CIFA®

A ZOOMLION COMPANY

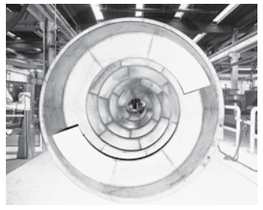
WHY CIFA

Truck Mixer Pumps

WHY CIFA

WE INVENTED AND REINVENTED THE TRUCK MIXER PUMP

It was 1973 when Cifa became the first company to produce the Truck Mixer Pumps.
Thanks to the design and to the technology of the product, today we proudly say that we have been able to produce and sell more than 6.000 truck mixer pumps, transporting and pumping millions of concrete cubic meters all over the world. But we aren't stopping here: we have designed and brought the carbon fiber technology to the boom structure: we reinvented the truck mixer pump once again.



PLACING BOOMS
Available lengths to reach many distances: 24, 25, 28 and 32 meters.

STABILIZATIONS
Single or double telescopic system on front outriggers together with fixed system on rear outriggers in order to guarantee a safe stabilization in a small area.

PUMPING UNITS
Two open loop types and one closed loop type according to the desired way of pumping.

DRUMS
Two types of drums are available according to client's needs:
7 and 9 m³.

CONTROL SYSTEMS
All controls are designed and positioned to make the job easier and to speed up all the operations.

PAINTING

Customized painting on demand

MADE IN ITALY

CIFA truck mixers are 100% made in Italy.
All the components of the CIFA truck mixers are Italian or German brand

MOUNTED ON ALL TRUCK BRANDS

CIFA truck mixer pumps can be mounted on all truck brands. According to CIFA truck specifications documentation

LEASING

ZOOMLION CAPITAL
FINANCIAL SERVICES

Available in Italy, Russia, China, South Africa, Australia, USA

SERVICES

CIFA ACADEMY

Training for operators

MAGNUM. ALL IN ONE.

VERSATILITY AND FLEXIBILITY:
The different configurations of the booms on CIFA truck mixer pumps ensure the greatest operative versatility and enable to reach almost any part of the construction yard, even those accessible with the most difficulty. Complete working flexibility together with great working speed, allows the complete extension of the boom and its perfect positioning in few minutes.

PLACING BOOM

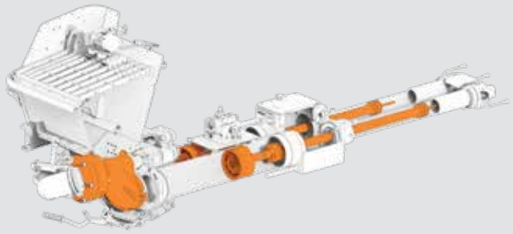
STRENGHT AND RELIABILITY:
The booms mounted on CIFA truck mixer pumps combine both strength and reliability. Each section of boom has been designed for maximum structural efficiency and fatigue strength. These advanced booms reduce to a minimum the areas subjected to stress intensification when in operation.

STABILIZATION SYSTEM

OUTRIGGERS:
Outriggers perfectly ensure stability and allow maximum accessibility. The stabilization system consist of fixed rear extensions combined with telescopic single extension outriggers on the front for MK 24L, MK 25H, MK 28E models or front telescopic double extension for MK 28L-4", MK 28L-5" and MK 32L models.

Equipped with the 7" S-valve, completely removable, the pumping unit ensures gentle, continuous and regular flow. This technology guarantees an extremely efficient system for pumping different types of concrete, with aggregates of all sizes, reducing the number of cycles per minute while maintaining the same flow rate, thus ensuring less wear and longer life.

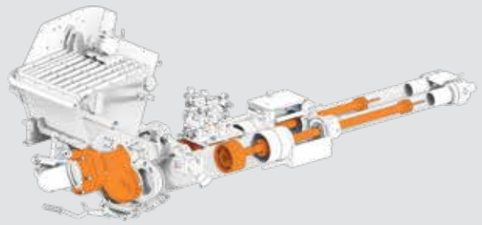
PUMPING UNIT



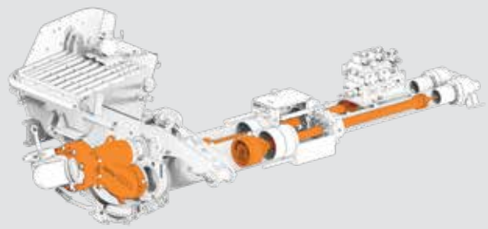
PB607 EPC
Closed Loop type

"S" VALVE:
The structure is made with varying thickness to achieve maximum resistance to wear even when using difficult types of concrete.

WEAR RING AND WEAR PLATE:
The ring and the plate are made of special anti wear material against abrasion and stress due to the concrete flow.



PB607
Open Loop type



PB808
Open Loop type

DRUM

ROLLERS AND SAFETY LOCK
Magnums with 7 m³ capacity drums are equipped with single roller, while Magnums with 9m³ drums, due to their higher capacity, come with dual rollers.
All the drums have a special anti-rotation lock that ensures greater safety for the operator during extraordinary maintenance.

LOADING AND UNLOADING AREA: INCREASED FUNCTIONALITY
The elements of the loading and unloading hopper, made of wear-resistant materials, are designed to obtain optimal geometries for efficiency and functionality, meaning minimum concrete blockage chance.

ELECTRONIC OPERATION CONTROL: ALL FUNCTIONS ALWAYS UNDER CONTROL
The electronic operation control by CSD (Constant Speed Drive) keeps the drum rotation constant by varying the hydraulic motor revotutions.

ANTI WEAR MATERIAL
The drum and blades are made of high resistance antiwear steel with thickness from three (3) millimeters in steel 450HB light version to four (4) millimeters in 30 Mn B5.

POWER TRANSMISSION
The main hydraulic unit can be powered through 3 ways, according to the client's needs: PTO engine, PTO gearbox.

STABILITY OF THE MACHINE
The 3 centre of gravities are designed to ensure the maximum stability to the machine. the drum axle is properly sideshifted to ensure an optimal weight balancing of the machine in all directions and in every concrete loading condition.

CONTROL SYSTEMS

BOOM PROPORTIONAL DISTRIBUTOR
Ergonomic hydraulic controls for boom and stabilization system.

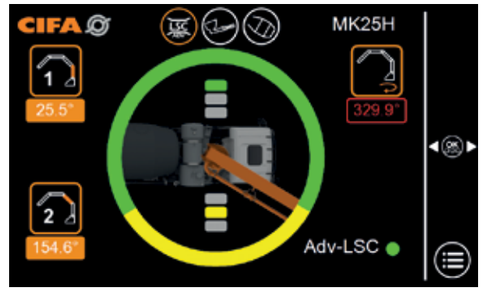
REAR CONTROL PANEL
Capsense control panel positioned on the rear side for the drum and pumping unit control, including pressure manometers.

REMOTE CONTROL
Comfortable and lightweight for the boom control and for the management of the main functions of the machine.

CABIN CONTROLS
Capsense electro-hydraulic controls placed in the cabin to adjust all main functions of the truck mixer pump and the motors.

DETACHABLE ELECTRICAL SYSTEM
The electrical system can be detached for easy maintenance.

LSC LIGHT STABILITY CONTROL
(according to EN 12001:2012)



LSC is available on demand

STABILITY CONTROL SYSTEM

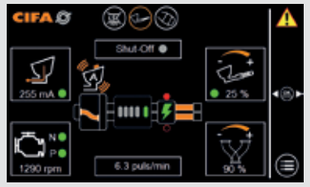
CARBOTECH

Electronic closed loop version

Smartronic®

Smartronic, available with closed loop pumping unit PB 607 EPC, is the most advanced electronic management system for truck mixer pumps in the market. It simplifies operations and collects data to manage all the vehicle functions in the easiest way.

COUNTERS
The system collects and saves data to keep track of the work done.



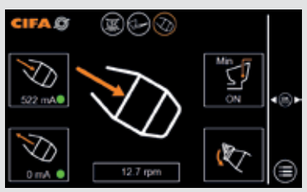
PUMPING UNIT MANAGEMENT AND DRUM
The system shows all the pumping unit and drum data, in order to monitor the main performance.

DIAGNOSTICS
The system provides a detailed analysis of the working phase, detecting clearly errors and failures, reducing in this way potential any machine downtime.

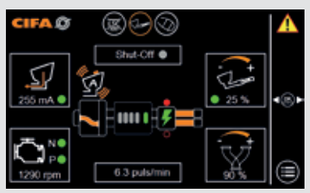
Smartronic Silver is supplied, as standard, in MK25H closed loop pumping unit.
Smartronic Gold is supplied, as standard, in MK28E closed loop pumping unit.

Easytronic

EASYTRONIC is the user-friendly control system made by CIFA to easy manage the truck pump during the operation at the job site. Furthermore, thanks to EASYTRONIC, the operator receives the most important data from the machine, such as:



DRUM DATA
The drum rotation and drum r.p.m.



PUMPING UNIT DATA
The pumping unit and engine r.p.m.

COUNTERS
The system collects and saves the data to know the working hours.

ENERGYA MK28E

ENERGYA SERIES
ELECTRIC TRUCK MIXERS PUMPS

BATTERY	
Technology	Lithium-ion
Voltage	288 V
Capacity	36 kWh/125Ah

CHARGING MODE	
Standard charging mode	single phase 220V - 16A
High speed charging mode	400Vac (Three phase) - 35kW

PUMPING UNIT TECHNICAL DATA		
Model		**PB607EPC**
Max. theoretical output	m³/h	61
Max. pressure on concrete	bar	71
Max. number of cycles per minute	n°	32
Concrete cylinders (diam. x stroke)	mm	200x1000
Concrete hopper capacity	l	400
"S" valve diameter	"	7

CONCRETE MIXER TECHNICAL DATA		
Model		**RH 80**
Nominal capacity	m³	7
Drum geometric volume	m³	12,8
Filling ratio	%	55
Max. drum speed	r.p.m.	14
Pressurized water tank capacity	l	600
Liter-counter scale	l	0-500

DATA SHEET

TRUCK MIXERS PUMPS

MK 24L (3 SECTIONS)

AXLES 3-4 - 80

		DRUM		PUMPING UNIT		PLACING BOOM	
		80		PB 607 S7			
NOMINAL CAPACITY	m³	7	MAX THEORETICAL OUTPUT	m³/h	61	PIPELINE DIAMETER	mm	100
DRUM GEOMETRIC VOLUME	m³	12,8	MAX PRESSURE ON CONCRETE	bar	71	MAX VERTICAL REACH	m	23,15
FILLING RATIO	%	55	MAX CYCLES PER MIN.	n	32	MAX HORIZONTAL DISTANCE	m	19,15
MAXIMUM DRUM SPEED	r.p.m.	14	CONCRETE CYLINDERS DIAM.	mm	200	SECTIONS	n	3
WATER TANK CAPACITY	l	600	STROKE LENGTH	mm	1000			
			CONCRETE HOPPER CAPACITY	l	400			

MK 25H (4 SECTIONS)

AXLES 3-4 - 80

		DRUM		PUMPING UNIT		PLACING BOOM	
		80		PB 607 EPC	PB 607 S7			
NOMINAL CAPACITY	m³	7	MAX THEORETICAL OUTPUT	m³/h	61	61	PIPELINE DIAMETER	mm	100
DRUM GEOMETRIC VOLUME	m³	12,8	MAX PRESSURE ON CONCRETE	bar	71	71	MAX VERTICAL REACH	m	24,2
FILLING RATIO	%	55	MAX CYCLES PER MIN.	n	32	32	MAX HORIZONTAL DISTANCE	m	20,2
MAXIMUM DRUM SPEED	r.p.m.	14	CONCRETE CYLINDERS DIAM.	mm	200	200	SECTIONS	n	4
WATER TANK CAPACITY	l	600	STROKE LENGTH	mm	1000	1000			
			CONCRETE HOPPER CAPACITY	l	400	400			

MK28H (4 SECTIONS)

AXLES 3-4 - 80

		DRUM		PUMPING UNIT		PLACING BOOM	
		80		PB607 EPC	PB 607 S7			
NOMINAL CAPACITY	m³	7	MAX THEORETICAL OUTPUT	m³/h	61	61	PIPELINE DIAMETER	mm	100
DRUM GEOMETRIC VOLUME	m³	12,8	MAX PRESSURE ON CONCRETE	bar	71	71	MAX VERTICAL REACH	m	27,15
FILLING RATIO	%	55	MAX CYCLES PER MIN.	n	32	32	MAX HORIZONTAL DISTANCE	m	23,27
MAXIMUM DRUM SPEED	r.p.m.	14	CONCRETE CYLINDERS DIAM.	mm	200	200	SECTIONS	n	4
WATER TANK CAPACITY	l	600	STROKE LENGTH	mm	1000	1000			
			CONCRETE HOPPER CAPACITY	l	400	400			

MK 28L-4" (4 SECTIONS)

AXLES 4 - 80 / 115

		DRUM		PUMPING UNIT		PLACING BOOM	
		80	115	PB 607 S7	PB 808 S7			
NOMINAL CAPACITY	m³	7	9	MAX THEORETICAL OUTPUT	m³/h	61	81	PIPELINE DIAMETER	mm	100
DRUM GEOMETRIC VOLUME	m³	12,8	14,5	MAX PRESSURE ON CONCRETE	bar	71	81	MAX VERTICAL REACH	m	28,1
FILLING RATIO	%	55	69	MAX CYCLES PER MIN.	n	32	43	MAX HORIZONTAL DISTANCE	m	24,1
MAXIMUM DRUM SPEED	r.p.m.	14	14	CONCRETE CYLINDERS DIAM.	mm	200	200	SECTIONS	n	4
WATER TANK CAPACITY	l	600	800	STROKE LENGTH	mm	1000	1000			
				CONCRETE HOPPER CAPACITY	l	400	500			

MK 28L-5" (4 SECTIONS)

AXLES 4 - 80 / 115

		DRUM		PUMPING UNIT		PLACING BOOM	
		80	115	PB 607 EPC	PB 808 S7			
NOMINAL CAPACITY	m³	7	9	MAX THEORETICAL OUTPUT	m³/h	61	81	PIPELINE DIAMETER	mm	125
DRUM GEOMETRIC VOLUME	m³	12,8	14,5	MAX PRESSURE ON CONCRETE	bar	71	81	MAX VERTICAL REACH	m	28,4
FILLING RATIO	%	55	69	MAX CYCLES PER MIN.	n	32	43	MAX HORIZONTAL DISTANCE	m	24,4
MAXIMUM DRUM SPEED	r.p.m.	14	14	CONCRETE CYLINDERS DIAM.	mm	200	200	SECTIONS	n	4
WATER TANK CAPACITY	l	600	800	STROKE LENGTH	mm	1000	1000			
				CONCRETE HOPPER CAPACITY	l	400	500			

MK 28E (4 SECTIONS)

AXLES 4 - 80

		DRUM		PUMPING UNIT		PLACING BOOM	
		80		PB 607 EPC			
NOMINAL CAPACITY	m³	7	MAX THEORETICAL OUTPUT	m³/h	61	PIPELINE DIAMETER	mm	125
DRUM GEOMETRIC VOLUME	m³	12,8	MAX PRESSURE ON CONCRETE	bar	71	MAX VERTICAL REACH	m	27,150
FILLING RATIO	%	55	MAX CYCLES PER MIN.	n	32	MAX HORIZONTAL DISTANCE	m	23,274
MAXIMUM DRUM SPEED	r.p.m.	14	CONCRETE CYLINDERS DIAM.	mm	200	SECTIONS	n	4
WATER TANK CAPACITY	l	600	STROKE LENGTH	mm	1000			
			CONCRETE HOPPER CAPACITY	l	400			

MK 32L (4 SECTIONS)

AXLES 4 - 115

		DRUM		PUMPING UNIT		PLACING BOOM	
		115		PB 607 S7	PB 808 S7			
NOMINAL CAPACITY	m³	9	MAX THEORETICAL OUTPUT	m³/h	61	81	PIPELINE DIAMETER	mm	100
DRUM GEOMETRIC VOLUME	m³	14,5	MAX PRESSURE ON CONCRETE	bar	71	81	MAX VERTICAL REACH	m	31,2
FILLING RATIO	%	69	MAX CYCLES PER MIN.	n	32	43	MAX HORIZONTAL DISTANCE	m	27,2
MAXIMUM DRUM SPEED	r.p.m.	14	CONCRETE CYLINDERS DIAM.	mm	200	200	SECTIONS	n	4
WATER TANK CAPACITY	l	800	STROKE LENGTH	mm	1000	1000			
			CONCRETE HOPPER CAPACITY	l	400	500			

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Distributor

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