

BOOMIX™ TRUCK MIXER PUMPS

The BOOMIX™ truck mixer pumps are a high quality and functional concrete casting system. Each detail is thought out, designed and built for operating the truck-mounted pumps in perfect harmony with the frames of the vehicles designed to carry them.

The accurate design and the use of special steels guarantee a sturdy structure with a high resistance to wear.

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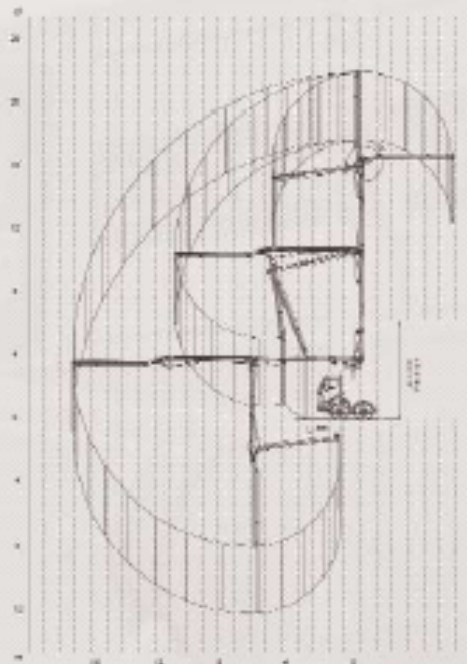


Technical characteristics	BOOMIX™ 2432	BOOMIX™ 2532	BOOMIX™ 2636	BOOMIX™ 4639	
MODEL					
Netral capacity	m ³	7.8	7.8	7.8-9	7.8-9
Axes		6x4-8x4	6x4-8x4	6x4-8x4	8x4
3 SECTION BOOM					
Net bar of sections	n	3	3	3	4
Diameter of pipes	mm	300	125	180	300
Vertical height	mm	22.000	22.000	24.000	28.700
Rotational reach	mm	18.800	18.400	20.000	24.700
Depth of cone	mm	12.000	12.000	13.200	17.000
Max. tilt in spouting height	mm	6.375	6.270	6.500	6.500
Angle of rotation	°	360°+10°	360°+10°	360°+10°	360°+10°
Length of concrete pipe	m	3	3	3	3
5 MOTOR FRAME					
Face	mm	4.000	4.200	4.200	5.100
Back	mm	1900	2.200	2.200	2.200
PUMP UNIT					
SCF 60/30					
Max theoretical output	m ³ /h	55			
Max pressure on concrete	bar	6.8			
Max number of cycles	n/min	18			
Pumping cylinders (4 hoses per stroke)	mm	300 x 1.800			
Capacity of charging hopper	l	300			
Hydraulic pump		Sens controlled with pump and remote operation			

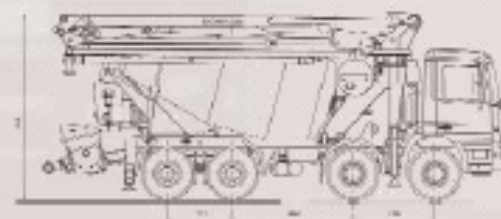
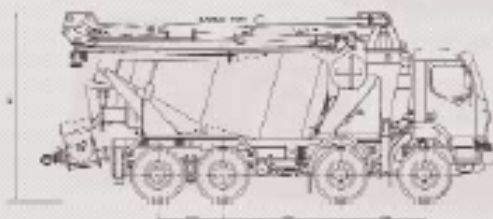
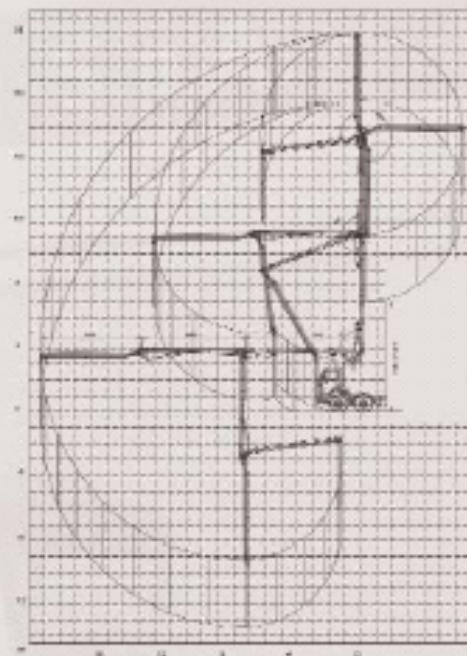




This equipment, of recent construction stands out for its innovative design and its unique "lightness" (thanks to the special materials used). This feature translates into a considerable reduction of the empty weight, increasing the transportation capacity accordingly. The BOOMIX® Z422 is made up of 3 elements that give it a vertical extension of 22 metres and is provided with a 4" (102 mm) pipe. The end pipe has a length of 3 metres. Light and versatile, and suitable for installation on 6x4 vehicles. This equipment, mounted on 8x4 vehicles, makes it possible to carry 6 m³ of concrete, while remaining within the legal load limit of 32,000 kg.



4.5" pipe, opening height of only 6 m and 7' configurations are the distinctive features of BOOMIX® Z522, practical and safe, and capable of pumping even the most complex structures, made up of coarse aggregate with a low content of fines.



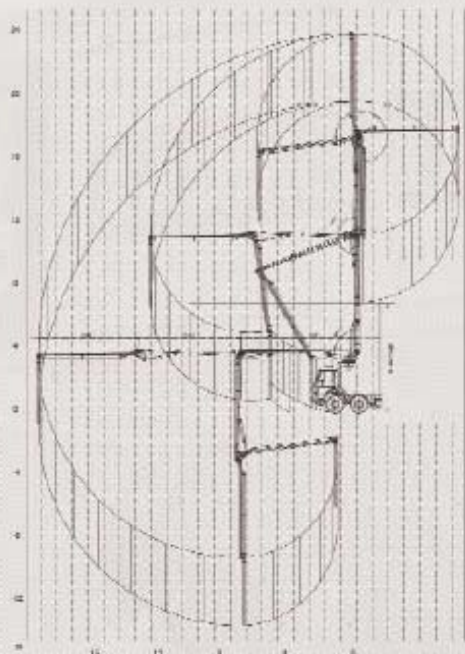
BOOMIX® Z424

BOOMIX® M429

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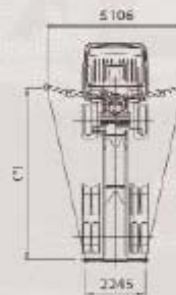
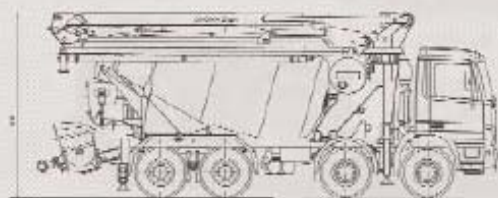
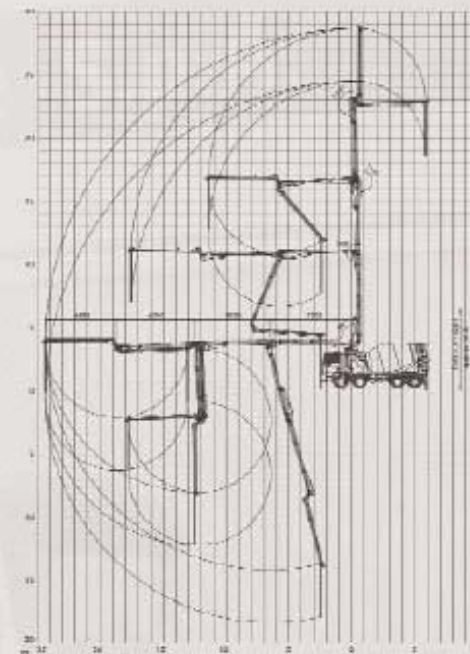


The boom reaches up to 24 metres with 4" pipes. It is characterized by the "Z" configuration of the 3 elements that compose it with opening angles of 270°. It is reliable and flexible, and stands out for the quality of the pumping obtained.



Power and versatility are distinctive features of the M429 distribution boom. The boom is built of steel with a high yield point and is made up of 4 elements with an "M" configuration; the boom reaches 29 metres with pipe of 4" (100 mm) in diameter, and can open at a height of only 6.6 metres above the ground.

- **Very sturdy front support and pivot;**
- **Better stability:** the double-slide-out "V" configuration allows a perfect 360° stabilization, even when the drum mixer is empty;
- **Upper work area:** the 270° angle of the 3rd element and the 278° angle of the 4th element make it possible to use a larger work area, thanks to the effective use of the boom in all its horizontal extension.



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Rotation of boom

On a base-plate rigidly fastened to the sub-frame is installed the pivot (driven by a hydraulic gearmotor) which provides the rotation of the boom. The boom support and the pivot are built so as to lend a high rigidity to the structure, torsional strength and perfect stability. The rotation can be continuous with the application of a rotating coupling (optional).



Distribution boom

The distribution boom is made of WELDOX 700 steel, a solid steel that is at the same time a great deal lighter than traditional steels. The boom is made up of 3 or 4 elements with a "Z" or "M" configuration, respectively, hinged to each other by means of special pins provided with safety systems. The movement (in the vertical direction) of the elements is provided by hydraulic cylinders and a linkwork system.

All the distribution booms are designed so as to allow the complete use of the boom in all its length, pumping up to 20 m from the cabin.



Controls

The boom is operated via radio or via cable by remote control, from a compensated proportional distributor. Manual operation is provided in case of emergency and for normal maintenance.





Supports and sensors

All the BOOMIX® booms are provided with secure supports to hold the boom in the idle position and with sensors to enable the movement of the vehicle. **If the boom is not housed in perfect position, a signal lamp inside the cabin warns the operator about the irregular condition.**



Stabilization

The front-end hydraulic stabilizers are configured for slide-out action (V-shaped double slide-out section for **BOOMIX® H429**) with hydraulic opening. Their size makes it possible to work in complete safety in all casting positions, even with mixer empty (that is, without using the concrete as a stabilizing mass).



Plate support for outriggers

The outriggers rest on suitable plates that during transport are put inside a special container positioned in the lower part of the Combined mixer pump.



Servo drive

The servo drive makes it possible to vary the pump delivery from minimum to maximum, keeping the vehicle motor at a constant speed (1500 rpm).



Hydraulic system and greasing system

Centralized greasing system and easy-maintenance oil filter integrated in the basement.



Automatic greasing system for the placing boom



Pipework

The piping is made of **special abrasion-resistant Manganese 200 HRB steel**; the curves are made of wear-resistant manganese steel with a differential cross-sectional thickness.

The curves and pipes in the front support are made of 8-mm-thick wear-resistant manganese steel to guarantee their long life and reduce the need to replace parts that are difficult to service.



Safety valves

On the cylinder feeding connectors are installed special safety valves for controlling the pressure of the hydraulic circuit.0

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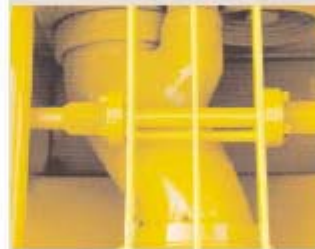


SCP 60/55 PUMPING UNIT

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The 60/55 pumping unit consists of a concrete feeding **HOPPER** and a pair of pumping pistons which work in a reciprocating movement in sequence with a changeover valve. The operation is **completely hydraulic**. The operating system of the SCP 60/55 unit is of sequential logic type, which makes it possible to extend, to at least double, the life of the plate and the wear ring of the concrete pump.



'S' valve

The "S" valve without reduced cross section (2") makes it possible to achieve ideal flow conditions with a smooth speed increase. **Pipe wear is reduced considerably and the speed of the pumped concrete is held constant.**



Intake tubes and valve

The pumping unit's **constant-diameter intake tubes and valve** (200 mm and 180 mm, respectively) guarantee optimum intake conditions. The 200/1000 displacement makes it possible to pump difficult concretes. **The speed of the pistons is 0.5 m/sec**, a guarantee of perfect tightness.



Conveying chamber

The conveying chamber is made of die-cast steel to guarantee its in-deformability during the pumping operations and to ensure a perfect adhesion between the valve and the chamber walls.

Technical characteristics		SCP 60/55
PUMPING UNIT		
Max theoretical output	m ³ /h	55
Max pressure on concrete	bar	60
Max number of cycles	n/min	30
Pumping cylinders (diameter per stroke)	mm	200x1000
Capacity of charging hopper	l	350
Hydraulic pump	l	Servocontrolled with power and torque regulator



Hopper

The ideal geometrical shape of the hopper **with the absence of vertical walls** in the intake area and the thick layer of concrete contained prevents the formation of preferential air passages in the suction phase. This makes it possible to draw up and pump **difficult concretes in the best conditions**.

The hopper of the pumping unit **can be opened to facilitate cleaning and maintenance** (in case of replacement of the pumping pads or removal of the plate, the wear ring and the "S" valve).



Vibrator on hopper

Its installation avoids the accumulation of high-density concrete on the grid.



The hopper is fitted with a level sensor.

It has a double function: it avoids the excessive filling of the hopper so that the concrete does not overflow, and constantly guarantees a sufficient quantity of concrete in the hopper in order to avoid the air suction in the delivery pistons.



Hopper/pump inspection footboard.



Wear plate

The wear plate in the conveying chamber is made of wear-resistant chromium alloy steel characterized by high hardness and resistance to abrasion.



Horizon Indicator to align the machine while working.



Ball stopping pin

It intercepts the rubber ball at the end of the pipe clearing operations, thus avoiding its suction in the hopper.



Operation enabling sensor with closed safety grid closed.