Moulds and Plants for the Precast Industry
Powerful results

Since 1976 tecnocom has engineered and produced moulds and complete plants for the residential, industrial and road construction. Our worldwide success is complete on long-term expertise, reliability and customer satisfaction.
Building with Precast Parts – Commercial Facilities
Battery Moulds

High productivity in the manufacture of precast concrete elements

Battery moulds can be supplied in customized sizes, number of pouring bays and as single or double battery moulds. The number of bulkheads determines the number of bays — variably adjustable to suit the desired production capacity. The steel plate is ultra flat and guarantees high-quality elements with smooth surfaces on both sides.

Vibrators fitted to the bulkheads assure the effective compacting of the freshly poured concrete. On request, the battery moulds can be equipped with various types of heating systems in order to accelerate the concrete element’s curing process. The bulkhead groups are confined by tensioning walls with integrated hydraulic clamping units. These walls brace the entire group during production.
Tailor made production of precast concrete elements

Tilting tables are designed for the fabrication of large area reinforced concrete products. Integrated high-frequency vibrators facilitate optimal compaction of the freshly-poured concrete. The surface of the steel plate is ultra flat and guarantees a high-quality concrete surface. On request, the tilting tables can be equipped with various types of heating systems.

Thanks to its robust welded profile structure it can be inclined by up to 75° to allow straightforward removal of product and subsequent transportation.

The combination of various tilting tables can be used as one entire shuttering surface. Furthermore, each tilting table can be manufactured according to the customer’s precise demands. The tables are available in various sizes.
Staircase Shutters

tecnocom manufactures a wide range of shutters for the production of staircases and landings – from simple shutters and/or double battery shutters for fixed standard staircases, all the way up to flexible shutters for variable staircase sizes and shapes. This product is available both as an all-steel model for especially long lifetime and as a steel/wood model for the greatest degree of flexibility when manufacturing staircases having the most-varied shapes and sizes.

3-D Shutter Parts

For the manufacture of prefabricated 3-D concrete parts - e.g., transformer substations or elevator shafts – we offer a wide range of shutters with different designs appropriate to the desired degree of automation and available manufacturing space. Both continuously running concrete parts and concrete parts with a roof or floor can be produced. The shutter core is either conical in shape or equipped for hydraulic or mechanical reduction of volumetric capacity.
For the manufacture of prestressed concrete parts, we make both shutters with self-reacting moulds and traditional shutters with foundation anchorage. In the first case, the shutter structure itself can counteract the preload forces, and the customer doesn’t have to provide for a concrete depression in his plant. Both solutions make use of relaxing cylinders and safety rings.

Concrete Parts for Industry and Commercial Building & Construction

tecnocom offers a wide range of solutions for the manufacture of concrete parts for industry and commercial building and construction; from tiltable production lines all the way up to stationary conveyors for the manufacture of wall panels, fixed and variable shutters for supports all the way up to complex multi-purpose shutters for beams in the most varied sizes and shapes.
Roof Trusses for Industry and Commercial Building & Construction

Roof trusses for industry and commercial building and construction can have a wide variety of shapes and sizes. Our extensive experience enables us to find the right solution for any situation. Besides shutters with self-reacting moulds and shutters with foundation anchorage, we also make shutters for the production of straight and curved plates, gables, cladding boards, water gutters, and side beams. We thus cover all the requirements of this sector.

Ceiling Slabs

tecnocom manufactures shutters with self-reacting moulds as well as shutters with foundation anchorage for the production of heavy-duty prestressed ceiling slabs (1,200 kg/m² and up to 35 meters in length). Omega beams, reverse Omega beams, TT beams, TT beams with lower plate, I beams, double-ribbed elements with hollow tube and flat ceiling. They can be automatically adjusted for different heights, widths, and thicknesses via the hydraulic drive, an operator’s station, or by remote control.
Concrete Parts for Street and Bridge Construction

tecnocom makes both shutters with self-reacting moulds and traditional shutters with foundation anchorage for parts with a preloaded stress of 25,000 kN: V beams, hollow bridge girders, bridge girders with a plate, and curved tunnel beams. These parts are used in the construction of viaducts, bridges, or high-speed railroads.

tecnocom makes shutters for the manufacture of New Jersey beams and balustrades for viaducts. These parts can be manufactured both in battery moulds and using carrousels if higher production is needed.
Towers for Wind Turbines

The manufacturing methods and shutters which tecnocom employs for wind turbine towers are as innovative as wind energy itself. tecnocom has developed specific solutions for this sector and has numerous large-scale reference installations.

Stadium Grandstands

tecnocom can supply both individual and connected shutters with manual or hydraulic handling for the manufacture of straight or curved stadium grandstands.

Additional Concrete Parts

tecnocom also designs shutters for the manufacture of water tanks, wine cisterns, pools, and basins.
Carrousels

The Innovative Solution for the Manufacture of Precast Parts

EBAWE Anlagentechnik GmbH designs, manufactures, and installs complete carrousels for the production of the most-varied wall and ceiling slabs. At our site in Eilenburg (Germany), we develop individual plant concepts tailored to our customers’ specific needs – including the desired level of productivity and the availability of funds. The production facility is controlled and monitored by a Manufacturing Execution System by means of which all pallet movements are efficiently maintained and controlled using our proprietary control technology. Our many years of experience in the area of international machine and plant construction makes EBAWE the ideal partner for your projects – regardless of size and kind. Your success is our goal!
Echo Precast Engineering, located in Houthalen (Belgium), designs machines and equipment for the manufacture of prestressed concrete parts. Our know-how and our services have a worldwide reputation. We combine extensive experience with individual consulting, and can help our customers to meet market demands. The goal is to build in an energetically efficient, affordable, and environmentally sustainable manner. Prestressed concrete parts (e.g., hollow core slabs) fulfill all of these criteria and thus permit future-oriented construction.

**Our Experience - Your Key to Success!**

- Slipformer
- Fully automatic plotter
- Concrete aspirator
- Multi-angle concrete saw
- Multifunctional trolley

Prestressed Concrete Parts
Machine and Equipment for Steel-Reinforced Concrete Processing

progress Maschinen & Automation manufactures installations for processing steel-reinforced concrete. On the basis of extensive know-how and exact planning, progress can provide tailor-made solutions to individual customer needs.

Automatic Stirrup Benders

The latest generation of automatic stirrup benders exhibits a number of technical details permitting both two-dimensional and three-dimensional bending. Sophisticated straighteners, a precise wire guidance system, and an auto-correction system permit smooth and efficient work processes.

Lattice Girder Welding Machines

Highly automated lattice girder welding machines allow lattice girders to be produced – and not just in standard types and lengths. The just-in-time principle permits the flexible manufacture of the most-varied types of lattice girders. These lattice girders can display different heights and variable diameters.

Fully Automatic Mesh Welding Plants

Modern automation technology permits bespoke mesh to be welded lengthwise and crosswise with the highest level of work safety and affordable costs. Bespoke mesh with different patterns, dimensions, and wire diameters can be individually manufactured according to CAD-CAM specifications. The mesh welding plants can be expanded with a bending station, which greatly extends your product palette.

Straightening Machines

When processing rebar, precise straightening, high wire surface quality, and precise bending are essential. progress straightening/bending machines process steel from coil, and thus optimize your production process. Low warehousing costs and easier material handling are major factors for cost-efficient production.
The U.A.E. – and especially the Emirate of Dubai – have drawn worldwide attention in recent years as a consequence of excessive building projects undertaken at breathtaking speed. Arabtec Construction LLC has the unique distinction of having contributed to shaping Dubai’s fabulous skyline.

This building and construction company is located in Dubai, but undertakes complex projects in the entire GCC region. For a large-scale project in Saudi Arabia, Arabtec Construction LLC has relied on tecnocom technology: Within one and a half years, 5,000 villas are to be built and surrounded by a kilometre-long wall of concrete panels. In order to avoid high shipping costs, the company is constructing a production facility in the immediate vicinity of the building site; after completion of the large-scale project, this facility will be dismantled to be relocated elsewhere.

Arabtec Construction LLC – a leading building and construction company of the United Arab Emirates.

tecnocom supplies four vertical battery moulds for the manufacture of concrete panels for the surrounding wall. Because the panels have to have a perfect surface finish on both sides, the tecnocom battery mould proved to be the ideal solution: To achieve this, both sides of the concrete panels come into contact with the shutter. Additionally, the battery mould enables high productivity to be achieved with minimal space requirements: The delivered installations make it possible to produce 70 panels per shift, with a maximum size of 8 x 3 meters.

tecnocom is a qualified partner of Arabtec Construction LLC for a construction project of an impressive size: 5,000 villas are going to be constructed in just one and a half years. The goal is to satisfy the most-stringent demands under the most-difficult conditions.
Loyal Customers in Europe

Until the real estate and construction crisis, Europe was one of tecnocom’s core markets. Today, the focus is on international markets, but loyal customers continue to invest, even in difficult times.

Until the dramatic collapse of the building and construction sector, which peaked in 2008 and 2009, Europe was an important market for tecnocom. Besides the domestic Italian market, in particular Spain – where very similar construction methods are employed and hence tecnocom was able to gain a competitive advantage due to its similar products – was a major market. But in Romania and other European countries, too, the company gained more and more loyal customers who, despite the difficult economic situation, are expanding and renovating. Although tecnocom has greatly increased its internationalization in past years, the company is confident that Europe will regain its position as a core market in the foreseeable future.

- **Codelfa**
  - **Tortona, Italy**
  - **Scope:**
    - Mould for curved tunnel beams in 4 different heights, equipped with high-frequency vibrators and heating system

- **Baulemente**
  - **Bucharest, Romania**
  - **Scope:**
    - Long bed for Y beams
    - Long bed for bolster trusses
    - Long bed for prestressed wine posts
    - Moulds for New Jersey beams with self-reacting anchoring

- **Hormipresa**
  - **Santa Coloma de Queralt, Spain**
  - **Scope:**
    - Mould for Y beams
    - Mould for Y beams
    - Mould for T, L and rectangular beams with self-reacting anchoring
    - Mould for pillars
    - Tilting tables
    - Long beds for the manufacture of hollow core slabs
In recent years, the market of the Russian Federation has become increasingly attractive for tecnocom. The following references demonstrate that tecnocom is capable of meeting the special requirements of these markets.

Completely Modernized Factory with New Design

Naberezhnye Chelny, Tatarstan

In 2012, the OOO Domostroitelny Combine precast concrete part factory, located in Naberezhnye Chelny, Tatarstan, celebrated an important anniversary: On the occasion of its 40th anniversary, the facility in the eastern part of European Russia was expanded. The redesigned production facility of OOO Domostroitelny Combine is lit up in bright colors, thus signaling optically, too, the dawning of a new era. tecnocom has equipped the factory with four battery moulds in which numerous interior walls can be manufactured simultaneously on a minimum of floor space.

Largest Precast Part Factory in Southern Russia

Rostov-on-the-Don

The INTEKO Group is one of the leading companies in the field of building and construction in Russia. Its goal is to improve the quality of life in Russia by constructing modern buildings. After taking over the precast part manufacturer KKPD (Rostov-on-the-Don) in 2007, INTEKO immediately decided to completely modernize its entire facilities. tecnocom supplied seven double-battery moulds – all in all, they represent a battery shuttering system with 140 chambers.
For some time, now, tecnocom has been focusing all of its attention on internationalization. The results are impressive.

Internationalization as a Factor for Success

Decades ago, tecnocom established a firm presence in Italy, where it has earned the trust of a great many customers. But the company is now striving to expand its activities beyond national borders. It recognized its potential for the world market, invested more in internationalization and worldwide trade fairs, and prepared its team for the global market. The company's efforts soon paid off: The list of international references includes more and more new projects, underscoring the reliability and flexibility of tecnocom.

References

CONCRETOPOLIS
Fortaleza, Brazil
Scope:
• Mould for TT beams (100 meters long)
• Mould for Y beams (100 meters long)
• Moulds for girder and supports
• Mould for bolster trusses

BRIGADE GROUP
Bangalore, India
Scope:
• 18 tilting tables 8m x 4m
• 4 tilting tables 11,60m x 4m

SICEP TUNISIE
Sbikha, Tunisia
Scope:
• Long bed for the manufacture of I, L and TT beams (100 meters long)
• Mould for TT beams (60 meters long) with self-reacting anchoring
• Long bed for plates (90 meters long, 250 cm wide) with a maximum thickness of 24 cm
• Mould for V beams (100 meters long)
• Mould for U beams (42 meters) with self-reacting anchoring

TAN THUAN THANH
Cán Tho, Vietnam
Scope:
• Two shutter systems (each 95 meters long and 99,6 cm wide) for the manufacture of sheet pile walls