



COLDLAYTM

MIXING EQUIPMENT

Specially developed for :

- Cold Emulsion Asphalt Production
- Ready Mix Concrete Production
- Organic and Inorganic Soil Stabilisation
- Hydraulic Bound Materials



Bertoli Mixing Equipment.

The Bertoli mixing equipment has been specially developed for the production of all types of Concretes, cold emulsion asphalts and cold regeneration and soil inertizations.



The complete range of Bertoli equipment can be configured as either a super mobile mixing plant with a variety of transportable options available, or as a static mixing plant for all types of ready mix concrete and cold emulsion asphalt production.

The mobile solutions can be configured as: Self Loading, Chassis Mounted, Trailer mounted and a Roll on Roll off solution is also available with certain models.

Each piece of equipment is available with a variety of options and can be configured to mix all types of ready mix concrete and cold emulsion asphalts from a single machine, offering the flexibility needed to meet industries ever demanding requirement for versatile cost effective solutions for concrete and asphalt production.

The Bertoli range of solutions start from the ZS210, which is capable of producing 10cmt's per hour of mixed material, up to the Innovative Ecotech 150 capable of producing up to 150 cmt's per hour.

All the Bertoli equipment is manufactured to the highest standards to meet industries demanding standards, making the Bertoli equipment a truly versatile, flexible, cost effective solution for all your mixing requirements.

ZS Series Super Mobile Mixing Equipment



- Cold Emulsion Asphalt Production
- Ready Mix Concrete Production
- Organic and Inorganic soil stabilisation Production



Super Mobile Mixing Equipment



- Cold Emulsion Asphalt Production
- Ready Mix Concrete Production
- Organic and Inorganic soil stabilisation Production

Cold Emulsion Asphalts



Soil stabilisation

Ready Mix Concrete



ZS Series Mixing Equipment



SERIE ZS

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SERIE ZS

The ZS line of systems is the feather in Bertoli's cap. The ZS line is a series of mobile systems for the production of concrete and mortars in general, designed to fill every conceivable need in terms of system size, production rate and for practical solutions for unloading the product. The quality of final product of ZS Line has obtained from authoritative Swiss institute IVM SA, world-wide acknowledged, which verified the conformity to European laws requisites.

1) VERSATILITY

Due to their construction design, Series ZS systems can transport all the elements necessary for making concrete: inerts, cement, water and chemical additives are carried separately, in suitable containers, and proportionally and continuously extracted following the parameters selected by the user through an on-board computer.

2) SIMPLICITY OF USE

Thanks to its PLC control system, Series ZS systems pass simply from one step to the next in the work flow, from quality production, to cleaning without waste and maintenance.

3) ECOCOMPATIBLE

Due to their construction characteristics, Series ZS systems are suitable for the recovery of materials destined for landfill disposal, such as mixed cements regenerated from masonry rubble or milled materials regenerated with emulsions.

4) PLANT TRANSPORT

Thanks to their configurability, Series ZS systems are easily transportable. The SERIES ZS is available:

- a) fixed-mounted on a truck;
- b) as an independent unit.

The SERIES ZS can also be mounted on railway cars.

5) JOB SITE AUTONOMY

SERIES ZS systems are completely autonomous. They have their own engine and, due to their design, they provide autonomous management of the work flow and, thus, can be used on the job site as independent units.

6) QUALITY

SERIES ZS systems allow obtaining a high-quality final product through computerized control of the electro-hydraulic system for the regulation of the two inert flows, the sophisticated positive displacement system for injecting water, the advanced system for cement extraction and weighing with load cells and the management of chemical additives.

Serie ZS systems transport all the elements needed for production separately: water, cement, inerts and, if the case, additives in suitable storage containers. In this way, the operator can produce exactly WHAT he wants, WHERE he wants and in the QUANTITY he wants.



ZS1260 on the job site



ZS210 on the job site



ZS Series Mixing Equipment



SERIE ZS

Serie ZS systems have a mixer designed for central unloading and have a greater mixer height than all other systems of the same type in existence today. This means that they can meet any need for the extraction and pouring of the finished product. In fact, depending on the specific ZS model, the mixer can be interfaced with different extraction and conveying systems. Either a fixed-length or telescoping final conveyor belt can be used. Either a fixed-length or telescopic channel can be used. Finally, even the mixer itself can be made suitable for the purpose.



SERIE ZS - SUMMARY TABLE						
		ZS210	ZS640	ZS860	ZS1060	ZS1260
SYSTEM TYPE:	MOBILE	x	x	x	x	x
POWER TYPE:	AUTONOMOUS DIESEL/HYDRAULIC	x	x	x	x	x
MODE	FIXED-MOUNTED ON THREE-AXLE TRUCK		o			
	FIXED-MOUNTED ON FOUR-AXLE TRUCK			o	o	o
	INTERCHANGEABLE WITH HOOK ON 4 AXLES	x	o	o		
	INTERCHANGEABLE WITH PINS ON 4 AXLES	x	o	o	o	o
	RESTING ON A TIPPABLE BOX	o	o			
	WITH SUITABLE TROLLEY	o				
	RAILWAY CAR	o	o	o	o	o
AGGREGATE CAPACITY	2 M ³	x				
	6 M ³		x			
	8 M ³			x		
	10 M ³				x	
	12 M ³					x
PRODUCTIVITY	5-10 M ³ /H	x				
	10-40 M ³ /H		x			
	10-80 M ³ /H			x	x	x
NUMBER OF INERTS	1	x	x	x	x	x
	2	o	o	o	o	o
CEMENT DOSING	BY WEIGHT	x	x	x	x	x
PRODUCTION TYPE	REGENERATION	o	o	o	o	o
	MIXED CEMENTS	x	x	x	x	x
	CONCRETE	x	x	x	x	x
	INERTIZATIONS	o	o	o	o	o
	SPECIAL MIXTURES	o	o	o	o	o
LEGEND:						
	x = standard					
	o = with option					



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SERIE ZS



ENGLISH

Electrotech 150 Mixing Equipment



ELECTROTECH 150

ELECTROTECH 150

ELECTROTECH 150

The innovative line by BERTOLI - in the field of road working - keeps on a brand new machine for mixed concrete in carbon steel properly dimensioned: **ELECTROTECH 150**. This plant is extremely versatile and customizable upon customers specific requests.

VERSATILITY

ELECTROTECH 150, compact and easy-to-use and transfer, allows adequate volume dosing through 2 hoppers (a 3 hoppers version is available on request for inert material stocking (6 mc), with indicative length of about 3000 mm, complete of adequately dimensioned vibrators).

QUALITY

Near the discharge mouth of every hopper, there are two extracting belts connected to the main one. The main belt is gooseneck and is electrically motorized. The continuous mixer has got a variable speed and an interchangeable system of internal vanes; its length is about 2500 mm, mixing range regimen is about 150 ton/h and it is complete of water squirt guns; the installed power is 30 Kw.

EASE OF USE

The plant is fitted with a cement hopper of 1,5 mc, an extraction cochlea with variable speed to change the cement loading from the control panel. A system of displaying the cement loading by a dynamic weighing cochlea is available upon request.

CONTROL SYSTEM

The water injecting system in the mixer - composed of an electric pump adequately dimensioned with a local volume meter (with manual valves and by-pass) allows an optimal dosing of water in the mixing concrete. The operative control panel allows the variation of the mixer's rotating speed through an inverter.



Inert hoppers



ELECTROTECH 150: mixer loading



ELECTROTECH 150 production



Control Panel



Mixer



ELECTROTECH 150: regeneration



ELECTROTECH 150: mixed concrete



Inert belt



Mixer (internal)



Freight car version



ELECTROTECH 150: fixed point

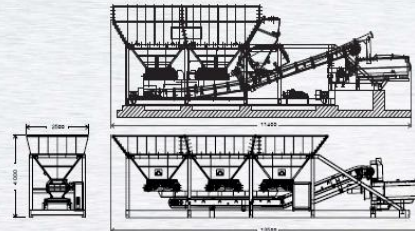
ELECTROTECH 150 Mixing Equipment

ELECTROTECH 150



ELECTROTECH 150 TECHNICAL DATA		
Mobile mixing plant		
DESCRIPTION	U.M.	
OUTPUT		
Max production (according to materials and dosages)	t/h	170
Working temperature range		-20/+90 °C
QUANTITY		
Volume cement hopper	m ³	1,5
Volume inert hopper	m ³	8
SPACE/WEIGHT DIMENSIONS (standard plant with 2 hoppers)		
Max height from support plane (with extensions)	mm	4000
Length	mm	11400
Width	mm	2500
Final belt length	mm	12000
Final belt vertical shift	mm	22*
Final belt height plant on (ground)	mm	4100
Total weight vacuum machine	N	120000
SPACE/WEIGHT DIMENSIONS (plant with 3 hoppers)		
Max height from support plane (with extensions)	mm	4000
Length	mm	13500
Width	mm	2500
Total weight vacuum machine	N	135000
SPACE/WEIGHT DIMENSIONS (skid aux 2 hoppers)		
Max height from support plane (with extensions)	mm	4000
Length	mm	7500
Width	mm	2500
Total weight vacuum machine	N	80000
INSTALLED POWER (may change according to hopper number)		
380 Vac power supply	kW	70
220 Vac power supply	kW	2
CONTROL PANEL		
Size		6,5"
Color display		
Setting menu		50

All data are merely notional. All informations on this document are subject to change without notice.




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ELECTROTECH 150



ENGLISH

ECOMIX 40S Mixing Equipment



ECOMIX 40S

ECOMIX 40S is a unique and innovative system that is the very best in the sector of mobile systems for the production of: all types of concrete, mixed cements, cold-regenerations and inertizations of materials mixed with resin additives.

1) VERSATILITY

Due to its construction design, the ECOMIX 40S mobile system allows transporting all the elements needed for making concrete: inerts cement, water and chemical additives are carried separately, in suitable containers, and proportionally and continuously extracted following the parameters selected by the user through an on-board computer.

2) SIMPLICITY OF USE

Thanks to its PLC control system, ECOMIX 40S, passes simply from one step to the next in the work flow, from quality production, to cleaning without waste and maintenance.

3) ECOCOMPATIBLE

Due to its construction characteristics, ECOMIX 40S is a system suitable for the recovery of materials destined for landfill disposal, such as cement mixtures regenerated from masonry rubble or milled materials cold-regenerated with emulsions.

4) PLANT TRANSPORT

Thanks to its configurability, ECOMIX 40S is easy to transport. ECOMIX 40S is available:

- a) fixed-mounted on a truck;
- b) mounted on a truck with tiltable box;
- c) mounted on an interchangeable cradle.

5) JOB SITE AUTONOMY

ECOMIX 40S is a completely autonomous system. It has its own engine and, due to its design, it allows autonomous control of the work flow and, thus, can be used as an independent unit on the job site.

6) QUALITY

ECOMIX 40S allows obtaining a high-quality final product through computerized control of the electro-hydraulic system for the regulation of the two inert flows, the sophisticated positive displacement system for injecting water, the advanced system for cement extraction and weighing with load cells and the management of chemical additives.



ECOMIX 40S on the job site



Quality production

ECOMIX 40S

ECOMIX40S transports all the elements needed for production separately: water, cement, inerts and, if the case, additives in suitable storage containers. In this way, the operator can produce exactly WHAT he wants, WHERE he wants and in the QUANTITY he wants.



ECOMIX 40S

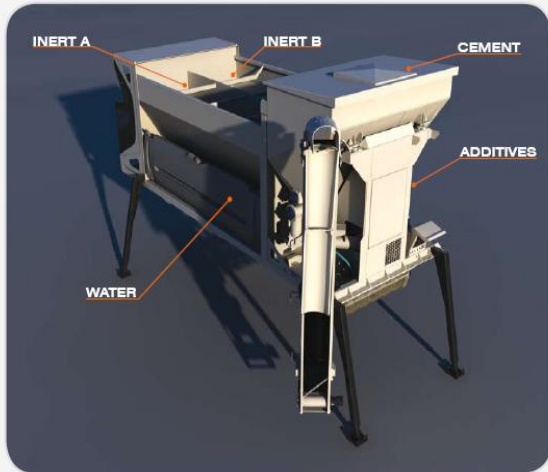


ECOMIX 40S – Super Mobile Mixing Equipment



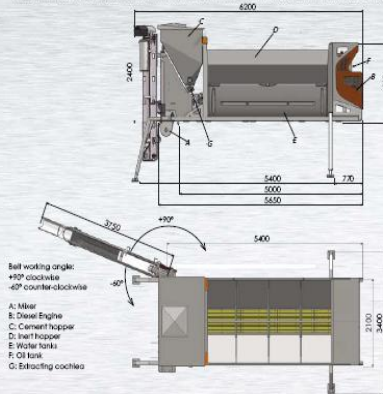
ECOMIX 40S

Ecomix40S is like a multiple container that separately transports all the elements necessary for the production of cement, or any other mixture, at the specific place of work desired. At this point, the operator uses the control panel to simply and intuitively set the characteristics of the type of product he wants to make at that moment. Once production is started, the various components enter the mixer in the required doses and the finished mixed product comes out continuously, ready for final use. Ecomix40S has features that are unique in the world and set it apart from all systems of the same type on the worldwide market. These features make Ecomix40S a technical jewel in the field of transportable systems for the production of concrete, mixed cements, cold-regenerated materials and mixtures in general.



ECOMIX 40S TECHNICAL DATA		
Mobile unit for concrete production		
DESCRIPTION	U.M.	
CAPACITY		
Maximum production	m ³ /h	40
Operating temperature range		-20/+50 °C
DOSing		
Water tank volume	m ³	2
Cement hopper volume	m ³	2,2 (2400 kg)
Inert hopper volume	m ³	9
OVERALL DIMENSIONS AND WEIGHTS		
Maximum height from the support surface	mm	2400
Length with conveyor in transport position	mm	6200
Width	mm	2100
Total weight (empty)	N	45000
FINAL CONVEYOR BELT		
Max. working vertical inclination		15°
ENGINE		
Max engine power	HP	35
Working speed	rpm	3000
CONTROL PANEL		
Size		6,5"
Type: retroreflective colour display with function buttons		
Recall storage		50

The data shown is purely indicative. The manufacturer reserves the right to make modifications without advance notice.



- Bell working angle:
 +90° clockwise
 -40° counter-clockwise
- A: Inert
 B: Diesel Engine
 C: Cement hopper
 D: Inert hopper
 E: Water tank
 F: Oil tank
 G: Extracting cochlea



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ECOMIX 40S



ENGLISH

ECOTECH 150 – Super Mobile Mixing Equipment



ECOTECH 150

ECOTECH 150

ECOTECH 150

Ecological and versatile

ECOTECH 150 is a plant conceived in order to satisfy the most different working needs, maintaining maximum respect for the environment.

The plant can be loaded on a truck thanks to its hydraulic retractable stabilizers, controlled from the ground through an appropriate remote commander.

Transfers between cantiers are extremely easy as no auxiliary operation is required for any mounting-dismounting of machine components.

The mobile plant ECOTECH 150 does not need any external electric supply as it is provided with a powerful diesel engine, allowing it to work totally self-sufficient from the hydraulic as well as from the electric point of view.

Another important characteristic can be found in the production of cold mix adopting different technologies: hydraulic binders, bitumen binders, resins and glues. Aggregates (mill, inert) do not pass through a pre-heating process and can be suddenly sent, through dosing systems on the machine's edge, directly to the mixer to fulfil the productive cycle.

Reduces distances

ECOTECH 150 finally solves the problem to produce the mix directly on the spot, reducing dramatically all transportations of finished material through production plant and carrier.

The plant can be loaded on a normal truck for ordinary means of transport – avoiding in this way any extra expenses. More, the charging-discharging operations of the plant from the truck are made easier thanks to a practical remote commander. The raising and reorganization of the system is assured by some powerful hydraulic jacks as to lift the plant up to 1100 mm from the ground. The plant is supported by an high productive capacity, an incredible flexibility and an easy maintenance.

Technology easy to use

ECOTECH 150 is a technologically advanced machine, 'the only one' of the kind. Every component that the machine has to use (hydraulic binders, bitumen binders, foamed bitumen, inertes, mill, water, resins and glues) can be distributed and controlled by a microprocessors system).

The operator has only to set the different components quantities and save the datas inside a menu; ECOTECH 150 will do the rest, maintaining the finished product's excellence according to the required datas.

Only one operator is needed for plant programming, charge and discharge of finished material on truck and inertes/mill charge inside the pre-dosers, command the turn-over of selection grids above charging mouths, manage the machine's emergencies and temporary stops to allow the finished product's charge from a truck to another, command the swing of the final charge truck. The plant can dispose of four pre-dosers. On every pre-doser can be put a steel grating, bending through hydraulic jacks and determining the exact granulometric sizes at every pre-doser input.



ECOTECH 150 Cabin



ECOTECH 150 at work



ECOTECH 150 at work



ECOTECH 150 production



ECOTECH 150 at work



Control Panel



Software Display



ECOTECH 150 at work



Mixer

