

B51x5





Reliability x quality x innovation

Your reliable partner in concrete pumps

Since its founding in 1994 by Rohnny Bonneux, Bonneux Machinery has grown into a leading player in the world of concrete pumps and pump mixers. Based in Sint-Truiden, Belgium, our dedicated team of 20 professionals work daily to provide customers with the best machines and service.

With over 1000 concrete pumps and pump mixers sold, Bonneux Machinery consistently proves its expertise and reliability. Additionally, we are the exclusive importer of Bonneux Xanjer concrete pumps for Europe, offering innovative and high-quality pumping solutions for the construction industry.

Quality and service without compromise

At Bonneux Machinery, everything revolves around reliability, innovation and exceptional service. Whether you are an end customer or a dealer, we guarantee perfect service tailored to your needs.

- x **Short communication lines** - direct and efficient contact for quick solutions
- x **Wide range of spare parts** - minimal downtime, maximum productivity
- x **Custom finishing** - tailored to your specific requirements and work environment
- x **In-house team of top engineers and technicians** - expertise and craftsmanship under one roof
- x **Constant development** - we continue to innovate to provide the best solutions

Innovation and quality in-house

At Bonneux Machinery, we invest in the latest technologies, bringing our machines to the highest level. Thanks to our advanced equipment, combined with our experienced engineers and technicians, we can deliver customized solutions while ensuring the highest quality.

- x **Cooled welding robot** - perfect welding of custom double-walled pipes
- x **Unique hose press for concrete hoses** - fast service for custom-made concrete hoses
- x **Professional spray booth** - customization of accessories
- x **Mobile truck lifting columns** - efficient maintenance and fast service
- x **Cutting and bending machine** - precise custom metalworking
- x **Revision of hydraulic cylinders** - revision bench with very high torque and test module

With this modern equipment, we guarantee an efficient, comprehensive and smooth service.

With Bonneux Machinery, you choose more than just a machine - you choose a partner who thinks with you and always goes the extra mile



Bonneux
CONCRETE * TECHNOLOGY

B51x5

Bonneux

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Boom

BOOM B51x5	
material	high-strength structural steel
strength calculation	FEM analyse
folding system	type 'rz'
number of sections	5
max. vertical range	50,3 m
max. horizontal range	46,4 m
max. depth range	36,3 m
min. unfolding height	13,6 m
rotation angle	± 360°
turning angles	90°- 180°- 180°- 245°- 210°
control valve	proportional
max. hydraulic pressure	380 bar
pipeline	Ø 5" (DN 125)
end hose	Ø 5" (DN 125) - 3 m

DOUBLE-WALLED PIPES AND ELBOWS with high wear resistance				
		INNER WALL		OUTER WALL
BOOM	pipes	induction-hardened 65 HRC	2,5 mm	2,0 mm
	elbows	chrome carbide	11,0 mm	2,5 mm
DECK	pipes	induction-hardened 65 HRC	3,0 mm	2,5 mm
	elbows	chrome carbide	11,0 mm	2,5 mm

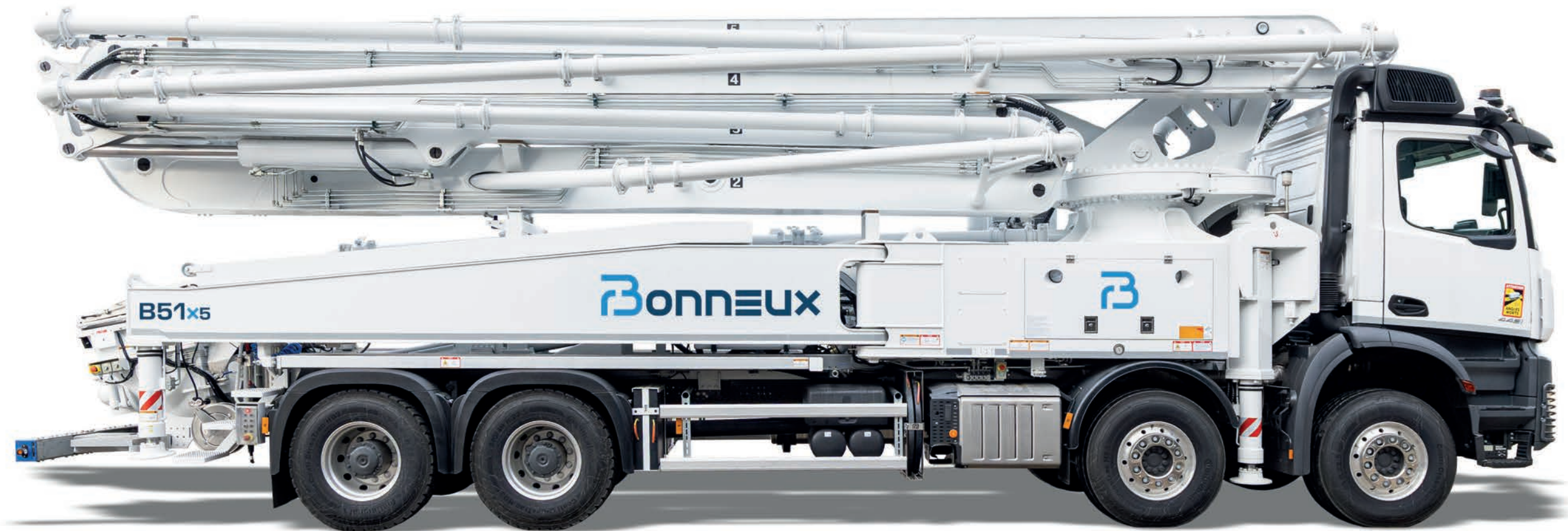


Pumping unit

ADVANTAGES/CONSTRUCTION	
powered by PTO transmission of the truck	
s-valve made of wear-resistant cast iron, equipped with a welded wear layer	
wear ring and wear plate with tungsten carbide inserts, equipped with a compensation system	
hydraulically driven and temperature controlled oil cooler	
mixing shaft with removable blades, reinforced with a hardfaced wear layer	
automatic grease lubrication system, hydraulically driven	
thick-walled 7" outlet bend with flushing hole	
concrete cylinders with hard chrome inner wall	
simply designed open hydraulic system	
electro-hydraulic controlled pumping unit	
separate control for pumping and s-valve cylinders supported with accumulator	
Rexroth® hydraulic pumps with variable displacement	
aluminium cover with 2 led work lights	
automatic fuel-saving RPM-control	

PUMPING UNIT XJG5370 open hydraulic system	
max. concrete flow rate*	160 m³/h
max. concrete pressure*	85 bar
max. number of strokes*	29/min
stroke length	1800 mm
diameter of concrete cylinder	260 mm
hopper capacity	700 l
*the data given are theoretical values and cannot be reached simultaneously.	

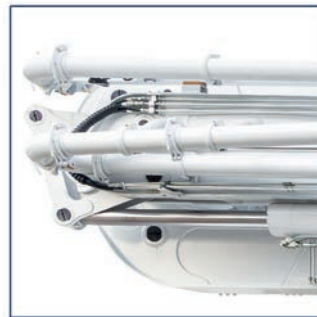
B51x5



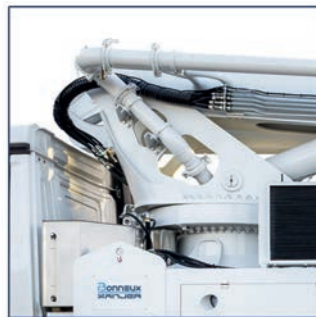
The concrete hopper has a unique design with a large capacity and a curved shape. The rounded corners ensure easy cleaning and reduce concrete residue.



The water system is user-friendly and offers excellent accessibility, with quick connectors fully tailored to the user's needs.



The boom features intelligent vibration damping technology and FEM analysis. Its bionic and reinforced design ensures quick deployment and stable pumping.



The design, featuring bends and pipes, ensures excellent accessibility and easy maintenance.



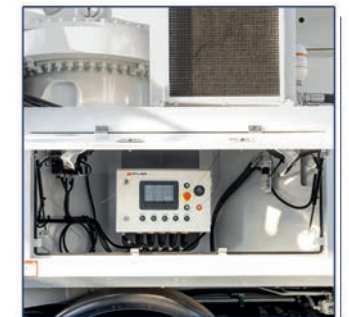
High visibility and safety on construction sites thanks to a comprehensive lighting system.



Proportional valve block for smooth control of multiple sections, with software that makes it easy to customise movements.



Guide rollers ensure that the support legs open and close smoothly.

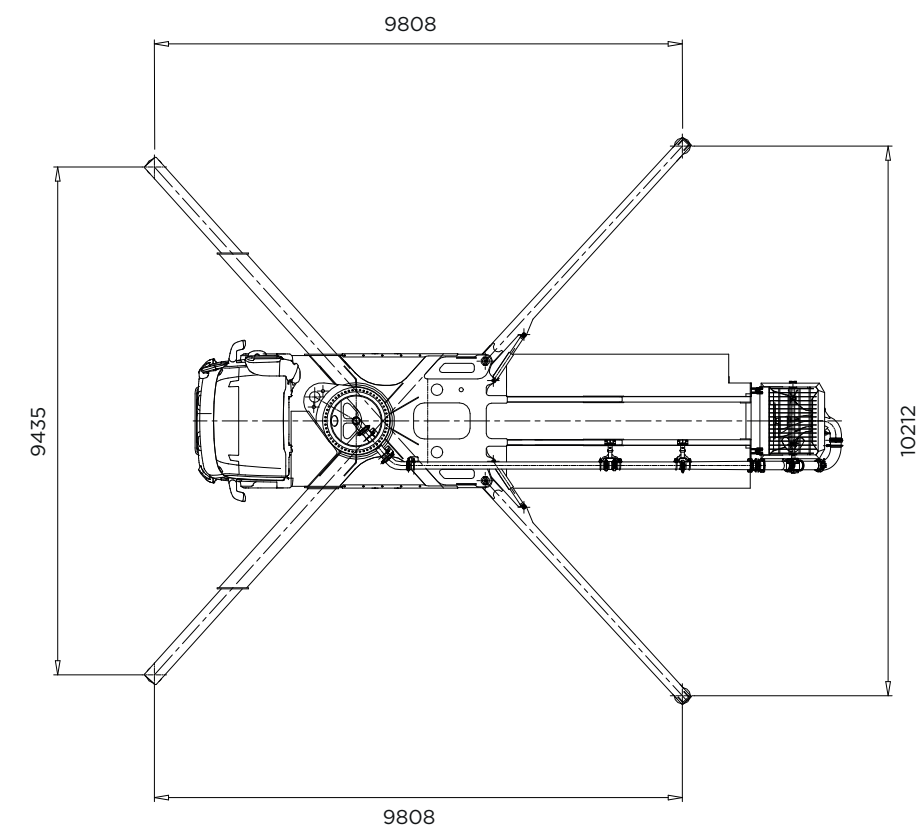
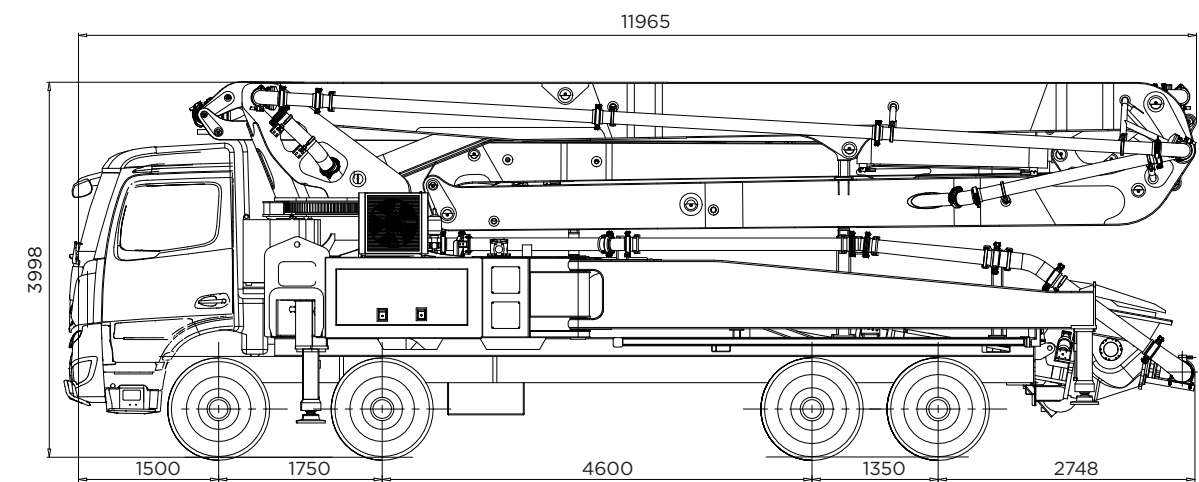


User-friendly software with a clear display for intuitive control, accurate monitoring, and efficient fault detection.

Technical specifications

Dimensions*

The dimensions of this concrete pump ensure optimal weight distribution, safe positioning and easy manoeuvrability; ideal for sites with limited access and working space.

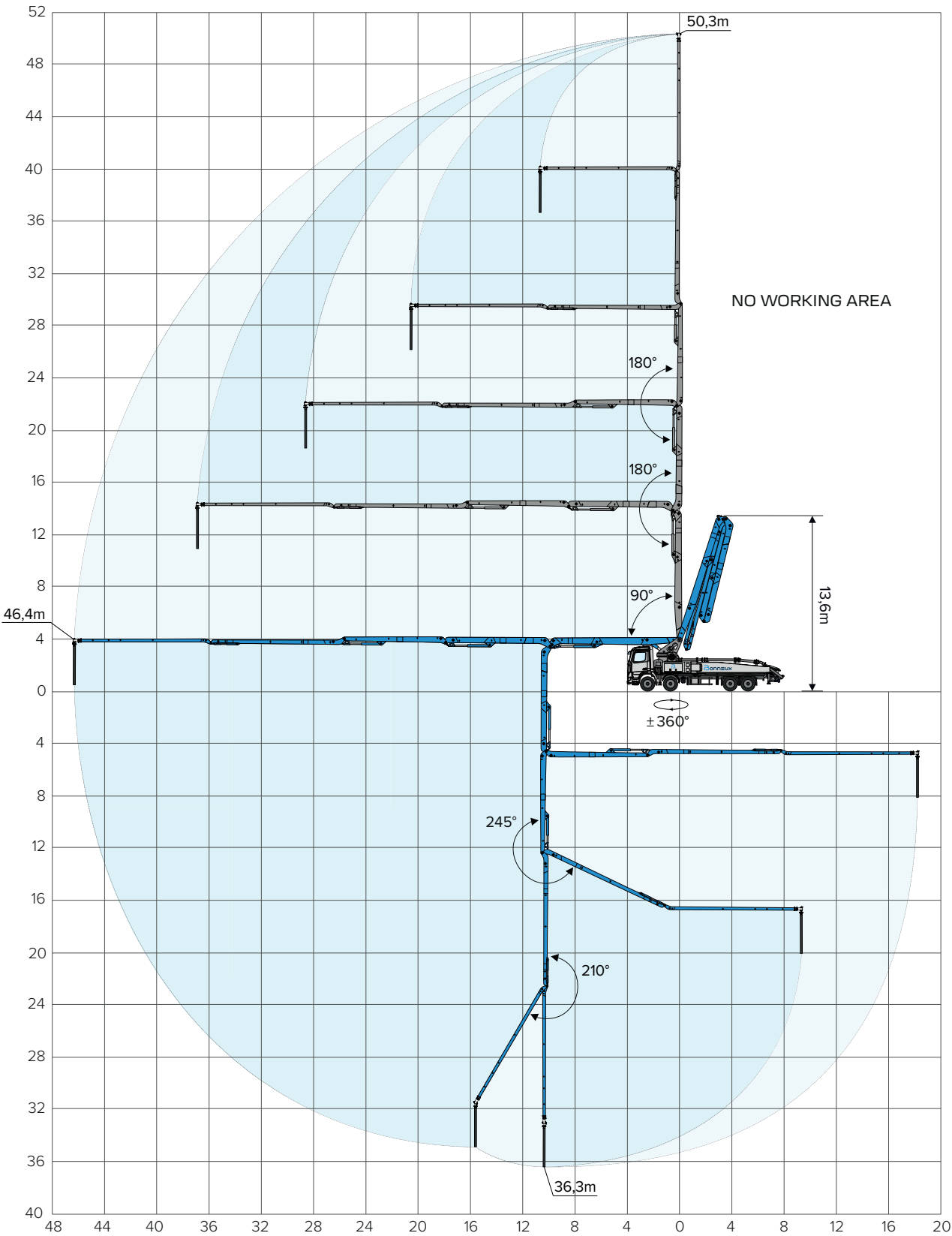


*dimensions are informative and depend on the truck composition chosen.



Technical specifications

Working area

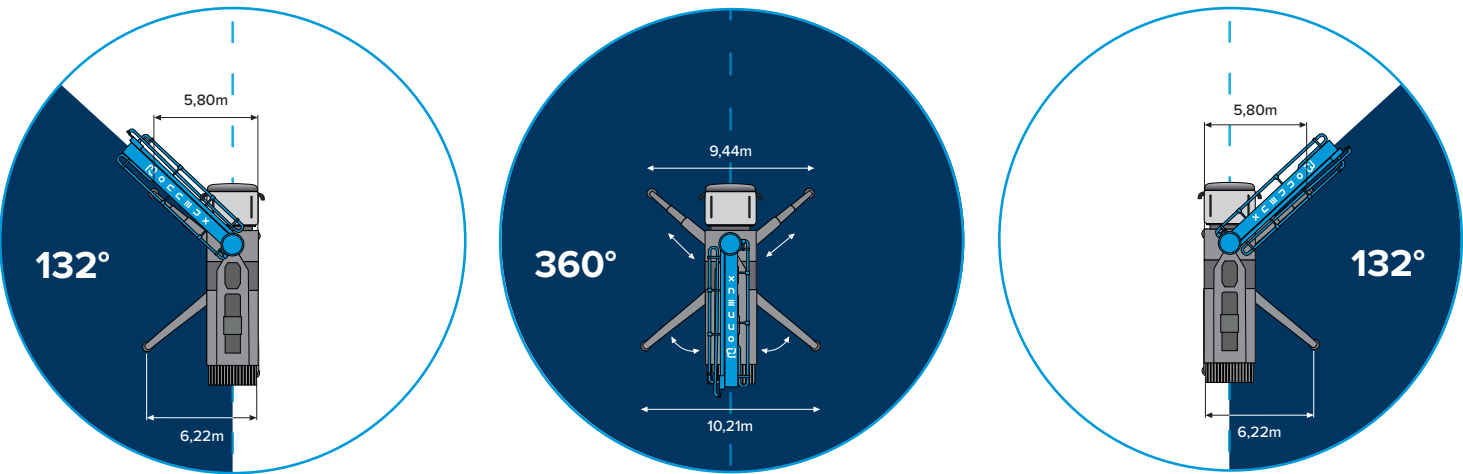


RZ-folding system



The RZ folding system: The perfect combination of reach and efficiency. It offers the ideal balance between R and Z folding systems. Thanks to this smart boom design, impressive boom lengths of 51 meters can be mounted in an extremely compact configuration on a standard truck, significantly simplifying the vehicle configuration. Additionally, the well-thought-out design provides optimal operating comfort on the job site: the boom is easy to operate throughout the pump's entire working range. This results in an efficient, fast, and precise workflow from the very first minute.

Stability control system



The X : crossroads where quality and expertise come together

The partnership between Bonneux Machinery and Xanjer forms the foundation of our high-tech concrete machinery. This strategic collaboration combines European quality standards, reliability and a high-quality finish with cutting-edge technical knowledge and manufacturing expertise from China.

Every machine is built using carefully selected technologies and high-quality components for the radio control system, pump unit and hydraulic manifold, amongst other things. The result is a concrete pump that excels in operational reliability, precision and durability — designed to deliver top performance on all your projects, even under the most demanding conditions.

As the exclusive distributor of Bonneux Xanjer concrete machinery in Europe, Bonneux Machinery brings together the best of both worlds: European quality standards and international technological expertise. Technology that exceeds expectations. One mission: exceeding limits.



Bonneux Machinery Belgium



Production facility Xanjer China

Components*

Radio remote control
 2 transmitters + 1 receiver



autec

Proportional hydraulic
 boom control valve



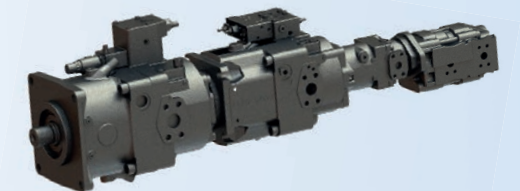
XANJER

Can-bus control
 Bodas hardware
 Controller rc-series



rexroth
 A Bosch Company

Hydraulic pump to drive
 pumping unit and boom



rexroth
 A Bosch Company

*our products are constantly evolving, which means specifications may vary.



Exceeding limits

Bonneux
CONCRETE X TECHNOLOGY

Our line-up

B24x3



B28x4



B32x4



B27x4²



B27x4³



B31x4



B36x5



B43x5



B48x6



B51x5



B68x6



B70x6



B73x6



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