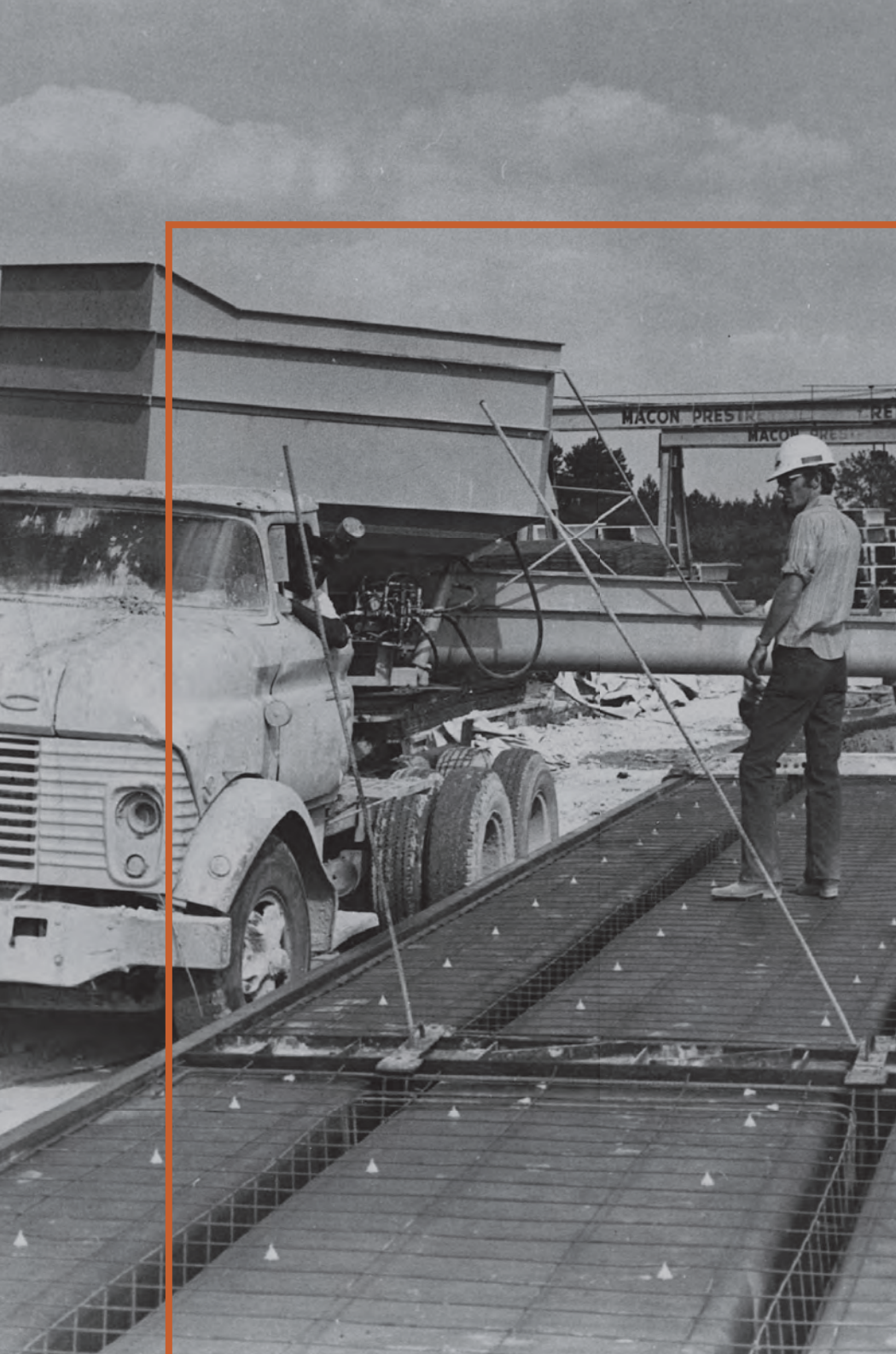
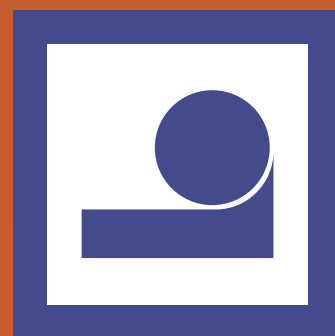




# BIANCHI

TECHNOLOGY FOR PRECAST



## General CATALOGUE



# WE SHAPE YOUR NEEDS

Since 1964 at the service  
of the concrete precast industry

Committed at every level to offer innovative solutions to an  
ever-expanding international audience.

Taking advantage of collaborations with the best professionals  
and counting on a 360° experience, we place ourselves as a  
reference company for the precast concrete sector.



Who  
**WE ARE**

Tradition and Innovation,  
Made in Italy that we like.



## COMPANY

Bianchi Casseforme Srl, present since 1964, is an international leader in the design and manufacture of precast concrete equipment. The continuous research and development of new solutions, in line with the needs of the market, makes us a sought-after partner and in demand by companies in the precast concrete sector.

### **Bianchi Casseforme manufactures:**

- Casseforme
- Formwork/moulds for precast elements to produce Industrial, commercial, civil, residential type of constructions
- Concrete Distribution Systems To meet all transport and distribution needs
- Complete Precast Plants Starting from the design of the production plant, passing through the manufacture of equipment to produce precast elements and for the distribution of concrete.
- Machinery. By automating the production phases of prefabricated elements, costs and times are reduced, improving the performance and quality of the elements created



## LA MISSION

Creating advanced technological solutions, highly customized and flexible, always placing customer satisfaction at the center is the challenge that accompanies us every day.

Thanks to the experience and know-how acquired in our decades-long history, we support the precast industry by offering a wide range of fully automated products and services with the quality and reliability of Made in Italy.

Since 1997 the Company has achieved and renewed the certification of its Quality Management System in accordance with the UNI EN ISO 9001: 2015 standard.



# Bianchi WORLDWIDE

We are present in 5 continents with a very active and dynamic commercial network.



## AGENTS AND REPRESENTATIVES



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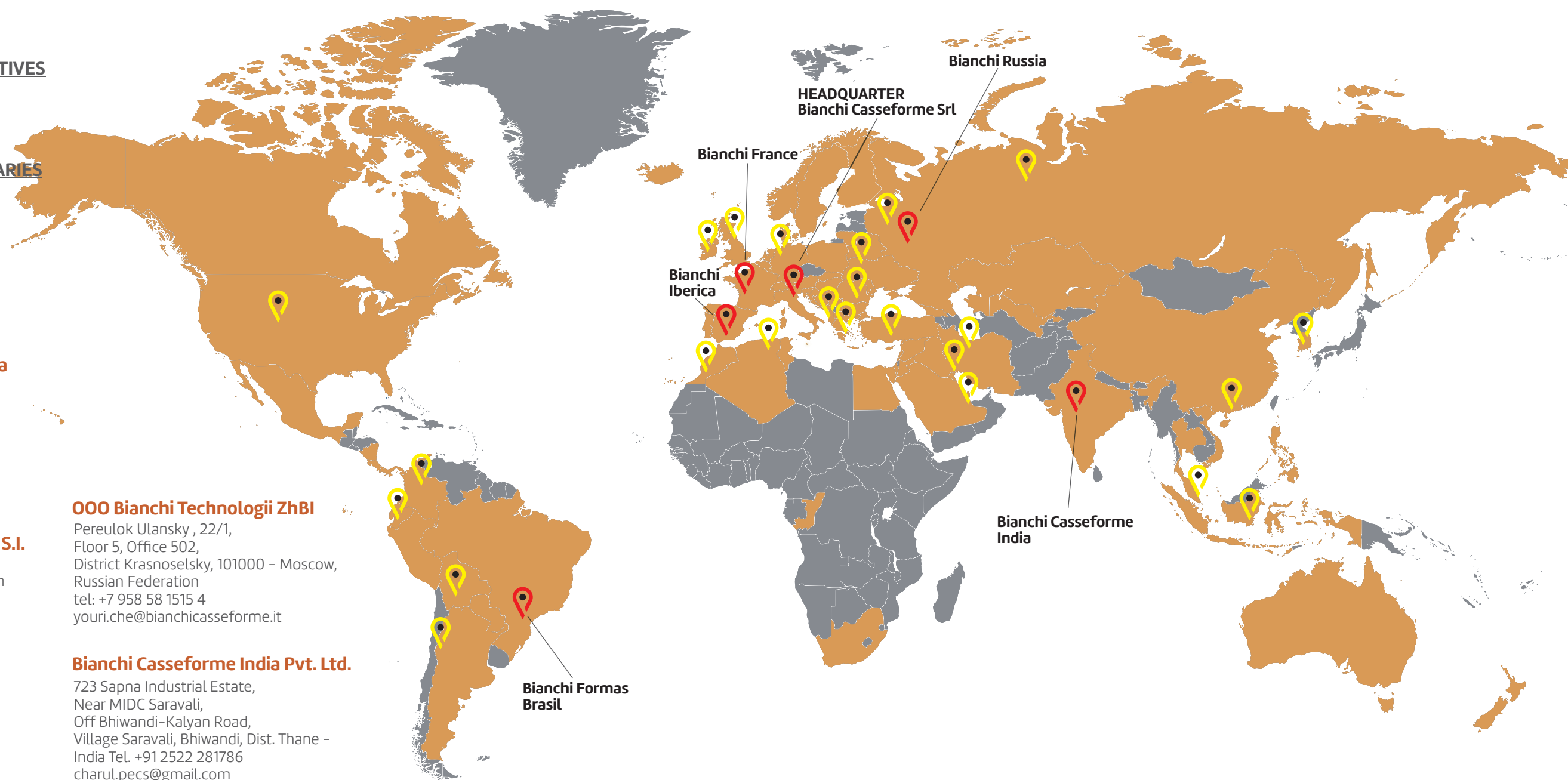
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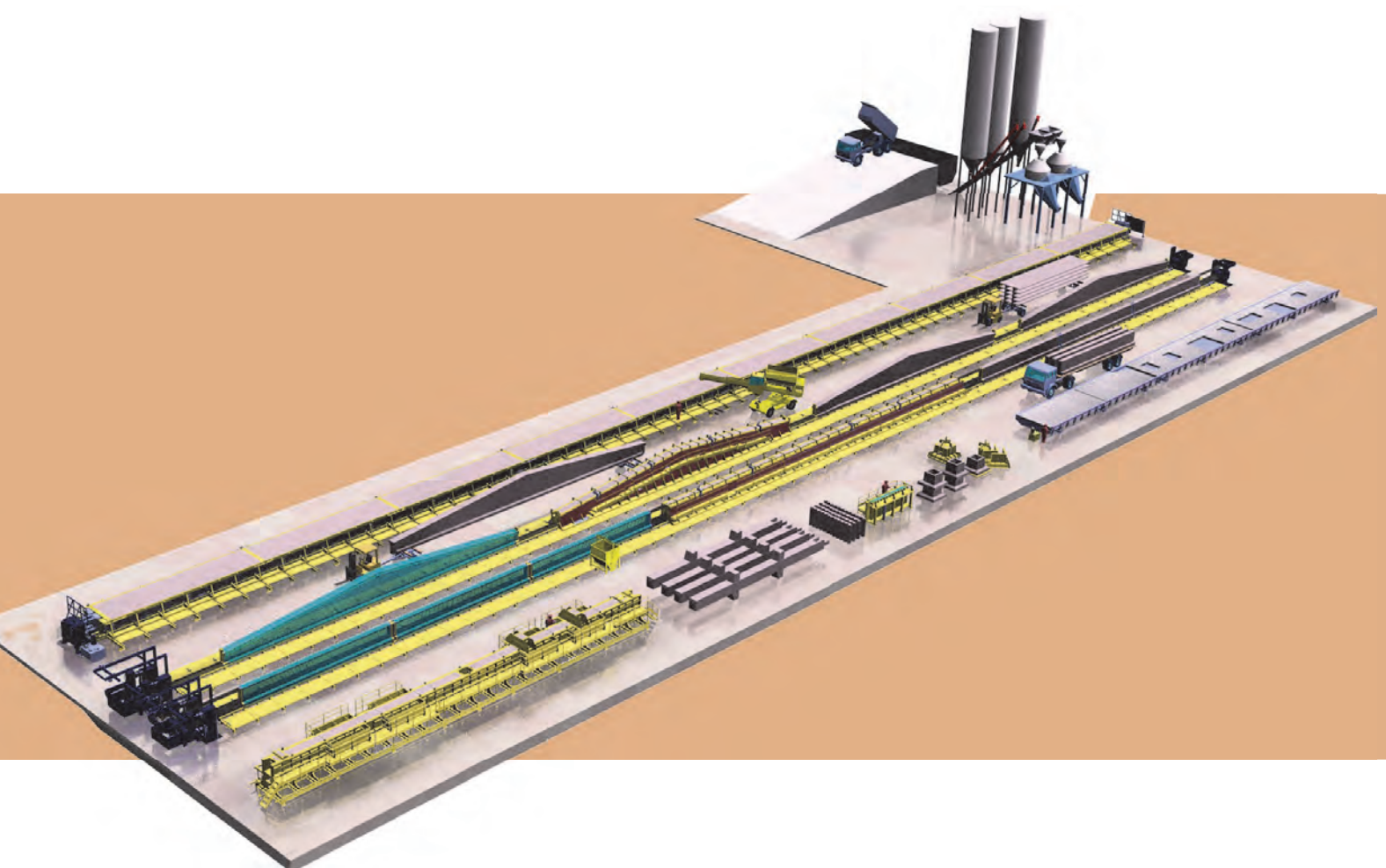
**Bianchi Formas  
Brasil**





# 03 Project DEVELOPMENT

Solutions of excellence for global challenges  
Bianchi Casseforme represents Made in Italy  
with high added value for construction.



We set up entire factories with  
our advanced technological solutions.



## Feasibility study

We carefully analyze every request and thanks to the experience of our team, we offer the best solutions for every type of need in the field of precast.



## Planning

Our technical department uses the best calculation and design software to develop and design advanced solutions, which has for over 50 years helped develop the precast industry in Italy and in the world.



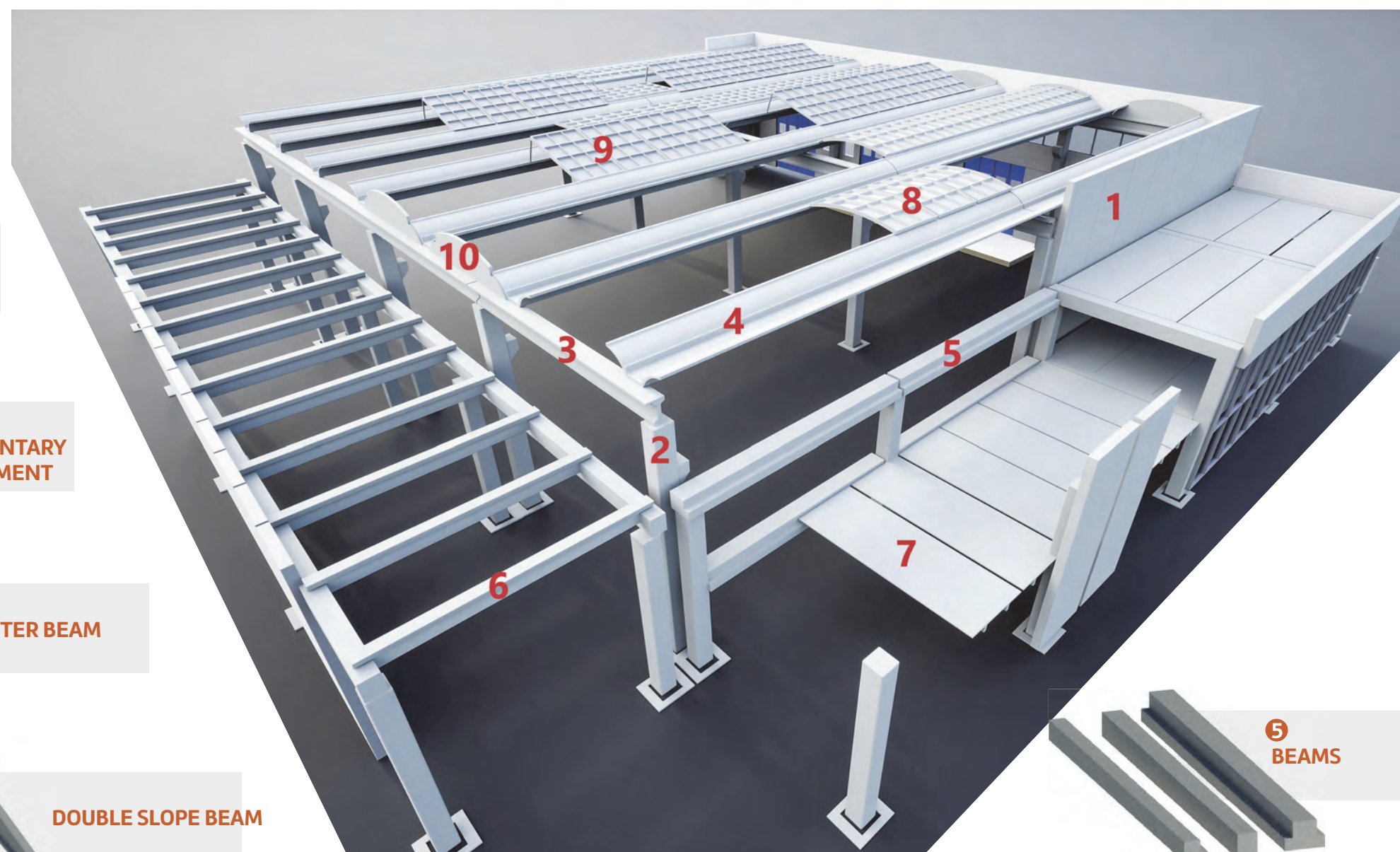
## Realization

Thanks to the work in our production facilities, we build and supply systems that allow the customer to create residential, civil and industrial projects.



# Plants for PRECAST

From single mould to the complete range of moulds for industrial, civil and residential precast.





## Our moulds for **PRECAST**

Today we look to the future by combining the technical knowledge acquired over time with constant technological development.



### **Moulds for Panels**

Fixed Tables  
Tilting Tables  
Battery for panels



### **Moulds for Beams**

L Beams  
TL Beams  
Gutter beam  
Double



### **Moulds for Columns and Plinths**

Formwork for Pillars and Plinths  
Manual formwork  
Column batteries  
Flexible formwork



### **Floors and Roofs Moulds**

TT Slabs  
Winged Roof Beams  
Curved Roof battery



### **Bridge beams Moulds**

For bridges,  
viaducts  
and high-speed railway sections



### **Moulds for Stairs**

Fixed and flexible formwork  
for precast concrete stairs



# 04

## Our moulds for **PRECAST**

Bianchi Casseforme Srl boasts more than 3000 customers in 88 countries around the world.



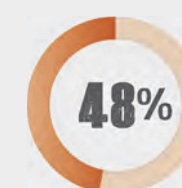
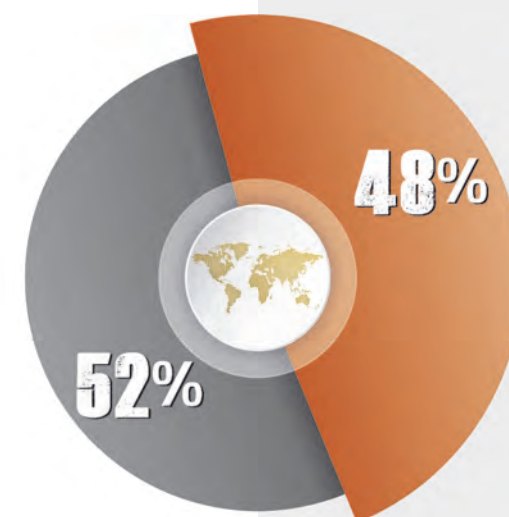
### Moulds for 3D Elements

Monobloc housing  
Tub Mould  
Electric cabin



### Specials Elements

New Jersey Traffic Barrier



EUROPE



WORLDWIDE





## Our moulds for **PRECAST**

Bianchi Casseforme designs and manufactures industrial, civil and residential formworks/moulds for precast.



### Moulds for panels

#### Fixed Tables

The fixed benches are used to produce panels, floors with simple / prestressed reinforcement or fillagree (sandwich) of various thicknesses, of various widths and lengths.

On request, the casting surface can be sanded to have a mirror finish. The table counter can be equipped with hinged side panels that can be opened manually or hydraulically.

It is possible to automate the system through equipment such as concrete distributors, cleaning / oiling machines, plotters, or other additional machinery.



### Battery for Panels

Vertical batteries are designed for **the mass production of precast concrete panels and offer high productivity in small spaces**. A further benefit of this type of formwork is that both sides of the elements are in contact with the casting sheet, thus obtaining an excellent finish.



The structure consists of a base frame equipped with rails, above which run up to 20 vertical steel panels, internally reinforced by a series of combs. Each vertical panel is made of 10 mm thick counter-cast sheet, thus guaranteeing a homogeneous high-quality finish. Between one panel and the other there are horizontal bases with variable height and vertical separators, also movable, to be able to satisfy every customers needs in terms of size. It is possible to use self-compacting concrete (SCC) thanks to the rubber seals that ensure an absolute seal. Finally, the battery is complete with walkways, parapets and access stairs to the upper part of the banks during the preparation, casting, and de-moulding phase.





## Our moulds for **PRECAST**



### Tilting Tables

The tilting tables are designed to produce precast architectural panels, exposed, solid or sandwich panels. Thanks to the height-adjustable sides and internal separators, they make it possible to produce elements of various thicknesses, widths, and lengths to become an integral part of residential, commercial, and industrial structures.

When the sides of the formwork are closed, there is perfect impermeability thanks to a series of gaskets along all the internal profiles.

At the end of the curing process, the table lifting system allows easy removal of the panel from a vertical position. This system consists in a rotation of the table via a series of hinges lifted by telescopic hydraulic cylinders the number of which and force calculated according to the measurements and load capacity of each table.

The cylinders are activated by a hydraulic control unit equipped with pumps and electric motor and control devices, with which it is possible to move one or more tables according to the customer's needs.



### Moulds for Beams

The universal beam line to produce prestressed beams are completely modular and allow the manufacture of multi-section beams of different sizes according to the specific requests of the customer.

Depending on the elements to be produced, the sides can be modular in height and in length, to give the customer maximum flexibility with the minimum number of pieces.

The sides for high elements are equipped with safety platforms and parapets.

When the sides of the formwork are closed, there is perfect impermeability thanks to a series of gaskets along all the internal profiles.





## Our moulds for **PRECAST**



### Stressing Abutments / Heads

Group of steel structural elements for anchoring the strands which consists of two heads, one active and one passive. The active firing head is anchored to the ground, by means of reinforced support structures and composed of cylinders for the relaxation of the strands in safety. During the casting maturation phase, the tension of the strands is cushioned by the iron collars, positioned, and removed with a manual or hydraulic system. Fixed or passive firing head. The structure is the same as the mobile one without the aid of the relaxation cylinders.



### Self-Reacting Structure

The self-reacting structure can be external to the casting line or be incorporated in the lower part of the frame according to the customer's needs. Essential equipment for a production line of prestressed elements are the hydraulic power units and strand stressing jacks to be able to perform the tensioning of each single strand, and the relaxation units to proceed with the de-tensioning of the strands with a single movement of the relaxation head of the prestressing line.



### Mini T beam Lines

It is a generally long formwork, self-reacting or with stressing abutments/ heads, with multiple channels, to produce prestressed joists with strands or wires.

They are fixed formworks in which the various operations of casting, removing, cleaning, oiling, pulling and cutting strands can be carried out using automatic machines that run on rails fixed to the ground or integral with the formwork itself.





# 04

## Our moulds for **PRECAST**



### Moulds for Columns and Plinths

Moulds for columns are extremely versatile and easy to use. The precast elements generally produced can vary in width, length, and position of the self/corbel.

For this reason, the design of the formwork can be very different depending on the types of elements that the customer must produce.

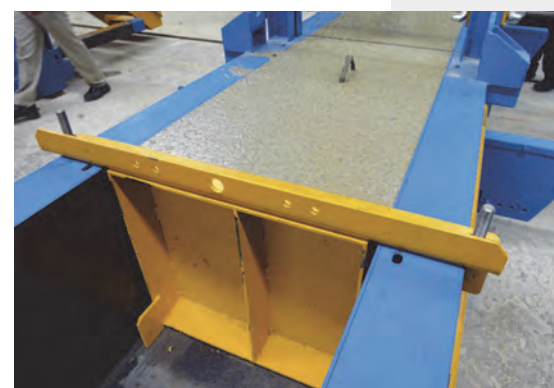


### Manual mould

The designed to produce columns of only one dimension in width, the opening of the hinged side panels is done manually.

The formwork can be equipped with corbel boxes on all four sides of the pillar, inside which the shapes of each corbel will be inserted. These compartments can be “excluded” by inserting a flat sheet.

To obtain the desired lengths of the pillar, dividers are used fixed by means of mechanical and magnetic accessories to any point of the formwork.





## Our moulds for **PRECAST**



### Columns battery moulds

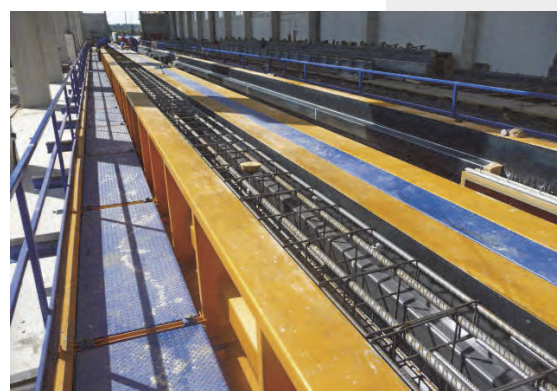
Designed to produce columns with different widths, in the case of a battery form with 2 pockets the central section is fixed while the side ones are removable or hinged.

With this formwork it is possible to produce columns with shelves on a maximum of 2 sides (3 in the case of batteries with 2 pockets). The

opening system, which can be mechanical or operated by hydraulic cylinders, moves the sides and bottoms, thus facilitating the removal of the elements.

The bottoms can be replaced with others of different widths and adjusted in height, thus allowing the dimensions of the pillar to be varied.

The positioning of the separators allows to obtain pillars of different heights.



### Floors and Roofs Moulds

#### TT Slabs and Winged Roof Beams

The formworks to produce prefabricated roofing elements and floors are of the self-reacting type. This means that the pull heads and the strand tension contrast structures are integrated within the formwork itself.

On one side of the track there is the “fixed head”, whose function is to fix the cables under tension, while on the opposite side there is the “relaxation head”, where the de-tensioning cylinders of the strands are applied.

Essential devices for a production line of prestressed elements are the hydraulic power units and pulling lances to be able to perform the tensioning of each single cable, and the relaxation units to proceed with the de-tensioning of the strands with a single movement of the heads of the track.





# 04

## Our moulds for **PRECAST**

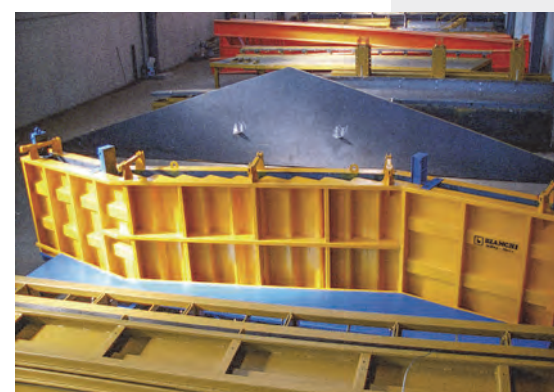


### Floors and Roofs Moulds

#### Curved Roof battery

Battery Mould to produce roofing elements for these industrial buildings that are coupled to the so-called “wing” roofing beams.

The elements can be flat or ribbed, curved or straight in the depending on building roofing solution.



### Moulds for Stairs

Bianchi Technology for Precast specializes in the production of **fixed and adjustable formwork for precast stairs**. The staircase is in fact a precast element that can be completely variable in all its dimensions.

When it is necessary to produce many elements with the same riser and tread dimensions, the best solution is that of a fixed formwork.

On the other hand, when it is necessary to produce stairs of always different sizes, the optimal solution is to use a flexible formwork.

Considering the casting from a vertical position (to have the best finish on both the upper and lower part of the element) in the first case the stair formwork (Fixed) will be composed of a base frame, 2 lateral sides (one smooth with the shape of the lower part of the stairs and another with folded sheets that replicate the different steps) and at the two ends of the banks there is the equipment for the landing.





## Our moulds for **PRECAST**



### Custom Moulds

Over the years Bianchi Casseforme has collected numerous requests from customers with unusual needs and has always been able to satisfy them thanks to the experience acquired.

This was possible thanks to the studies carried out on each individual formwork, starting from the initial design of the prefabricated concrete element that the customer must produce and then delivering solutions with a high-quality content.

Among the latest creations carried out by Bianchi you will find many of different dimensions and purposes, testifying to the versatility of our company.

These include a water containment channels, post-stressed panels for water collection tanks, bleachers/steps for stadiums, feeders for animals.



### New Jersey Barrier

Another piece of equipment that in recent years has been gaining ground in precast companies, especially in Italy, is that concerning the **New Jersey NDBA** (National Dynamic Barrier ANAS [The Italian Road Authority]) road barriers that only those who acquire **ANAS certification** have the right to produce.

The certification considers scrupulous tests and checks on performance, resistance and safety.

Bianchi manufactures formworks (single or double) and turning devices, useful for the extraction of the element from the mold and for its overturning, as the production of New Jersey barriers is almost always cast upside-down with respect to the direction of use.





# 05

## Our moulds for **PRECAST**



### Bridge beams Moulds

Production lines for prestressed elements, designed for the **construction of concrete beams for bridges, viaducts and high-speed railway sections.**

These formworks can be adjusted in height, width and length according to the customer's needs.



The formwork is dedicated to the element to be produced, on one side there is the fixed side whose function is to fix the strands in tension, while on the opposite side there is the active head, i.e. where the cylinders for the relaxation of the cables before cutting, once the concrete has cured.

Essential devices for a production line of prestressed elements are the hydraulic power units and pulling lances to be able to perform the tensioning of each single cable, and the relaxation units to proceed with the de-tensioning of the strands with a single movement of the heads of the track.





## Our moulds for **PRECAST**



### **Moulds for 3D Elements**

#### **Monobloc housing**

Bianchi Casseforme stands out for its special production systems for housing units, called 3D-Betontcasco.

This method, developed by the Dutch company Casco Totaal, consists of building completely prefabricated housing modules in the factory.

The modules are then transported to the construction site and assembled in a very short time. Each block becomes part of a housing unit.

This project became a reality in 2015 and today Casco Totaal produces modular housing units in full time. Bianchi Casseforme Srl has created the entire system in cooperation with Casco Totaal.

More in detail, a 3D-Betontcasco module consists of 2 longitudinal external walls, a ceiling and 1 transverse wall. The floor is a flat panel resting on the side walls (once the module has been removed) thanks to their internal structure.



Once removed, the element is loaded onto a pallet and taken inside another factory to proceed with the finishing.

These take place inside a Bianchi Casseforme Carousel, as in an automotive production line where a different operation is performed in each station.

By means of idle and motorized transport wheels, the module is moved from one work station to the next.



## Our moulds for **PRECAST**



### Mould for Tanks

Mould for modular precast elements of different sizes and uses: electrical substations, prison cells, bathrooms, tanks, etc.

The purpose of the system is to produce a “monobloc” in precast concrete, where the 4 side walls, the floor or the ceiling are produced in a single solution, without any need for assembly on site, thus significantly reducing the time of preparation.

The element can be thrown either upright or upside down. In the second case, a lifting sling and a hydraulic rotation device is required, supplied together with the formwork.



### Electric cabin

Formworks for modular precast elements of specific dimensions for the construction of approved **electrical substations**.

The production in precast monobloc concrete allows to create a room dedicated to the electrical system with **high resistance walls**, without having to assemble the modules on site with advantages in construction times and costs.

The prefabricated monobloc electrical substations are designed to guarantee **maximum safety**, ensuring ventilation and waterproofing, with holes prepared for the passage of cables.





# Automatic machines for the automation of the **PRODUCTION PROCESSES**

Bianchi Casseforme specializes in machines for the production of precast concrete.



## Plotter

The Plotter is an automatic machine that allows to **considerably optimize the production times of concrete panels**, increasing precision thanks to minimum tolerances and thus obtaining high quality panels.

Specifically, the plotter traces on the surface of the table the shape that will be followed for the positioning of the sides and any inserts for doors and windows, this action takes place through a nozzle that sprays a red or white anticoagulant paint forming guidelines that can be continuous or dashed.

**The power supply is electric** and depending on the type of panel production, which can be **fixed for a carousel or rail mounted**, the plotter consists of a structure supported by 4 wheels running on rails and is equipped with a cable reel in the first case; while in the carousel a fixed structure under which the pallets run in sequence.



## Brushing machine

Designed for **cleaning the long line tables and pallets** found in precast concrete panel production plants, the Brushing Machine produced by Bianchi **automates the entire cleaning and preparation process** of the tables between one production shift and the next, **significantly reducing time and therefore the labor costs**.

The machine is essentially composed of a **central rotating brush** that covers the width of the platform and removes residues from the casting surface (for larger residues there is a scraper in front of the main brush) and an **extractor** with filters; it can be equipped, on request, with two further side brushes which also allow cleaning the surface of the sides of the tables.

The fine powders are accumulated inside two containers positioned on the sides of the structure.





# Automatic machines for the automation of the **PRODUCTION PROCESSES**



## Oiler

To optimize production and achieve **perfect concrete panels**, a fundamental step is the application of the release agent on the casting surface of the tables, if the latter were applied in a non-homogeneous way, the panel would be clearly visible, with stains, as the concrete must dry constantly and uniformly over the entire surface to pass the visual examination.

To minimize this risk and avoid human error, especially in a production plant that works automatically, Bianchi Casseforme **also produces machines for the application of the release agent on the casting surfaces** by means of a pump that feeds a series of nozzles, which in a uniform and homogeneous way, spray the product and prepare the casting surface for the casting phase, guaranteeing constant results over time.



## Washing plant for panels

Bianchi Casseforme manufactures **machines for washing precast panels**, allowing the customer to offer on the market panels with exposed aggregate finish.

The washing takes place thanks to the action of two lines of brushes which, together with constant and uniform jets of high pressure water, guarantee the **total and perfect removal of the small external layer of the panel**, with the help of a surface retarder, this is **easily removed**.





# Automatic machines for the automation of the **PRODUCTION PROCESSES**

Projects.

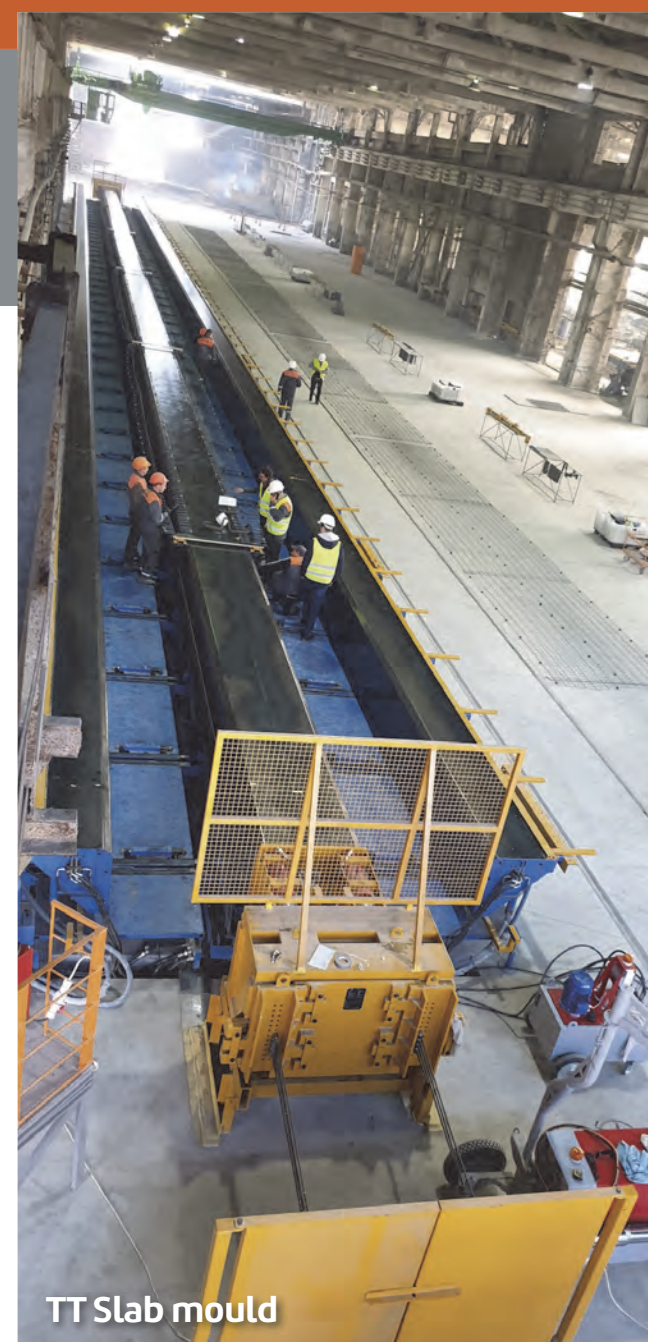


## Turning Devices

Precast concrete not only requires formworks, but also auxiliary equipment which plays a fundamental role in **facilitating the activities of the operators inside the factory.**

Turning devices are machines that allow you to **rotate and sometimes de-mold the concrete elements.**

Bianchi supplies turning devices for Twin wall panels, for New Jersey road barriers and for 3D elements such as tanks or monoblocks.



TT Slab mould



TT Slab mould



Stressing Heads



Tanks mould



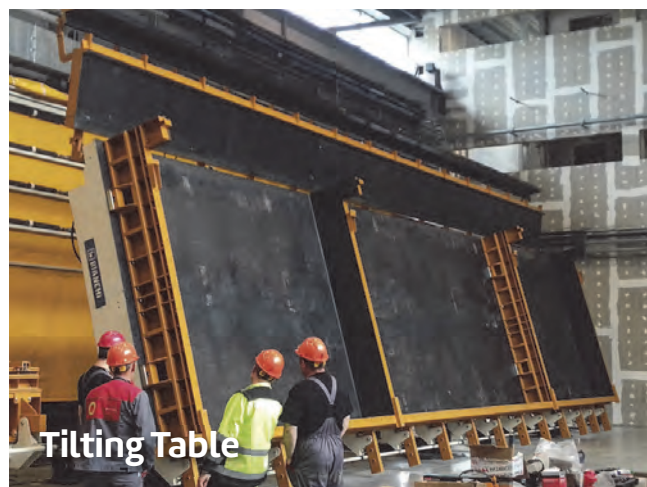
TT Slab mould



# 07 PROJECTS



T Beam mould



Tilting Table



Column mould



Mini T Beams lines



Mini T Beams lines



I Beam mould



Column mould



Battery for Panels



Battery for Panels



**BIANCHI**  
TECHNOLOGY FOR PRECAST



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