



mact
ITALY

Marcantonini Concrete Technology

**READY
MIX**

**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.

Customized solutions

Optimization of existing sites

Pre-testing in our Factory before shipment

Environmental friendly and energy efficient

Fixed and mobile plants

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

Faster batches with higher accuracy

Higher production capacity

Modular assembly

Fast erection and easy to replace

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.

COMPUNET

Moisture & Plasticity Control

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 CO₂ 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**.



READY MIX BATCHING PLANTS

Turnkey Solutions

Tailor Made Concrete Plants

Automation Software CompuNet®

Worldwide Service

and After Sales Network

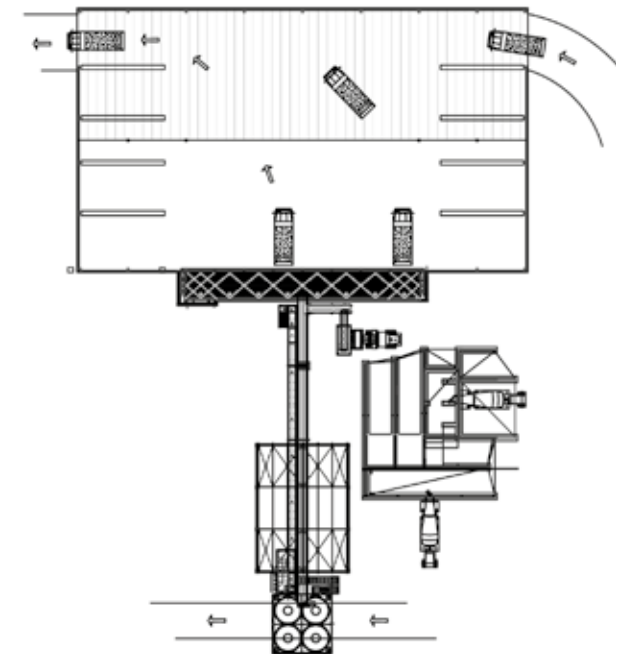
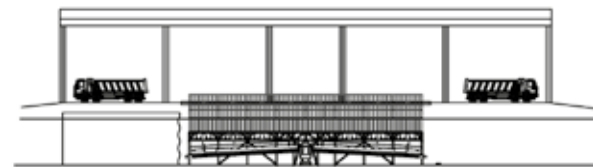
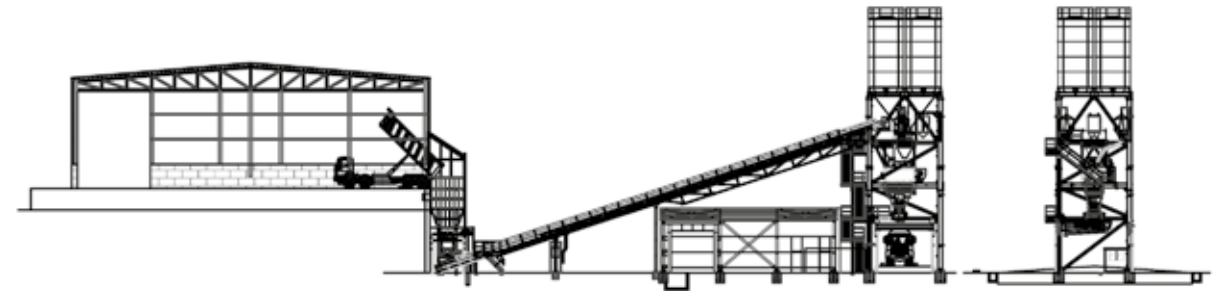




 High technology Ready Mix greenfield and turnkey project, developed in full partnership with the customer, with design and manufacturing of the batch plant and automation software.

Horizontal aggregates storage with feeding system by conveyors and drive-through vertical mixing tower with cement silos on the top of the mixing section for the dosing by gravity. Twin shaft mixer MAO 7500/5000 with holding hoppers for the production of up to 140 m³/h of high quality concrete, including anti-drip device for the drive-through of trucks. Service building designed and manufactured to accommodate batch room, truckers areas and restrooms, offices and maintenance rooms, including water heating and blending system and recycling system. Aggregates storage integrated in a pre-storage building for the direct tipping by trucks onto the compartments. Automation batch software integrated with central dispatch system by Command Alcon.

Complete integrated cladding package for batch plant and service buildings.



Batching Tower

- 4 Cement Silos 80 Ton each
- 1 Twin Shaft Mixer MAO 7500/5000
- Admixture Dosing System
- Automatic Washing System

Storage Building

- 8 Pre-Storage Ground Compartments
- 8 Aggregate Bins - 500 m³ total capacity
- 2 Aggregate Scales
- 1 Feeding Inclined Conveyor Belt



< Use QR Code and connect to our web site to learn more about MCT solutions in Ready Mix field

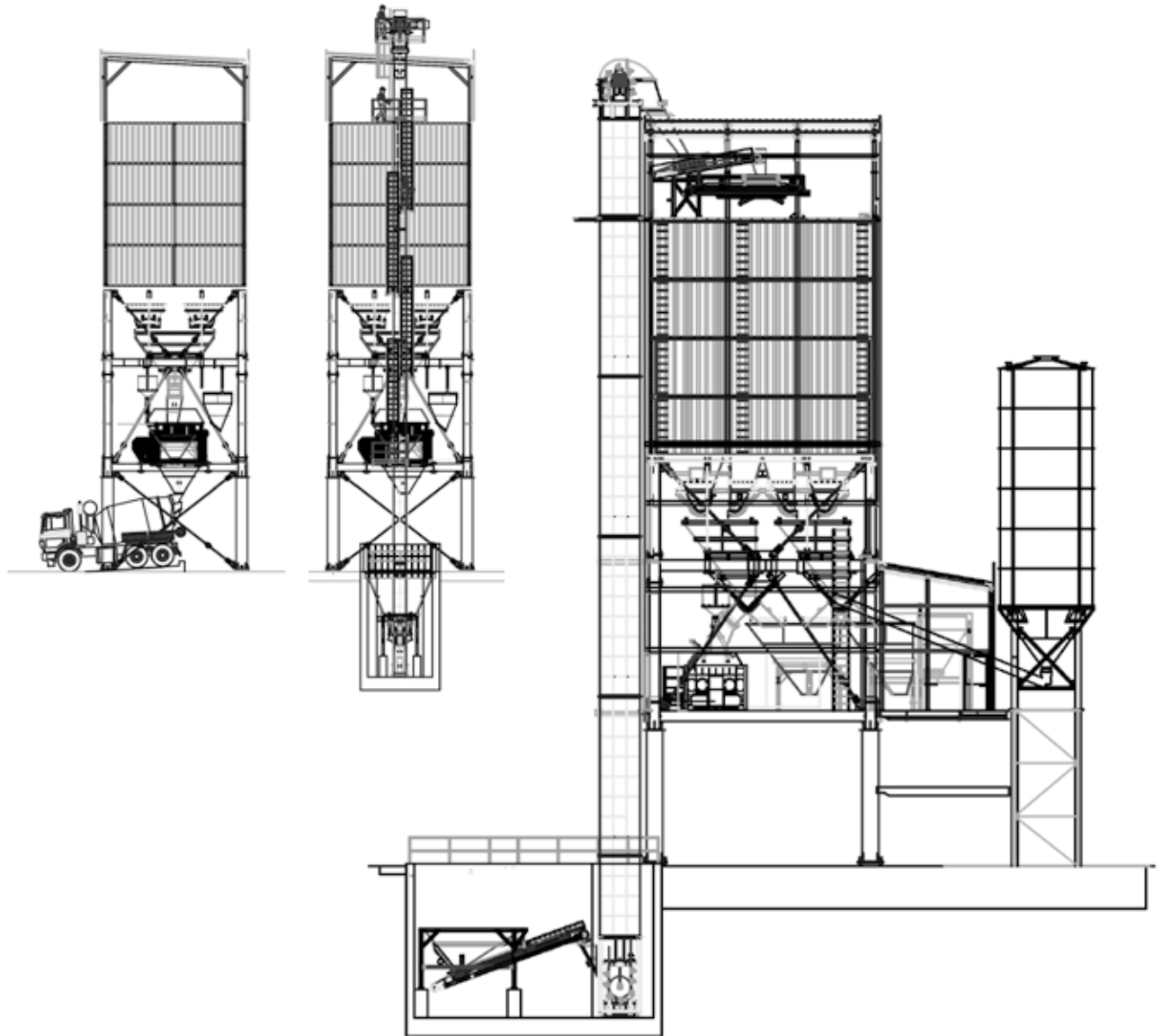


 High technology ready mix greenfield and turnkey project, developed in full partnership with the customer for the restricting requirements of a narrow site in a residential area, with complete design and manufacturing of the batch plant and automation software.

Vertical tower batching plant with no.3 loading lanes, no.2 dry batch and no.1 wet batch with twin shaft mixer for the production up to 200 m³ of high quality concrete in 24 hours/day shifts.

Aggregates loading system by primary hopper, bucket elevator and dispensing conveyor on the top of the tower, fully automatic. Automation batch software integrated with central dispatch system.

Complete integrated cladding package and emissions control for the installation on a residential area with high environmental restrictions.



Tower Batching Plant

1 MAO Twin Shaft Mixer 5000/3350

8 Aggregates Bins 460 m³ total storage

6 Cement Silos 65 m³ each

2 Concrete Dry Feeding Lanes for truck mixers

Concrete Recycling System



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+ Futuristic project studied about 20 years ago for a high quality plant for the production of concrete.

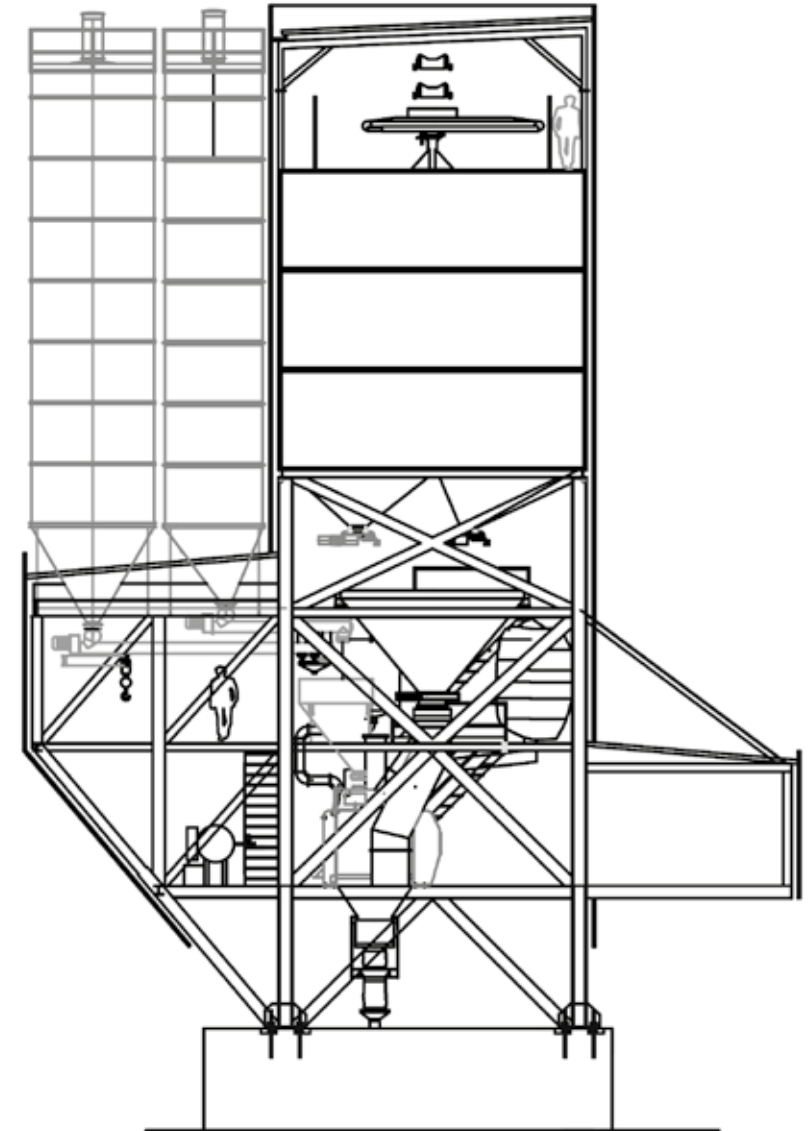
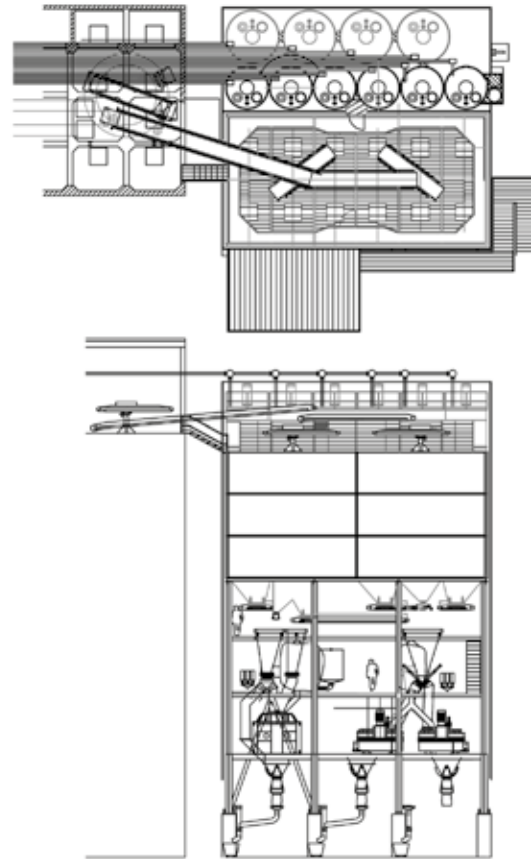
The plant located in Switzerland near a city center has required extreme attention to the environment. This required complete integrated cladding package and emissions control.

The design made side by side with the customer is very particular infact the platform of cement silos is completely cantilevered compared to the central mixing tower.

The vertical aggregate storage with 12 bins have a 920 m³ total capacity. Aggregates belt loading system by primary hopper, inclined belt and dispensing conveyor on the top of the tower, fully automatic.

Mixing platform with no.3 loading lanes, wet batch with no.3 twin shaft mixers MAO 4500/3000 for the production up to 150 m³ per hour of high quality concrete in 24 hours/day shifts.

Automation batch software integrated with central dispatch system by Dornier Electronic.



Batch Plant Tower Type

3 Twin Shaft Mixer MAO 4500/3000

12 Aggregates Bins 930 m³ storage

6 Cement Silos 60 Ton each

29 Chemical Admixtures

3 Concrete Feeding Lanes for truck mixers



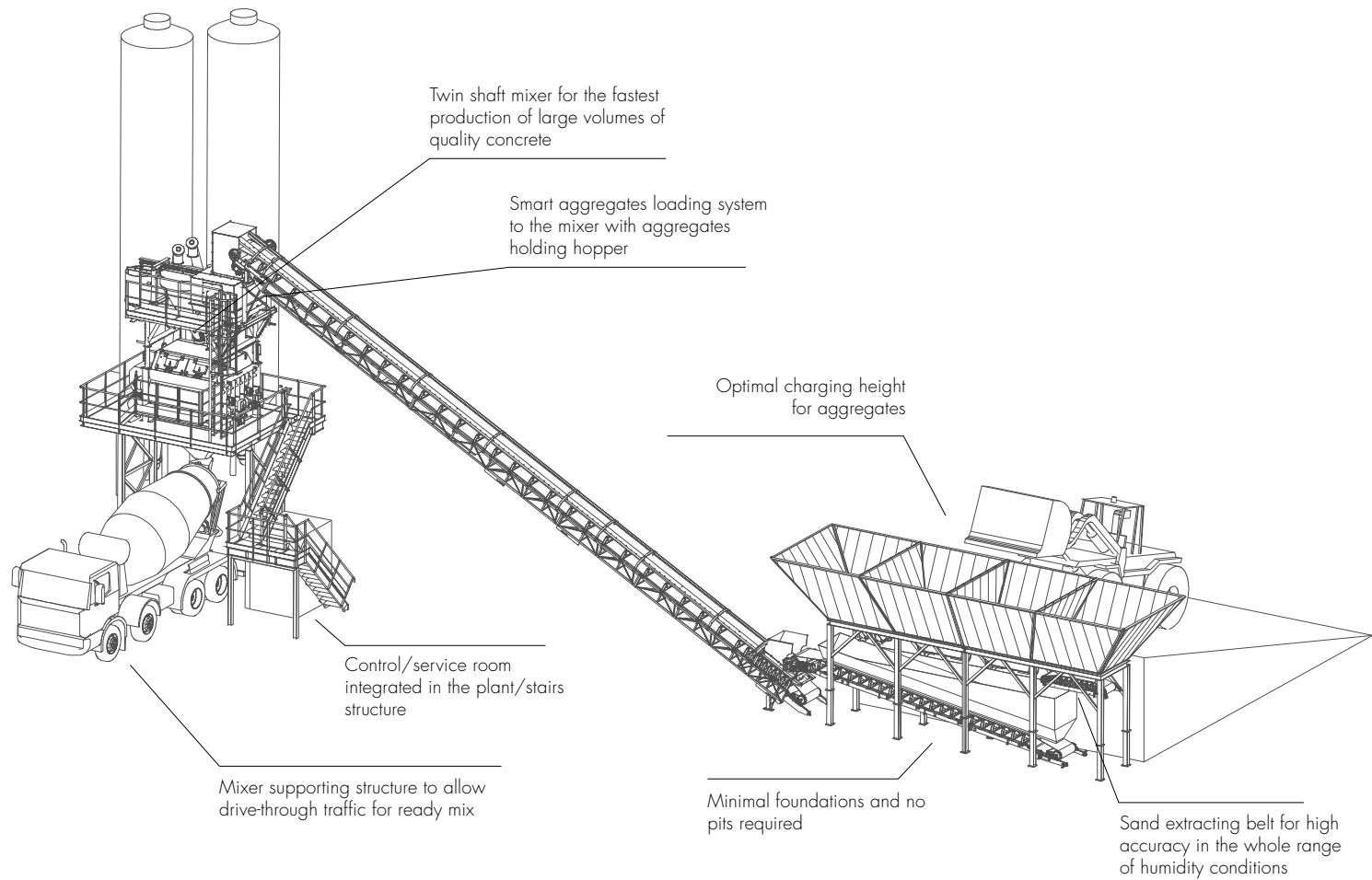
< Use QR Code and connect to our web site to learn more about MCT solutions in Ready Mix field



MCF-B RIGEL

The MCF-B Rigel mixing plants range has been developed to meet the needs of large and fast concrete productions, up to 135 m³/h.

The design of every detail is focused to ensure high reliability and functionality during the production of large volumes of high quality concrete.



	MCF RIGEL 60	MCF RIGEL 80	MCF RIGEL 100	MCF RIGEL 130
Type of Mixer	Twin Shaft 2250/1500	Twin Shaft 3000/2000	Twin Shaft 3750/2500	Twin Shaft 5000/3350
Hourly Concrete Production	60 m³/h	80 m³/h	100 m³/h	130 m³/h
Number of Aggregates	4 x 20 m ³			
Aggregate Storage	80 m ³			
Automation System	CompuNet®			
Concrete Discharge Height	4,1 m			
Composition	3 x 40' O/T Sea Container			
Compressor	3 kW	4 kW	4 kW	4 kW
Total Installed Power	110 kW	180 kW	220 kW	280 kW



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®

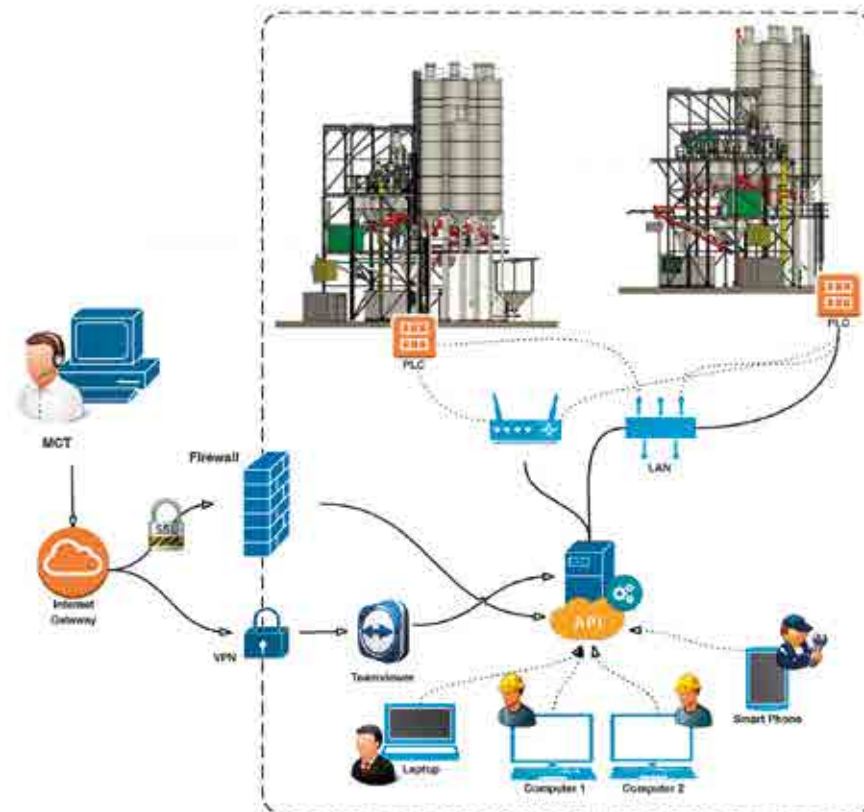
CompuNet® is our software for management and control of both batching plants and concrete transport and delivery systems.

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



DISTRIBUTION

Customized Flying Buckets for Concrete Distribution



READYMIX

Innovative Solutions for Concrete Production



MATERIALS TERMINALS

Cement Silos, Trucks Loading Stations



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



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