



GENERAL CATALOGUE



OUR MISSION

"We **design, build and deliver concrete pumps** and equipment all over the world within the construction industry. Our pumps are considered to be extremely reliable, superior in quality and easy to use, which makes work on site more productive."

A FAMILY COMPANY

SERMAC Srl is an Italian manufacturing company founded in Milan in 1989, leader in the concrete pumping machinery sector. We are a global player able to offer a complete and reliable range of equipment for civil and industrial construction.

Our equipment is indeed recognized in the premium range of the international market thanks to the professional design and production experience acquired in over 30 years of activity, and to the continuous investment in R&D.

The level of specialization of our staff allows us to constantly provide our customers with personalized customer care services, technical consultancy, marketing, after-sales assistance and spare parts.



**OPERATIONAL AND PRODUCTION
HEADQUARTERS OF 10,000 M² COVERED**



**CERTIFICATION
UNI EN ISO 9001:2015**



**TRUCK MOUNTED
PUMPS**



**MIXER
PUMPS**



**TRAILER
PUMPS**



**STATIONARY
BOOM**

MADE IN ITALY



CARPENTRY OF 3.000 M² COVERED



S-DESIGN



OUR STRENGTHS



HIGH QUALITY COMPONENTS, MAIN EUROPEAN COMPONENTS



EXCELLENT ASSEMBLY ON ALL TRUCK BRAND AND CUSTOMIZATION



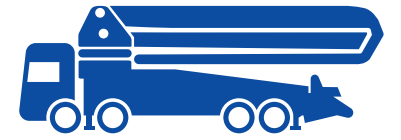
SUPERLIGHT



TRAINING CENTER



TRUCK MOUNTED PUMPS



FIELDS OF APPLICATION

CIVIL & INDUSTRIAL BUILDING
MAJOR WORKS & INFRASTRUCTURE
REDEVELOPMENT, FOUNDATION
MASONRIES, TOWN PLANNING



TRUCK MOUNTED PUMPS

DISTRIBUTION BOOMS

Advanced technology for every demand with a complete range of concrete pumps with placing booms from 20 m to 65 m

CONTROLS SYSTEM

Functionality at operator's disposal

PUMPING GROUP

Maximum efficiency and minimum wear

STABILIZATION

Great stability in every pumping phase



DISTRIBUTION BOOMS

ADVANCED TECHNOLOGY FOR EVERY DEMAND

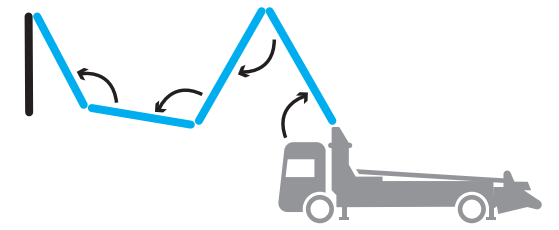
SERMAC offers a complete range of concrete pumps with **placing booms from 20 m (4 sections) to 65 m (6 sections) height** with different fold configurations: “Z”, “ZR” or “RZ”.

THE **SERMAC** MODEL BOOMS ARE AVAILABLE IN THE FOLLOWING FOLDING TYPES:

“ZR” FOLDING

It offers the advantage of the folding type “Z” and “R” in terms of operations and rapidity of execution. Ideal for small works of urban construction indoor and outdoor where workspaces are particularly tight.

Concrete pump: **4ZR20**



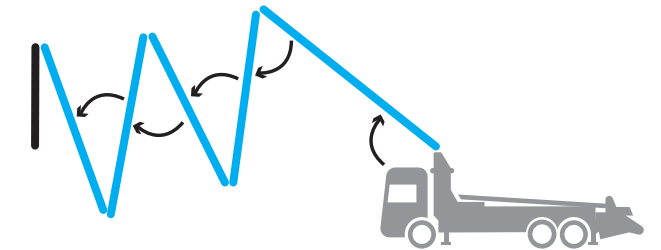
“Z” FOLDING

It's ideal for operating in horizontal spaces also limited in height where it is required where great agility and rapidity of opening and manoeuvre of the boom is required.

Concrete pumps: **4Z27, 4Z38**



Concrete pumps: **5Z33, 5Z36, 5Z38, 5Z42**



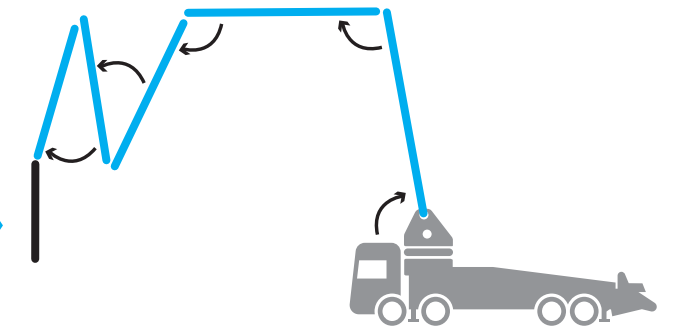
“RZ” FOLDING

It offers the advantage of the folding type “R” and “Z” it is used with 5 and 6 sections booms. Ideal for large building sites where the boom need to operate in wide working areas.

Concrete pumps: **5RZ46, 5RZ51, 6RZ56, 6RZ60**



Concrete pump: **6RZ65**



CONCRETE PIPELINE



The concrete pipeline of distribution boom, with standard diameter **Ø 125 mm (5 inch)** on all models, is supplied as follows:

- **Straight pipes** made in **Twin-Wall** with highly abrasion resistant induction hardened inner liner.
- **Bends** made in **Twin-Wall** steel with chromium carbide inner

The terminal rubber hose (without collar on exit) is supplied with security chain and stop-flow group on request.



STABILIZATION

GREAT STABILITY IN EVERY PUMPING PHASE



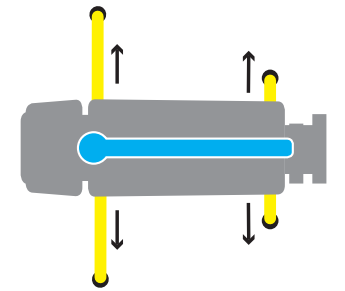
THE **SERMAC** CONCRETE PUMPS COMBINES EACH MODEL OF THE BOOM WITH A SPECIFIC STABILIZATION, CHARACTERIZED BY THE FOLLOWING OPENINGS:

FRONT: **SINGLE TELESCOPIC**

REAR: **FIXED**

Versatile and compact stabilization that allows rapid positioning in small or difficult to access spaces. Solution used with small size booms and a folding type "Z" or "ZR". Rear outriggers with a simple diagonal extension ensure a rapid and effective placement in tight spaces.

Modello: **4ZR20, 4Z27**

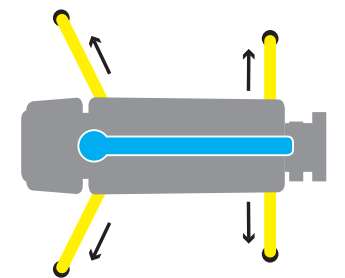


FRONT: **X-TYPE SINGLE TELESCOPIC**

REAR: **HORIZONTAL**

Excellent stabilization which guarantees a high functionality and a great stability in all working positions. Solution used with medium size booms and a folding type "Z". Rear outriggers with a simple diagonal extension ensure a rapid and effective placement in tight spaces.

Modello: **5Z33, 5Z36**

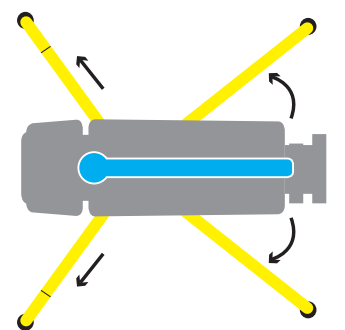


FRONT: **X-TYPE MULTITELESCOPIC**

REAR: **SWING-OUT**

Stabilization of rapid placement. Solution used with medium-high size booms with folding type "Z" and "RZ". The rear outriggers have fixed length and ensure stability to the height booms also where an horizontal extension is used.

Modello: **4Z38, 5Z38, 5Z42, 5RZ46, 5RZ51, 6RZ56**

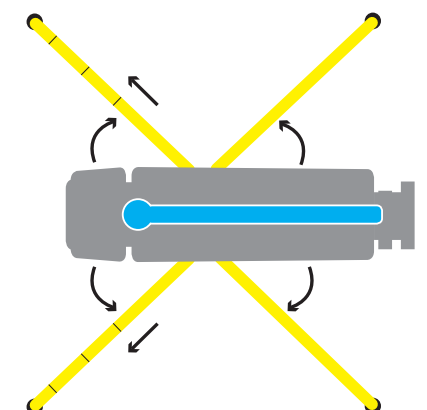


FRONT: **X-ORIENTABLE TYPE MULTITELESCOPIC**

REAR: **SWING-OUT**

Latest generation stabilization for major projects, with potential placement also in confined spaces. Solution that allows total opening outriggers steerable with a rotation angle of 44°. The rear outriggers have fixed length and ensure stability to the height booms also where an horizontal extension is used.

Modello: **6RZ60, 6RZ65**



PUMPING GROUP

MAXIMUM EFFICIENCY AND MINIMUM WEAR

The pumping unit uses a specific **S-valve**, whose innovative geometry guarantees great outputs and low maintenance under hard working conditions to ensure high flexibility and reliability. **The concrete S-valve completely satisfies Customer's demands of capacity and pressure.**



ALL OF **SERMAC** CONCRETE PUMPS OFFER THE FOLLOWING **10 BENEFITS**:

- 1** Pumping unit whit open hydraulic circuit
- 2** Concrete S-valve Ø 9"
- 3** Chrome-lined concrete cylinders of high thickness
- 4** Automatic lubrication of the pumping unit on all moving parts
- 5** Automatic oil lubrication for pumping pistons
- 6** Wears compensation system between plate and ring
- 7** High strength wear parts (S-valve, wear plate, compensation ring)
- 8** Hydraulic pumps with variable displacement and constant capacity adjuster
- 9** Accumulator
- 10** Max concrete output from 100 m³/h to 210 m³/h and pressures to 85 bar*: maximum pumping efficiency, reliability and low operating costs

* Output and pressure are theoretical data. The max concrete output and the max pressures cannot be reach at the same time.



G9

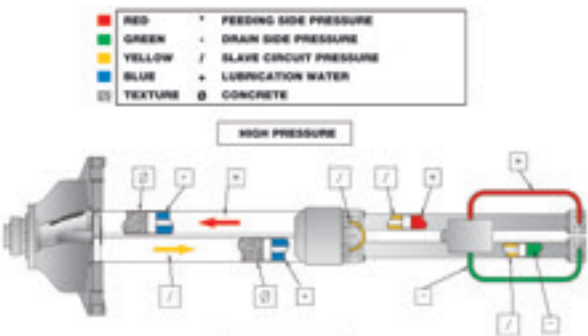


Model	Group	Type	S valve	Stroke lenght [mm]	Piston Ø ["]	Th. Concrete output (Max) [m³/h] *	Concrete pressure (Max) [bar] *	Nr. of cycles per minute ["/min]
4ZR20	AG9M10-100-80	A	G9	M	10	100	80	21
4Z27	AG9M10-150-80	A	G9	M	10	150	80	32
4Z38 5Z33 5Z36 5Z38	AG9L10-170-80	A	G9	L	10	170	80	29
5Z42 5RZ46 5RZ51 6RZ56 6RZ60	AG9L10-170-80 AG9L10-200-80	A A	G9 G9	L L	10 10	170 200	80 80	29 34
6RZ65	AG9X10-210-85	A	G9	X	10	210	85	30

A = Truck mounted concrete pump

M = 1.600 mm
L = 2.000 mm
X = 2.400 mm

10" = Ø 250 mm



THE HOPPER

EXCELLENT GEOMETRY FOR CONCRETE PUMPING:

- Hopper made of wear-resistant steel with a grille equipped with an electric vibrator
- High torque of the mixer allowing operations under the most severe conditions with low-slump concrete
- Optimum combination between the casting steel conveying chamber and the mixing shaft equipped with blades with specific helical geometry
- Large capacity 650 l (G9)

CONTROL SYSTEM

FUNCTIONALITY AT OPERATOR'S DISPOSAL



- | | |
|----|--|
| 1 | JOYSTICK: 5 th and 4 th boom section control |
| 2 | JOYSTICK: 2 nd and 3 rd boom section control |
| 3 | JOYSTICK: 1 st boom section and rotation |
| 4 | SELECTOR SWITCH: Switch engine on/off |
| 5 | SELECTOR SWITCH: Engine acceleration/deceleration |
| 6 | LEVER-OPERATED SELECTOR: Hopper vibrator control |
| 7 | POTENTIOMETER: Concrete flow rate adjustment |
| 8 | SELECTOR SWITCH: Slow/fast selection control |
| 9 | MUSHROOM-SHAPED BUTTON: Emergency |
| 10 | SELECTOR SWITCH: Horn control |
| 11 | SELECTOR SWITCH: Stop |
| 12 | SELECTOR SWITCH: Pumping/suctioning control |
| 13 | SELECTOR SWITCH: Auxiliary functions ON-OFF |
| 14 | CAP |
| 15 | SOCKET: Serial cable connection |



RADIO REMOTE EQUIPMENT

The boom and pump functions are managed by an **ergonomic and lightweight proportional radio remote control** with: double speed boom movement, automatic free frequency research, concrete charge variation, RPM regulation control, start-up and emergency stop. The standard equipment includes two proportional remote controls connected in the cabin.



PROPORTIONAL BOOM DISTRIBUTION

The movements of the boom are controlled by the **proportional distributor that enables to obtain the maximum maneuver accuracy** by a radio control with proportional control, while the pumping function is managed through an hydraulic distributor and a continuous rephasing.



PROPORTIONAL STABILIZATION DISTRIBUTION

The pumping unit stabilizers are hydraulically managed by two distributors placed on both sides of the pump to ensure a safe use. **The lifting cylinders are fitted with check valves to hold the cylinders in position.**



REAR CONTROLS

The rear controls are mounted near the hopper and are complete of: **regulator RPM, horn, start and emergency stop.**

SUPERLIGHT SERIES

THE MASTER OF THE STEEL

SUPERLIGHT

The **SUPERLIGHT** concrete pumps have been thoroughly designed by our technical office **S-Design** with special five (5) and six (6) articulated boom, with the mixed **"RZ"** folding configuration that allows excellent movement performance.

The equipment has been designed both for assembly on standard trucks **4 and 5-axes** due to the extremely contained total weight, that offers:

5RZ46 < 32 t

Exemption of road circulation permits thanks to the underweight legal.

6RZ56 < 41 t

Underweight compared with the potential of the chassis.

6RZ60 < 47 t

Underweight compared with the potential of the chassis.

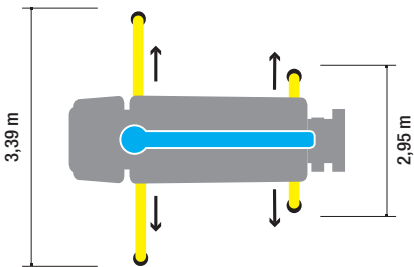
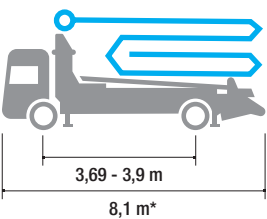
The use of **high-strength steels** and the particularity of our design allow us to create the **lightest boom structures** with the advantage of using more contained stabilizations to the benefit of operations on construction sites presenting difficulties in stabilization spaces, and achieve an **excellent cost-performance ratio without the use of composite materials.**



SERMAC

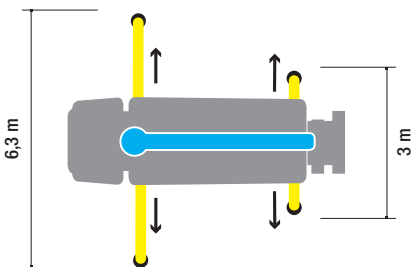
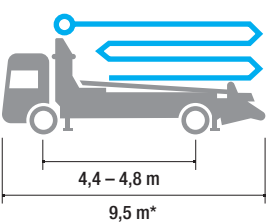
TRUCK MOUNTED PUMPS

4ZR20 CITY PUMP



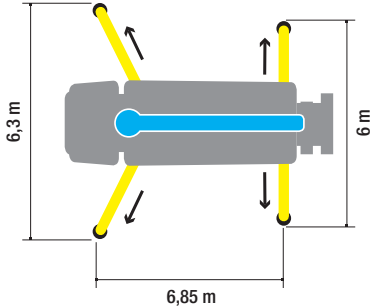
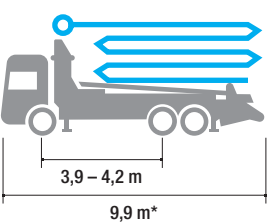
DISTRIBUTION BOOMS	
MAX. VERTICAL REACH	19,4 m
MAX. HORIZONTAL REACH	15,4 m
MAX. DOWNWARD REACH	-12 m
SECTION NUMBER	4
MIN. UNFOLDING HEIGHT	4,2 m

4Z27



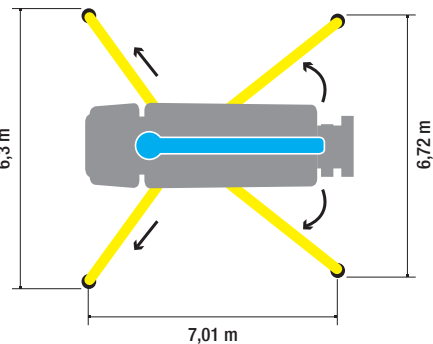
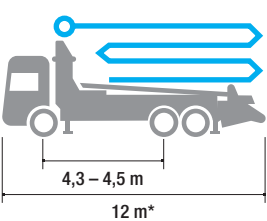
DISTRIBUTION BOOMS	
MAX. VERTICAL REACH	26,4 m
MAX. HORIZONTAL REACH	22,4 m
MAX. DOWNWARD REACH	-16,4 m
SECTION NUMBER	4
MIN. UNFOLDING HEIGHT	5,9 m

5Z36



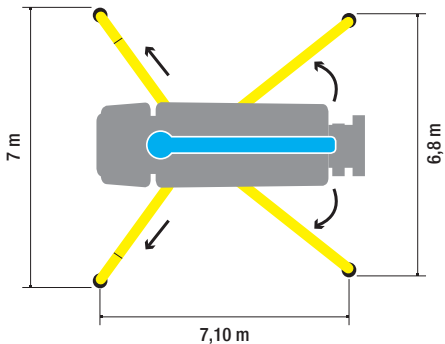
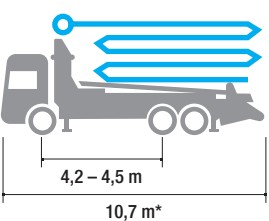
DISTRIBUTION BOOMS	
MAX. VERTICAL REACH	35,3 m
MAX. HORIZONTAL REACH	31,3 m
MAX. DOWNWARD REACH	-24,7 m
SECTION NUMBER	5
MIN. UNFOLDING HEIGHT	6,75 m

4Z38



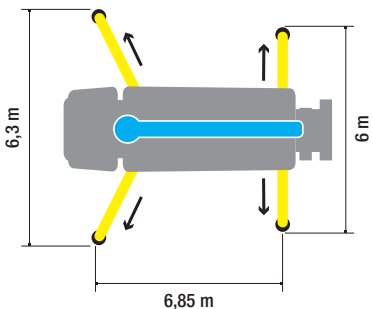
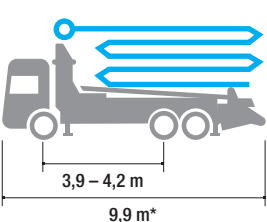
DISTRIBUTION BOOMS	
MAX. VERTICAL REACH	37,15 m
MAX. HORIZONTAL REACH	33,15 m
MAX. DOWNWARD REACH	-24,8 m
SECTION NUMBER	4
MIN. UNFOLDING HEIGHT	8,80 m

5Z38



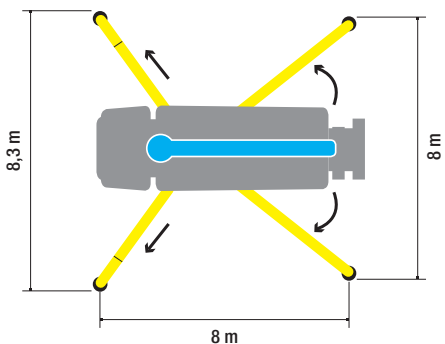
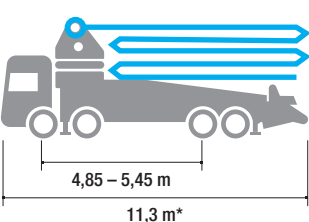
DISTRIBUTION BOOMS	
MAX. VERTICAL REACH	37,35 m
MAX. HORIZONTAL REACH	33,35 m
MAX. DOWNWARD REACH	-26,3 m
SECTION NUMBER	5
MIN. UNFOLDING HEIGHT	7,2 m

5Z33



DISTRIBUTION BOOMS	
MAX. VERTICAL REACH	32,3 m
MAX. HORIZONTAL REACH	28,3 m
MAX. DOWNWARD REACH	-22,2 m
SECTION NUMBER	5
MIN. UNFOLDING HEIGHT	6,3 m

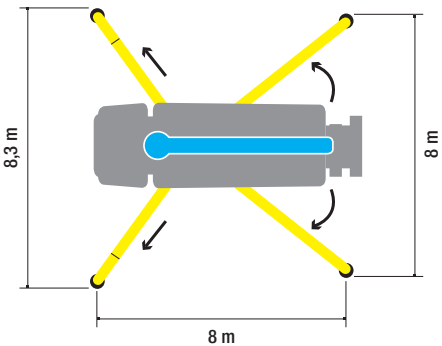
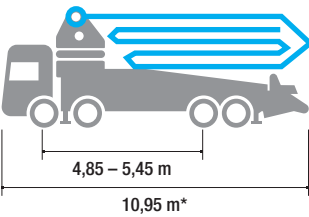
5Z42



DISTRIBUTION BOOMS	
MAX. VERTICAL REACH	40,7 m
MAX. HORIZONTAL REACH	36,7 m
MAX. DOWNWARD REACH	-28,4 m
SECTION NUMBER	5
MIN. UNFOLDING HEIGHT	8 m

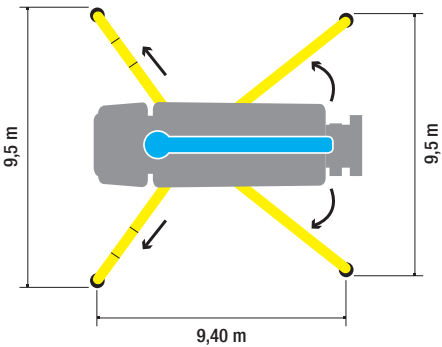
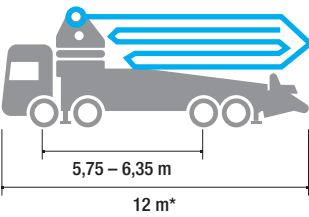


5RZ46 SUPERLIGHT



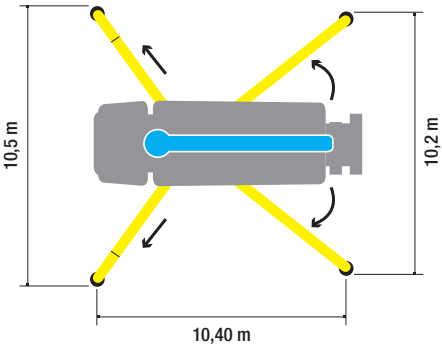
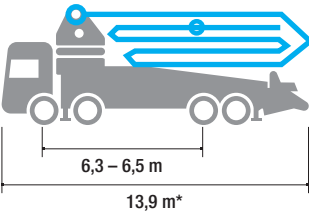
DISTRIBUTION BOOMS	
MAX. VERTICAL REACH	45,1 m
MAX. HORIZONTAL REACH	41,1 m
MAX. DOWNWARD REACH	-33,1 m
SECTION NUMBER	5
MIN. UNFOLDING HEIGHT	9,10 m

5RZ51



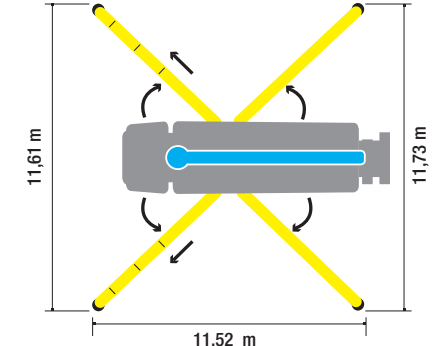
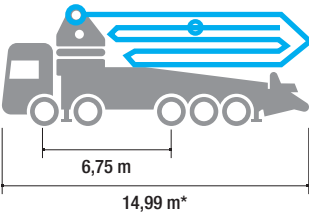
DISTRIBUTION BOOMS	
MAX. VERTICAL REACH	50,1 m
MAX. HORIZONTAL REACH	46,3 m
MAX. DOWNWARD REACH	-37,5 m
SECTION NUMBER	5
MIN. UNFOLDING HEIGHT	10,75 m

6RZ56 SUPERLIGHT



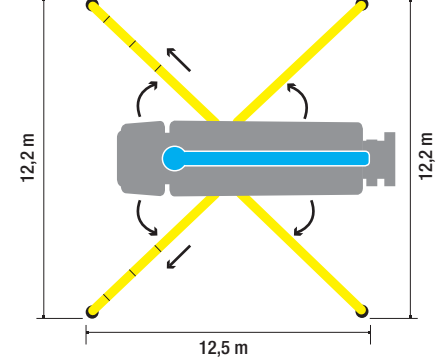
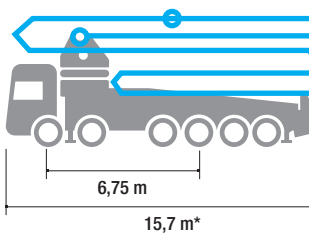
DISTRIBUTION BOOMS	
MAX. VERTICAL REACH	55,2 m
MAX. HORIZONTAL REACH	51,2 m
MAX. DOWNWARD REACH	-39,77 m
SECTION NUMBER	6
MIN. UNFOLDING HEIGHT	11,20 m

6RZ60 SUPERLIGHT



DISTRIBUTION BOOMS	
MAX. VERTICAL REACH	59,2 m
MAX. HORIZONTAL REACH	55,2 m
MAX. DOWNWARD REACH	-43,04 m
SECTION NUMBER	6
PIPELINE	125 mm

6RZ65



DISTRIBUTION BOOMS	
MAX. VERTICAL REACH	64,35 m
MAX. HORIZONTAL REACH	60,35 m
MAX. DOWNWARD REACH	-50 m
SECTION NUMBER	6
PIPELINE	125 mm

SERMAC CONTROL STABILITY

STABILITY CONTROL
FOR TRUCK MOUNTED PUMPS



The **UNI EN 12001: 2012** European regulations provides for the control of the stability of the machine with total or partial opening of the stabilization.

In compliance with the regulations, **SERMAC** has designed and implemented the stability control system **SCS (Sermac Control Stability)** in the **BASIC** and **ADVANCED** versions capable of significantly increasing the degree of safety of the machines and their use.

The **SCS - BASIC** model is applied as standard on the whole range of truck-mounted concrete pumps. The system provides for the complete opening of the stabilizers to safely move the distribution boom.

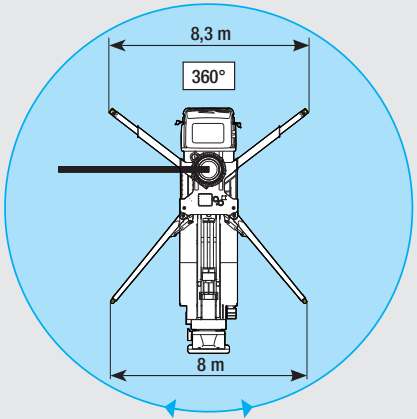
The **SCS - ADVANCED** model is available as an optional and allow to work in total safety even with the partial stabilization opening. Thanks to the constant control of the overturning moment, the system constantly checks the position of the boom and the value of the loads on the stabilizing cylinders. The operator can therefore work in complete safety with the stabilizers partially open in the maximum extension of the boom.

On the equipment, in position with the controls, there are two displays that allow to check the correct opening of the machine and the value of the loads on the stabilizing cylinders. Furthermore, a display on the remote control allow to view the exact position of the boom and the permitted work area.



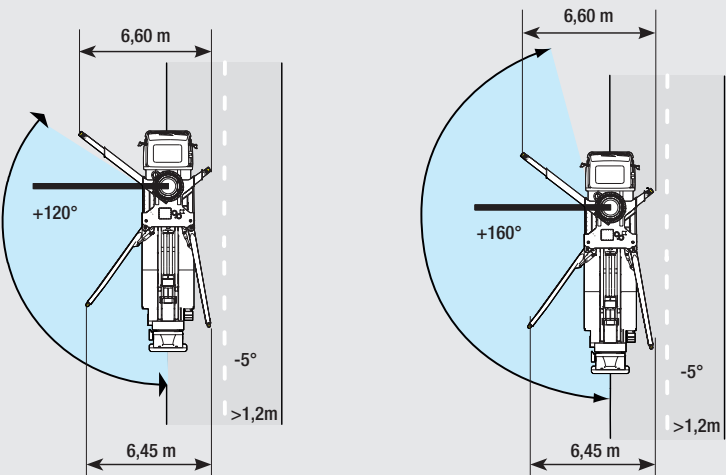
Example of concrete pump model 5RZ46

SCS - BASIC (standard)



Concrete pump 5RZ46
with complete outriggers opening

SCS - ADVANCED (optional)



(+/- 120°) Concrete pump 5RZ46
with partial outriggers opening

(+/- 160°) Concrete pump 5RZ46 with first
section boom open in vertical position



HIGH QUALITY COMPONENTS, MAIN EUROPEAN COMPONENTS



EXCELLENT ASSEMBLY ON ALL TRUCK BRAND AND CUSTOMIZATION

MIXER PUMPS



FIELDS OF APPLICATION

LAYING AND REINFORCEMENT
EXCAVATIONS AND FOUNDATIONS
MASONRIES, TOWN PLANNING
RESIDENTIAL BUILDING



MIXER PUMPS

DISTRIBUTION BOOMS

With "Z" folding, ideal for handling in limited spaces

CONTROLS SYSTEM

Easy to use in all conditions.

PUMPING GROUP

Reliability and high performance

DRUM

Premium quality steel

STABILIZATION

- Operation at the highest levels
- Hydraulically controlled



PLACING BOOMS

HIGH PERFORMANCE TECHNOLOGY FOR EVERY NEEDS



Designed and produced by **SERMAC**, the **TWINSTAR** models are supplied with placing boom “**Z**” folding type made by welded box section.

THE MODELS **TWINSTAR** ARE:

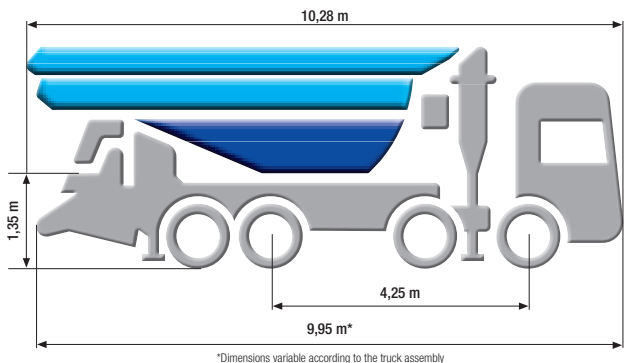
Model: 3724	Model: 4728	Modello: 4732	Model: 4733-5”
boom height pipeline	3 SECTIONS 24 m Ø 100 mm (4”)	boom height pipeline	4 SECTIONS 28 m Ø 100 mm (4”)
		boom height pipeline	4 SECTIONS 32 m Ø 100 mm (4”)
		boom height pipeline	4 SECTIONS 33 m Ø 125 mm (5”)

All joints use hinges with double support pass-through pins that increase resistance and simplify maintenance.

NEW 4732 SUPERLIGHT

SUPERIOR PERFORMANCE:

- 1 Boom high-strength steel S900
- 2 Max. Vertical reach: 31,1 m
- 3 Concrete pipeline Ø 100 mm (4”)
- 4 Drum capacity 8,5 m³
- 5 Water tank 8,5 l
- 6 Continuous boom rotation 370°
- 7 Design load distribution optimized between truck, drum and placing boom



STABILIZATION

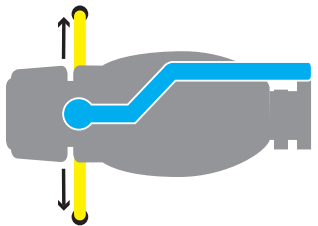
OPERATIONS AT THE HIGHEST LEVELS



The outriggers are hydraulically controlled by two distributors placed on both sides of the equipment. **The lifting cylinders are equipped with hydraulic check valves that ensure stability of position.**

FRONT: **SINGLE HORIZONTAL TELESCOPIC**
REAR: **FIXED**

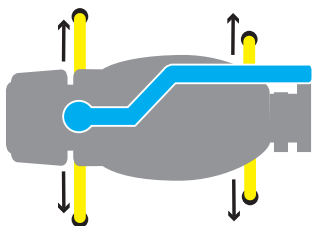
Versatile and compact stabilizations that allow rapid positioning in tight or difficult to access areas. Rear outriggers with fixed extension.



Modello: **3724**

FRONT: **SINGLE HORIZONTAL TELESCOPIC**
REAR: **REAR HORIZONTAL**

Stabilization which provides stability to the equipment with the minimum area engaged: excellent functionality joined to high stability in all working positions guaranteed by modern stabilizers with hydraulic control. Rear outriggers with simple horizontal extension.



Modello: **4728, 4732 SUPERLIGHT, 4733-5”**

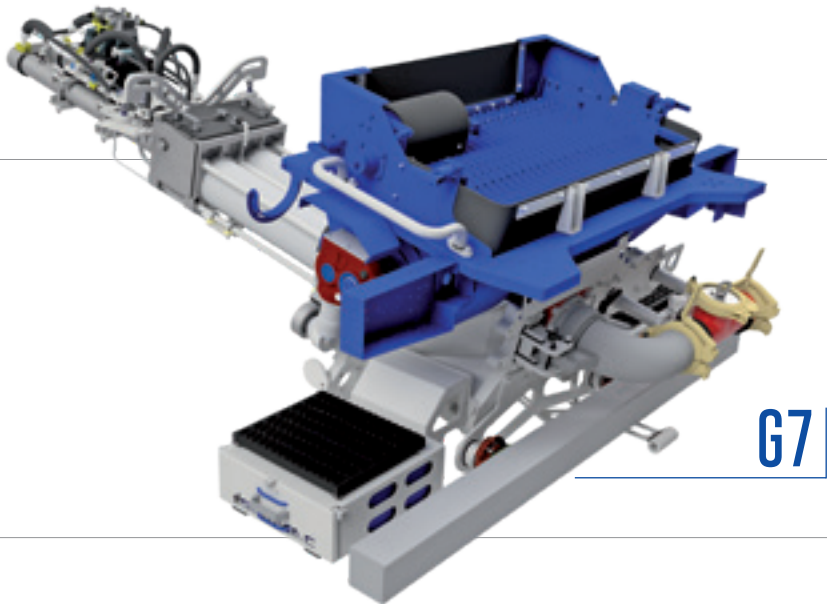
THE DRUM

Double helix drum made by steel with different thickness, high load capacity, made with 4 bands to reduce the concentration of wear, with elliptical bottom and cone reinforcement to attack flange reducer. Decentralized load volume **7 m³ (3724) - 8,5 m³ (4728, 4732) - 9 m³ (4733-5”)** and center of gravity to optimize the balance of the equipment. Rolling rollers of the drums on all **TWINSTAR** models are able to prevent wear of the slopes and structural deformations. Safety catch for the anti-rotation of the drum.



PUMPING GROUP

TOP EFFICIENCY
FOR WEAR PREVENTION



G7

ALL OF **SERMAC** MIXER PUMPS OFFER THE FOLLOWING **BENEFITS**:

- 1 Pumping unit whit open hydraulic circuit
- 2 Concrete S-valve Ø 6” or Ø 7”
- 3 Chrome-lined concrete cylinders of high thickness
- 4 Automatic lubrication of the pumping unit on all moving parts
- 5 Automatic oil lubrication for pumping pistons
- 6 Wears compensation system between plate and ring
- 7 High strength wear parts (S-valve, wear plate, compensation ring)
- 8 Hydraulic pump with variable displacement and constant capacity adjuster
- 9 Excellent performance, reliability and low operating costs

PUMPING UNIT “S6” & “G7”							
MODEL	Model Type	S-valve	Stroke lenght [mm]	Piston Ø [“]	Th. Concrete output (Max) [m³/h]	Concrete pressure (Max) [bar]	Nr. of cycles per minute [‘/min]
3Z24	B	S6	C	07	73	70	48
4Z28 4Z32	B	S6	C	07	73	70	48
	B	G7	C	08	80	80	42
4Z33-5”	B	G7	C	08	80	80	42

B = Mixer pump

C = 1000 mm

07” = Ø 180 mm

08” = Ø 200 mm

*Output and pressure are theoretical data. The max concrete output and the max pressures cannot be reach a the same time.



CONTROL SYSTEM

AT THE OPERATOR’S SERVICE



- 1 JOYSTICK: 3rd and 4th boom section control
- 2 JOYSTICK: 2nd section control and drum rotation
- 3 JOYSTICK: 1st boom section and rotation
- 4 SELECTOR SWITCH: Switch engine on/off
- 5 SELECTOR SWITCH: Engine acceleration/deceleration
- 6 LEVER-OPERATED SELECTOR: Hopper vibrator control
- 7 POTENTIOMETER: Concrete flow rate adjustment
- 8 SELECTOR SWITCH: Slow/fast selection control
- 9 MUSHROOM-SHAPED BUTTON: Emergency
- 10 SELECTOR SWITCH: Horn control
- 11 SELECTOR SWITCH: Stop
- 12 SELECTOR SWITCH: Pumping/suctioning control
- 13 SELECTOR SWITCH: Auxiliary functions ON-OFF
- 14 CAP
- 15 SOCKET: Serial cable connection

RADIO REMOTE EQUIPMENT

The boom and pump functions are managed by an ergonomic and lightweight **proportional radio remote control** with: double speed boom movement, automatic free frequency research, concrete charge variation, RPM regulation control, start-up and emergency stop. The standard equipment includes two proportional remote controls connected in the cabin.



PROPORTIONAL BOOM DISTRIBUTION

The movements of the boom are controlled by the proportional distributor that enables to obtain the maximum maneuver accuracy by a radio control with proportional.



ELECTRONIC MANAGEMENT CONTROL

The electronic management control operation of the mixer is obtained by the adjusting of automatic control speed drive (CSD) system that maintain the rotation of the drum constant to the engine speed variation during the transfer.



PROPORTIONAL STABILIZATION DISTRIBUTION

The pumping unit stabilizers are hydraulically managed by two distributors placed on both sides of the pump to ensure a safe use with two hands. The lifting jacks are fitted with check valves to hold the cylinders in position.



REAR CONTROL BOX

The rear control panel (complete with all of the functions of the machine) is mounted on the hopper side and protected by lockable casing.

THE HOPPER

EXCELLENT GEOMETRY FOR CONCRETE PUMPING:

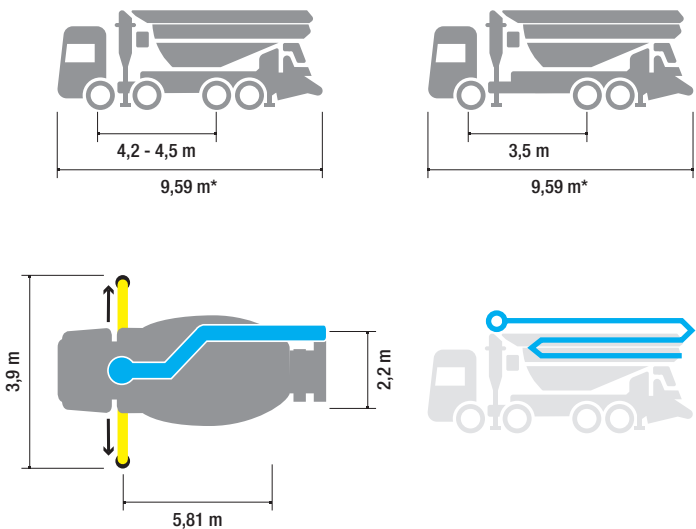
- Hopper made of wear-resistant steel with a grille equipped with an electric vibrator
- High torque of the mixer allowing operations under the most severe conditions with low-slump concrete.
- Discharge of the concrete automatic and controlled by a level feeler
- Optimum combination between the casting steel conveying chamber and the mixing shaft equipped with blades with specific helical geometry
- Large capacity hopper 450 l (S6)
- Large capacity hopper 500 l (G7)



TWINSTAR

MIXER PUMPS

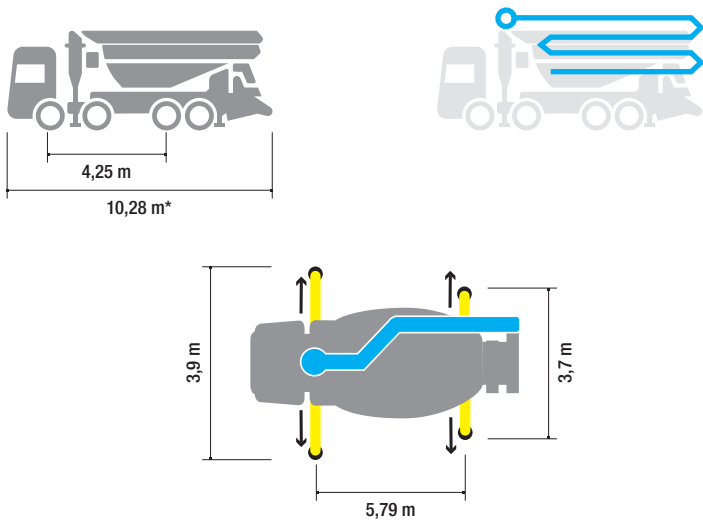
3Z24



DISTRIBUTION BOOMS	
MAX. VERTICAL REACH	24 m
MAX. HORIZONTAL REACH	20 m
MAX. DOWNWARD REACH	-13,7 m
SECTION NUMBER	3
MIN. UNFOLDING HEIGHT	6,9 m

MIXER PUMPS	
NOMINAL CAPACITY	7 m³
GEOMETRICAL DRUM VOLUME	12 m³
NUMBER OF RPM	0-16
WATER TANK CAPACITY	800 l

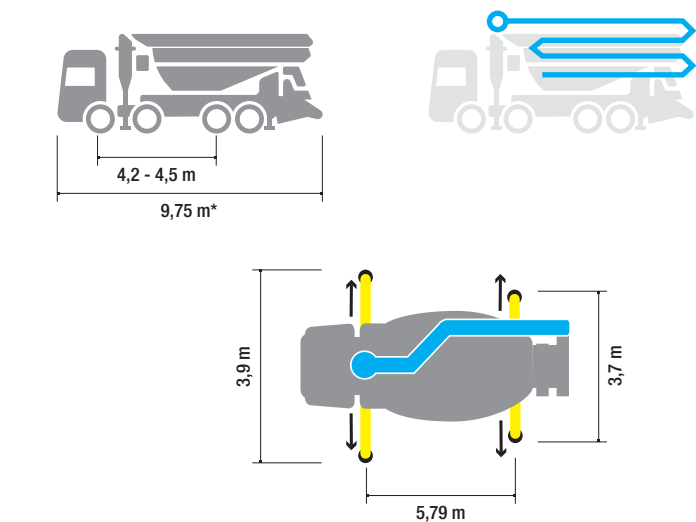
4Z32 SUPERLIGHT



DISTRIBUTION BOOMS	
MAX. VERTICAL REACH	31,1 m
MAX. HORIZONTAL REACH	26,9 m
MAX. DOWNWARD REACH	-18,8 m
SECTION NUMBER	4
MIN. UNFOLDING HEIGHT	7,1 m

MIXER PUMPS	
NOMINAL CAPACITY	8,5 m³
GEOMETRICAL DRUM VOLUME	14 m³
NUMBER OF RPM	0-16
WATER TANK CAPACITY	800 l

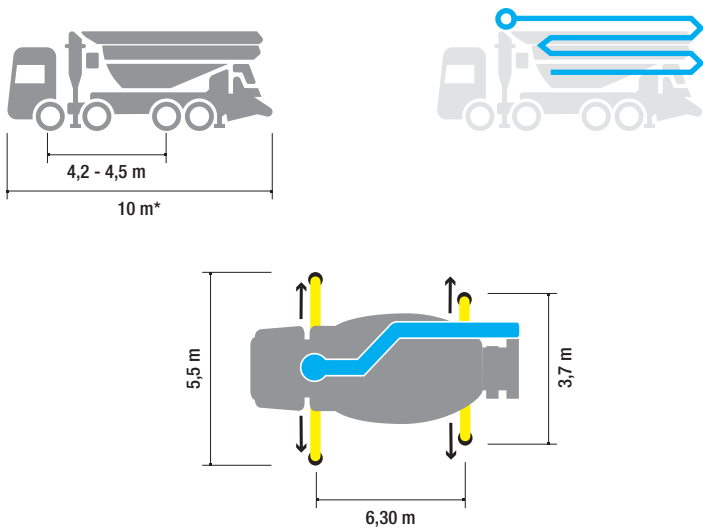
4Z28



DISTRIBUTION BOOMS	
MAX. VERTICAL REACH	28,1 m
MAX. HORIZONTAL REACH	24,1 m
MAX. DOWNWARD REACH	-18 m
SECTION NUMBER	4
MIN. UNFOLDING HEIGHT	6,35 m

MIXER PUMPS	
NOMINAL CAPACITY	8,5 m³
GEOMETRICAL DRUM VOLUME	14 m³
NUMBER OF RPM	0-16
WATER TANK CAPACITY	800 l

4Z33-5"



DISTRIBUTION BOOMS	
MAX. VERTICAL REACH	32,2 m
MAX. HORIZONTAL REACH	28,2 m
MAX. DOWNWARD REACH	-22 m
SECTION NUMBER	4
MIN. UNFOLDING HEIGHT	7,4 m

MIXER PUMPS	
NOMINAL CAPACITY	9 m³
GEOMETRICAL DRUM VOLUME	14 m³
NUMBER OF RPM	0-16
WATER TANK CAPACITY	650 l



SERMAC CONTROL STABILITY

STABILITY CONTROL FOR MIXER PUMPS

The **UNI EN 12001:2012** European regulations provides for the control of the stability of the machine with total or partial opening of the stabilization.

In compliance with the regulations, **SERMAC** has designed and implemented the stability control system **SCS (Sermac Control Stability)** in the **BASIC** and **ADVANCED** versions capable of significantly increasing the degree of safety of the machines and their use.

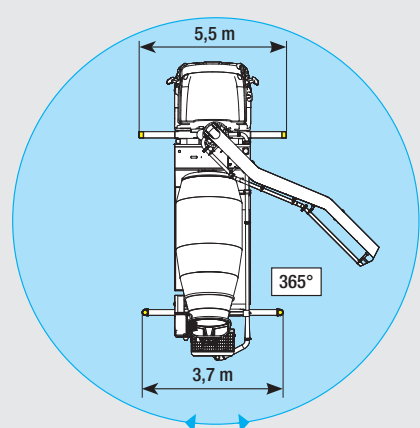
The **SCS - BASIC** model is applied as standard on the whole range of mixer pumps **TWINSTAR**. The system provides for the complete opening of the stabilizers to safely move the distribution boom.

The **SCS - ADVANCED** model is available as an optional and allow to work in total safety even with the partial stabilization opening. Thanks to the constant control of the overturning moment, the system constantly checks the position of the boom and the value of the loads on the stabilizing cylinders. The operator can therefore work in complete safety with the stabilizers partially open in the maximum extension of the boom. On the equipment, in position with the controls, there are two displays that allow to check the correct opening of the machine and the value of the loads on the stabilizing cylinders. Furthermore, a display on the remote control allow to view the exact position of the boom and the permitted work area.



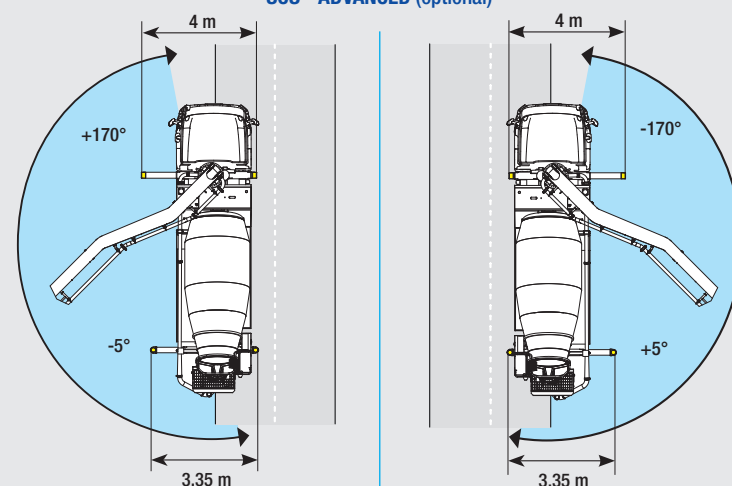
Example of mixer pump model **4Z33-5"**

SCS - BASIC (standard)



Mixer pump 4Z33-5" with complete outriggers opening

SCS - ADVANCED (optional)



(+/- 170°) Mixer pump 4Z33-5" with partial outriggers opening

STATIONARY BOOM



TRAILER PUMPS



FIELDS OF APPLICATION

LARGE CIVIL PROJECTS

SKYSCRAPERS

TOWERS AND FACILITIES

POWER STATIONS



TRAILER PUMPS



The **STAR series 8"** and **STAR series 6"** trailer concrete pumps allow high flow of concrete both in vertical and in horizontal plan; results obtained from research and tests on side, in severe working conditions for any type of use.

SERIE 8" ST

Engine power reaches **180 kW** (diesel engine), with max theoretical concrete output till **120 m³/h** (rod side) and pressure on concrete till **172 bar** (piston side).*

*Output and pressure are theoretical data. The max concrete output and the max pressures cannot be reach a the same time.



SERIE 6" ST

Engine power reaches **54 kW** (diesel engine), with max theoretical concrete output till **70 m³/h** (rod side) and pressure on concrete till **50 bar** (rod side).*



PUMPING GROUPS

RELIABILITY AND HIGH PERFORMANC

The pumping unit uses a specific concrete S-valve that completely satisfies Customer's demands of capacity and pressure.

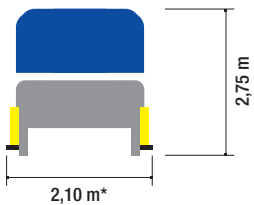
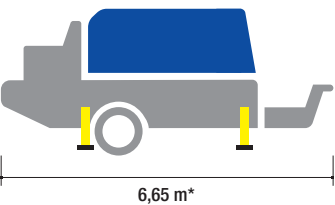
THE HOPPER

EXCELLENT GEOMETRY FOR CONCRETE PUMPING

- Hopper made of wear-resistant steel with a grille equipped with an electric vibrator
- High torque of the mixer allowing operations under the most severe conditions with low-slump concrete
- Optimum combination between the casting steel conveying chamber and the mixing shaft equipped with blades with specific helical geometry
- Large capacity 550 l



STAR SERIE 8" ST80-100-120



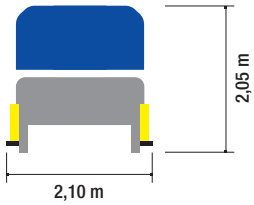
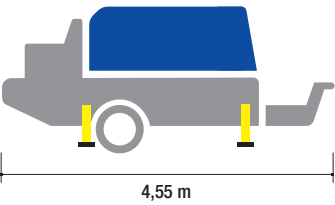
*Indicative measures



SERIE 8" PUMPING UNIT - SPECIFICATIONS					
	ST 80	ST 80 HP	ST 100	ST 100 HP	ST 120
Th. Concrete output (max)* Rod side	80 m³/h (104 yd³/h)	80 m³/h (104 yd³/h)	100 m³/h (131 yd³/h)	100 m³/h (131 yd³/h)	120 m³/h (157 yd³/h)
Th. Concrete output (max)* Piston side	53 m³/h (69 yd³/h)	52 m³/h (68 yd³/h)	66 m³/h (86 yd³/h)	65 m³/h (85 yd³/h)	79 m³/h (103 yd³/h)
Concrete pressure (max)* Rod side	81 bar 1174 psi	101 bar 1450 psi	81 bar 1174 psi	101 bar 1450 psi	81 bar 1174 psi
Concrete pressure (max)* Piston side	137 bar 1986 psi	172 bar 2479 psi	137 bar 1986 psi	172 bar 2479 psi	137 bar 1986 psi
No. of strokes (max)* Rod side	27	21	27	27	32
No. of strokes (max)* Piston side	18	14	18	17	21
Piston Ø	200 mm	200 mm	200 mm	200 mm	200 mm
Concrete rods	1,600 mm	2,000 mm	2,000 mm	2,000 mm	2,000 mm
Powered by	AUS D/E	AUS D/E	AUS D/E	AUS D/E	AUS D/E
Diesel auxiliary engine	130 KW	130 KW	130 KW	180 KW	180 KW
Electric auxiliary engine	110 KW	110 KW	110 KW	160 KW	160 KW

* Output and pressure are theoretical data. The max concrete output and the max pressures cannot be reach a the same time.

STAR SERIE 6" ST40-70



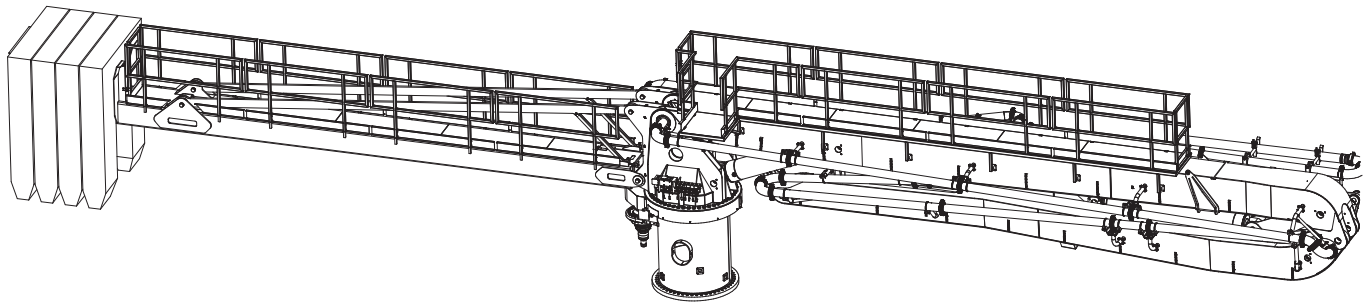
SERIE 6" PUMPING UNIT - SPECIFICATIONS		
	ST 40	ST 70
Th. Concrete output (max)* Rod side	40 m³/h (52 yd³/h)	70 m³/h (92 yd³/h)
Concrete pressure (max)* Rod side	54 bar 783 psi	50 bar 725 psi
Number of strokes (max)* Rod side	26	46
Piston Ø	180 mm	180 mm
Concrete rods	1,000 mm	1,000 mm
Powered by	AUX D/E	AUX D/E
Diesel auxiliary engine	KUBOTA 54 KW	KUBOTA 54 KW
Electric auxiliary engine	45 KW	45 KW

* Output and pressure are theoretical data. The max concrete output and the max pressures cannot be reach a the same time.

STATIONARY BOOMS



★ SPECIAL PROJECTS - STATIONARY BOOM BS57



THE RANGE OF STATIONARY BOOM BEARING STRUCTURES

- Assembly on self-climbing column: standard square section boxed column with self-climbing system, applicable both on a mobile (with ballast) or on a fixed base
- Assembly on fixed base column: column mounted on a base anchored to the ground with special floor pullers.
- Assembly on crane column: anchoring to a crane column inside or outside the building (not supplied directly by SERMAC). The S-DESIGN office designs and manufactures the adaptation interface.



STATIONARY BOOMS - SPECIFICATIONS

BS57	
Ø Concrete pipeline	5" - 125 mm
Max. Vertical reach	56,35 m
Max. Horizontal reach	56 m
Max. Downward reach	47,7 m
Number of boom sections	6
1° Boom section articulation	0-90°
2° Boom section articulation	0-180°
3° Boom section articulation	0-180°
4° Boom section articulation	0-225°
5° Boom section articulation	0-180°
6° Boom section articulation	0-90°
Boom rotation	360° - 0 / -5°
Rubber end hose length	3 m

STATIONARY BOOMS BS

The **SERMAC** placing booms series **BS** have the folding type “**Z**” or “**RZ**” from 4 to 6 sections are able to satisfy the specific requests of the customer in terms of maximum horizontal and vertical extension of the boom.

MAIN TECHNICAL CHARACTERISTICS:

- Continuous turret rotation 370°
- Fast joint of the underturret group to the bearing structure (turret or frame work column) with four fixing pivots which can be disassembled and two fix centring pivots
- Concrete pipeline Ø 125 mm (5") and rubber end hose
- Two Proportional radio remote control for the boom manoeuvring

- Hydraulic power unit with three-phase electric motor of adequate power for the dimension of the placing boom that can be used with different supply voltages (380V – 415V – 440V)
- Working platform on 1st section for assembling and maintenance
- Concrete counterweight

OPTIONAL EXTRAS:

- Automatic grasing system
- Automatic release of end rubber hose
- Stop-flow



AFTER SALES SERVICE

PROFESSIONALISM AND COMPETENCE



ORIGINAL SPARE PARTS

EFFICIENCY AND SPEED



AFTER SALES SERVICE

The after sales assistance is guaranteed by our qualified staff and it offers a fast and efficient service in any place and time. This ensures constant first-class global support in terms of the rapid supply of original spare parts, technical assistance and staff training.

The **SERMAC after-sales service** is part of the aim of guaranteeing a highly efficient Assistance Service, ready to locally intervene with speed and competence. The network of authorized **SERMAC** service points and distributors (spread throughout Italy, as well as in all continents) ensures an effective global service of first quality in terms of sales, technical assistance, problem diagnosis and supply of original spare parts. Each Service Center is constantly equipped with a spare parts warehouse that is suitable for local needs and guarantees fast and direct supply.

The **SERMAC** after-sale service, carried out and professionally organized by a constantly trained and specialized technical staff, is able to offer immediate response in terms of support and advice directly on the territory, guaranteeing the maximum level of satisfaction of the machine after the purchase. **SERMAC**, synonymous with strength and innovation, is also confirmed in post-sales as the ideal partner for companies projected into the future.



AFTER-SALES:

E-mail: aftersales@sermacpumps.com



ORIGINAL SPARE PARTS A CERTAIN CHOICE

SERMAC only supplies genuine spare parts and protects its customers by certifying the main wear parts with an electronically stamped trademark. The use of original **SERMAC** spare parts guarantees they are high quality and easy to interchange, which ensures that they have a long life and minimises the cost of replacing spare parts.

SERMAC's workshops and authorized distributors ensure the assembly of original spare parts for both ordinary and extraordinary maintenance.

SERMAC provides an excellent spare parts service as it has an extensive stock-holding of spare parts. All orders that are placed during normal working hours are dispatched on the same day using national and international express-courier services.



SPARE PARTS:

E-mail: spareparts@sermacpumps.com



CASE HISTORY





For further information visit the web site:

sermacpumps.com

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