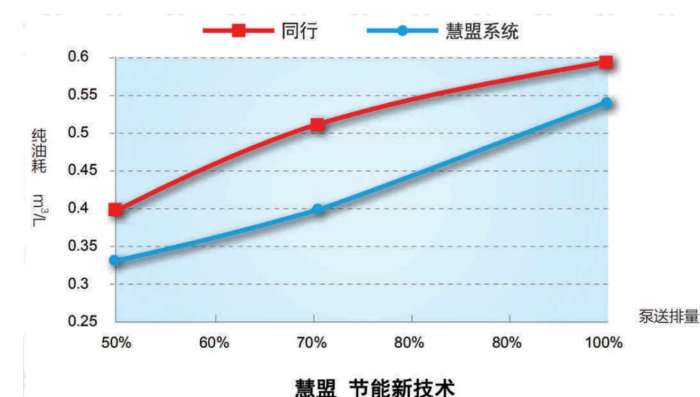
Concrete piston: polyurethane or rubber concrete piston extreme pressure, heat resistance, wear resistance, adapt to all kinds of bad conditions, service life up to 20000-30000 cubic meters.

Spectacle plate and cutting ring: 8mm thick high wear-resistant alloy, the service life of spectacle plate can reach 40000-60000m³, and the service life of cutting ring can reach 20000-30000 m³.



REDUCED MAINTENANCE AND MAINTENANCE COSTS

Using dynamic heat balance technology to optimize the design, save the storage of hydraulic oil, save 15% of hydraulic oil in a single maintenance, save more than 3000 yuan. Customized hydraulic oil, high viscosity, anti-oxidation, anti foaming, hydrophilic, low freezing point, 2500 working hours oil change cycle.



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Economy



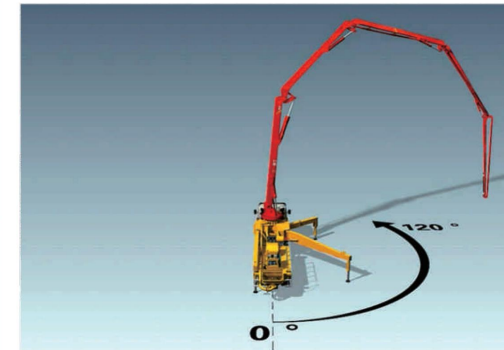
CARRYING EXTREME CONSTRUCTION STRENGTH

§ 260 large bore high suction efficiency pumping system, suitable for all kinds of grade concrete, continuous pumping construction, still fulfill the mission.



BREAK THROUGH LIMITS OF THE REGION

No matter how complicated the working conditions are, the long boom pump trucks of 3, 4 and 5 bridges are flexible and multi-functional.



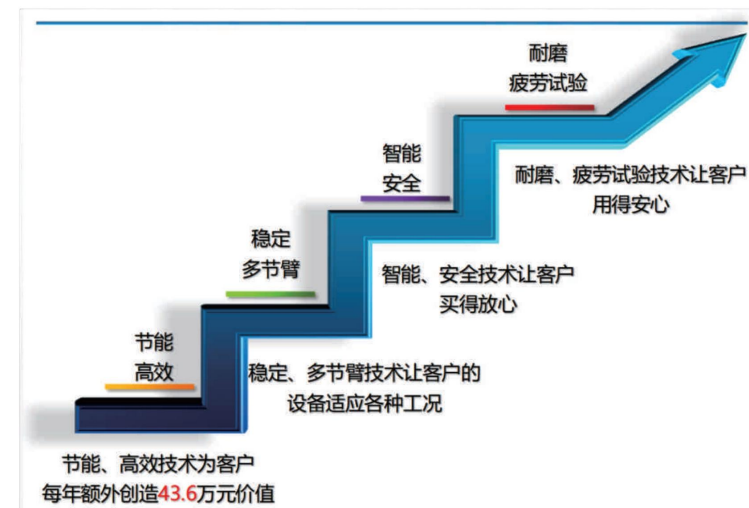
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Practical



HIGH YIELD

Good return on investment, the first choice of construction project. The market prospect is broad, and the annual profit is about 1.6 million yuan / year.





机械连APP

Intelligent Management System

- ▶ Safety Management
- ▶ Accessories Management
- ▶ Remote monitoring
- ▶ Contract management
- ▶ Site management
- ▶ Pumper management
- ▶ Fuel Management

Smart Service Protection

- ▶ Remote monitoring
- ▶ Remote upgrade
- ▶ Life prediction of key parts
- ▶ Active maintenance
- ▶ Fault diagnosis
- ▶ Automatic warning

Intelligent Construction

- ▶ Adaptive pumping
- ▶ Anti-clogging pipe
- ▶ Full power adaptive energy saving control
- ▶ Pump damping
- ▶ Constant temperature control of hydraulic system
- ▶ Fail-safe
- ▶ Automatic discharge

Intelligence Pump

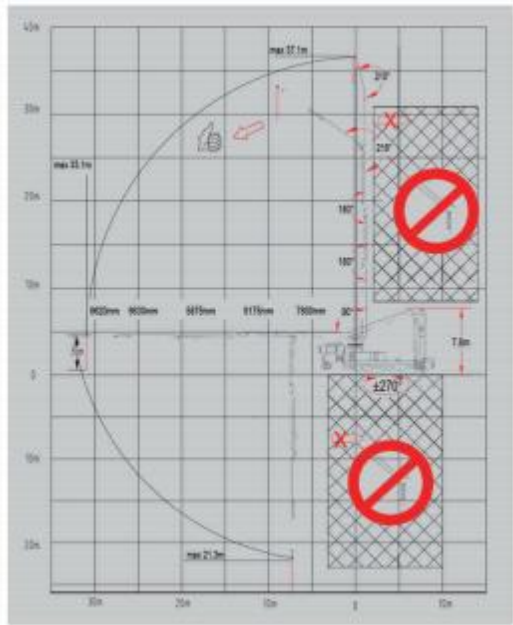
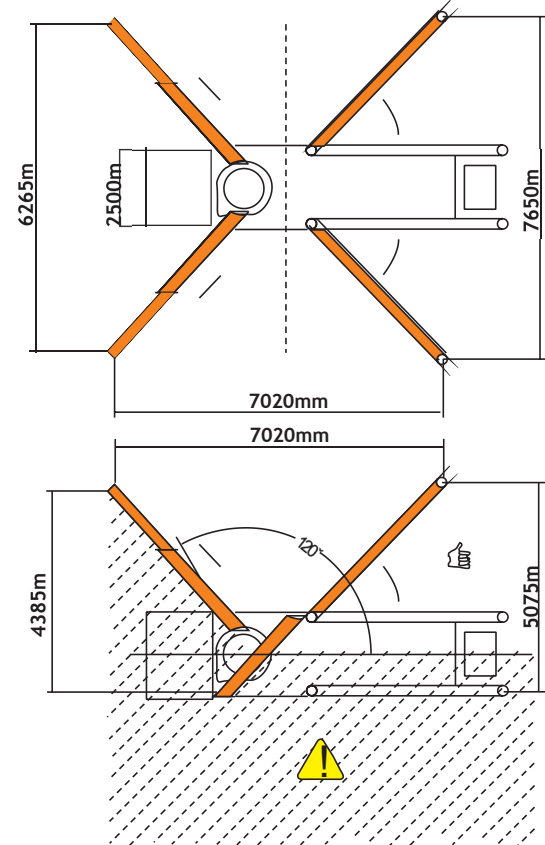
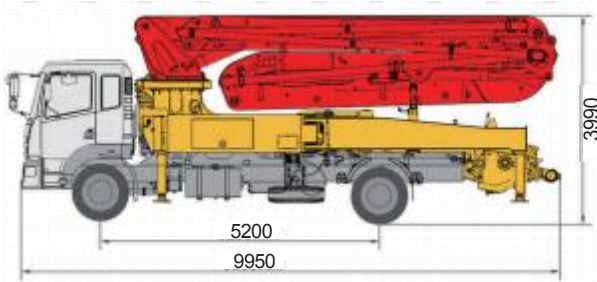
Intelligent Control

- ▶ Voice-assisted control system
- ▶ One Button to close
- ▶ Unilateral support
- ▶ Boom auto-following
- ▶ Automatic end cloth
- ▶ Safe from tipping
- ▶ Automatic obstacle avoidance
- ▶ Self-learning from remote control operation

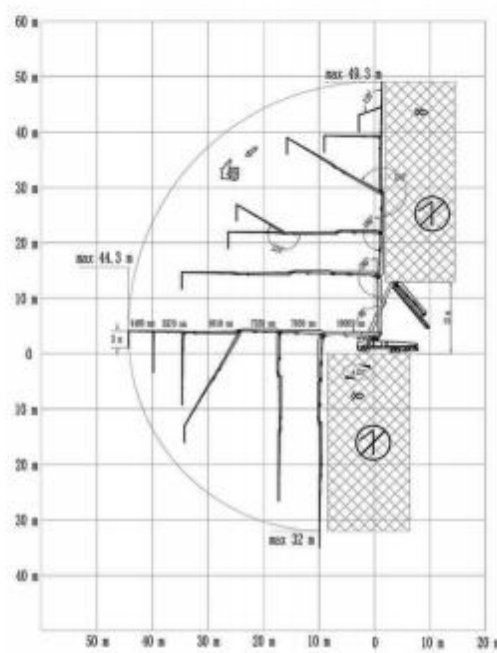
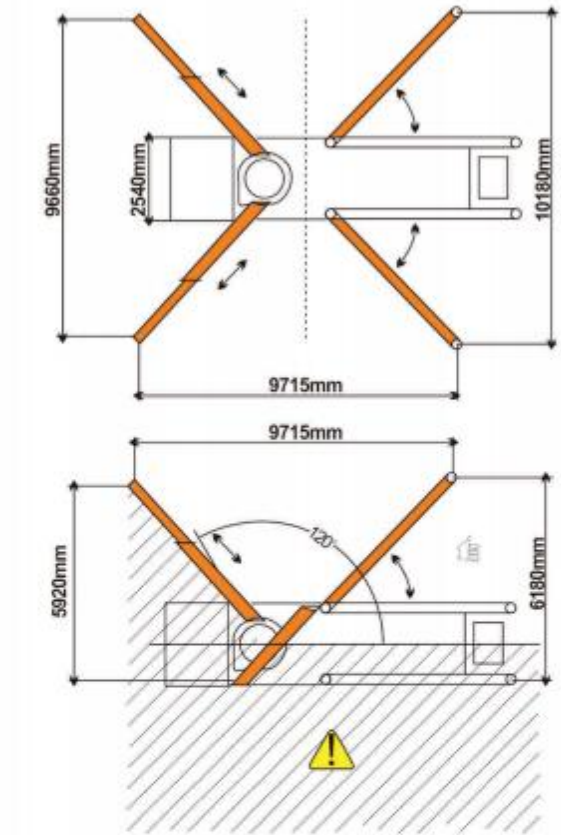
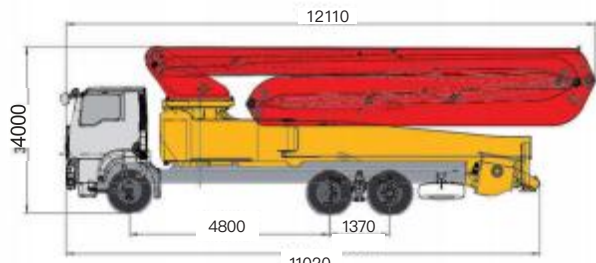


TECHNICAL PARAMETER

	Type		HMG5236THB-38
Vehicle	Full length		9980mm
	Total width		2500mm
	Total height		3990mm
	Self weight		23000kg
Boom & Outrigger	Boom vertical height		37.1m
	Boom horizontal length		33.1m
	Boom vertical depth		21.3m
	Minimum expansion height		7.8m
	First arm	Length	7800mm
		Corner	90°
	Second arm	Length	6175mm
		Corner	180°
	Third arm	Length	5875mm
		Corner	180°
	Fourth arm	Length	6630mm
		Corner	216°
	Fifth arm	Length	6620mm
		Corner	210°
	Sixth arm	Length	/
		Corner	/
Pumping system	Turntable rotation angle		±270°
	Front leg deployment width		6265mm
	Rear leg deployment width		7650mm
	Concrete displacement		100/60ml/h
	Pressure(High/Low)		13/8.3Mpa
	Theoretical pumping times		26Times/Minute
	Delivery cylinder inner diameter		260mm
	Delivery cylinder stroke		1400mm
	Hydraulic system		开式液控
	System oil pressure		32Mpa
	Tank volume		380L
	Water tank volume		400L
	Conveying pipe diameter		125mm
	End hose length		3m
	End hose diameter		125mm
Chassis	Chassis model		ZZ5231N521GE1
	Engine model		MC07.31-50
	Engine power		225KW
	Emission Standards		@VI
	Displacement		6.870L

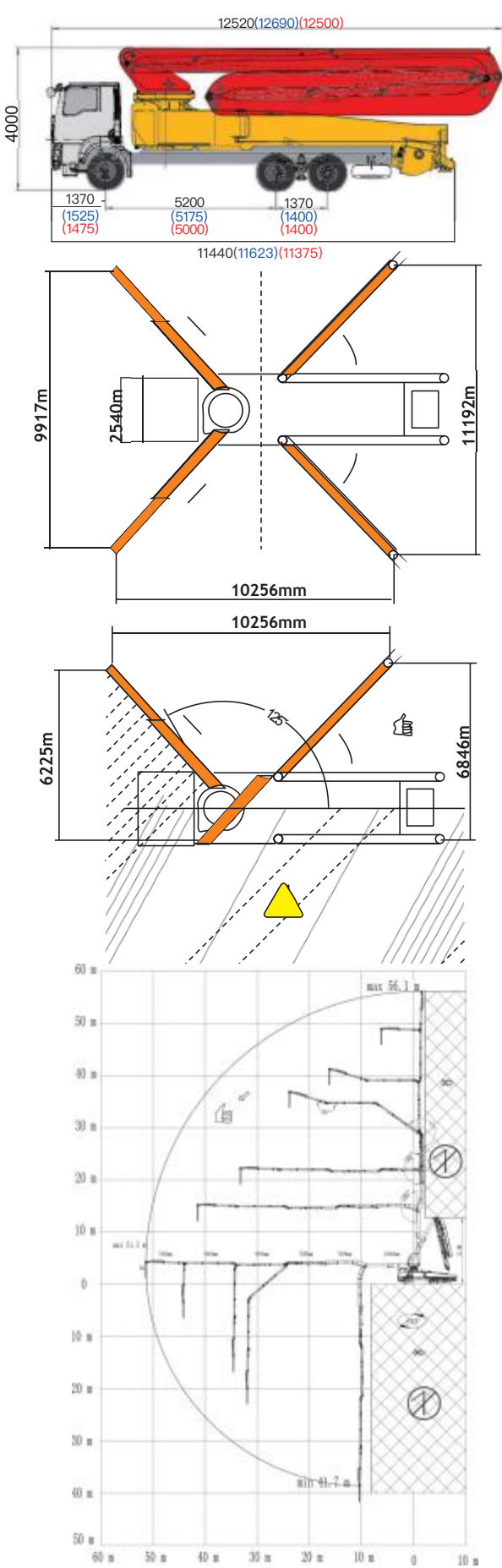


	Type		HMG5350THB-50
Vehicle	Full length		12110mm
	Total width		2540mm
	Total height		4000mm
	Self weight		35000kg
Boom & Outrigger	Boom vertical height		49.3m
	Boom horizontal length		44.3m
	Boom vertical depth		32m
	Minimum expansion height		13m
	First arm	Length	10065mm
		Corner	90°
	Second arm	Length	7850mm
		Corner	180°
	Third arm	Length	7550mm
		Corner	180°
	Fourth arm	Length	9810mm
		Corner	240°
	Fifth arm	Length	5570mm
		Corner	220°
	Sixth arm	Length	4460mm
		Corner	110°
Pumping system	Turntable rotation angle		±270°
	Front leg deployment width		9660mm
	Rear leg deployment width		10180mm
	Concrete displacement		150ml/h
	Pressure(High/Low)		12/8.2Mpa
	Theoretical pumping times		33Times/Minute
	Delivery cylinder inner diameter		260mm
	Delivery cylinder stroke		1900mm
	Hydraulic system		开式液控
	System oil pressure		32Mpa
	Tank volume		500L
	Water tank volume		400L
Chassis	Conveying pipe diameter		125mm
	End hose length		3m
	End hose diameter		125mm
	Chassis model		QL5350TZZW6TDZY
	Engine model		6WG1-TCG60
	Engine power		309KW
	Emission Standards		@V/@VI
	Displacement		15.68L

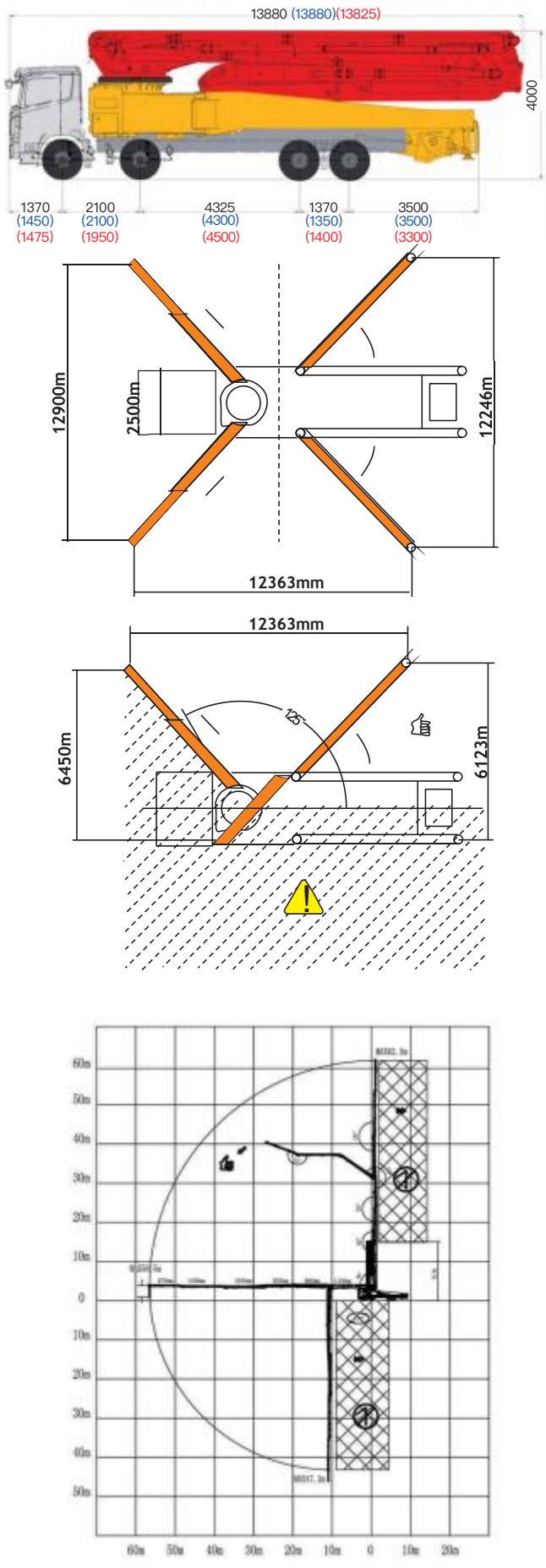


TECHNICAL PARAMETER

	Type		HMG5350THB-57 HMG5355THB-57 HMG5352THB-57
Vehicle	Full length		12520mm
	Total width		2550mm
	Total height		4000mm
	Self weight		35000kg
Boom &Outrigger	Boom vertical height		56.1m
	Boom horizontal length		51.3m
	Boom vertical depth		41.7m
	Minimum expansion height		12.8m
	First arm	Length	10404mm
		Corner	90°
	Second arm	Length	7639mm
		Corner	180。
	Third arm	Length	7209mm
		Corner	180。
	Fourth arm	Length	9694mm
		Corner	234 °
	Fifth arm	Length	9949mm
		Corner	180。
	Sixth arm	Length	7450mm
		Corner	195°
Pumping system	Turntable rotation angle		±270 °
	Front leg deployment width		9917mm
	Rear leg deployment width		11192mm
	Concrete displacement		150ml/h
	Pressure(High/Low)		12/8.2Mpa
	Theoretical pumping times		32Times/Minute
	Delivery cylinder inner diameter		260mm
	Delivery cylinder stroke		1900mm
	Hydraulic system		开式液控
	System oil pressure		32Mpa
	Tank volume		500L
	Water tank volume		400L
	Conveying pipe diameter		125mm
	End hose length		3m
End hose diameter		125mm	
Chassis	Chassis model		QL5350TZZW6TDZY SX5359THBMU524 (SX5359THB6U524) ZZ5386V524MF1
	Engine model		6WG1-TCG61 WP10H400E62 MC11.40-60
	Engine power		338/294/327KW
	Emission Standards		@ VI
	Displacement		15.68/9.5/10.518L

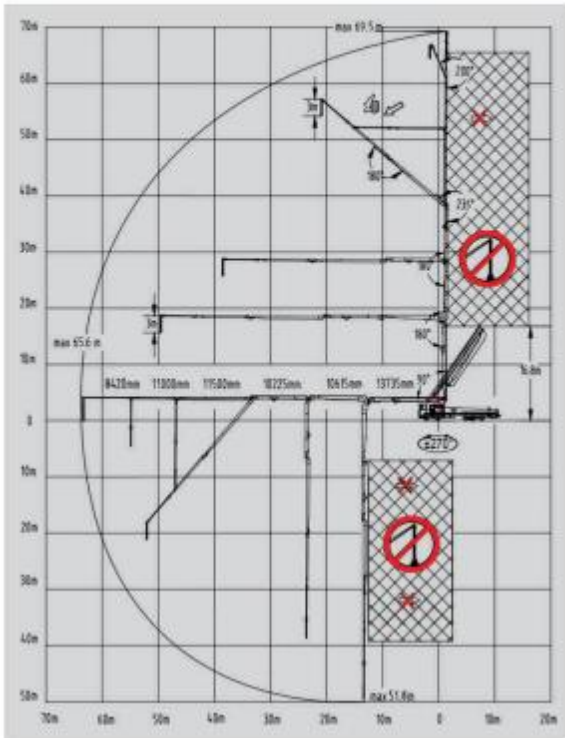
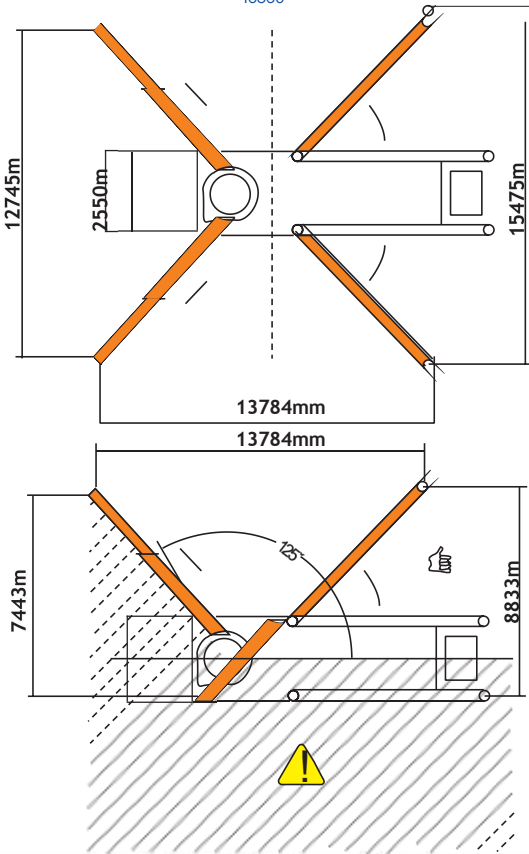
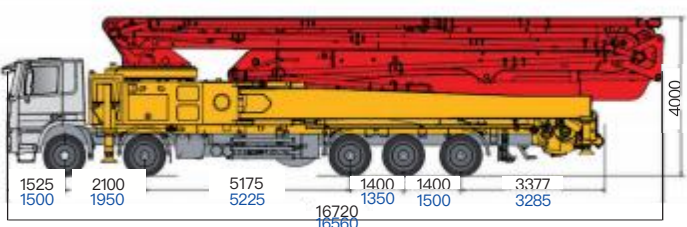


	Type		HMG5440THB-63 HMG5441THB-63 HMG5442THB-63
Vehicle	Full length		13880mm
	Total width		2500mm
	Total height		4000mm
	Self weight		44000kg
Boom &Outrigger	Boom vertical height		62.5m
	Boom horizontal length		58.5m
	Boom vertical depth		47.3m
	Minimum expansion height		14.9m
	First arm	Length	11430mm
		Corner	90°
	Second arm	Length	8600mm
		Corner	180°
	Third arm	Length	8250mm
		Corner	180°
	Fourth arm	Length	10550mm
		Corner	235°
	Fifth arm	Length	11050mm
		Corner	180°
Sixth arm	Length	8720mm	
	Corner	200°	
Pumping system	Turntable rotation angle		±270°
	Front leg deployment width		12900mm
	Rear leg deployment width		12246mm
	Concrete displacement		180ml/h
	Pressure(High/Low)		12/8.2Mpa
	Theoretical pumping times		28Times/Minute
	Delivery cylinder inner diameter		260mm
	Delivery cylinder stroke		2200mm
	Hydraulic system		开式液控
	System oil pressure		32Mpa
	Tank volume		500L
	Water tank volume		400L
	Conveying pipe diameter		125mm
	End hose length		3m
End hose diameter		125mm	
Chassis	Chassis model		QL5440TZZW7VDHY BJ5449THB-AA ZZ5446V516MF1
	Engine model		6WG1-TCG61 ISGe5-430 MC11.44-60
	Engine power		382/316/327KW
	Emission Standards		@V/@VI
	Displacement		15.68/11.8/10.518L



TECHNICAL PARAMETER

	Type		HM5545THB-70 HM5546THB-70
Vehicle	Full length		16720mm
	Total width		2550mm
	Total height		4000mm
	Self weight		54000kg
Boom & Outrigger	Boom vertical height		69.5m
	Boom horizontal length		65.6m
	Boom vertical depth		51.8m
	Minimum expansion height		16.8m
	First arm	Length	13735mm
		Corner	90°
	Second arm	Length	10615mm
		Corner	180°
	Third arm	Length	10225mm
		Corner	180°
	Fourth arm	Length	11500mm
		Corner	235°
	Fifth arm	Length	11000mm
		Corner	180°
Pumping system	Sixth arm	Length	8420mm
		Corner	200°
	Turntable rotation angle		±270°
	Front leg deployment width		12745mm
	Rear leg deployment width		15475mm
	Concrete displacement		180ml/h
	Pressure(High/Low)		12/8.2Mpa
	Theoretical pumping times		28Times/Minute
	Delivery cylinder inner diameter		260mm
	Delivery cylinder stroke		2200mm
	Hydraulic system		开式液控
	System oil pressure		32Mpa
	Tank volume		600L
	Water tank volume		400L
Chassis	Conveying pipe diameter		125mm
	End hose length		3m
	End hose diameter		125mm
	Chassis model		SX5449XDCZ2 ZZ5547V42KGF1
	Engine model		WP13.510E62 MC13.54-61
	Engine power		375/400KW
	Emission Standards		@VI
	Displacement		12.5/12.419L



	Type		HM5545THB-75 HM5546THB-75
Vehicle	Full length		16720mm
	Total width		2550mm
	Total height		4000mm
	Self weight		54000kg
Boom & Outrigger	Boom vertical height		74.5m
	Boom horizontal length		68.9m
	Boom vertical depth		56.1m
	Minimum expansion height		16.8m
	First arm	Length	13935mm
		Corner	90°
	Second arm	Length	10615mm
		Corner	180。
	Third arm	Length	10225mm
		Corner	180 °
	Fourth arm	Length	13250mm
		Corner	230。
	Fifth arm	Length	13800mm
		Corner	180。
Pumping system	Sixth arm	Length	8620mm
		Corner	200。
	Turntable rotation angle		±270°
	Front leg deployment width		12745mm
	Rear leg deployment width		15800mm
	Concrete displacement		180ml/h
	Pressure(High/Low)		12/8.2Mpa
	Theoretical pumping times		28Times/Minute
	Delivery cylinder inner diameter		260mm
	Delivery cylinder stroke		2200mm
	Hydraulic system		开式液控
	System oil pressure		32Mpa
	Tank volume		600L
	Water tank volume		400L
Chassis	Conveying pipe diameter		125mm
	End hose length		3m
	End hose diameter		125mm
	Chassis model		SX5449XDCZ2 ZZ5547V42KGF1
	Engine model		WP13.510E62 MC13.54-61
	Engine power		375/400KW
	Emission Standards		@VI
	Displacement		12.5/12.419L

