

WHY CIFA



Batching Plants



**WHY
CIFA**

MORE THAN 60 YEARS EXPERIENCE OF SUPPLYING BATCHING PLANTS



CIFA has been manufacturing and selling batching plants since year 1956, when our Company installed the first tower plant for a dam project in Italy that produced 1.700.000 cubic meters of concrete.

CIFA, thanks to the high skilled R&D department and to the manufacturing process, is able to supply a complete range of products, from big stationary wet or dry type to full mobile batching plants. All batching plants are designed, produced and tested in our manufacturing facilities in Italy.



Manufacturing process: cutting



Manufacturing process: welding



Manufacturing process: assembling



Manufacturing process: testing



The first plant supplied by CIFA in 1956 with 300 m³/h output capacity for Alpe Gera DAM project (Italy)

FINISHING



All batching plants are hot galvanized for rust prevention. Only the mixer and the cement weighing hopper are painted

LEASING



Available in **Italy, Russia, China, South Africa, Australia, USA and Germany**

MADE IN ITALY



CIFA batching plants are 100% made in Italy, including the twin shaft mixer. All the components of the batching plants are Italian or European brand

AUTOMATION MADE IN CIFA



All batching plants are provided with Cifawin automation system, designed and developed by CIFA.

TRAINING FOR OPERATORS



FULL RANGE

Wet, dry, mobile and stationary

BATCHING PLANTS

DRY SERIES (plant without mixer)

CIFADRY 50 (50 m³/h output)
CIFADRY 80 (80 m³/h output)

WET TYPE (plant with mixer)

MOBILE SERIES

FULL MOBILE ON WHEELS



CIFAMOBILE 50 (50 m³/h output)

EASY MOVABLE

MIXER FEEDING BY SKIP



CIFAMOOVE 60 (60 m³/h output)



CIFAMOOVE 75 (75 m³/h output)
CIFAMOOVE 90 (90 m³/h output)

STATIONARY SERIES

MIXER FEEDING BY SKIP



CIFAMIX 100 S (100 m³/h output)
CIFAMIX 120 S (120 m³/h output)

MIXER FEEDING BY BELT

MIXER FEEDING BY BELT



CIFAMOOVE 30 (30 m³/h output)



CIFAMOOVE 100 (95 m³/h output)

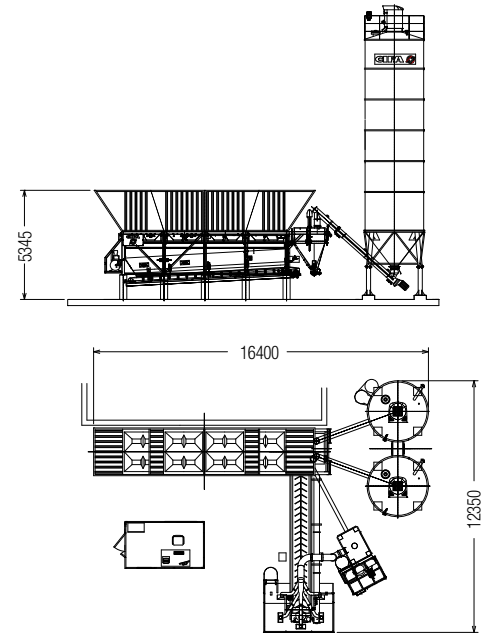
DRY SERIES



CIFADRY 50

Is entirely pre-assembled, including the aggregate bin walls. Its dimensions have been designed for easy installation in restricted areas with difficult access. The plant requires simple and economic foundations due to short time and easy quick installation. The aggregate unit and inclined belt are all completely hot-galvanized to guarantee the plant a long operational life span.

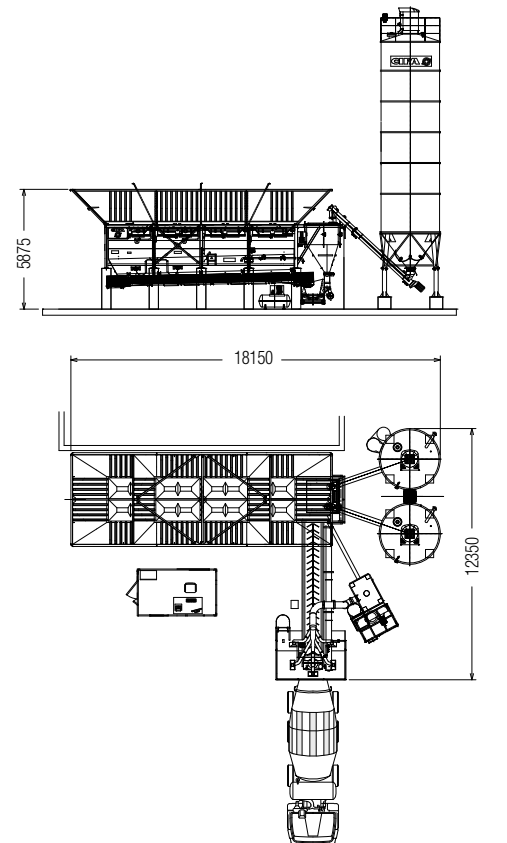
CIFADRY 50 TECHNICAL DATA	
PLANT CONCRETE OUTPUT (m³/h)	50
NUMBER OF AGGREGATE BINS (n)	4
AGGREGATE STORAGE CAPACITY (m³)	40
BATCHING FOR TRUCKMIXER (m³)	7.5
CEMENT SILOS (n)	up to 2
AGGREGATE LOADING SYSTEM	ramp
BELT WIDTH (mm)	600
AGGREGATE DISCHARGING	lateral



CIFADRY 80

Our wide range of CIFADRY 80 series covers every kind of need due to the continuous evolution of the market. The high quality grade of manufacturing, like the completely hot galvanization of the components, offers several solutions in aggregates storage capacity. A wide range of accessories are available to meet any requirements of the customer. Capacitive or microwave sand moisture probes are installed in the discharge gates for automatic control and additives dosing devices by weight.

CIFADRY 80 TECHNICAL DATA	
PLANT CONCRETE OUTPUT (m³/h)	80
NUMBER OF AGGREGATE BINS (n)	4 / 5 / 6
AGGREGATE STORAGE CAPACITY (m³)	100 ÷ 250
BATCHING FOR TRUCKMIXER (m³)	10 / 12 / 12
CEMENT SILOS (n)	up to 4
AGGREGATE LOADING SYSTEM	ramp
BELT WIDTH (mm)	800
AGGREGATE DISCHARGING	lateral or central



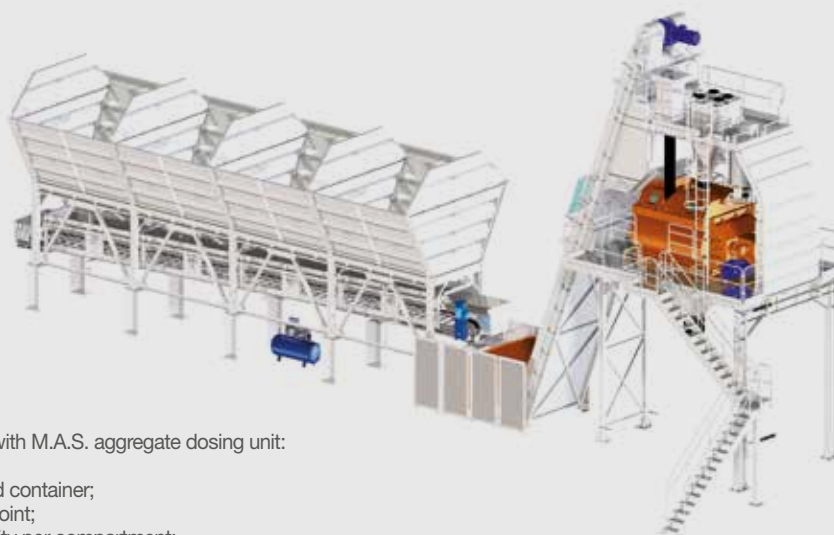
STATIONARY SERIES

CIFAMIX plants are characterized

by an extremely modular system including:

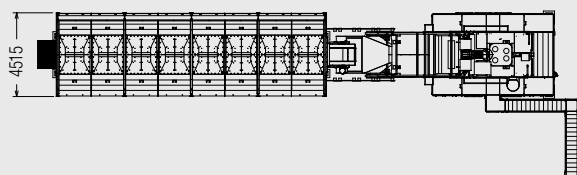
- 100 or 120 m³/h output of compacted concrete;
- constant quality under control;
- long time reliability;
- low maintenance costs;
- environment protection
- reduced area for installation;
- aggregate units with 4, 5 or 6 compartments, with storage capacities from 104 to 156 m³.

CIFAMIX TECHNICAL DATA	100	120
PLANT CONCRETE OUTPUT (m ³ /h)	100	120
MODEL OF MIXER	DNA 2.25	DNA 3.0
TYPE OF MIXER	helicoidal twin shaft	helicoidal twin shaft
MIXER CAPACITY (l)	3350/2250	4500/3000
MIXER CONCRETE OUTPUT (m ³ /cycle)	2.25	3.0
AGGREGATE BINS (n)	4 / 5 / 6	4 / 5 / 6
AGGREGATE STORAGE CAPACITY (m ³)	104 / 130 / 156	104 / 130 / 156
CEMENTS (n)	up to 6	up to 6
MIXER FEEDING SYSTEM	skip hoist or inclined belt	skip hoist or inclined belt
AGGREGATE LOADING SYSTEM	inclined belt or ramp	inclined belt or ramp

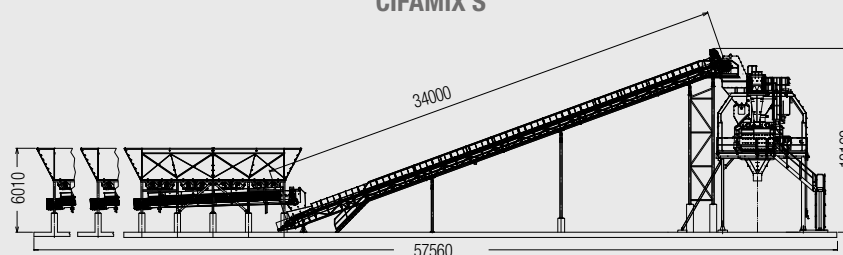
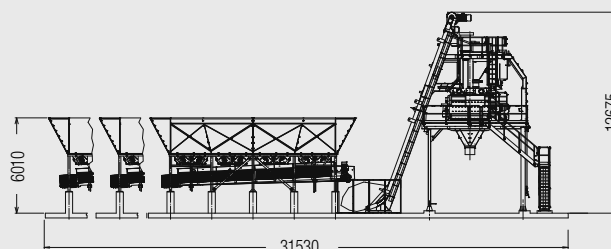


CIFAMIX is equipped with M.A.S. aggregate dosing unit:

- 100% modular type;
- transport by standard container;
- 3.5 m wide loading point;
- 30 m³ storage capacity per compartment;
- low ramp for aggregate wheel loader;
- vertical lateral containing walls.



CIFAMIX S



CIFAMIX B

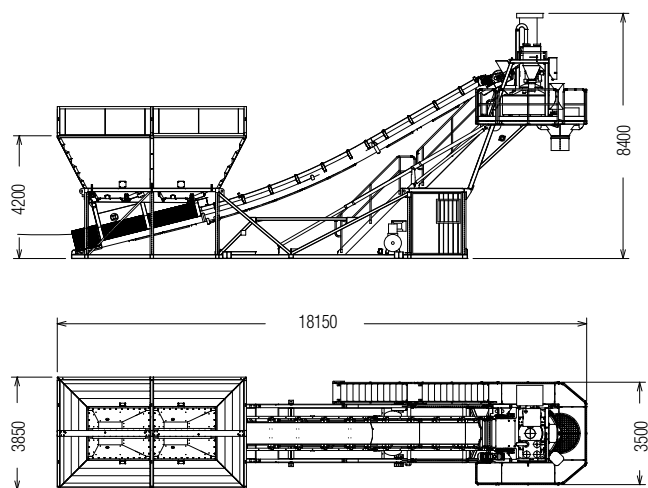
MOBILE SERIES

CIFAMOOVE and CIFAMOBILE are concrete mixing plants for contractors and readymix companies who need high quality standards and performance thanks to easy erection, dismounting and transportation, at low costs for installation and with quick operation times.



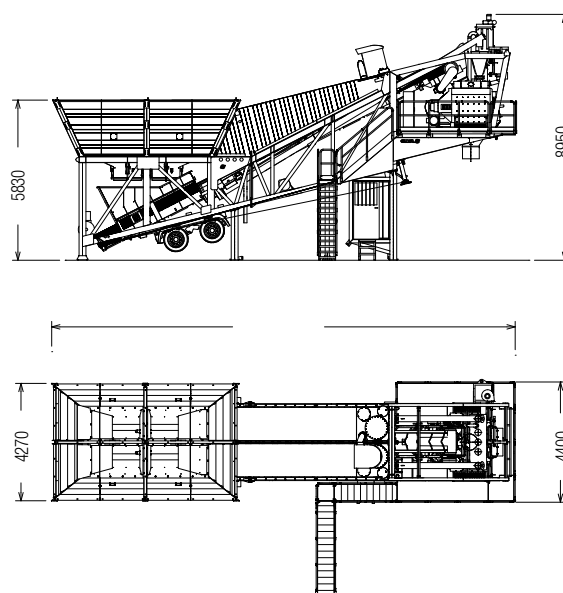
CIFAMOOVE 30

Is a compact plant composed by only two units (mixing and aggregate storage) which can be transported by only two 40' High Cube containers. The installation is very easy and quick since the plant is all pre-cabled and preassembled. CIFAMOOVE 30 is equipped with inclined belt conveyor, ensuring in this way easy and cheap maintenance.



CIFAMOBILE 50

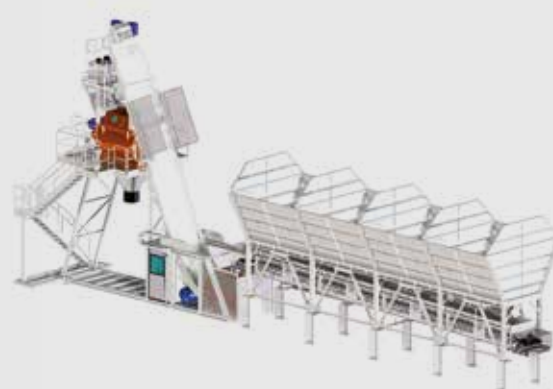
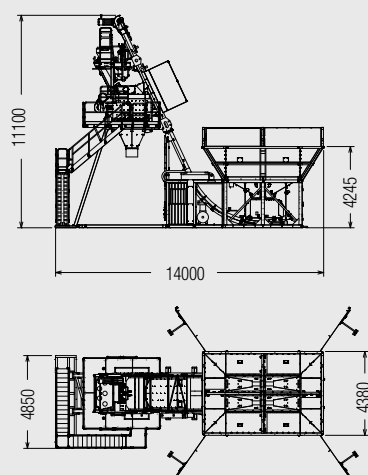
Is the full mobile plant; CIFAMOBILE 50 is, in fact, provided with wheels mounted on two axles that transform the batching plant into a trailer. The plant can be equipped with or without cement silos on board and with or without wheels. In this second case the transport is made by a low-bed trailer.





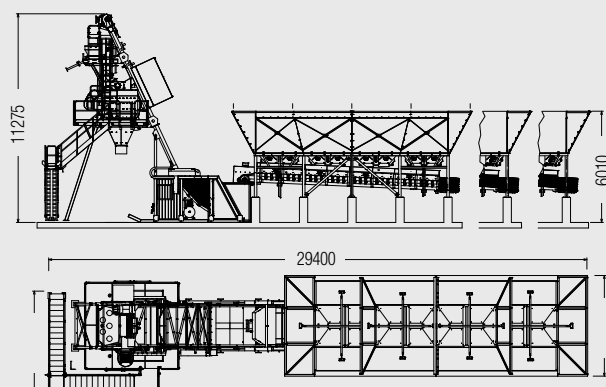
CIFAMOOVE 60

is a compact main unit transportable by road on low-bed trailer, fully assembled with pre-wired equipment for control, batching, conveying and mixing phases. Additional semitrailers are required only for the components completing the plant along with requested accessories.



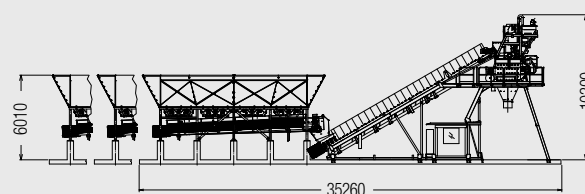
CIFAMOOVE 75 - 90

Are the best choice when quick installation, big aggregate storage capacity and medium-high hourly concrete production are needed. CIFAMOOVE 75 is equipped with 1.5 m³/cycle mixer, while CIFAMOOVE 90 is equipped with 2.0 m³/cycle mixer.



CIFAMOOVE 100

Has been designed to decrease the transport cost and the installation time as much as possible. The plant needs just a simple concrete platform to be installed, it is pre-cabled and control cabin, control board, and additive dosing system are all on-board.



TECHNICAL DATA	CIFAMOOVE 30	CIFAMOBILE 50	CIFAMOOVE 60	CIFAMOOVE 75	CIFAMOOVE 90	CIFAMOOVE 100
PLANT CONCRETE OUTPUT (m ³ /h)	30	50	60	75	90	95
MIXER MODEL	PNA 0.5	DNA 1.0	DNA 1.5	DNA 1.5	DNA 2.0	DNA 2.25
MIXER TYPE	planetary	helical twin shaft	helical twin shaft	helical twin shaft	helical twin shaft	helical twin shaft
MIXER CAPACITY (l)	750/500	1500/1000	2250/1500	2250/1500	3000/2000	3370/2250
MIXER CONCRETE OUTPUT (m ³ /cycle)	0.5	1.0	1.5	1.5	2.0	2.25
AGGREGATE BINS (n)	4	4	4	4 / 5 / 6	4 / 5 / 6	4
AGGREGATE STORAGE (m ³)	32	40	45	104 / 130 / 156	104 / 130 / 156	104 / 130 / 156
CEMENTS (n)	up to 2	up to 4	up to 4	up to 4	up to 4	up to 4
AGGREGATE WEIGHING DOSING	belt	belt	skip	belt	belt	belt
CEMENT AND WATER DOSING	by weight	by weight	by weight	by weight	by weight	by weight
AGGREGATE LOADING SYSTEM	2 ramps	2 ramps or belt conveyor	2 ramps or belt conveyor	1 ramp	1 ramp	1 ramp

MIXING TECHNOLOGIES

DNA HELICOIDAL TWIN SHAFT MIXER

The movement of mixture inside the mixer is generated by special helical paddles and by paddles orthogonal to the axis of rotation; thanks to the accurate design of the fluid dynamics during mixing operations, the desired grade of homogeneity is reached quicker, with lower noise and less vibrations. This improves on production and energy efficiency of the whole batching plant.

MIXER MODEL	DNA 3.0	DNA 2.25	DNA 2.0	DNA 1.5	DNA 1.0
DRY FILLING CAPACITY (m³)	4.5	3.37	3.0	2.25	1.5
CONCRETE OUTPUT (m³/cycle)	3.0	2.25	2.0	1.5	1.0
AGGREGATE SIZE (mm)	0 - 80	0 - 80	0 - 80	0 - 80	0 - 80
MIXING MOTORS (kW)	2 x 55	2 x 45	2 x 37	2 x 30	2 x 22
DISCHARGING SYSTEM MOTOR (kW)	2.2	2.2	1.5	1.5	1.5



PNA PLANETARY MIXER

The mixer is equipped with two mixing paddles that rotate around the vertical axle and with one lateral scraping paddle that brings the mixture to the center of the mixer.



MIXER MODEL	PNA 0.5
DRY FILLING CAPACITY (m³)	0.75
CONCRETE OUTPUT (m³/cycle)	0.50
MIXING MOTORS (kW)	18.5
MIXING STAR (n)	1
MIXING PADDLES (n)	2
SCRAPING ARM	1
DISCHARGING SYSTEM MOTOR (kW)	2.2



Mixer washing system with special pump and nozzles inside the tank.



CIFAWIN automation control system including industrial computer.



Mixer dedusting filter.



Flaked ice dosing system.



Chemical additives dosing system by weight.



Micro silica weighing hopper.



Aggregate dosing cones are bolted for easy maintenance.



Automatic control system Silotouch including touchscreen, pressure switch, control panel and sleeve valves.



Electric vibrators and moisture probes (microwave or capacitive type) can be installed on very dosing cone.

MAIN COMPONENTS

CIFAWASH 10 CONCRETE RECYCLING SYSTEM

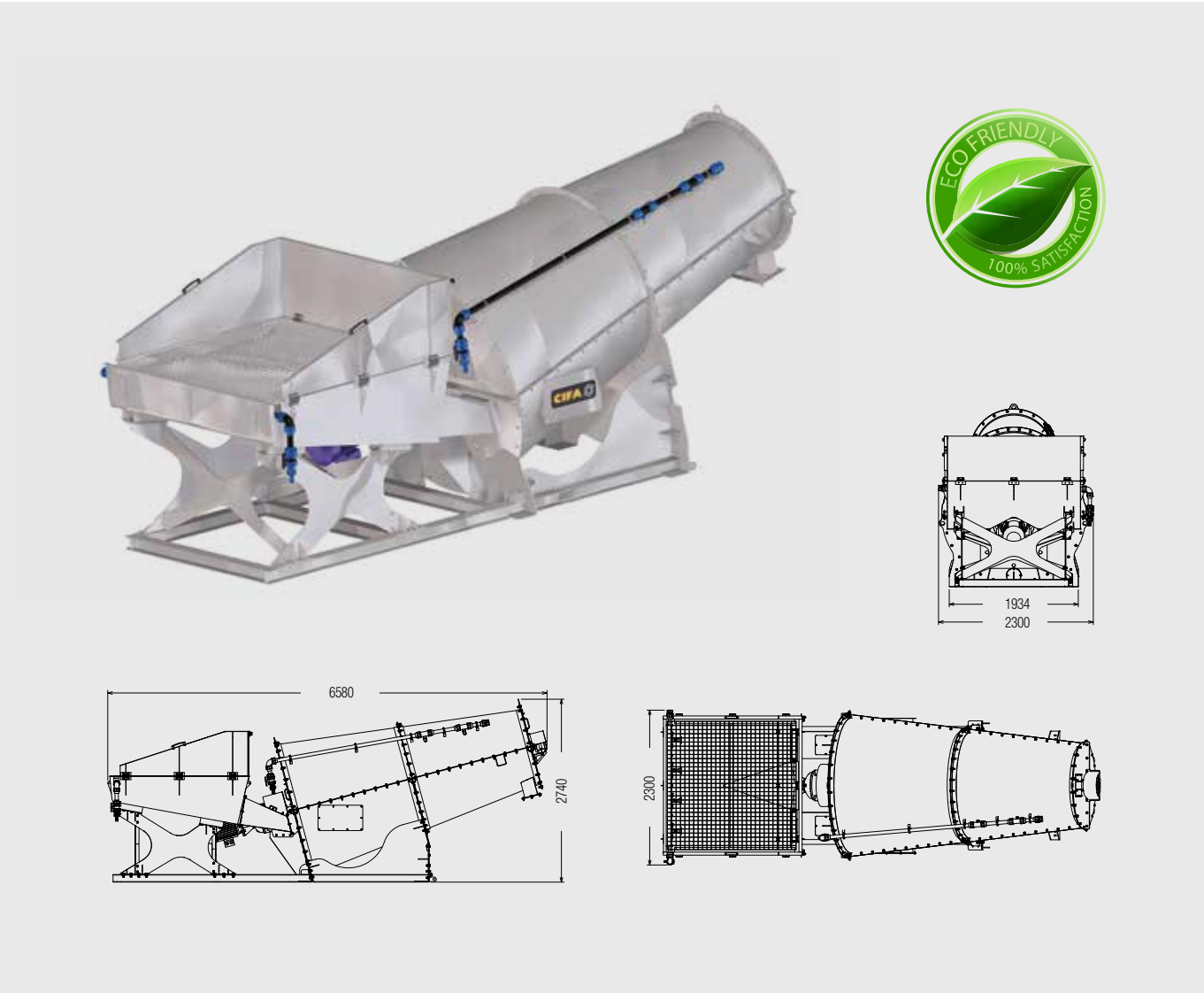
TAKING CARE OF THE ENVIRONMENT

CIFAWASH 10 has been designed to wash the truck mixers and the truck mixer pumps and to recover the concrete inside the drum when the machines come back to the batching plant at the end of the working day.

HOW IT WORKS:

1. The chute of the truck mixer is positioned above the receiving hopper of Cifawash.
2. The operator through the washing pipe pumps the water inside the drum (from 100 l to 200 l per cubic meter). The water can be clean or slurry. The concrete goes inside the Cifawash drum trough the receiving hopper. Inside the drum there are always 1000 l of water.
3. The conveying screw inside the drum brings the aggregates to the top. They are washed before reaching the exit.
4. The slurry water exits through the outlet at the bottom of the drum and it reaches the storage tank (underground or on-ground tank), where it is pumped from the tank to the concrete plant for making new concrete.

CIFAWASH 10	
CAPACITY (m³/h)	10
MOTOR (kW)	7.5
SCREW ROTATION SPEED (r.p.m.)	7
CONCRETE RECEIVING HOPPER (m³)	1.9
SCREW INCLINATION (°)	22
WEIGHT (kg)	3460





CIFAMIX 120 - ABU DHABI



CIFAMIX 120 - DUBAI



CIFADRY 80 AND CIFAMIX 120 - ITALY



CIFAMOOVE 60 - RUSSIA



CIFAMOOVE 60 - ALGERIA

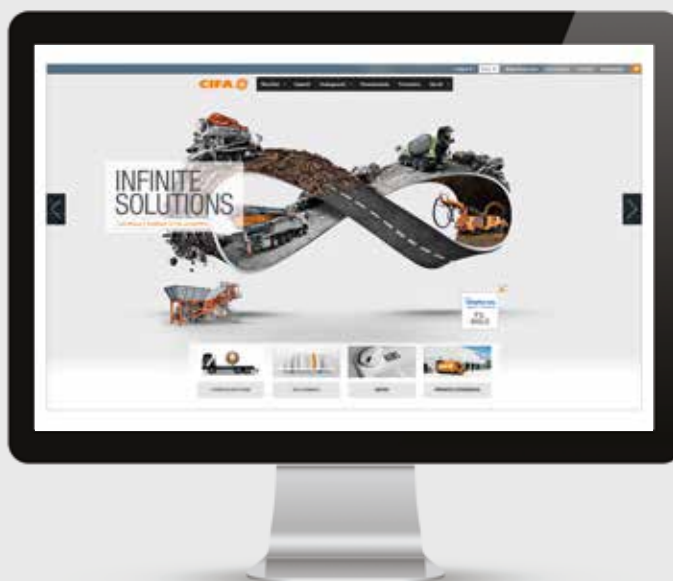


CIFAMOOVE 90 - ITALY



CIFAMIX 120 - MOZAMBICO

JOB SITES



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