



**mact**  
**ITALY**

Marcantonini Concrete Technology

# BLOCKS & PAVERS

**TURNKEY SOLUTIONS  
FOR CONCRETE  
INDUSTRIES**

# mmct ITALY

Marcantonini Concrete Technology





Since 1967 we have been managing the complexity of the production cycle, transport and distribution of concrete, developing for the customer **integrated and customized technological systems** in relation to his objectives.

In these first 55 years we have always remained faithful to the vocation for the science of our founder Lamberto Marcantonini who taught us to overcome every challenge with tenacity and rigor.



Today his son Andrea Marcantonini continues to hold the rudder firmly MCT looking proudly at the exceptional company experience and planning an increasingly international and performing future in the providing customized technical solutions. And our mission continues to be clear also for the next years:

**providing custom solutions, collaborating with our partners with passion, to attain a common goal: to simplify work as much as possible.**

**We also want to create an atmosphere of trust and dependability with customers, aiming towards strong personal relations and stable bonds that go beyond the sole execution of the work.**

# Turnkey solutions for concrete

Our **turnkey solutions** include all the components of the system we build completely customized starting from the detailed design of the functional areas of the site, to get to the realization of the plant and the automation of the processes whose performances we measure, taking care of the maintenance.

We are highly specialized and organized to be the **only point of reference** for our customer who obtains the maximum return from tailor-made systems with flexible and modular technological solutions.

## MCT Turnkey Approach



1

Thorough study of customer's requirements by our engineering departments



2

Development of the personalized offer



3

Engineers pool developing mechanical and software design. Automation software fully developed in-house

Our **added value** includes research in safety, risk prevention and knowledge that translates into total compliance with national regulations regarding plants, emissions and environmental impact.

Complexity can only be governed if it is understood in its entirety and tackled with research and technological innovation; with this awareness we live our mission of thinking and creating **the best concrete plant that the customer has ever used.**



4

Plant Manufacturing  
in our workshops

5

Pre-installation,  
wiring/plumbing and  
testing in our factory  
before shipment, by  
modular assembly

6

Complete installation,  
commissioning and  
operators training on  
site by our specialized  
crews and engineers

7

After-sales assistance  
and support directly  
from our head quarter



## Exclusive technology

Research and development are the engine of our technological innovations that we protect with international patents also in order to protect the customer's investment.



## Fixed and mobile plants

MCT Plants in more than 70 countries include horizontal and tower type batching plants, modular plants, concrete distribution systems.



## Total control

Software automation is developed and realized in-house, allowing the customer a full control on their plant, the access to the analysis of the working parameters and the production reports, and plan the management of the production and distribution activities, including all the auxiliary platforms of the batch plant.

**Customized solutions**

**Optimization of existing sites**

**Faster batches with higher accuracy**

**Higher production capacity**

**COMPUNET**

**Moisture & Plasticity Control**

**Pre-testing in our Factory before shipment**

**Environmental friendly and energy efficient**

**Modular assembly**

**Fast erection and easy to replace**

**Wi-Fi Remote Control**

**Web Based HMI**



## Certified quality

From the first day we have chosen the path of internationalization by adopting internal audit models for quality control and achievement of important certifications valid in all countries where we are present.



## Head Office in Italy and international operating centers

Our Head Office is based in Bettona in the province of Perugia and we are present with operating centers located in all strategic countries for shipbuilding and construction engineering.

**Installations in 5 continents, over 72 countries**

We feel Italians proud of having learned to be citizens of the world thanks to the comparison with the colleagues of our international teams and 55 years of systems designed, put into operation and implemented in over 72 countries and 5 continents.

**Headquarter  
Bettona  
Italy**

**Office  
Reno, Nevada  
USA**

**Office  
Dubai  
UAE**

**Office  
Algeri  
Algeria**

**Office  
Florianopolis  
Brazil**

**Office  
Johor Bahru  
Malaysia**

**Office  
Adelaide  
Australia**



# THE ECO-SUSTAINABILITY OF OUR BATCHING SYSTEMS

Batching plants play a significant role in reducing carbon emissions and contribute to a climate-friendly ecological environment.

(source World Green Building Council)

We achieve this environmental benefit by using **special dust filters with self-cleaning systems for the control of dusty emissions** of silos, mixers and various internal areas present in all MCT plants. As well as the introduction of **new powder coating systems** that significantly reduces the environmental impact.

This type of painting is in fact, 99% recyclable and does not contain any solvents. Compared to liquid paint it allows zero Vocs (Volatile Organic Compounds) and atmospheric emissions of heavy metals, such as lead or chromium.

MCT tower batching plants are fully coated and buffered **to reduce noise emissions** and operate with **very low energy consumption** as the materials are metered by gravity. The container systems built by MCT respect the environment and the existing territory because they don't require special foundation work they can easily be installed and transported so they are reusable from one construction site to another.





# ECO-SUSTAINABILITY IN THE COMPANY

For over 15 years we have installed photovoltaic panels on the entire coverage of our headquarters and our plants; this plant allows us to produce about 60,700 kWh in a single year, making us fully autonomous in our production needs, **with a CO<sub>2</sub> savings of about 30 tonnes per year.**

Inside our factory, the temperature and the switching off of the lights is regulated by an industrial automation of our invention, this software allows us to avoid unnecessary waste of energy.

MCT is strongly committed to the utilization and employment of **new wellness techniques** that combine **sport, health and culture**. MCT supports local associations and this allows us to promote outdoor sports activities such as **trail running** among olive trees and woods and **mountain bike competitions** along trails and villages enhanced by **direct and autonomous maintenance**.



# BLOCKS & PAVERS BATCHING PLANTS

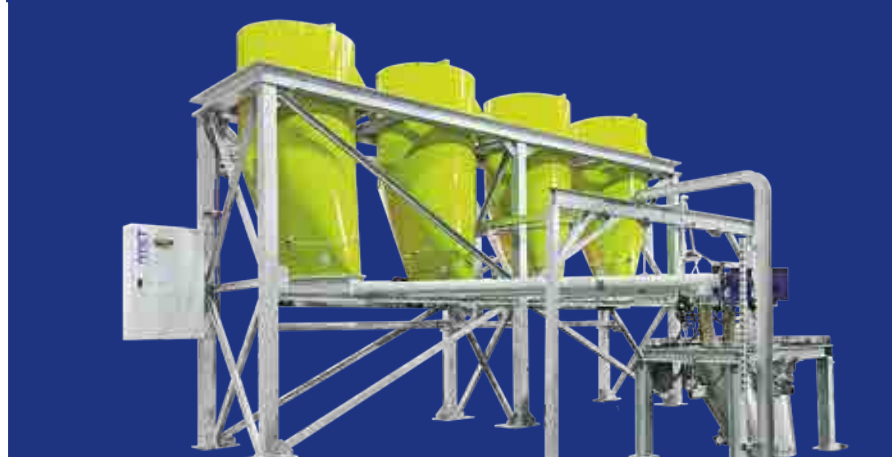
Turnkey Solutions

Tailor Made Concrete Plants

Automation Software CompuNet®

Color Blending Systems





Saudi Arabia




Switzerland



Spain



Romania

 **Blocks & Pavers production line with a curing system and a new batching facility with a smart concrete color blending system integrated into the building.**

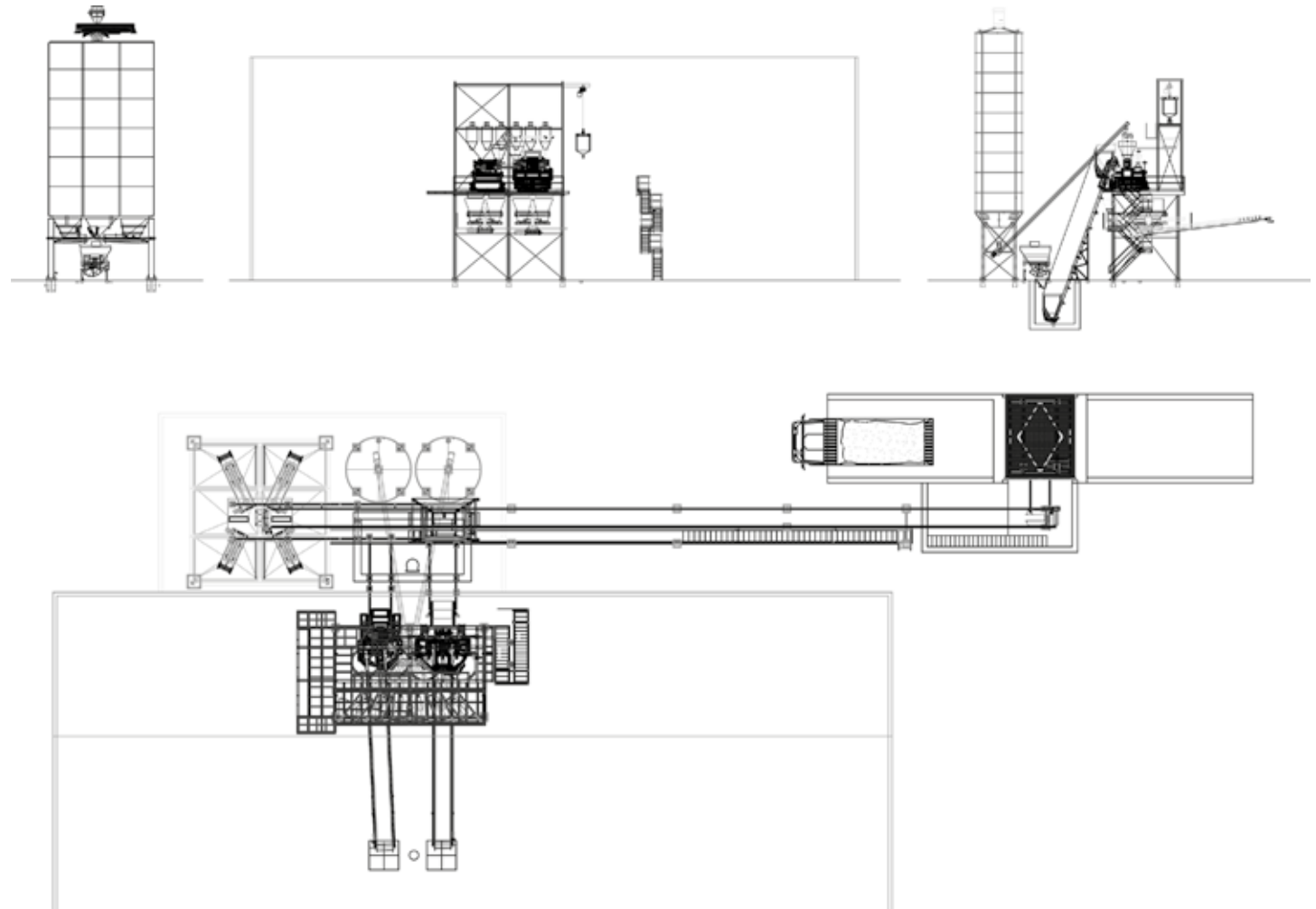
Greenfield and turnkey project developed in full partnership with the customer, integrating all the components of the plant with the other equipment of the pavers factory. Complete batching system and automation control for all components including pigments and colored concrete blending system.

Aggregates storage 1.000 ton capacity with vertical configuration designed to optimize the room available in the relatively reduced area assigned to the batch plant uses.

Optimal aggregates dosing system by mobile scale for accurate and efficient feeding of base mix and face mix production lines.

High technology colored concrete blending system type Betonmix with 4 hoppers for each mixing line (Base and Face), with high flexibility to create any color pattern in the concrete products.

True partnership with the customer for the installation and commissioning of the project, realized with MCT personnel supporting customers installation crew.



### Automatic Concrete Batching Plant

- 6 Aggregates Bins 700 m<sup>3</sup> storage
- 1 Planetary Mixer MAV 2250/1500
- 1 Planetary Mixer MAV 1125/750
- 2 Cement Silos 140 Ton each
- 2 Betonmix Color Blending for no. 3 Colors
- 1 Color Dosing System
- 2 Moisture & Plasticity Control Systems
- Automatic Aggregates Loading System

This project has been developed in true partnership with the customer from the very beginning through the design, the installation and the commissioning, helping us to achieve the best layout and performances.



< Use QR Code and connect to our web site to learn more about MCT solutions in the Blocks and Pavers field

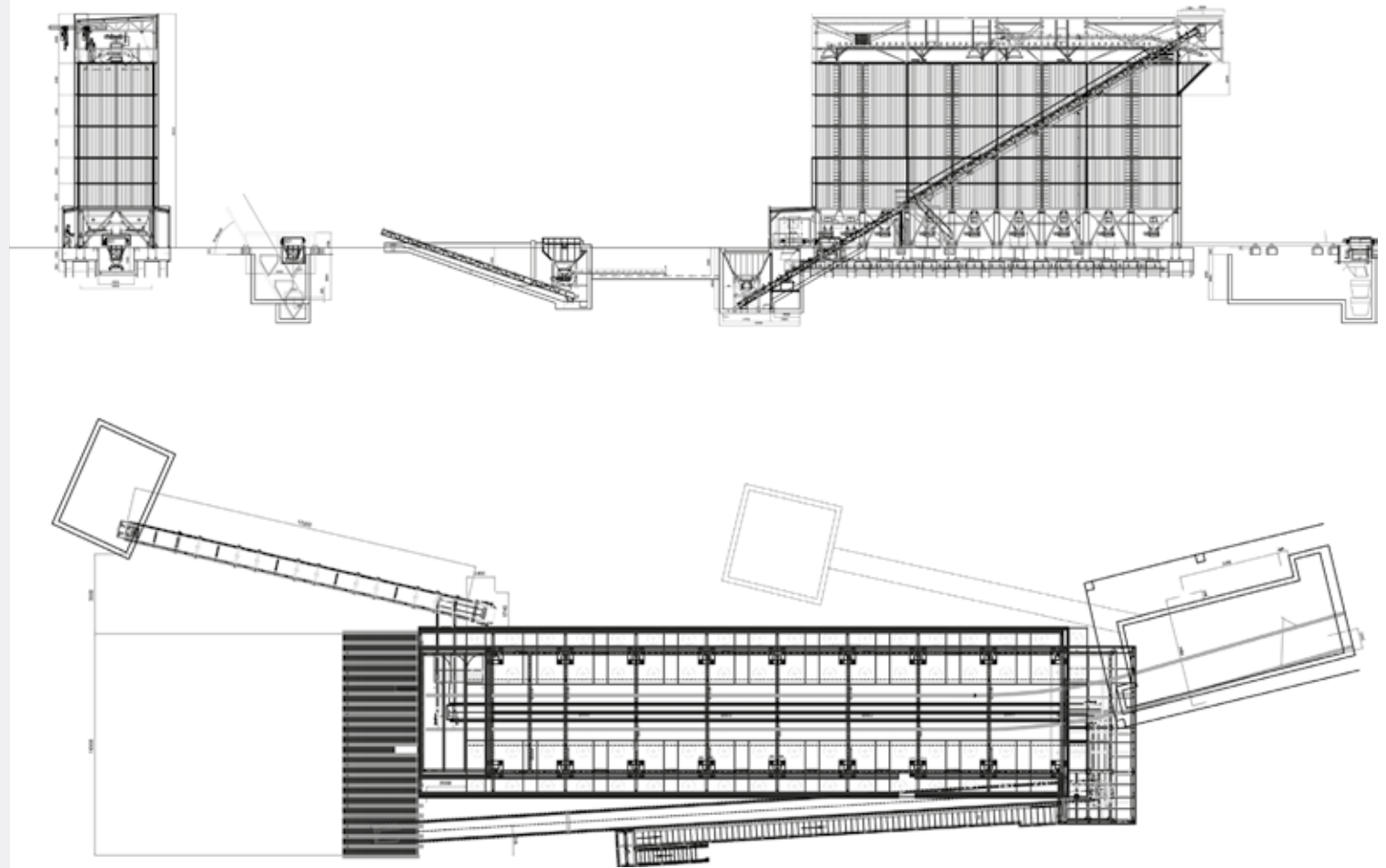


 The project of a new horizontal aggregate storage in an existing block and paver factory developed in full partnership with the customer, integrating an old mixer with a couple of new one.

The 18 bins aggregates storage with 2.000 m<sup>3</sup> total capacity is designed to contain a variety of different color aggregate.

The feeding system is all automatic, from the primary receiving hopper, to the right bins with a badge tracking system. Optimal aggregates dosing system by mobile scale for accurate and efficient feeding of base mix and face mix production lines can feed three different mixers. Complete batching system and automation control for all components including pigments and colored concrete blending system.

High technology colored concrete blending system type Betonmix with no.3 hoppers for each mixing line (Base and Face), with high flexibility to create any color pattern in the concrete products.



### Automatic Concrete Batching Plant

18 Aggregates Bins 2.000 m<sup>3</sup> storage

2 Planetary Mixer MAV 2250/1500

1 Planetary Mixer MAV 1500/1000

2 Aggregate Mobile Scales

4 Cement Silos 80 Ton each

1 Betonmix Color Blending for no. 3 Colors

1 Automatic Powder Colors Dosing System

2 Moisture & Plasticity Control Systems

Automatic Aggregate Loading System



< Use QR Code and connect to our web site to learn more about MCT solutions in the Blocks and Pavers field



## Batching plant with high automated system for block and paver.

Decopave Co. Ltd. is a South Korean concrete elements producer, specialized in developing, manufacturing and selling a large variety of concrete blocks and pavers.

In the era of the 4th Industrial Revolution deeply affected by the Corona 19 Crisis, DecoPave Co., Ltd. invested in a fully new automated factory, located in Danyang. The smart factory is one of the largest in East Asia with a 100% automated system for the entire process: from aggregates and raw materials loading and dosing, going through concrete production and packaging of finished products.

The ambitious Eng. Park, CEO of company DecoPave Co. Ltd. deliberately opted for the know-how from MCT Italy and focused on quality when selecting the batch plant and main components.

In particular the batch plant is equipped with many innovative features that are essential for the production of concrete products with a high-quality and colored facing concrete layer.

### CUSTOMIZED SOLUTIONS

### ENVIRONMENTAL FRIENDLY AND ENERGY EFFICIENT

### COLOR BLENDING

### MOISTURE & PLASTICITY CONTROL



#### Automatic Aggregates loading system

- 1 Bucket Elevator
- 13 Aggregates Bins 900 m<sup>3</sup> storage
- 1 Planetary Mixer 3000/2000 for Base Mix
- 1 Planetary Mixer 750/500 for Face Mix

#### 6 Granulate Colors

- 2 Powder Colors
- 2 Aggregate Mobile Scale
- 3 Cement Silos 100 Ton each

#### Automatic Color Blending System for Base mix

#### Automatic Color Blending System for Face mix


#### Concrete Distribution with Feeding Belts



^ Use QR Code and connect to our web site to learn more about MCT solutions in the Blocks and Pavers field





 Greenfield and turnkey project developed in full partnership with the customer, integrating all the components of the plant with the other equipment of the pavers and concrete pipes factory.

Optimal aggregates dosing system by two mobile scales for accurate and efficient feeding of base mix and face mix production lines.

True partnership with the customer for the installation and commissioning of the project, realized with MCT personnel supporting customers installation crew.

Fully automatic concrete distribution system with 2 rail lines with 1 flying bucket type AV 2000 for gray concrete, and 1 flying bucket with 2 hoppers; the first for colored concrete and the second for the gray concrete.

### Batch Plant Tower Type

---

1 Planetary Mixer MAV 2250/1500

---

1 Planetary Mixer MAV 675/375

---

11 Aggregates Bins 230 m<sup>3</sup> storage

---

4 Cement Silos 80 Ton each

---

3 Chemical Admixtures

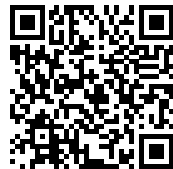
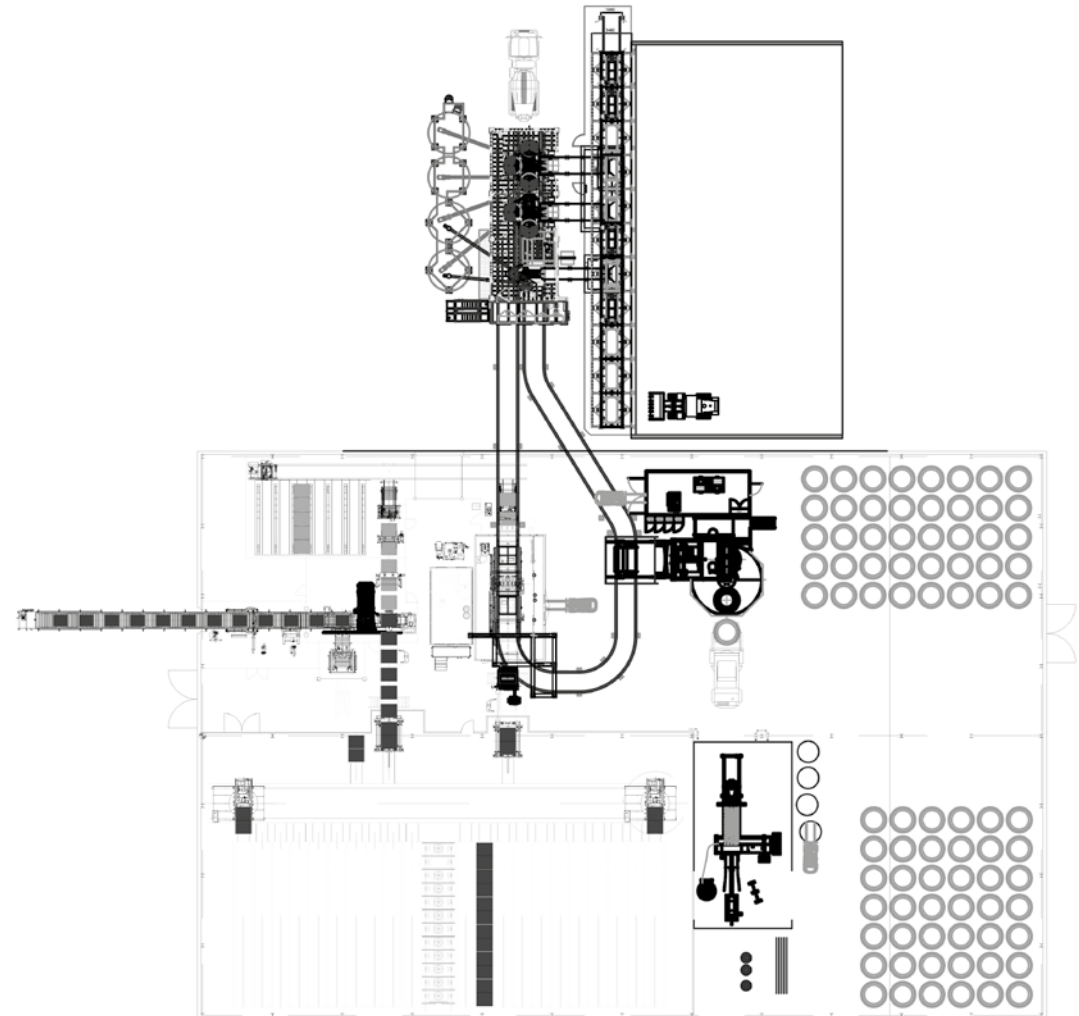
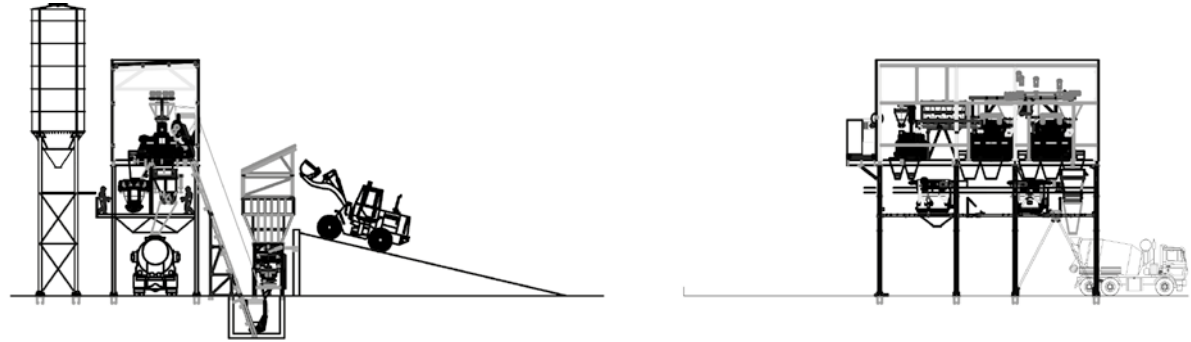
---

1 Flying Bucket AV 2000

---

1 Flying Bucket Double Compartments AV 1500-500

---



^ Use QR Code and connect to our web site to learn more about MCT solutions in the Blocks and Pavers field



# RECYCLING SYSTEM

MCT reclaiming systems are fully integrated with the batching plant and distribution system and their automatic washing systems.

Our customized solutions in the reclaiming of materials are meant to reduce the wastes and minimize the production costs.



# MOBILE BATCHING PLANTS

Mobile Plants, easy to install  
and ready to use

Modular Batching Plant  
Type MCM >



Discover all Mobile  
Batching Plants on  
MCT website



^ Semi-Mobile Batching Plant Type MCM



^ Mobile Plant On-The-Road Type MCR

# MATERIALS TERMINALS

Cement Silos  
Trucks Feeding Station



# COMPU NET®

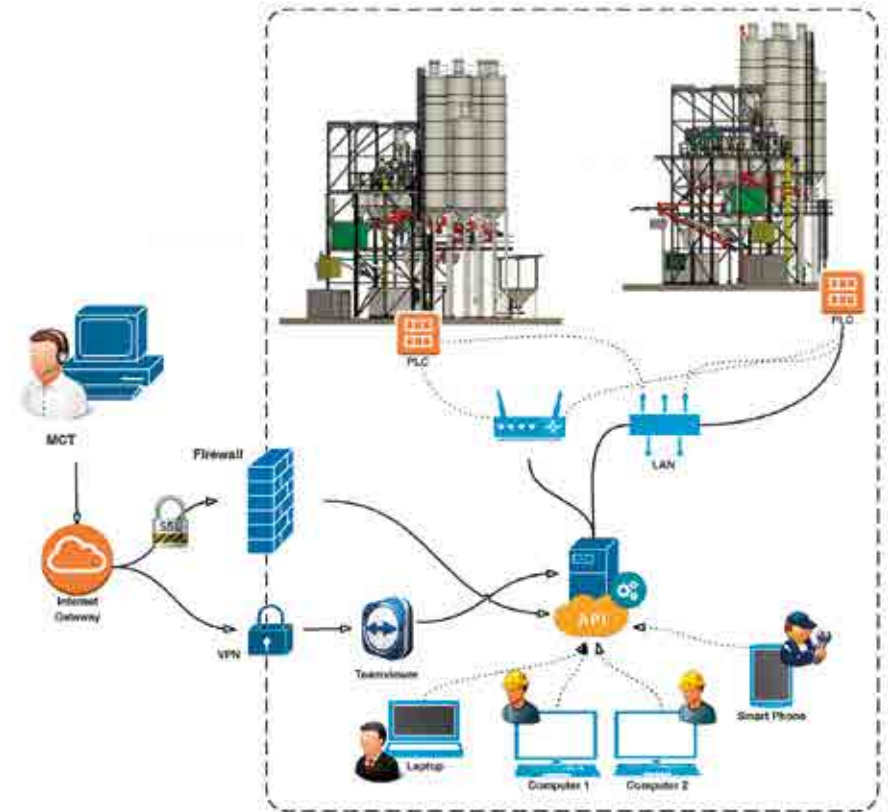
CompuNet® is our software for management and control of both batching plants and concrete transport and delivery systems.

Years of experience and top-notch connection technologies are what CompuNet® is made of. The automatic system control is assigned to a modular, Windows running software. With CompuNet® it is possible to **monitor and manage** all the aspects and stages of the whole process of the concrete production and distribution systems.

With our remote technical support we provide a **24/7 assistance** to help in case of required support, to check or restore the operations of the batching plant or of the transport and delivery system. It is possible to **check and modify processes on-line**, while it is running, just by an internet connection.



The fastest and most direct channel of assistance is through our **Marcantonini Customer Assistance App**, available on Apple Store, Google Play Store and in Desktop version.



## Software

- HMI Web Based
- Ease of use
- High reliability: downtime reduced to zero
- Flexibility
- Expandability
- Management features

## Management

- Weight dosing
- Volumetric batching
- Additives control
- Temperature control
- Steam and ice dosing
- Aggregates moisture and hygrometry control
- Measurement of consistency and fluidity

## Additional software packages

- Recipes formulation and archive
- Daily production management
- Jets power management
- Stock management
- Production process optimization
- Automatic system diagnosis
- Data archive
- In-house or third party database software support

Discover all CompuNet® advantages on MCT website





### **PRECAST**

Best Quality through Design and Process Optimization



### **SPECIAL BETON MIX**

Special Color Blending Machines



### **MOBILE**

Mobile Plants type MCM and MCR, easy to install and ready to use



### **CASTING MACHINES**

Customized Casting Machines for every application



### **CompuNet®**

Exclusive Management and Control System



### **RECYCLING SYSTEM**

Customized Solutions for Reclaiming Materials



### **MATERIALS TERMINALS**

Cement Silos, Trucks Loading Stations



### **READYMIX**

Innovative Solutions for Concrete Production



### **DISTRIBUTION**

Customized Flying Buckets for Concrete Distribution



Marcantonini Concrete Technology



## **MARCANTONINI IS A WORLDWIDE LEADER**

in the field of Batching Plants for Concrete Production and Distribution Systems since 1967



Concrete Batch Plant Solutions for Precast, Blocks & Paver and Ready Mix Producers  
Concrete Distribution Systems  
Plant Automation Software and Control Systems



#BLUEHEART  
Our commitment  
to our heritage



**MCT ITALY SRL**

Via Perugia, 105  
06084 Bettona (PG) Italy  
Tel.: +39 075 988.551  
Fax: +39 075 988.5533  
Email: [mail@marcantonini.com](mailto:mail@marcantonini.com)

**[marcantonini.com](http://marcantonini.com)**

**MCT GROUP, Inc.**

9190 Double Diamond Parkway - Suite 120  
Reno, NV 89521  
Phone: 775.313.0708  
Fax: 775.242.3677  
Email: [info@mct-usa.com](mailto:info@mct-usa.com)

**[mct-usa.com](http://mct-usa.com)**