# Moldtech

EQUIPMENT FOR PRECAST CONCRETE PLANTS

# INDEX

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

Design, manufacturing & installation of
**PRECAST CONCRETE EQUIPMENT FOR**

Industrial



Residential



Civil Works



A company committed with
**competitiveness**, delivery **deadlines** & professional **service**
for **tailor made** projects

# DEFINITION OF OUR BUSINESS

## INDEX


1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact


## INDUSTRIAL





## RESIDENTIAL





## CIVIL WORKS





Moldtech

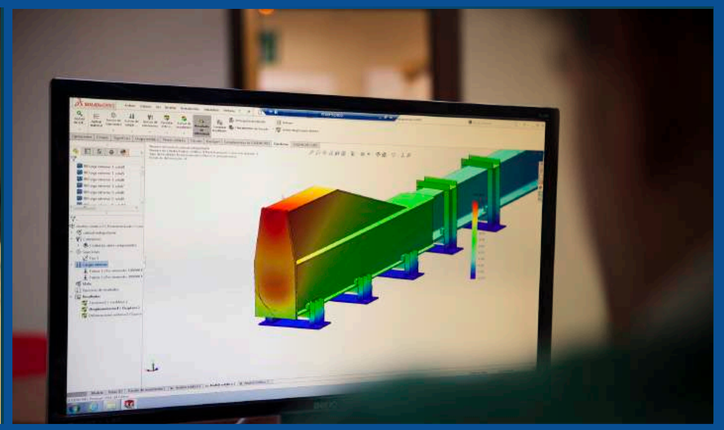
# MORE THAN 30 YEARS EXPERTISE, A LONG TERM PARTNER

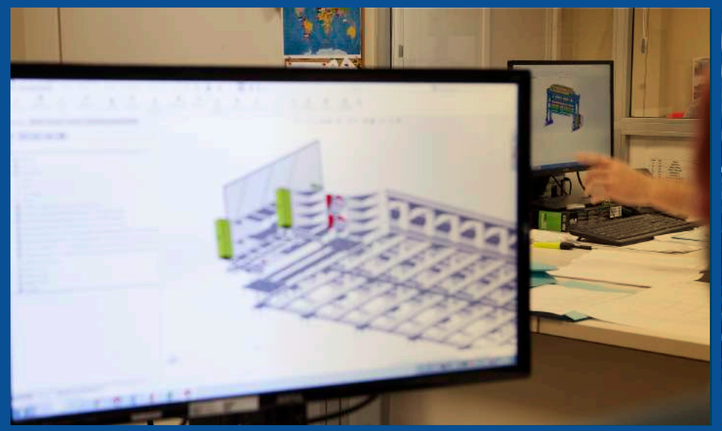
## INDEX


1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact


MOLDTECH IS A FAMILY RUN COMPANY ESTABLISHED IN 1986
TO BECOME A WORLDWIDE REFERENCE IN THE PRECAST CONCRETE SECTOR.









WE REINVEST ANNUAL PROFITS TO IMPROVE METHODS, KNOWLEDGE AND CAPACITY TO CONTINUOUSLY STRENGTHEN THE COMPANY.

# INDEX

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

## MODERN FACILITIES + 15,000 SQM

8,000 SQM PRODUCTION  1,500 SQM CNC MACHINES

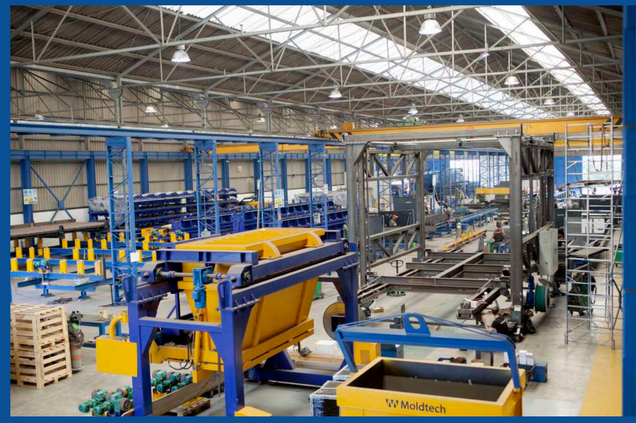















Moldtech



# INDEX

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

MOLDTECH DEVELOPS FLEXIBLE & COMPREHENSIVE PROJECTS
TAILORED TO THE HIGHEST QUALITY, PRODUCTIVITY & SECURITY STANDARDS.

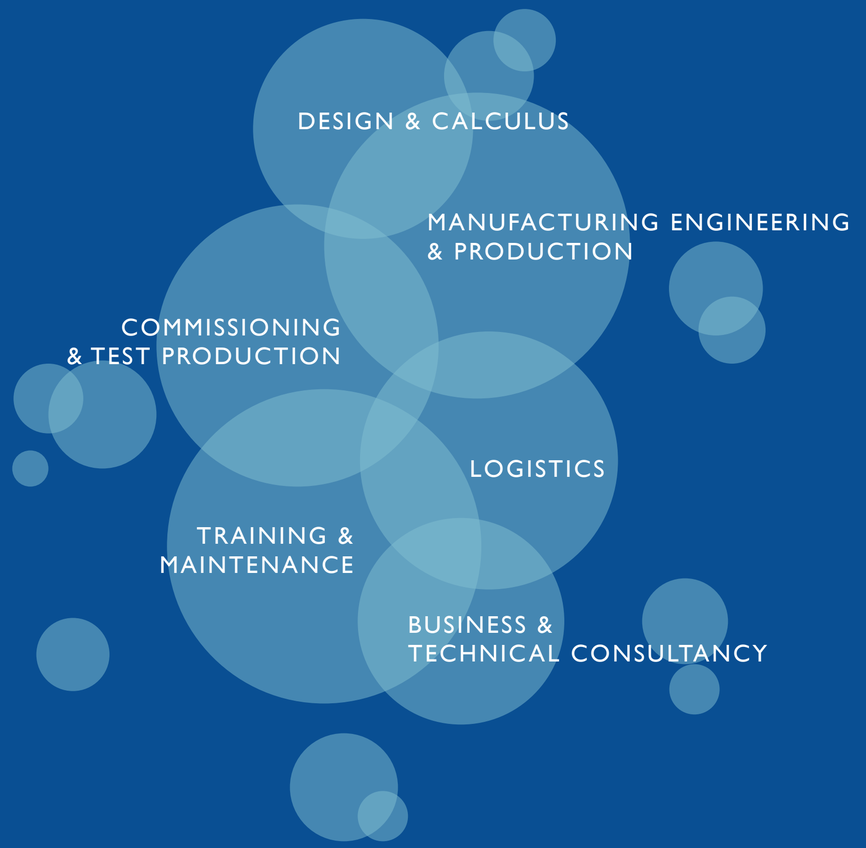


WE STRIVE DAILY TO SERVE OUR CUSTOMERS WITH EFFICACY, PROACTIVITY AND PROXIMITY.

# INDEX

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

WE OFFER OUR CLIENTS ANY RANGE OF SERVICE STARTING FROM PRELIMINARY MOULD DESIGN TO COMPREHENSIVE TURN KEY PROJECTS FOR PRECAST MANUFACTURING PLANTS INCLUDING COMMISSIONING AND PERSONNEL TRAINING.




COMPREHENSIVE PROJECTS WORLDWIDE

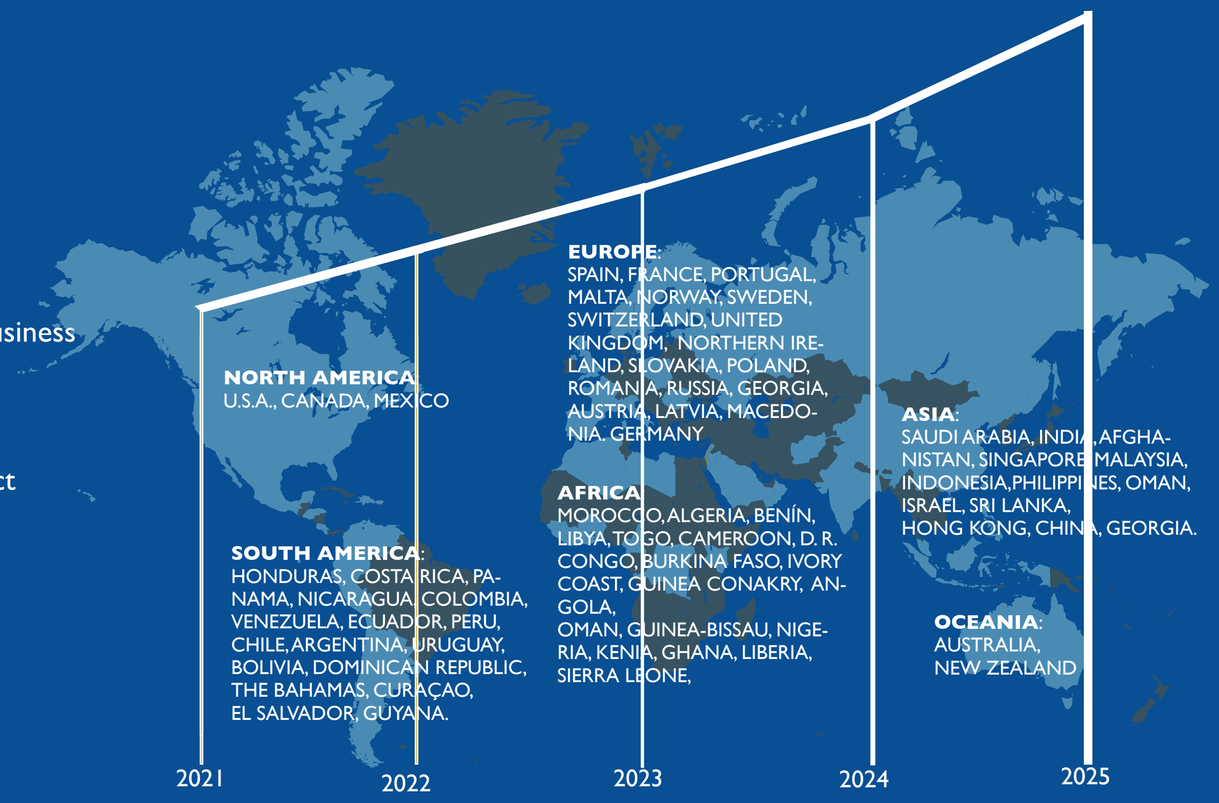
## MODERN FACILITIES + 15,000 SQM

8,000 SQM PRODUCTION
1,500 SQM CNC MACHINES

## MULTIDISCIPLINARY EXPERTISE TEAM

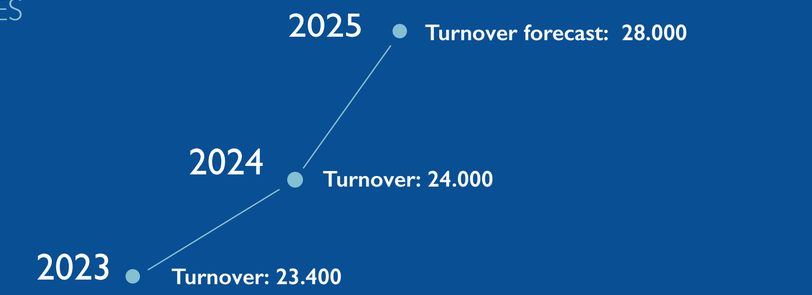
# INDEX

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact




# KEY FIGURES

## SALES

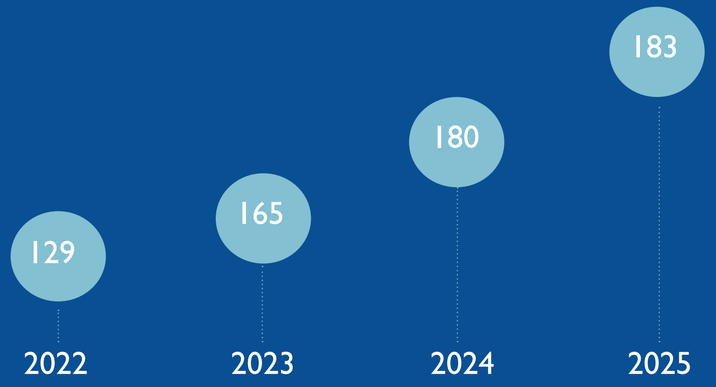



* Data in miles of €

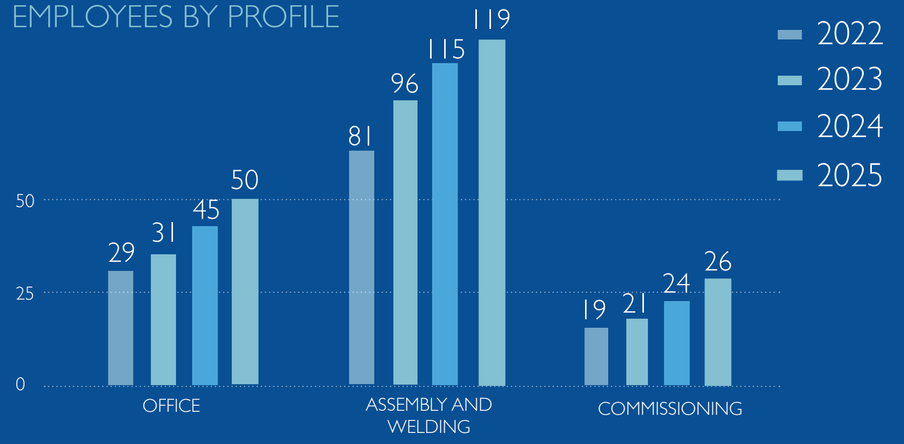
## BROAD INTERNATIONAL EXPERIENCE




## WORKFORCE




## EMPLOYEES BY PROFILE



Moldtech

# INDEX


Definition of our business
Services
Key figures
Featured projects
Location and contact


# FEATURED PROJECTS

# INDEX

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

WE EXECUTED MORE THAN 1000 PROJECTS DIVIDED OVER
MORE THAN 70 COUNTRIES AND IN 5 DIFFERENT CONTINENTS



Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

## SUPPLY:

The fixed table enables the production of configurable units with a thickness of 150 mm, a maximum length of 8.5 m, and a maximum width of 3.4 m.

The table consists of:

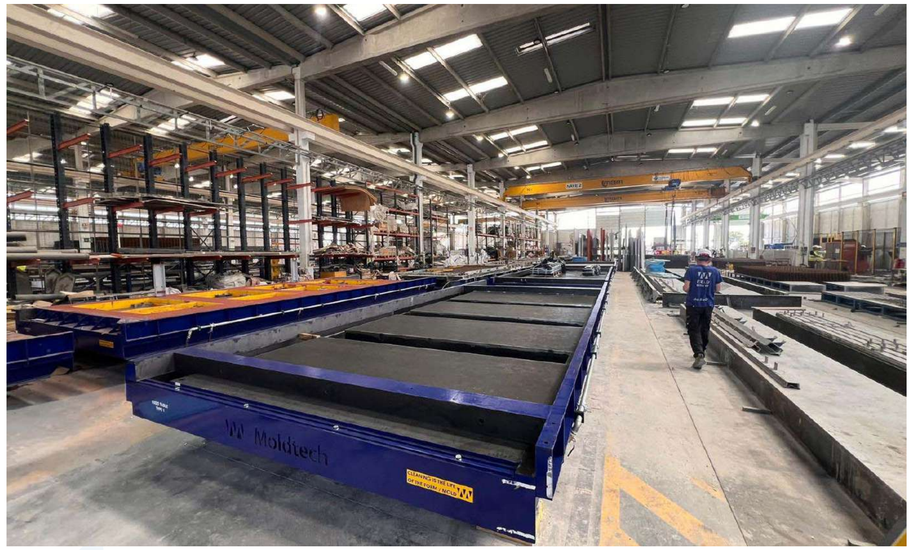
A fixed frame, anchored to the foundation by means of supports.
A fixed working surface.
A hinged side panel.

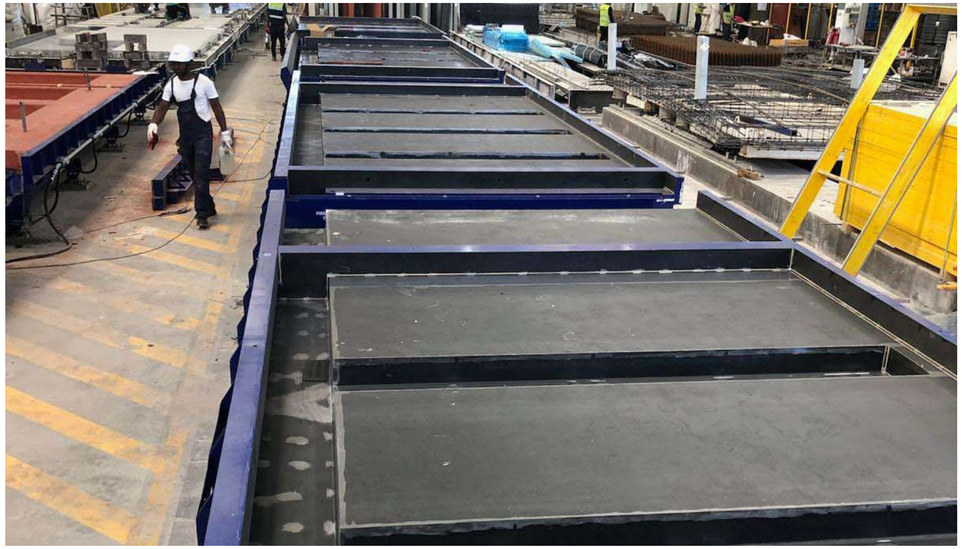
The table is equipped with a pneumatic vibration system located underneath, designed to ensure proper concrete compaction.

It is also equipped with an auxiliary formwork system for the configuration and production of different types of precast elements.

# FIXED TABLE

## PROY26-014 PORTUGAL







Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE 13×4.5 M

## PROY26-001 PORTUGAL

## SUPPLY:

The tilting table consists of one module measuring 13 m in length and 4.5 m in width.

It incorporates a longitudinal shutter adjustable through a manual mechanical system, allowing the production of straight panels with variable thicknesses from 150 mm up to 350 mm, with the possibility of extension up to 500 mm by adding a height extension.

In addition, it is equipped with an electric vibration system designed to ensure proper concrete compaction and consistent quality throughout the production process.

Before operating the machine, it is necessary to become familiar with all its components and operating systems.












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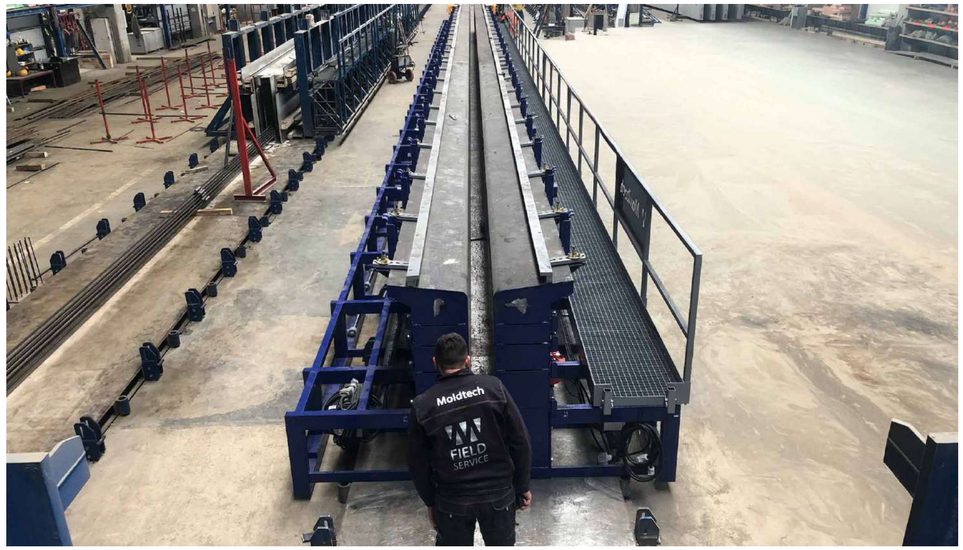
INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 33.75 M I-GIRDER

## PROY25-059 SLOVAKIA






## SUPPLY:

Side form mould designed for the production of precast concrete I-girders, engineered for operation under demanding industrial conditions.

Main technical characteristics:

Total length: 33.75 m (modular configuration of 3 modules of 11.25 m)
Production heights: from 950 mm to 1600 mm
Element type: precast concrete I-girders with variable geometry
Compaction system: integrated electric vibration along the mould
Configuration: modular system adaptable to different plant layouts
Versatility: adaptable to different cross-sections and project requirements
The system is designed to ensure dimensional accuracy, process repeatability, and consistent quality in every production cycle, meeting the requirements for manufacturing structural elements for infrastructure and long-span applications.





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 14X4 M FIXED TABLE

## PROY25-055 POLAND

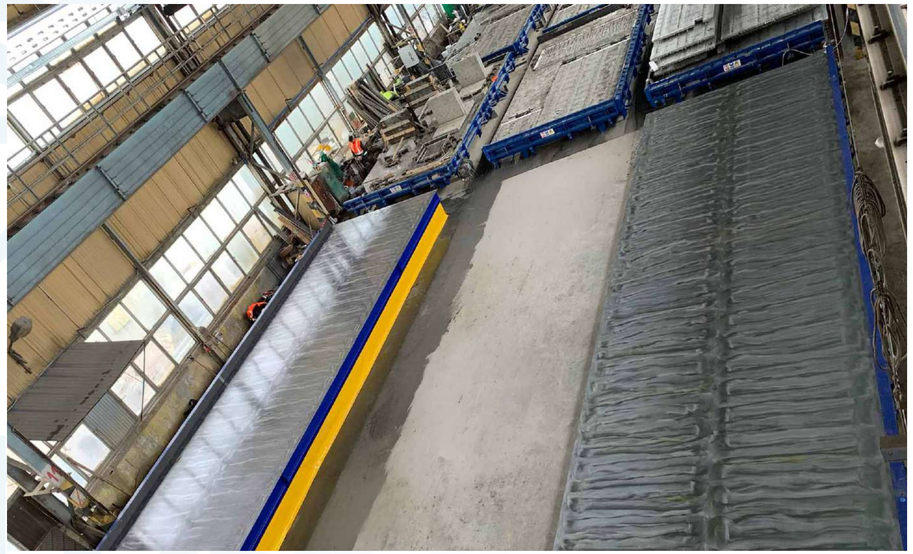
## SUPPLY:

The 14×4 m fixed table allows the production of non-prestressed concrete panels with a maximum length of 14 m and a maximum width of 4 m. It features an adjustable lower longitudinal side from 100 mm to 280 mm.

In addition, it is equipped with a pneumatic vibration system at the bottom and heating tarpaulins (without pre-installation of the heating system).







Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 8 TILTING TABLES 8 X 4.5 M

## PROY25-042 FRANCE

## SUPPLY:

A set of 8 tilting tables designed for the production of large-format precast panels, both for industrial enclosures and residential façades and building envelopes.

With a useful surface of 8.0 m in length and 4.5 m in width each, they allow the production of panels with variable thicknesses ranging from 150 to 350 mm.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE 24X3M

## PROY25-038 SPAIN

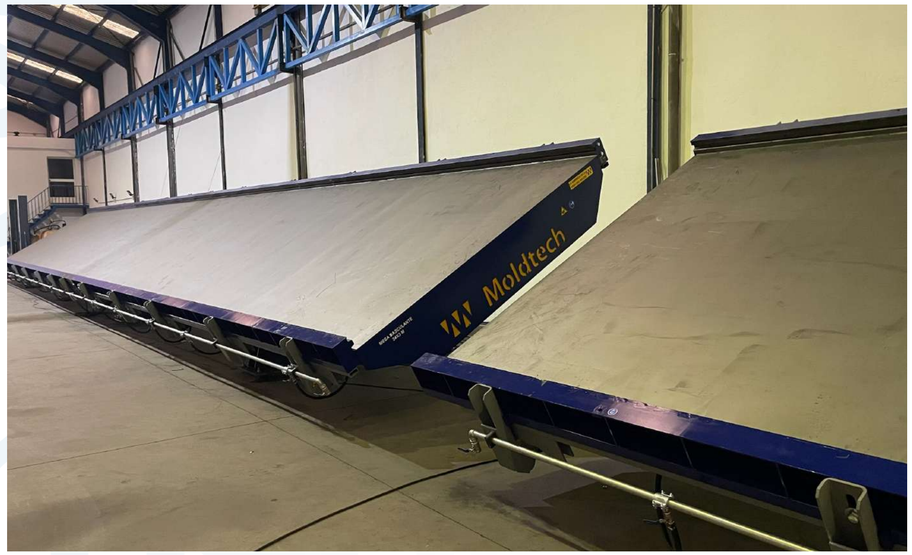
## SUPPLY:

The 24 × 3 tilting table is designed for the production of non-prestressed precast concrete panels, with a maximum length of 24 m, a maximum height of 3 m, and variable thickness.

The tilting operation of the table is carried out by hydraulic cylinders, controlled from the main control cabinet.








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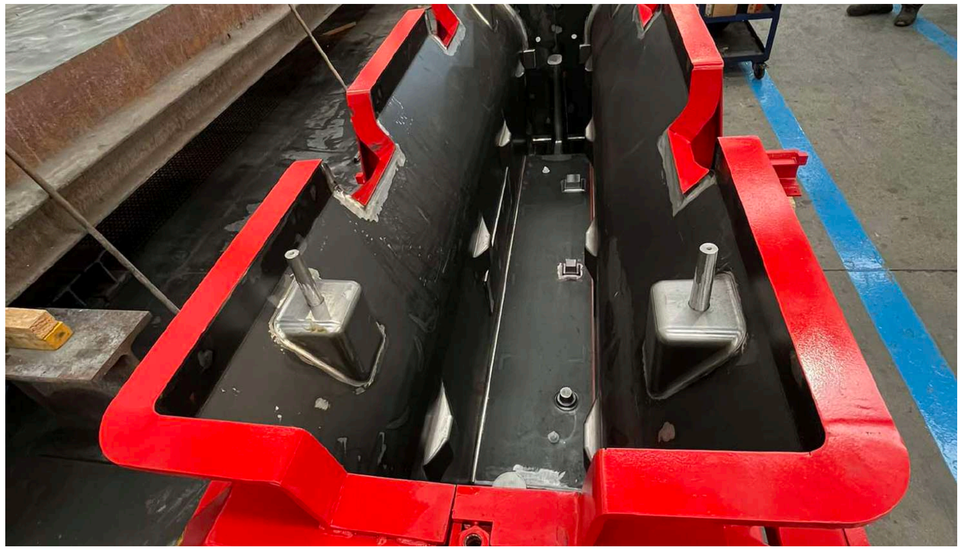
INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# BARRIER MOULD

## PROY25-035 GERMANY



## SUPPLY:

The 3F200 BARRIER MOULD consists of two side panels, an upper insert, and a base which, when assembled, form the element to be produced.

It also incorporates an electrical vibration system controlled from a vibration trolley.





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 36 X 4.5 M TILTING TABLE

## PROY25-034 HUNGARY

## SUPPLY:

The tilting table is composed of three modules, each measuring 12 m in length and 4.5 m in width. The assembly of the three modules forms a production line with a total length of 36 m and a width of 4.5 m.

Each module consists of:

Fixed frame, anchored to the foundation by supports.
Tilting platform, designed to allow a maximum inclination of 74°.
The table is equipped with one lower longitudinal shutter and two lateral transverse shutters, all mechanically height-adjustable to allow the production of elements with thicknesses ranging from 80 mm to 450 mm.

The table is fitted with an electric vibration system located underneath, designed to ensure proper concrete compaction. Formworks and magnets are also supplied to shape the geometry of the element to be manufactured.

The tilting movement is carried out by hydraulic cylinders operated by a hydraulic power unit and a main control cabinet, both included within the scope of supply of this equipment.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

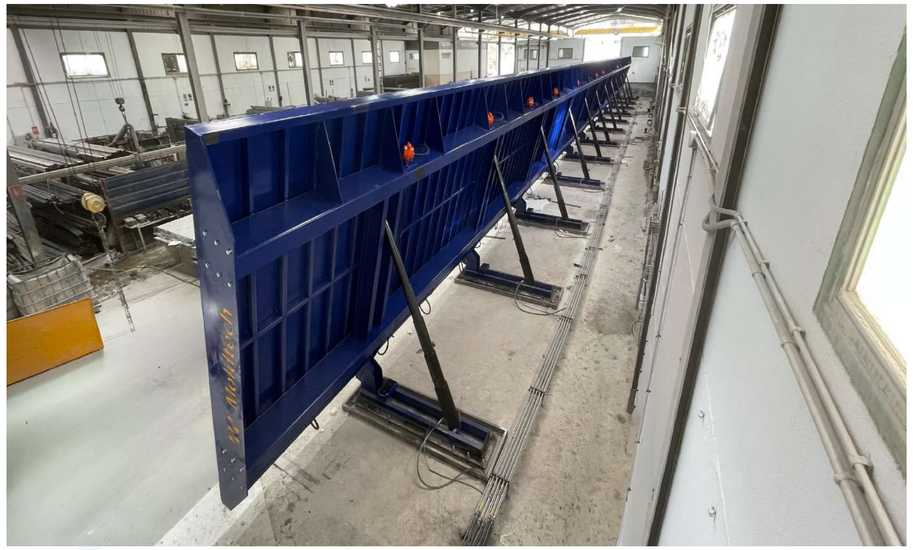
# TILTING TABLE 50X4.M

## PROY25-031 SPAIN

## SUPPLY:

The 50 × 4 tilting table is designed for the production of non-prestressed precast concrete panels. It consists of four independent modules, each 13.75 m long and 4 m wide, which together form a production line of 55 m in length and 4 m in width.

The tilting operation is carried out by hydraulic cylinders, controlled from the main control cabinet.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR TT SLABS

## PROY25-029 ALGERIA

## SUPPLY:

The TT MOULD 400 T L=40 m is designed for the production of prestressed concrete beams with fixed geometry.

The system consists of four modules, forming a continuous production line with a useful length of 40 meters. This configuration facilitates both transport and assembly on site or in industrial facilities.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 3D MOULD 5.7X2.4X3.1 M

## PROY25-017 JORDANIA





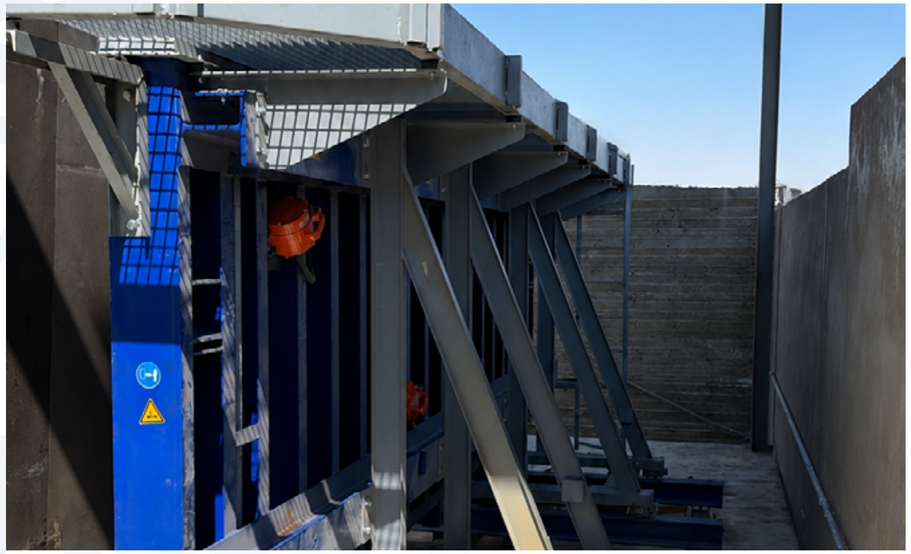
## SUPPLY:

The 5.7 × 2.4 × 3.1 m 3D MOULD WITH HYDRAULIC ADJUSTMENT is designed for the production of non-prestressed concrete elements with variable configurations.

By using additional formwork and inserts, up to six (6) different types of elements can be produced.

The mould is designed in accordance with the specific dimensions and requirements provided by the customer.

The element is casted at 90º so it includes the floor and the ceiling. After curing it is turned 90º by hydraulic turning machine.





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE 50X4.2M

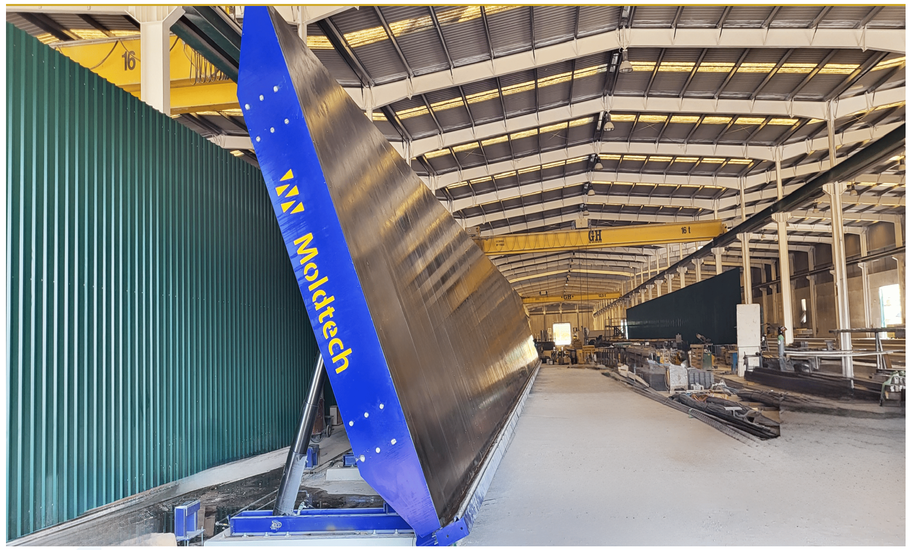
## PROY25-014 SPAIN

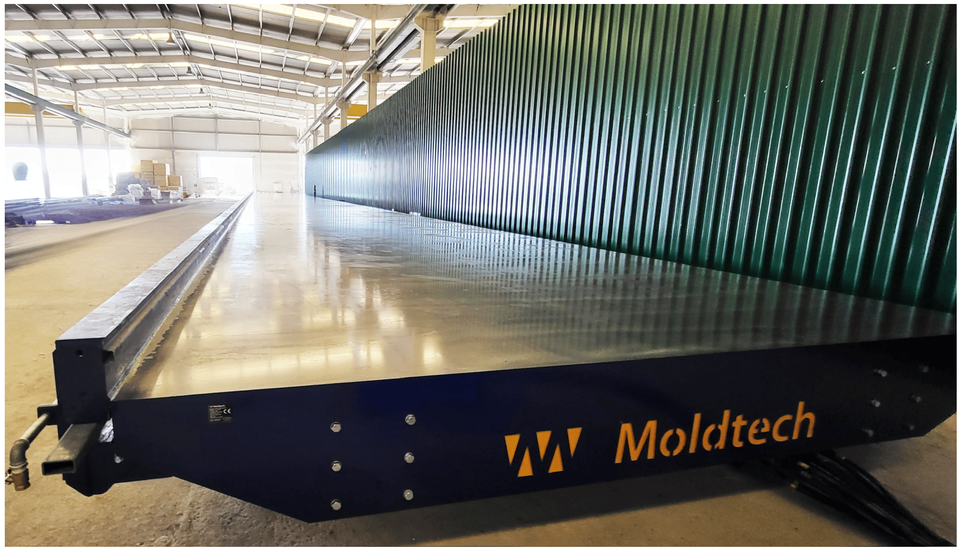
## SUPPLY:

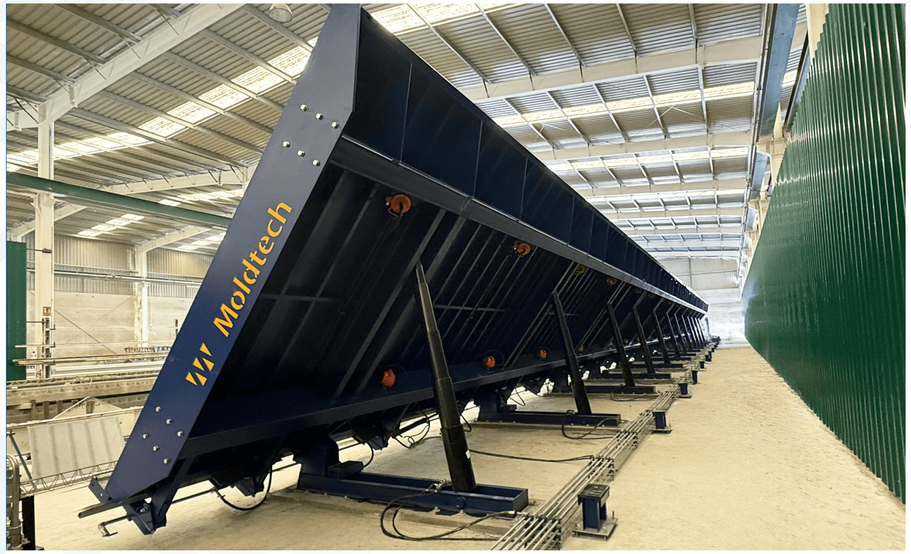
Tilting table consisting of 4 modules measuring 12 x 4.2 m, which, when joined together, form a production line 50 metres long and 4.2 metres wide.

The modules incorporate a height-adjustable longitudinal belt, which enables the manufacture of straight panels with thicknesses varying between 120 mm and 240 mm.

Pneumatic vibration system.






Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# DELTA BEAM + RECTANGULAR BEAM

## PROY25-011 MOROCCO

## SUPPLY:

The Delta beam mold (L = 35 m) has been designed for the production of long-span concrete beams, ensuring geometric precision and stability throughout the entire manufacturing process.

The rectangular beam system (L = 13 m), on the other hand, allows the production of beams with non-uniform cross-sections, adapting to different structural requirements and providing a versatile and efficient solution in the plant.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# FOOTING MOLD

## PROY25-009 SERBIA

## SUPPLY:

Footing Mold Type A combines a fixed and a movable structure with tilting side panels and upper inserts, making the demoulding process easier.

Its hydraulic power unit allows the opening and closing of the movable structure and the operation of the retractable insert, ensuring a fast, safe and low-maintenance production.











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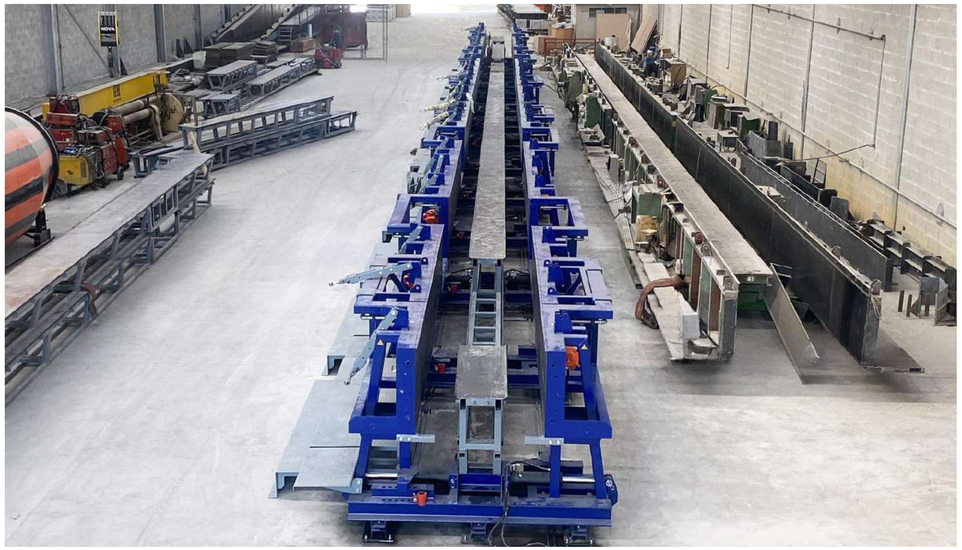
INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SIMPLE MOULD FOR PRECAST CONCRETE COLUMNS 40 M

## PROY25-005 PORTUGAL





## SUPPLY:

A simple column mould with a useful length of 40 metres has been supplied, specifically designed for the production of large-format columns.

This equipment allows the manufacture of columns up to 40 metres in length, with bottom widths varying between 400 mm and 600 mm, and a maximum section height of 600 mm, reaching sections of up to 60 x 80 cm with a bottom depth of 80 cm.

The equipment has an integrated hydraulic power unit that automates the main operations:

Opening and closing of the sides
Raising and lowering of the mould base





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TT MOULD 600 T OF 50M LONG

## PROY25-004 SLOVENIA

## SUPPLY:

The TT mould 600 T, L = 50 m is designed for the production of prestressed concrete beams with variable cross-sections.

The system consists of four modules, forming a continuous production line with a usable length of 50 m. This modular configuration facilitates both transportation and on-site assembly.

The maximum dimensions of the elements that can be manufactured with this mould are as follows:

- Maximum slab width: 2.500 mm
- Maximum bottom width: 500 mm
- Maximum beam length: 50 m










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# HORIZONTAL MOULD FOR STAIRCASES

## PROY25-003 PORTUGAL









## SUPPLY:

Moldtech supplies a horizontal mould for the production of precast concrete stairs, designed to offer maximum versatility and precision in every project.

This equipment allows the manufacture of stairs with up to 24 steps, with the following specifications:

- Landing length (upper and lower): up to 2,000 mm
- Stair width: up to 2,000 mm
- Riser per step: between 140 mm and 220 mm
- Tread per step: between 220 mm and 320 mm

The mould is supplied with removable side panels for the upper and lower landings, supports for fixing phenolic formwork and an integrated pneumatic vibration system to improve concrete compaction and surface finish quality.

Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SELF-SUPPORTING 1500-TON PRESTRESSING BENCH

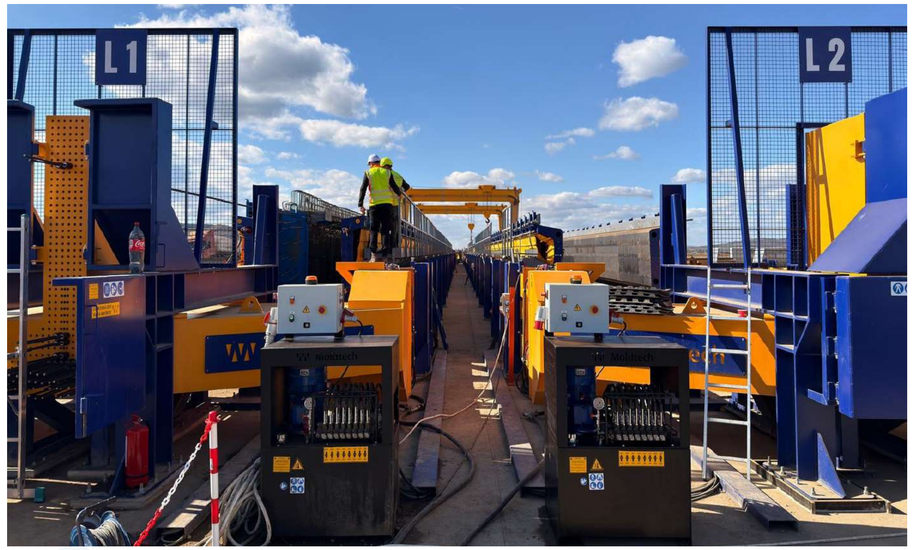
## PROY25-001 ROMANIA

## SUPPLY:

The 1,500-ton self-supporting prestressing bed is designed for the production of prestressed concrete beams on a hydraulic bed with a maximum length of 85 m.

The beam cross-section can be adjusted depending on the set of side shutters and the mould coupled to the bed. The system allows operation with cable stressing and relaxation processes, providing a maximum stressing capacity of 1,500 tons.

The scope of supply includes an active anchorage head, a passive anchorage head, a 92-meter-long self-supporting structure, an 85-meter-long hydraulic bed with a width of 3.8 m, and bottom formwork widths of 950 mm and 500 mm.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 1400-TON PRESTRESSING BENCH

## PROY24-090 ROMANIA

## SUPPLY:

The supply includes 1,400-ton prestressing heads, designed to withstand high tensile forces and ensure safe and precise prestressing operations.

The system is completed with a 100-meter-long universal prestressing bed, featuring a 1.6-meter working width, suitable for the production of long-span prestressed concrete elements under demanding structural requirements.

The installation also includes the use of a hydraulic relaxation power unit, which allows controlled and gradual release of prestressing forces, ensuring operational safety, structural integrity, and repeatable production quality.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SIMPLE MOULD FOR PRECAST CONCRETE COLUMNS 34 M

## PROY24-089 BULGARIA

## SUPPLY:

A simple 34-metre-long column mould is supplied, designed to offer maximum performance in the production of large-format columns.

This equipment allows columns up to 34 metres long to be manufactured, with adjustable sections between 400 mm and 900 mm in both width and height.

It allows the incorporation of corbels on all four sides of the mould.

It includes an integrated hydraulic power unit.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR TT SLABS

## PROY24-089 BULGARIA









## SUPPLY:

Self-stressing mould for 600 tons (1322 kips) of pres-tressing

Hydraulic opening and closing

Mould length: 52.5 m (164')

Mould width: 2500 mm (98-7/16")

Web height up to 800 mm

Rod depth (maximum stroke): 350 mm (13-3/4")

Hydraulic height adjustment

Detensioning cylinders with hydraulic unit

Precast Concrete Equipment

Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE 11,8X3,5M

## PROY24-079 ARGENTINA

## SUPPLY:

Tilting table designed for the production of non-prestressed precast concrete panels, with a maximum length of 11.8 metres, a width of up to 3.5 metres and a variable thickness between 100 and 250 mm.

It incorporates a pneumatic vibration system that optimises concrete compaction and improves the quality of the surface finish. Tilting is carried out by hydraulic cylinders, driven by a hydraulic power unit and controlled from a main control panel.











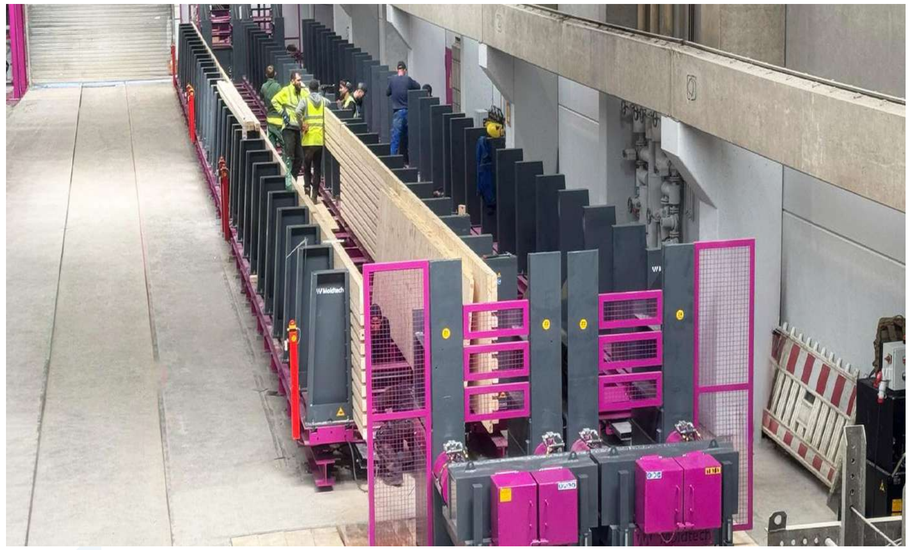
Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# DOUBLE MOULD FOR COLUMNS

## PROY24-077 GERMANY






## SUPPLY:

Double mould for columns

Length: 34.5 meters

Simultaneous production of 2 columns.

Variable section: 280 mm to 1100 mm wide

Maximum height: 1200 mm (up to 1800 mm with supplements)

Adapted for cable tensioning and relaxation: up to 400 tons per line

Double mold for columns with footings

Length: 30 meters

Simultaneous production of 2 columns.

Variable section: 200 mm to 1000 mm wide

Maximum height: 1000 mm

One lane: columns with footings (two 15 m sections)

Another lane: columns without footings





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SELF-REACTING PRESTRESSING BENCH 400 TON

## PROY24-076 NIGERIA

### SUPPLY:

Self-reacting prestressing bench 400tn allows the manufacture of beams up to 52 metres long and with variable heights.

The scope of supply includes:

- Active and passive head system.
- High-strength self-supporting structure











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

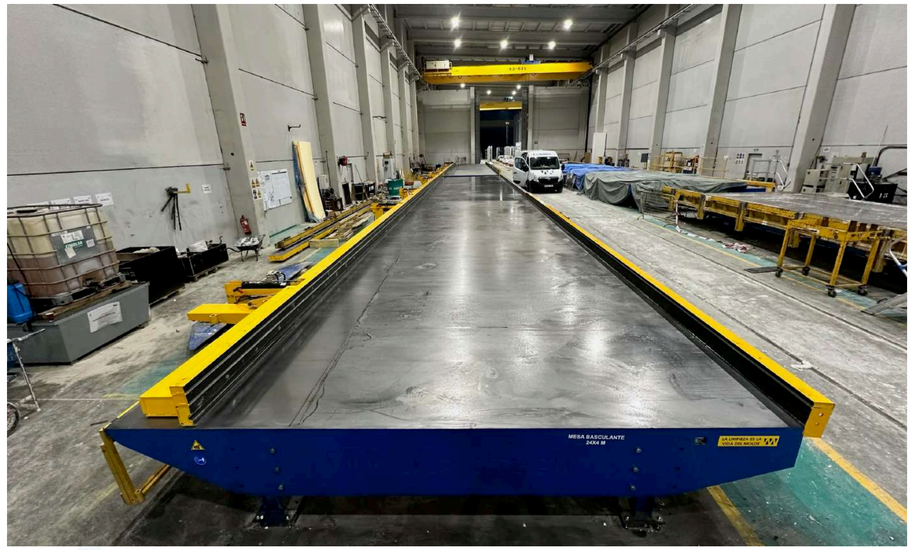
# 2 TILTING TABLES 24X4 M

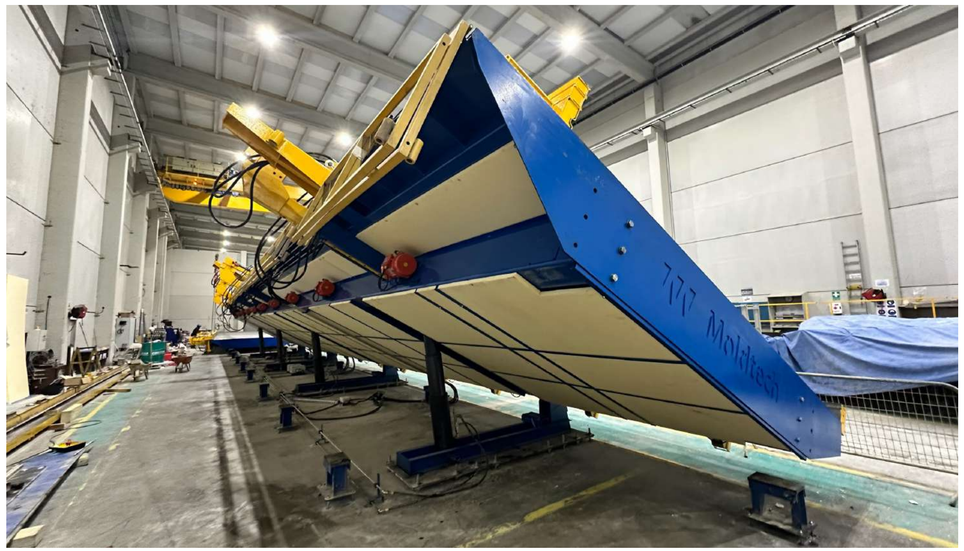
## PROY24-073 SPAIN

## SUPPLY:

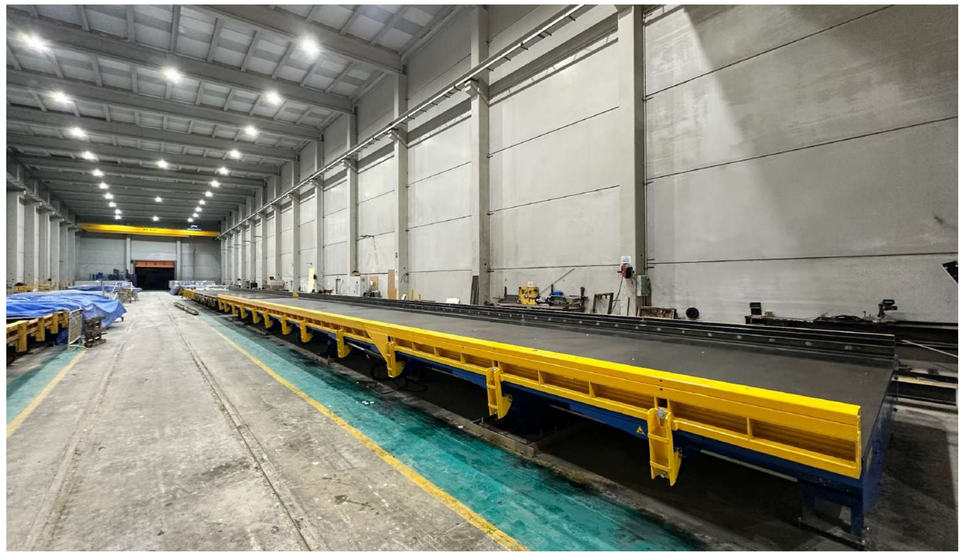
Two 24 x 4 metre tilting tables, designed for the production of large-format precast concrete panels.

These tables enable the manufacture of concrete elements with different thicknesses and configurations, ensuring dimensional accuracy, structural stability and high surface quality. The tilting system allows safe and efficient demoulding of the elements, optimising production times and improving plant operations.





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE 35,4X4M

## PROY24-072 MEXICO

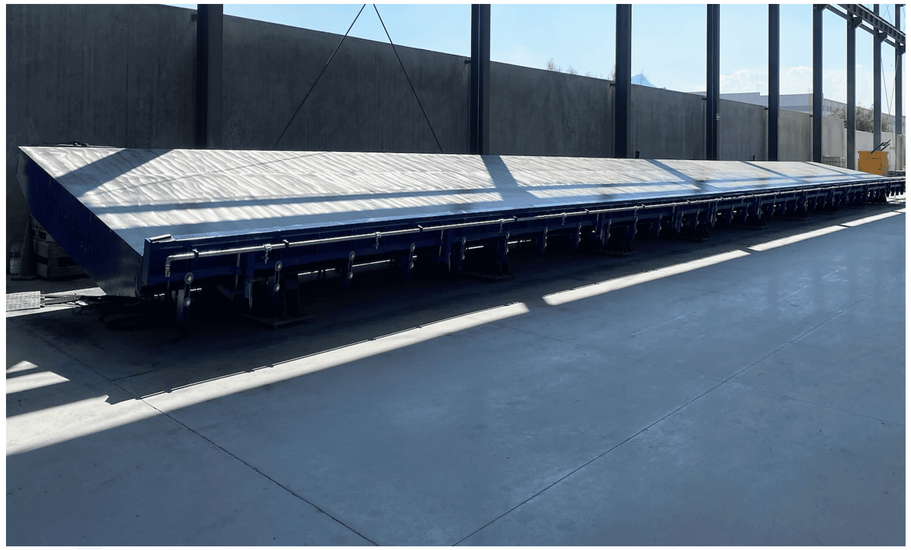
## SUPPLY:

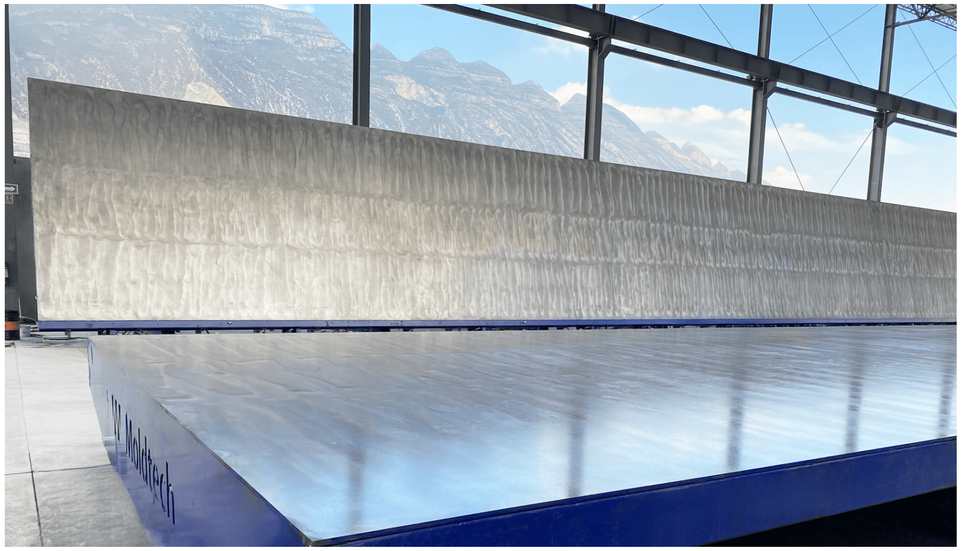
Supply and installation of two tilting tables. With dimensions of 35.4 metres in length and 4 metres in width, it consists of three modules that, when joined

Measuring 35.4 metres long and 4 metres wide, it consists of three modules that, when joined together, form a production line.

These tables allow the manufacture of pieces with thicknesses varying between 110 and 250 mm.

Pneumatic vibration system and specific formwork accessories.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 600 T SELF-REACTING PRESTRESSED BENCH

## PROY24-071 SPAIN

## SUPPLY:

It has been supplied a 600-ton self-reacting prestressing bench, designed for the production of prestressed concrete beams with variable sections and lengths. The equipment includes an active and a passive stressing heads, a universal casting bed, I-beam type side moulds with pneumatic vibration, and a tensioning and detensioning system with a capacity of up to 600 T.

A 25-meter column mould has also been delivered, designed for the production of columns with variable sections, incorporating removable components such as corbel holders and corbels.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# FIXED TABLE 80X5M

## PROY24-070 UNITED KINGDOM

## SUPPLY:

Fixed table designed for producing non-prestressed precast concrete panels.

This table is equipped to withstand high loads and ensure a perfectly leveled surface, enabling the production of panels with uniform thickness and high-quality finishes.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 3D MOULD TRANSFORMER SHED

## PROY24-069 ROMANIA

## SUPPLY:

3D mould for the manufacture of prefabricated concrete transformer houses in a single piece.

This equipment allows for the monolithic production of complete modules, including the bottom slab and side walls, which speeds up the manufacturing and assembly process on site.

The mould is designed to manufacture huts with variable dimensions of 4.65–6.4 m long by 2.45–2.95 m wide, adapting to different configurations according to the needs of the project.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULDS FOR WET CAST BOX CULVERTS

## PROY24-065 MEXICO

### SUPPLY:

Three molds are supplied for the serial production of precast concrete box culverts, along with their side panels and 18 interchangeable bases.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLES WITH STRESSING HEADS IN A PIT

## PROY24-063 USA

## SUPPLY:

2 tilting tables with length of 34.75m (114') and width of 4.27m (14')

One hydraulic unit operating both tables

Mechanically height adjustable bottom shutter for panel thickness up to 36mm (14").

Magnetic shuttering system for the remaining sides using 900 kg magnets, adapters and steel structure.

Hot water heating system using finned pipes

Air vibration system

Stressing heads located in pit for prestress force up to 280 tons (620 kips).

Mobile stressing jack of 160 Kn with stroke of 500mm (19.7").











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MT20 + TURNING MACHINES 90°

## PROY24-062 AUSTRALIA

## SUPPLY:

The MT20 is designed for the continuous production of non-prestressed precast concrete elements with variable height, fully adapted to the client's technical requirements. Its main features include:

Mould dimensions: L=3.7 m; W=2.4 m; H=2.4–1.7 m
Electric vibration system managed by a vibration carriage

90º turning machines – 30 T, designed to turn precast elements











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MODULAR MOULDS FOR ELEVATOR SHAFTS

## PROY24-053 SPAIN

### SUPPLY:

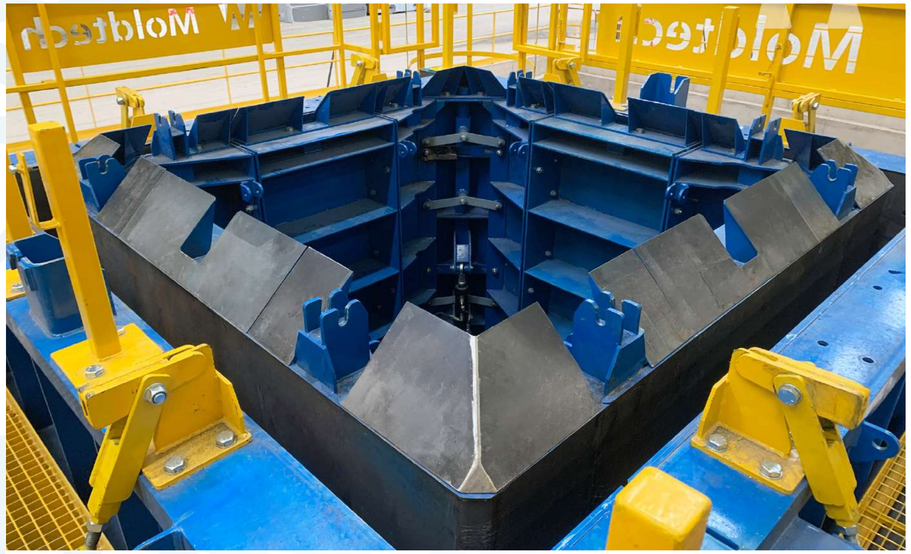
3D mould designed for the manufacture of non-prestressed precast concrete elevator shafts.

This mould is adapted to specific customer requirements, offering customised solutions for different types of parts, with or without brackets.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# CABIN TRANSFORMER

## PROY24-049 FRANCE

### SUPPLY:

5 3D moulds with dimensions of 3.6 metres in length, 3.1 metres in width and 2.4 metres in height represent an advanced technical solution designed for the efficient manufacture of cabin transformer.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR TT SLABS

## PROY24-041 GERMANY

### SUPPLY:

- Self-stressing mould for 600 tons (1322 kips) of prestress
- Hydraulic opening and closing
- Hydraulic adjustment of stem depth
- Length of the mould 52.5m (172')
- Width of the mould 3800m (149-3/5")
- Stem depth 1000mm (39-1/3")
- Slackening cylinders with hydraulic unit for de-tensioning of the strands









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE 60X4M

## PROY24-039 URUGUAY

## SUPPLY:

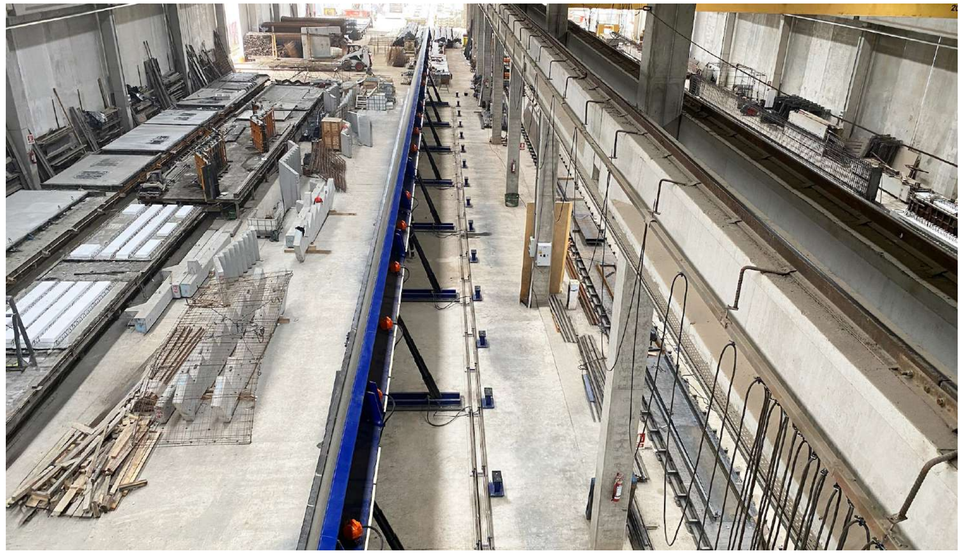
Tilting table with a total length of 60 metres and a width of 4 metres, this installation is designed for the production of non-prestressed concrete panels with a variable thickness between 100 and 250 mm and a height of up to 4 metres.

The table consists of five 11.8-metre modules and two additional 0.5-metre modules, forming a continuous production line.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# BATTERY MOULD FOR RAILWAY PLATFORMS

## PROY24-037 ROMANIA

## SUPPLY:

This mould is designed for the simultaneous manufacturing of 6 pieces of precast, non-prestressed concrete elements, which speeds up and optimizes construction processes in railway or transportation infrastructures.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MANUAL BATTERY MOULD WITH 2 WORKING LINES

## PROY24-032 GERMANY

### SUPPLY:

Manual battery mould with 2 working lines of 13,5 x 1,25 M for the simultaneous manufacture of 2 precast concrete parts.

The mould is made up of a frame and fixed central panel, movable side panels, interchangeable base holders and end slits that give shape to the piece to be manufactured.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR RAILWAY BARRIERS FOR RAILWAY LINE

## PROY24-031 ROMANIA

### SUPPLY:

The scope of supply of these laterals includes:
- Moulded ZPX intermediate parts
- Side cutters
- Lower slits

The mould includes an electric vibration system consisting of:
- 1,3 Kw electric vibrators
- Vibrator concentration cabinets











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR TT SLABS

## PROY24-030 ROMANIA

### SUPPLY:

- Self-stressing mould for 600 tons (1322 kips) of prestress
- Hydraulic opening and closing
- Hydraulic adjustment of stem depth
- Length of the mould 63m (206')
- Width of the mould 2600m (102-1/3")
- Stem depth 1000mm (39-1/3")
- Slackening cylinders with hydraulic unit for de-tensioning of the strands
- Electric vibration system
- Magnetic top rail system











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 3D MOULD 7,5X3M

## PROY24-027 CHILE










## SUPPLY:

3D Mould for modular housing 7-5 X 3 M designed for the manufacture of non-prestressed, one-pie-ce precast concrete housing modules, including slab and walls.

The mould features the following services:

- Variable manufactured part length of 5 and 7 metres.
- Fixed width of the manufactured part of 3 metres.
- Height of manufactured part variable be-tween 2.50 and 3 metres.
- Formwork for doors, windows and ceilings.
- Hydraulic system for opening and closing the mould.
- Pneumatic vibration system.

Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SYSTEM OF HEADS AND PRESTRESSED EQUIPMENT

## PROY24-026 SPAIN

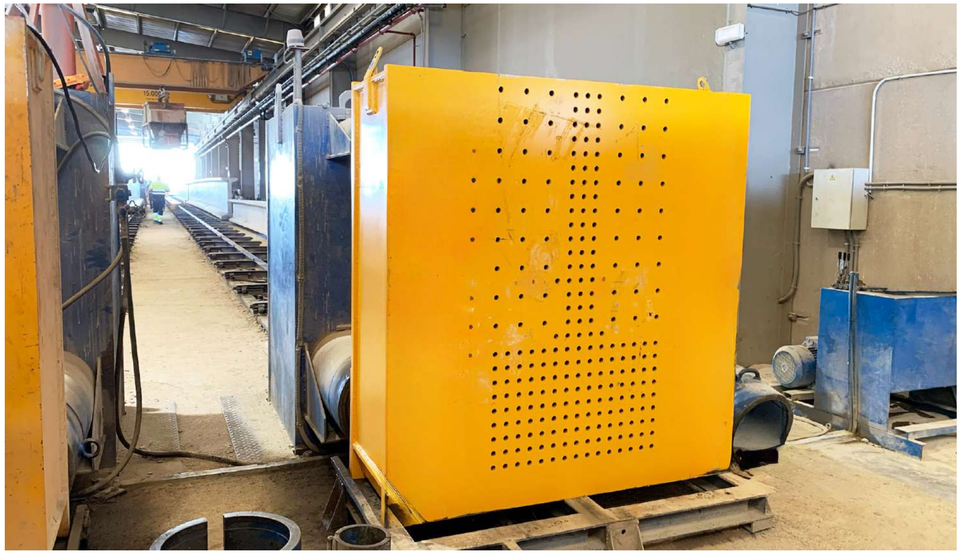
## SUPPLY:

This 650 Tn head assembly (active and passive) is incorporated without relaxation cylinders and collars, supplied for use on an existing runway at the customer's site.







Moldtech

INDEX:

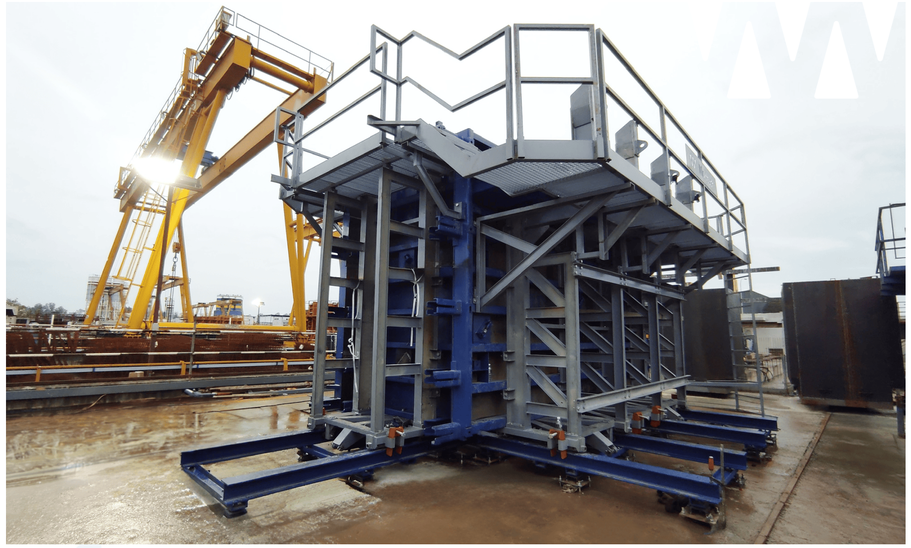
1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 3D MOULD PBU

## PROY24-025 SINGAPURE

### SUPPLY:

A 2.95 x 4.5 x 2.8 metre 3D mould PBU developed for the production of complete modules, including slab and walls, has been supplied, adapting to various modular specifications according to the customer's needs.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# ASYMMETRICAL CONE MOULD

## PROY24-024 ROMANIA

## SUPPLY:

The **600–1000 mm ASYMMETRICAL CONE MOULD** is designed for the production of non-prestressed precast concrete elements.

The mould consists of a fixed central core and movable external side panels assembled on a base, which together form the element to be produced.












Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# DOUBLE NEW JERSEY BARRIER MOULD

## PROY24-022 SPAIN

## SUPPLY:

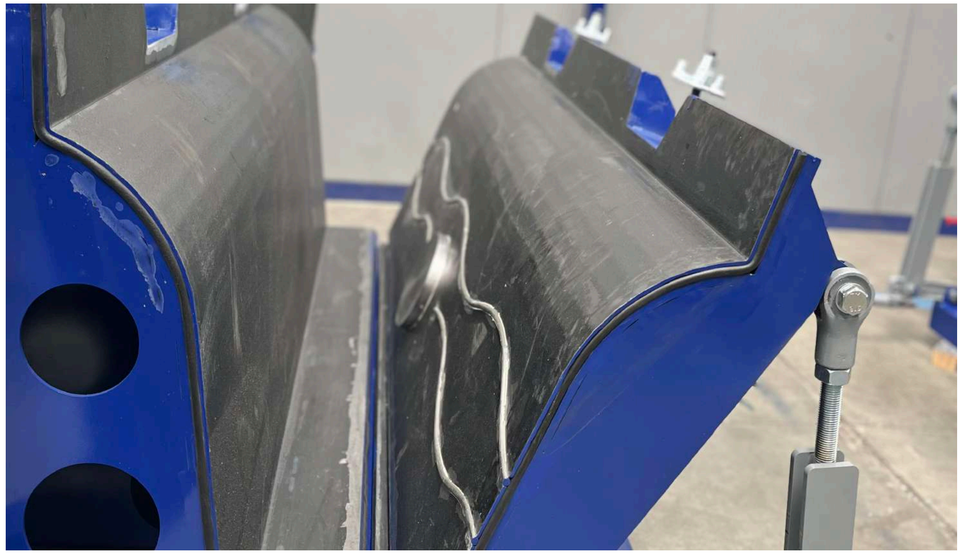
Three DOUBLE NEW JERSEY BARRIER MOULD have been supplied:

- One mold for producing barriers with a length of 2.5 meters and a height of 1.2 meters.
- Two molds for producing barriers with a length of 2 meters and a height of 0.8 meters.







Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# UNIVERSAL CASTING BED SYSTEMS AND MOULD FOR I GIRDERS

## PROY24-021 ROMANIA

## SUPPLY:

I-Beam SIDES L=10 M H=0.72 M are designed for the manufacture of prestressed concrete beams of variable cross-section and length.

The scope of supply of the laterals includes:

4 sets of 10 m long laterals.
4 sets of universal track 10.6 metres long.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SELF-REACTING MOULD FOR TT SLABS

## PROY24-020 DOMINICAN REPUBLIC

### SUPPLY:

- Self-stressing mould for 400 tons (882 kips) of prestress
- Hydraulic opening and closing
- Possibility to adjust the distance between the stems
- Mechanical adjustment of stem height
- Length of the mould 47.2m (155')
- Width of the mould 2600m (102-1/3")
- Stem depth 870mm (34-1/4")
- Slackening cylinders with hydraulic unit for de-tensioning of the strands
- Air vibration system
- Magnetic top rail system









Precast Concrete Equipment

Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR BOX CULVERTS WET-CAST UP TO 6 × 6 M

## PROY24-019 SPAIN

## SUPPLY:

Mould for box culverts wet-cast up to 6 × 6 m, designed for the manufacture of non-prestressed precast concrete elements with wall thicknesses of 300 and 400 mm and a piece height of 1,200 mm.

The system allows for the manufacture of box-culverts with internal dimensions between 4,000 × 4,000 mm and 5,000 × 5,000 mm, thanks to a modular configuration that incorporates internal and external corners, straight panels of varying lengths, and specific panels for varying thicknesses. The assembly is completed with special separators for the manufacture of 3-sided box culverts, as well as two complete sets of adaptable bases and additional bottoms that enable serial production.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR BRIDGE PIERS

## PROY24-017 UNITED KINGDOM

### SUPPLY:

This hydraulic mould is designed to cast precast bridge piers of different heights. The different heights are achieved adjusting the position of end stoppers.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULDS AND UNIVERSAL CASTING BED SYSTEMS FOR PRESTRESSED "U" GIRDER

## PROY24-016 EGYPT

## SUPPLY:

A complete factory of equipment specifically designed for the production of box girders has been supplied that will be integrated into this new metro network: 2 pre-stressed beam production lines consisting of active and passive stressing heads located at the ends of the corresponding self-reacting structure.

In addition, the following have been supplied:

- Hydraulic relaxation unit and prestressing equipment.
- Vibration system
- Hydraulic unit for the the inner core shringing
- High-capacity system for strands tensioning
- Analogue signal position sensors and hydraulic power unit
- Strand pushing machine, lifting tool and lifting hook









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

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Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

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Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# PREFABRICATED BEAM MOLD (AASHTO BEAMS)

## PROY24-015 THE CARIBBEAN

## SUPPLY:

Mould for precast post-tensioned beams up to 25 metres long and 1.6 metres high.

Designed to produce beams 25 or 20 metres long, adapting to two different cross-sections, offering the customer greater versatility in their structural projects.

Scope of supply:

- Set of side moulds for prefabricated beams
- Back mould L=25 m
- Bottom moulds L=25 m, W=0.65 m
- Slip moulds
- Electric vibration system









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE 25X4,2M

## PROY24-012 SPAIN

## SUPPLY:

The TILTING TABLE is made up of two 13 meters long modules, which, when assembled together, make up a production line of 26m long and 4.2m wide.

The modules are made up of supports fixed to the slabs, which, together with a frame and tilting table top, allow a maximum inclination of 74º.

The table has a lower longitudinal shutter that can be mechanically adjusted in height, which makes it possible to manufacture elements with a thickness of between 160 and 300 mm.

The table is tilted by means of hydraulic cylinders, driven by a hydraulic power unit and a main control cabinet.

It is also supplied with made-to-measure insulating panels to be attached to the underside of the table.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 800T PRESTRESSING SYSTEM

## PROY24-011 ROMANIA

## SUPPLY:

The 800 TN PRESTRESSING SYSTEM consists of an active head and a passive head, located at the ends of a universal track, which, together with the set of sides, shape the parts to be manufactured.

The sides supplied are as follows:

Lateral dalla l=19 m
Marginal dalla sides l=6 m
Inverted T-beam sides l=25 m
H-beam side members l=26 m h=0,72/0,80 m
Lateral I-beam l=25 m h=0,95-1,05 m










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SIDE MOLDS FOR T BEAMS

## PROY24-007 SERBIA

## SUPPLY:

The T-Beam SIDES L=12 M H=1,2 M are designed for the manufacture of prestressed concrete beams of two variable dimensions (T120/50 (15 CM) and T120/55 (20 CM)).

The scope of supply includes:

5 sets of T-beam side molds L=12 M H=1,2 M.
150 bolt and wedge sets.
40 complete sets of top locks.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# HORIZONTAL MOULD FOR STAIRCASES

## PROY24-005 PORTUGAL









## SUPPLY:

20-step HORIZONTAL MOULD FOR STAIRCASES designed to produce straight type, precast concrete stairs, allowing stairs of variable thickness, length and inclination to be manufactured.

Two removable landing side extensions are supplied.

Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE

## PROY24-003 ROMANIA

## SUPPLY:

The TILTING TABLE consists of a 12 m long module and a 2 m long module. The modules together form a production line 14 m long and 4 m wide.

It has a lower longitudinal band, a transversal band and a folding upper band, all of them mechanically adjustable in height, which allow the production of pieces with a thickness between 70 and 350 mm.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE 60X4M

## PROY23-061 MEXICO

## SUPPLY:

Installation consisting of a TILTING TABLE designed to produce precast concrete panels, non-prestressed, 60 m long, variable height between 3 m and 4 m and variable thickness from 100 to 250 mm.

The TILTING TABLE is made up of 5 modules of 11.8 m in length. The modules are joined together to form a production line 60 m long and 4 m wide.

The table is supplied with pneumatic vibration system and pre-installation for heating system.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE 35X4 ,4M

## PROY23-059 MEXICO

## SUPPLY:

The TILTING TABLE is designed to produce non-prestressed precast concrete panels with a maximum length of 35 m, a maximum height of 4.4 m and a thickness varying from 150 to 300 mm.

The scope of supply for this project includes:
- 35 x 4.4 m tilting table.
- Modification of the existing hydraulic power unit at the client's premises to provide service for two tilting tables.
- Set of lower lateral bands with lower tongue and groove supplement.
- Magnetised formwork L=2 M H=150 mm
- 900 kg magnets
- Eggplant 10x10x1000 mm










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOLD FOR WATER CHANNELS

## PROY23-056 GUINEA

## SUPPLY:

MOLD FOR WATER CHANNELS 800x800 and 1000x1000

The mold for gutters or water channels is composed of: support legs anchoring, where it will be installed; Mold core, the structure that serves as a base that shapes the inside of the gutters; Mold sides, lateral parts that contain the concrete in the transverse direction of the mold; Separators, to be able to manufacture several separate pieces; Closing mechanism of the mold sides; and Electric Vibrators.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE 35,4X4M

## PROY23-052 MEXICO

## SUPPLY:

TWO TILTING TABLE type tables are supplied.

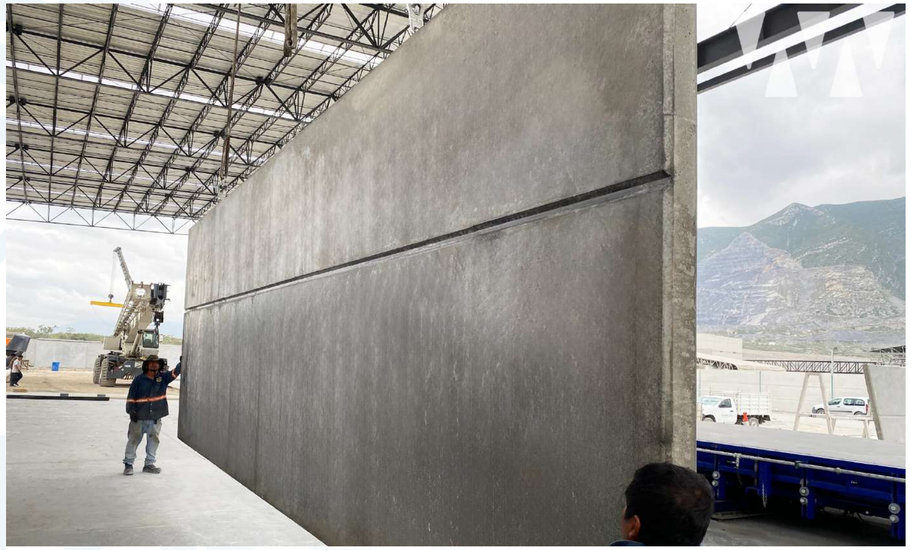
The tables are designed to produce non-prestressed precast concrete panels of maximum length 35.4 m, height 4 m and variable thickness between 110 and 250 mm.

The scope of supply for this project includes:
- 35.4 x 4 m tilting table (x2 pcs).
- Double hydraulic power unit (x1 pc).
- Longitudinal timber formwork L=2 M H=127 mm (x36 pc).
- Wooden longitudinal formwork L=2 M H=140 mm (x36 pc).
- Modular transverse spacer L=4 M H=127 mm (x24 pcs.).
- Modular transverse spacer L=4 M H=140 mm (x24 pcs.).
- 100 magnets of 900 kg.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

## MT20

## PROY23-048 MOROCCO

### SUPPLY:

PRECAST BOX CULVERTS - MT20 3 x 3 m

The MT20 MOLD is designed for the continuous production of non-prestressed precast concrete parts with a wall thickness of 150, 200 and 250 mm.

The mold is supplied with an electric vibration system managed by a vibration carriage.

The machine consists of: inner sides and outer sides bases

The mold functions in the moulding and demoulding sequences are carried out by means of hydraulic cylinders, driven by a hydraulic power unit and a main control cabinet.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# LIFTING TOOL FOR PRECAST CONCRETE PIPES AND BOX CULVERTS

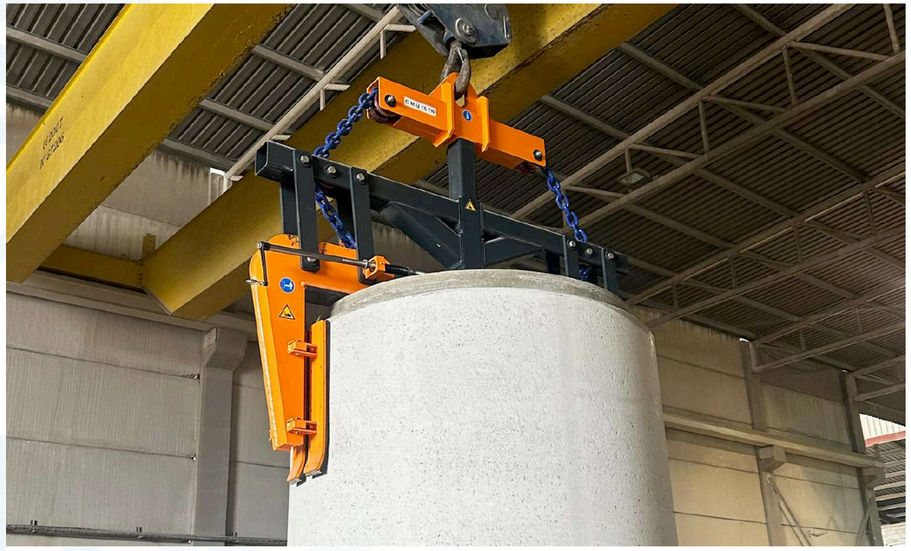
## PROY23-046 SPAIN

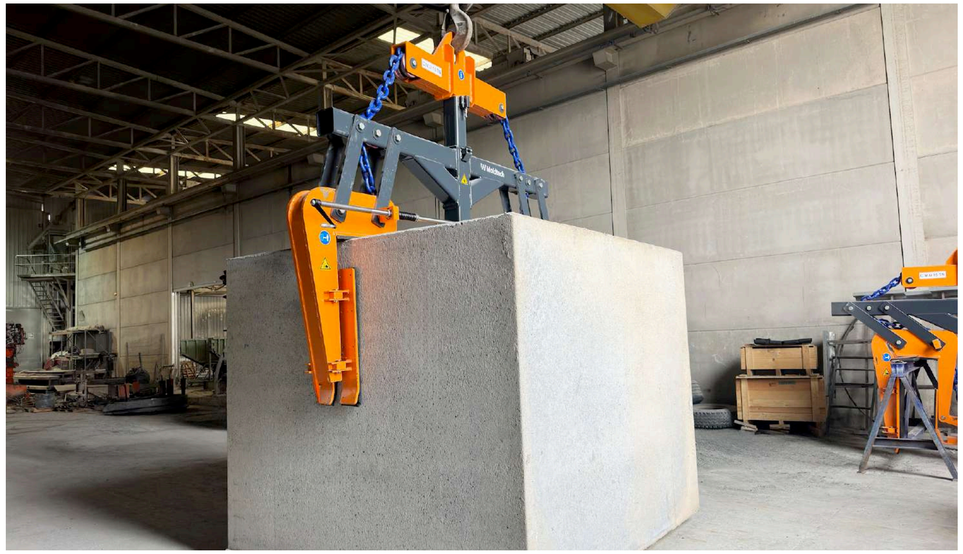
## SUPPLY:

The LIFTING FOR PRECAST CONCRETE PIPES AND BOX CULVERT 15 TN is designed for the handling of precast concrete pipes, adjusting its dimensions according to the sections of the piece to be handled.





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 1.000TN PRESTRESSING SYSTEM + HYDRAULIC DOUBLE MOULD FOR COLUMNS

## PROY23-043 ROMANIA






## SUPPLY:

The 1,000 TN Prestressing System is designed for the production of prestressed concrete beams on a universal bed with a length of 85 m and a maximum width of 1.2 m.

The following is supplied with this manual:

1,000 Tn Headers
Universal bed of 85 m x 1.2 m
I-beam sides H=0.6-1.4 M L=26 M
DELTA beam sides L=38 M
LTR beam sides L=28 M
Cable reelers

HYDRAULIC DOUBLE MOULD FOR COLUMNS L=36 m, for the simultaneous production of two columns of variable section from 500X500 mm to 1200x1200 mm. The machine is made up of two 36 m sides, a central panel, two configurable bottom supports and removable cutters, which when assembled together give shape to the piece to be manufactured.





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# HYDRAULIC DOUBLE T MOULD

## PROY23-043 ROMANIA

### SUPPLY:

- Self-stressing mould for 600 tons (1322 kips) of prestress
- Hydraulic opening and closing
- Hydraulic adjustment of stem depth
- Length of the mould 50m (164')
- Width of the mould 2500m (98-2/5")
- Stem depth 870mm (34-1/4")
- Slackening cylinders with hydraulic unit for de-tensioning of the strands
- Air vibration system









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE 14X4M

## PROY23-043 ROMANIA

## SUPPLY:

Two tilting tables have been supplied, designed to optimise specific production processes. With dimensions of 14×4 metres and variable thickness between 70 and 350 mm, to produce precast concrete panels for industrial constructions in this case.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SELF-REACTING PRESTRESSING SYSTEMS 1400 TN + MOULD FOR I GIRDERS

## PROY23-042 ROMANIA

## SUPPLY:

SELF-REACTING PRESTRESSING SYSTEMS 1400 TN consists of :

- Heads1400 Tn
- Universal Casting Bed

Mould for Bridge Girders / I girders maximum length 20 m, and height 0.82 m.

A DOUBLE WING CONFIGURABLE MOULD has also been supplied, with specific dimensions to manufacture 3 types of parts.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR DRAINAGE GUTTER

## PROY23-039 FRANCE

## SUPPLY:

The Mould for Drainage Gutter is designed to simultaneously manufacture five non-prestressed precast concrete pieces. These channel molds are used for cabling communication infrastructure.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR BOX CULVERTS + DOUBLE MOULD FOR NEW JERSEY BARRIER

## PROY23-039 FRANCE

## SUPPLY:

The MOULD FOR BOX CULVERTS is designed for the manufacture of precast, non-prestressed concrete pieces. This is made up of an inner, an outer formwork and a base, which, when assembled together, give shape to the piece to be manufactured.

The DOUBLE NEW JERSEY BARRIER MOLD is designed to simultaneously manufacture two precast concrete pieces, not prestressed. Indicated for the production of New Jersey barriers and other types of barriers and parapets intended for vehicle containment.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TURNER 180 + HYDRAULIC UNIT

## PROY23-037 SINGAPORE

## SUPPLY:

The 180º 35 T TURNER FOR PALLETS designed to lift and turn pallets 180º, so that they can be placed on top of each other and produce double walls/sandwich panels. It contains 2 synchronized motors for the turning maneuver.

The equipment is designed to turn parts weighing up to 35 tons. The maximum distance from the turning axis to the center of gravity of the piece will be 1,930mm.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MT20 – 2,7 X 2,7 M

## PROY23-036 GUINEA

## SUPPLY:

The MT20 MOULD is designed for the continuous production of non-prestressed, tongue-and-groove precast concrete parts, with a height of 1,500 mm and a wall thickness varying between 175 and 350 mm.

It is supplied with an electric vibration system managed by a vibration carriage.












Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULDS FOR PRECAST CABLE CHANNELS

## PROY23-036 GUINEA

### SUPPLY:

Two channel moulds with dimensions of 900×900 mm and 1200×1200 mm have been supplied.

They allow the manufacture of prefabricated channels designed for efficient water management in the mine.

Supplied with pneumatic vibration system









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

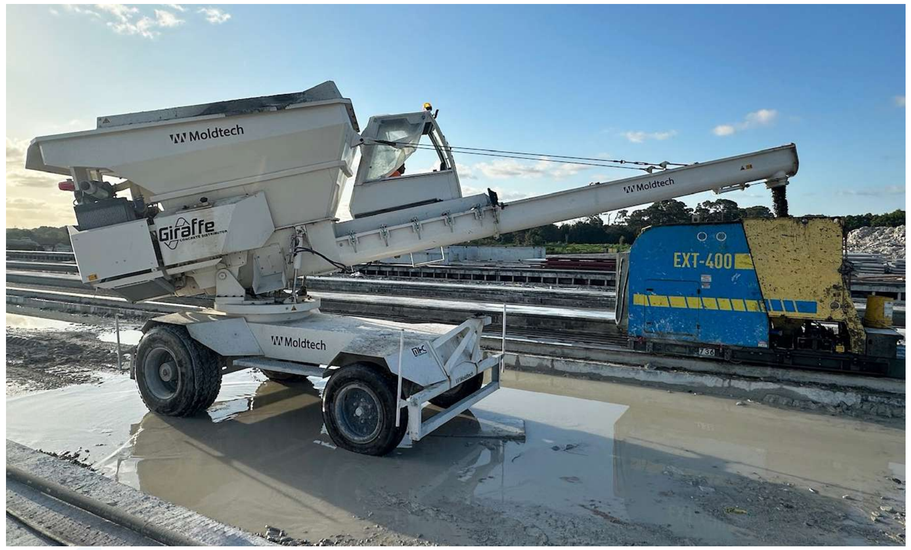
# GIRAFFE VEHICLE

## PROY23-035 USA

### SUPPLY:

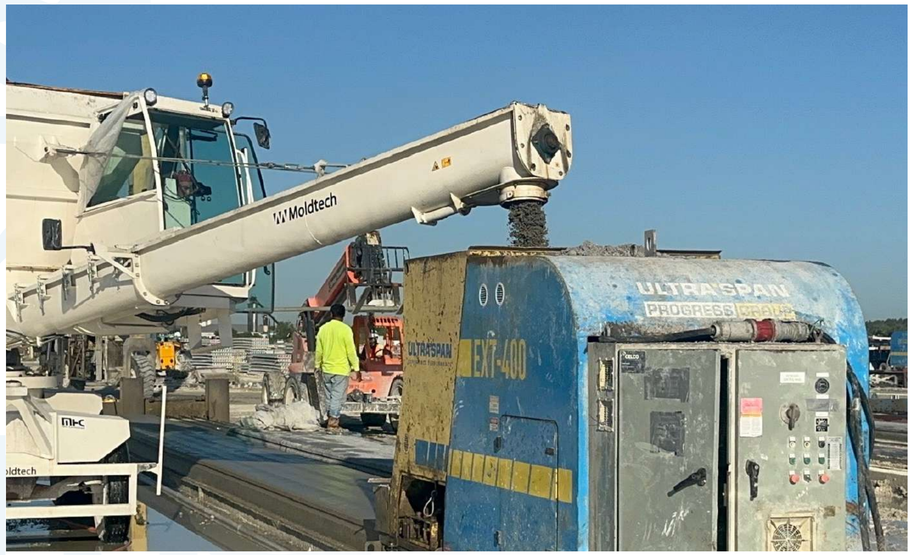
The Giraffe is a specialised vehicle for the distribution of fresh concrete. It enables the transport and distribution of fresh concrete to be carried out efficiently and safely.

This machine has a hopper where the concrete is loaded and an auger channel used for unloading. TRANSLATED INTO ENGLISH












Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 800 TN PRESTRESSING SYSTEM

## PROY23-030 ROMANIA

## SUPPLY:

The 800 TN Self-Supporting Prestressing System consists of an active head and a passive head, located at the ends of a universal bed, which, together with the side assemblies, shape the pieces to be manufactured.

The following is supplied with this manual:

- 800 Tn Heads
- Universal bed of 100 m x 1.2 m
- Dalla beam sides
- Marginal Dalla beam sides
- I-beam sides
- T2-beam sides
- Cable reeler












Moldtech

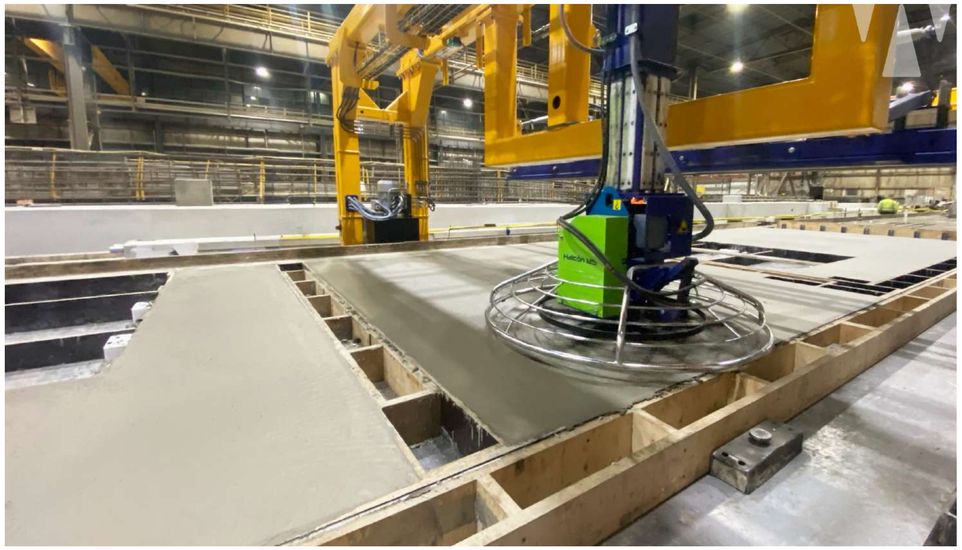
INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TROWELLING MACHINE

## PROY23-029 POLAND



## SUPPLY:

The TROWELLING MACHINE is designed for screeding and trowelling of the precast panels surface with a maximum width of 4.5 meters.

The movement is carried out by two synchronized electric motors, activated by a remote control that governs all the functions of the machine.

The device is equipped with a trowel ("Helicopter") for leveling the manufactured panels, with a transversal movement system using an electric motor, hydraulic rise and fall movement, adjustable trowel rotation speed, as well as the angle of the blades.
It also features an oscillating screed used for leveling the manufactured panels, powered by an electric motor and with a hydraulic raising and lowering system.

The equipment has a hydraulic power unit incorporated into the machine responsible for powering all the hydraulic actuators that take part in the operation.






Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE

## PROY23-027 SPAIN

## SUPPLY:

48x4.2M TILTING TABLE

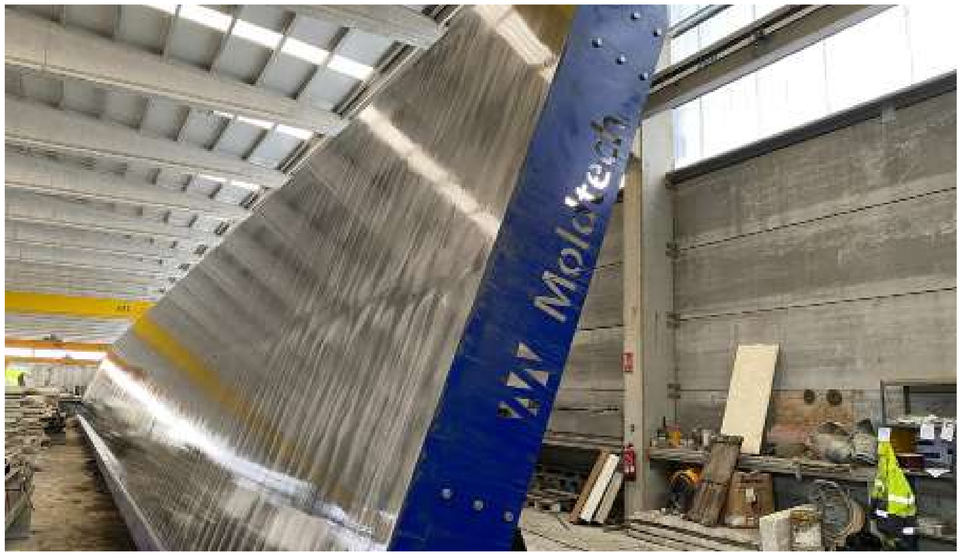
Installation consisting of a TILTING type TABLE designed to produce precast concrete panels, not prestressed, of max. length. 48 m, max. height. 4 m and variable thickness from 120 to 240 mm.
The tilting mechanism of the table is carried out by means of hydraulic cylinders, activated from the main control cabinet of the supplied hydraulic power unit.

The thickness regulation of panels is carried out by mechanical-manual adjustment of the lower sides of the table. The table is supplied with a pneumatic vibration system.







Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# CONCRETE BUCKET 1,5 M3

## PROY23-023 SPAIN

## SUPPLY:

The CONCRETE BUCKET 1.5 m3 machine is designed for the distribution of concrete.

The machine incorporates a mini hydraulic power unit to operate the opening-closing mechanism of the concrete pouring gate using a control button, a limit switch system to limit the closing opening of the discharge gate, and an electric vibration system to assist in concrete pouring.











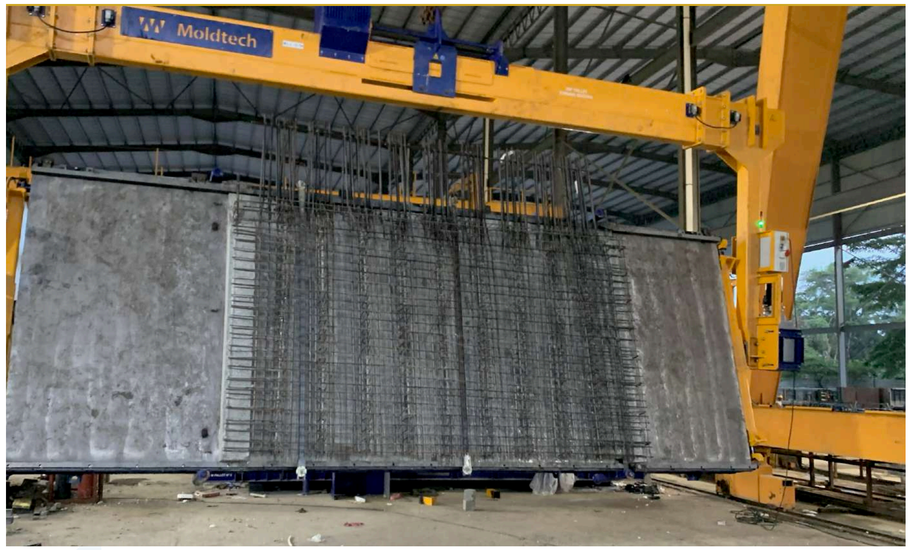

Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# EQUIPMENT FOR DOUBLE WALLS

## PROY23-022 MALAYSIA







## SUPPLY:

The supply includes:
Screwed longitudinal formwork L=8m
Magnetic longitudinal formwork L=8m
Magnetic transversal formwork L=2,785m
Magnetic transversal formwork L=2,785m

The formwork is the element that is used to make the divisions of the elements to be manufactured.

The 180º 12 tn TURNER FOR PALLETS designed to lift and turn pallets 180º, so that they can be placed on top of each other and produce double walls/sandwich walls. It contains 2 synchronized motors for the turning maneuver.

VIBRATION STATION designed to carry out the vibrating operation during the manufacturing process with the 8X3 M PALLETS, so that achieving a perfect control of concrete compaction and a better quality of the end product. Vibration system consists of 6 electric vibrators. Hydraulic fastening system for pallets.
A set of 6 pallets (8x3 m) is supplied along with the vibration station.






Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SYSTEM FOR PRESTRESSED ELEMENTS

## PROY23-021 ROMANIA

## SUPPLY:

The STRESSING HEAD 1300 TN is designed for the manufacture of prestressed concrete beams. The equipment is designed to work with cable tensioning and relaxation equipment with a maximum tensioning capacity of 1300 Tn.

The scope of supply is the following:
- 1300 tn stressing heads
- Universal casting bed W=1.2 m and L=100 m

The 1300 TN STRESSING HEADS is made up of an active head and a 1300 Tn passive head, located at the ends of a universal casting bed, when assembled together, allow the manufacturing of prestressed concrete beams.

The prestressed elements are manufactured on universal casting bed where side molds are placed. Using a prestressing system, composed of stressing heads and hydraulic tensioning equipment, a series of steel strands are tensioned to produce higher strength concrete pieces.

The universal casting beds are made up of a support structure with a series of holes to fix the mold bottoms and sides.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOLDS FOR ROAD ELEMENTS

## PROY23-020 ROMANIA

## SUPPLY:

Mold for box culverts C0 and C1
Support structure for box culvert mold C and C1

Mold for box culverts C2, C2', C2''
Support structure for box culvert mold C2, C2', C2''

Extensions for C3
Double mold A1
Double mold A2

The molds for box culverts are a modulated system of steel formwork designed for the production of prefabricated box culverts and half-frames.

Simple molds type A1, A2, A3, also called "wings" are used to support the soil in the sections of drains or transverse drains.












Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 3D MOLD

## PROY23-019 CHILE

## SUPPLY:

The 3D MOLD FOR MODULAR HOUSING 7,5 m x 3 m is designed for the manufacture of prefabricated, non-prestressed concrete housing modules, in one piece, including slab and walls.

This is made up of an inner core, a set of exterior sides, a base and accessories, which when assembled together give shape to the piece to be manufactured.












Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 3D MOLD FOR BATHROOMS

## PROY23-018 NEW ZEALAND

## SUPPLY:

3D MOLD FOR BATHROOM 3X2 M designed for the production of non-prestressed, one-piece precast concrete bathroom modules, including slab and walls.

Wall thicknesses of 100, 120 and 180 mm are available.

The 3D MOLD FOR 3X2 M BATHROOMS is made up of a core, a set of external sides, a set of bases of different thicknesses, a base and accessories, which, when assembled together, give shape to the piece to be manufactured.

The mould has the following services:
- Hydraulic system for opening and closing the mould.
- Electric vibration

The FIXED TABLE 3.5X2.55 M is designed for the manufacture of non-prestressed concrete tables 3.6 m long, 2.75 m wide and 120 mm thick. The table incorporates four folding side belts and an electric vibration system.

The VIBRATION CART 10M is designed to carry out the concrete vibration operation during the manufacturing process with the Bath Mould and Fixed Table machine.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SELF-REACTING PRESTRESSING SYSTEMS AND MOBILE HEATING SYSTEM

## PROY23-016 NIGERIA

## SUPPLY:

Se han suministrado:

Two self-supporting prestressing beds, to produce different types of prestressed beams for bridges and viaducts, with a prestressing capacity of up to 400 tonnes.

A mobile hot water or steam boiler to improve concrete curing given the low temperatures in the area. High-performance hot water boilers are efficient and reliable equipment for the production of hot water or steam to provide heating for precast concrete equipment.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MT20 + MOLD FOR I GIRDERS + TURNING MACHINES 90° + CONCRETE BUCKETS 2M3

## PROY23-016 NIGERIA

## SUPPLY:

MT20 mold for semi-dry concrete frames, designed for high productivity of precast concrete frames, due to the fact that it allows the use of semi-dry vibro-pressed concrete (dry cast).

I-beam mold, the mold for producing bridge beams consists of two I-shaped side molds with a quick clamping system with different positions for adjusting the size of the beam to be produced.

90° turner, designed to turn 90° precast concrete parts (frames and half-frames) from the moulding position to the final position for placement on site.

Two 2m3 concrete buckets, for the transport and pouring of concrete. The bucket consists of a bucket that allows the concrete to be transported from the mixing plant to the molds to be filled. The transfer of the bucket can be carried out either by forklift or by means of a bridge crane or similar.











Moldtech

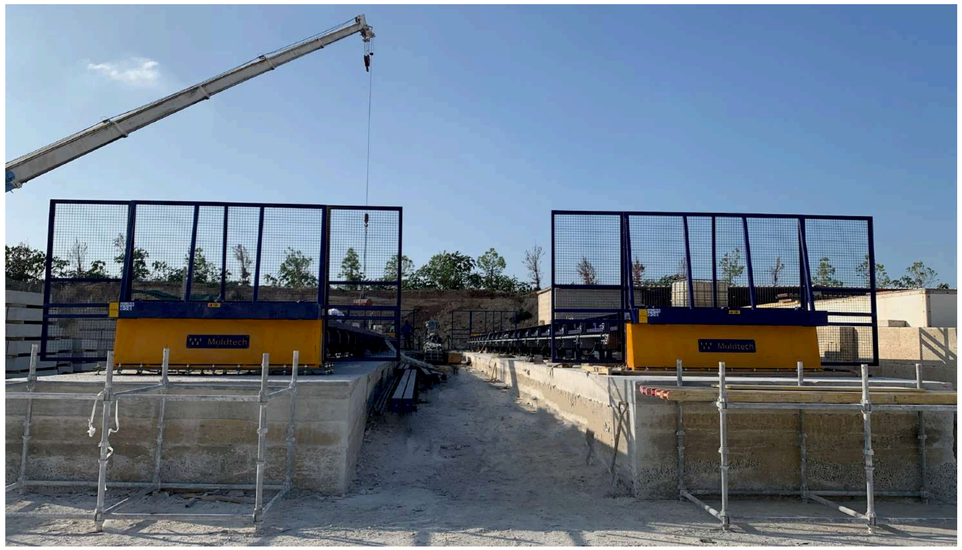
INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SELF-REACTING TABLE 300 T

## PROY23-015 MALTA





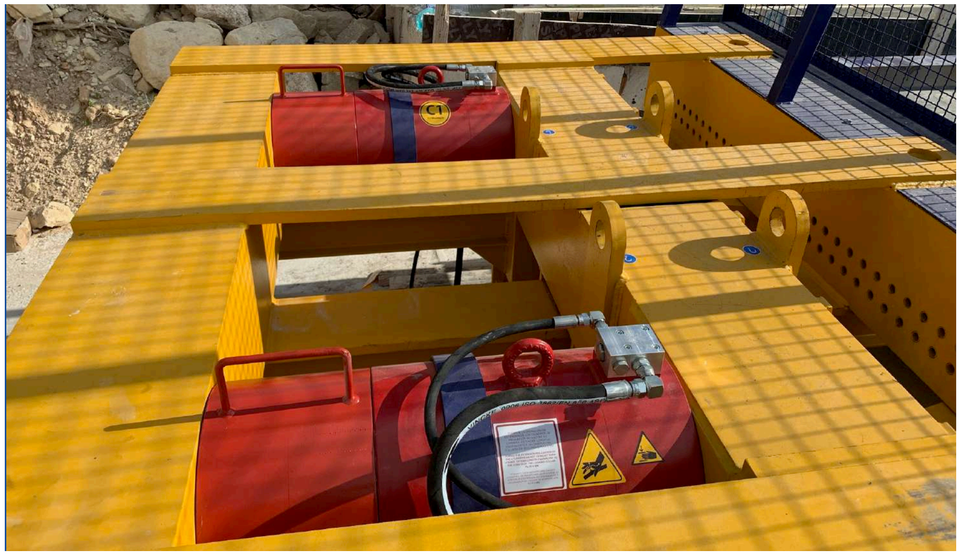
## SUPPLY:

SELF-REACTING TABLE 300 tones, 30 m x 2,4 m, designed for the manufacturing of prestressed half-slabs.
The equipment is designed to work with cable tensioning and relaxation equipment with a maximum tensioning capacity of 300 Tn.

The scope of supply includes:
- An active and passive stressing heads of 300 Tn
- A 30 m long table
- A set of 10 formwork separators

The table includes a pneumatic vibration system made up of 15 vibrators.





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# PRESTRESSING SYSTEM FOR FIXED TABLE

## PROY23-013 USA

## SUPPLY:

Los CABEZALES MESA PRELOSAS de 110 MT están diseñados para la fabricación de prelosas de hormigón pretensadas.

El cabezal acoplado a la Mesa fija 150 x 2,4 m junto a los encofrados longitudinales que se suministran en este proyecto permiten fabricar mesas prelosas de 2,4 metros de ancho y espesor de 24,6 cm.









Moldtech

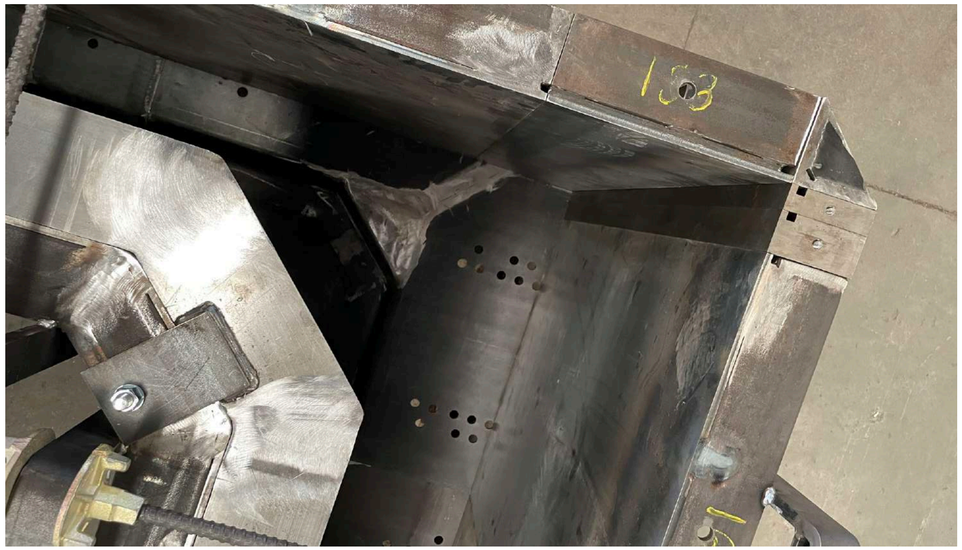
INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOLD FOR BOX CULVERTS

## PROY23-012 PANAMA





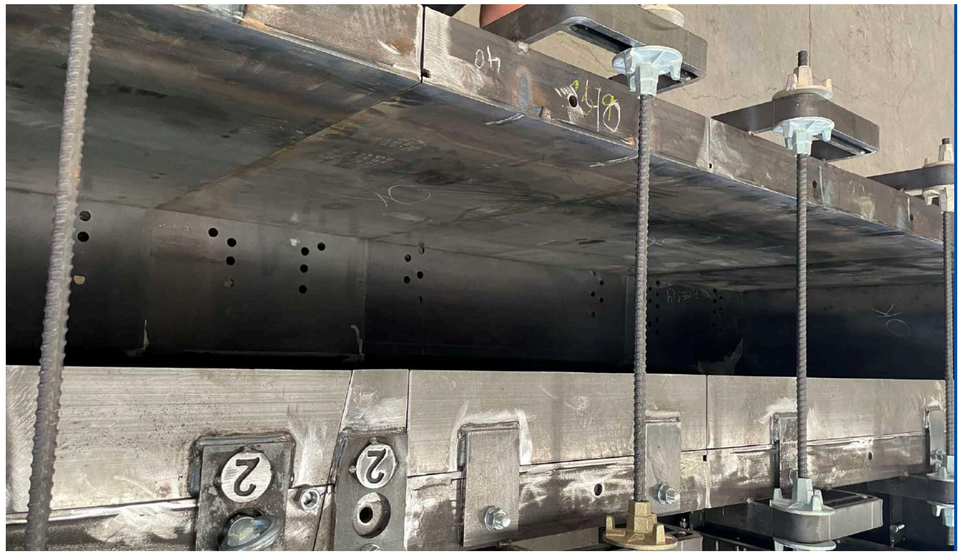
## SUPPLY:

MOLD FOR BOX CULVERTS is designed for the manufacture of prefabricated, non-prestressed concrete pieces.

The MOLD FOR BOX CULVERTS is made up of an inner formwork, an outer formwork and a bottom, which, when assembled together, give shape to the piece to be manufactured.

A set of additional bottoms is supplied to allow mass manufacturing of the elements.





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOLD FOR MARINE CONCRETE BALLASTS

## PROY23-011 SPAIN







## SUPPLY:

MOLDS FOR MARINE BALLAST OF 2.02TN AND 3.25TN

The MOLD FOR MARINE CONCRETE BALLAST is designed for the manufacture of prefabricated, non-prestressed concrete pieces. This mold is made up of three removable sides and a fixed bottom, which, when assembled together, give shape to the piece to be manufactured.





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TURNER 180° 35TN

## PROY23-010 SINGAPORE

## SUPPLY:

The machine is made up of two 90° turners, which, acting sequentially, allow a total turn of 180°.

This equipment designed to turn precast concrete pieces, from the molding position to the final position of placement on site. All movements are carried out by a hydraulic system made up of telescopic cylinders and a hydraulic central unit.

The front turner has a fixed frame anchored to the ground and mobile nails that rotate 90°.

The rear turner has a mobile frame with front and rear translation, and mobile nails that rotate 90°.





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# GIRAFFE

## PROY23-009 USA





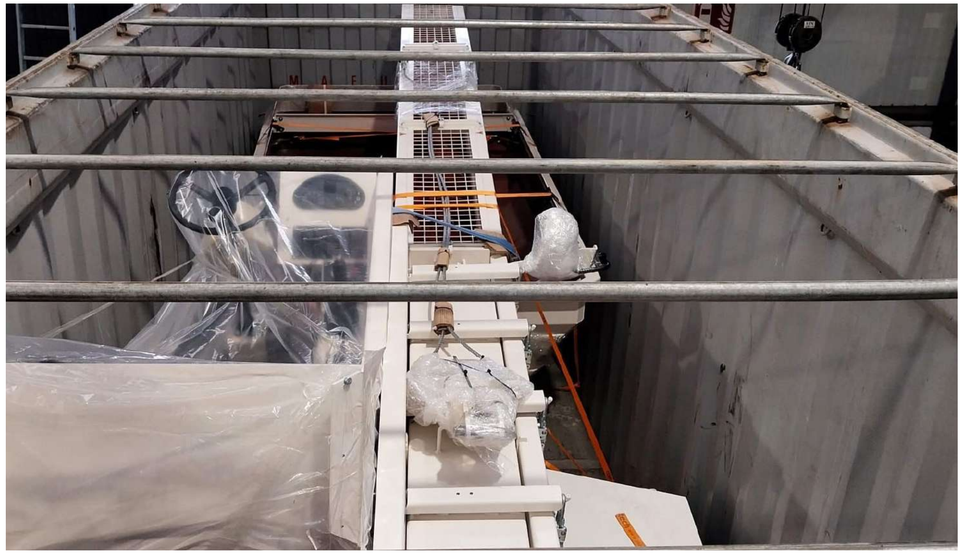


## SUPPLY:

The Giraffe equipment is a vehicle for transporting and pouring concrete. This vehicle provides a very effective solution for pouring concrete into the mold when there are no overhead tanks or overhead cranes available or when it is not possible to pour concrete directly from a concrete mixer truck.

Concrete can be poured directly into the vehicle hopper from the concrete plant or truck and the motorized vehicle can travel to the various molds or equipment. The upper part with the discharge auger allows it to rotate horizontally 180º or 360º (depending on the model) and vertically until reaching discharge heights of 4 meters. Likewise, the reduced width of the vehicle (2.5 meters) allows it to be easily maneuvered within a precast factory.



Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOLD FOR SPECIAL SECCION GIRDERS

## PROY23-008 ROMANIA

### SUPPLY:

The MOLD FOR PARAPET BEAM is composed of a fixed central core and two folding sides with hinges for demolding the pieces to be manufactured. The equipment is supplied with a pneumatic vibration system.

The SIDE MOLDS FOR DALLA D4 are designed for the manufacture of parts with a maximum length of 70 meters. Each side mold is made up of 6 sections, which when assembled together give shape to the piece to be manufactured.

The SIDE MOLDS FOR DALLA D5 are designed for the manufacture of pieces with a maximum length of 6 meters.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MT20

## PROY23-005 ROMANIA

## SUPPLY:

The MOLD – MT20 consists of a set of interior formworks and a set of outer formworks assembled on a set of bottoms.

The equipment has a configurable press-holder frame, a set of interchangeable presses to facilitate the compaction of concrete during the manufacturing process.

In this project it has been supplied:
MT20 Bottoms, MT20 interior and outer formworks, MT20 Press, MT20 Press Holder and MT20 Hydraulic Central, in addition to an electrical vibration system.

A VIBRATION SYSTEM designed to carry out the concrete vibration operation during the manufacturing process.

The frequency converter controls 18 vibrators.
It has three different vibration sequences that will be launched depending on manufacturing needs.












Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# PRESTRESSING SYSTEM

## PROY23-004 ROMANIA

## SUPPLY:

Universal casting bed and pit foundation prestressing system of 1500 tones for the manufacture of prestressed elements.

The prestressed elements are manufactured on universal casting bed where side molds are placed. Using a prestressing system, composed of stressing heads and hydraulic tensioning equipment, a series of steel strands are tensioned to produce higher strength concrete pieces.

The universal casting bed are made up of a support structure with a series of holes to fix the mold bottoms and side molds.

The prestressing head system has relaxation cylinders and the corresponding tensioning equipment.

The supply includes:
Side molds for T2 girders
Side molds for Iptana girders
Side molds for Rectangular Beams









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR COLUMNS, MOULD FOR BOX CULVERTS, CONCRETE SKIP 2M3 Y TILTING TABLE

## PROY23-003 ROMANIA

## SUPPLY:

HYDRAULIC COLUMN MOULD, with a length of 33 m, for the production of columns with variable cross-sections ranging from 500x500 mm to 1200x1200 mm.

MOULD FOR BOX CULVERTS, or for prefabricated foundations along with two bases. Consisting of an inner frame, an outer frame, and a base, which, when assembled together, shape the piece to be manufactured.

2M3 CONCRETE SKIP, designed for concrete distribution.

TILTING TABLE 12x4M, designed to produce non-prestressed prefabricated concrete panels with a maximum length of 12 m, a height of 4 m, and a variable thickness ranging from 80 to 350 mm.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE

## PROY23-001 ARGENTINA

## SUPPLY:

23.6 m x 3.5 m tilting table – 2 units.

Installation consisting of TWO TILTING-type TABLES designed to produce precast concrete panels, not prestressed, with a length of 23.6 m, height of 3.5 m and variable thickness between 50 and 250 mm. The tables are supplied with a pneumatic vibration system.
The tilting of the tables is carried out by means of hydraulic cylinders, activated by a hydraulic central unit and a main control cabinet.

Each TILTING TABLE is made up of 2 modules with a length of 11.8 m. The union of the modules configures a production line 23.6 m long and 3.5 m wide. The modules are made up of a fixed frame, with supports fixed to the foundation, and a tilting board that allows a maximum inclination of 74º.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOLD FOR DOCKING BOXES

## PROY22-058 ROMANIA

## SUPPLY:

The frame/docking box mold is made up of a set of mobile sides and a set of fixed sides with a core, which, when assembled together, give shape to the piece to be manufactured.

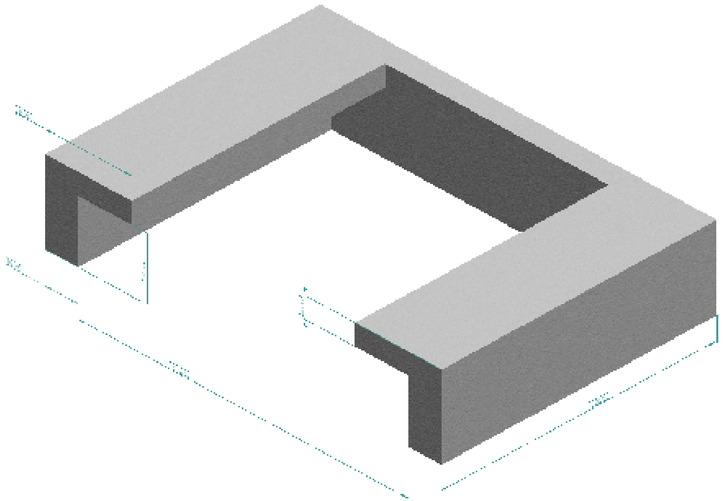
FREQUENCY CONVERTER is designed to carry out concrete vibration operation.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOLDS FOR SPECIAL ELEMENTS P2 + MOLDS FOR BOX CULVERTS FOR ELEMENTS C0 Y C1 + C2 C2`C2``

## PROY22-057 ROMANIA

## SUPPLY:

The P2 BATTERY MOLD is made up of two side molds, a set of three slats and a core-bottom set. The BATTERY MOLD for special elements P2 is designed for the manufacture of two pieces of concrete simultaneously.

The MOLD FOR BOX CULVERTS C0, C1 is designed for the manufacture of prefabricated, non-prestressed concrete pieces. It is made up of an inner formwork, an outer formwork and a bottom, which, when assembled together, give shape to the piece to be manufactured.

The MOLD FOR BOX CULVERTS is designed for the manufacture of prefabricated, non-prestressed concrete pieces, with a wall thickness between 200 and 290 mm. A set of additional bottoms is supplied to allow mass manufacturing of the box culverts.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 8 M3 CONCRETE SKIP FOR CONCRETE POURING

## PROY22-055 USA

SUPPLY:

The COCRETE SKIP 8 M3 is designed for concrete distribution. It consists of a bucket with an internal capacity of 8 m3, so that it can be rotated 90° and filled horizontally directly from the truck mixer.

Once filled, the equipment is raised so that it is at operator height. Its concrete pouring gates manually operated.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SIDE MOLDS FOR INVERTED T + SIDE MOLDS FOR RECTANGULAR BEAMS

## PROY22-053 LATVIA

## SUPPLY:

SIDE MOLDS FOR INVERTED T BEAM are designed for the manufacture of prestressed concrete inverted T beams.

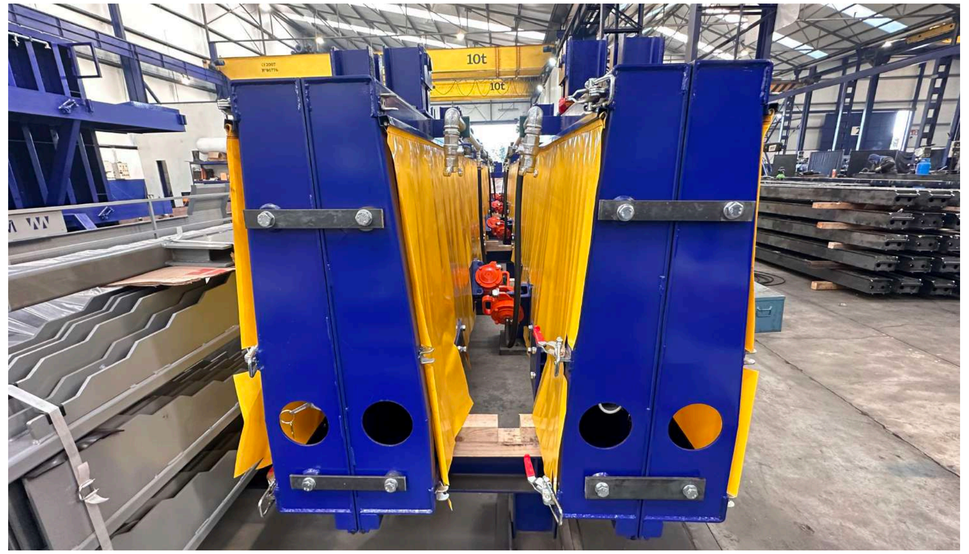
The side molds have different configurations for the manufacture of beams of different heights and widths by using the supplied boxes and solids. The maximum beam length will be 10.4 meters. Includes pneumatic vibration and heating system.

SIDE MOLDS FOR RECTANGULAR BEAMS are designed for the manufacture of straight prestressed concrete beams. The side molds have different configurations for the manufacture of beams of different widths by changing the adjustable parts. The maximum beam length will be 86.4 meters.







Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# CONCRETE SKIP 3M3

## PROY22-052 SPAIN

## SUPPLY:

The CONCRETE SKIP 3 M3 is designed for the distribution of concrete.

The 3 M3 CONCRETE SKIP is composed of a tank with an interior capacity of 3 m3. Its concrete pouring gate has three independently opening gates that are operated by cable control button or by a remote control.












Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 600TN PRESTRESSING SYSTEM

## PROY22-050 ROMANIA

## SUPPLY:

The SELF-PORTING PRESSING BENCH consists of several sets of interchangeable sides, an active head and a passive head of 600 Tn, located at the ends of a self-supporting structure and a universal bottom track, which assembled together, give shape to the parts to be manufactured.

The scope of material supply is as follows:
- Self-supporting structure of 600 Tn and 59 metres long, with active and passive head at its ends. 2 units.
- Universal Casting bed 58 metres long and 1 metre wide. 2 units.
- T21-T24-T27 beam sides. 2 units.
- T18 beam sides. 3 units.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SELF-REACTING PRESTRESSED SYSTEM

## PROY22-049 POLAND

## SUPPLY:

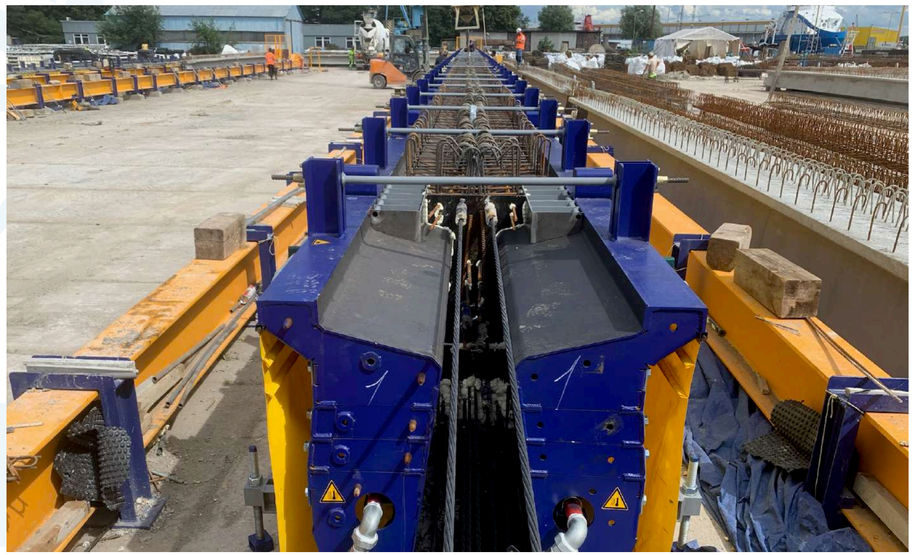
The SELF-REACTING PRESTRESSING BENCH is made up of several sets of interchangeable side molds, an active head and a passive head of 600 Tn, located at the ends of a self-reacting structure and a universal casting bed, which, when assembled together, give shape to the pieces to be manufactured.

The scope of material supply carried out is as follows:

- Self-reacting structure of 600 tons and 59 meters in length, with active and passive head at its ends – 2 units.
- Universal casting bed 58 meters long and 1 meter wide – 2 units.
- Side molds for beams T21-T24-T27 – 2 units.
- Side molds for T18 beam – 3 units.







Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOLDS FOR SPECIAL ROADS ELEMENTS

## PROY22-048 ROMANIA

## SUPPLY:

DOUBLE MOLD FOR A1 element is designed for the manufacture of concrete pieces. It is made up of two sides, two front shutters, two rear doors and two cores, which when assembled together give shape to the pieces to be manufactured.

The DOUBLE BARRIER MOLD has been designed for the simultaneous manufacturing of two (2) NEW JERSEY type barriers. The machine consists of a fixed mold-frame and a set of separators, which, when assembled together, shape the part to be manufactured.

DOUBLE MOLD FOR A3 element is made up of two sides, two front bands, two rear doors and two co-res, which when assembled together give shape to the pieces to be manufactured.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# CASTING TABLE WITH STRESSING HEADS LOCATED IN PIT

## PROY22-047 CANADA

## SUPPLY:

This system comprises of pre-stressing system with a 400 TON stressing head located in a pit. Therefore the system avoids that any tension of the prestressed strands is transferred to the table . One of the stressing heads incorporates a slackening cylinder which allows to de-tension the strands before cutting them, thereby increasing the safety of the workers.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

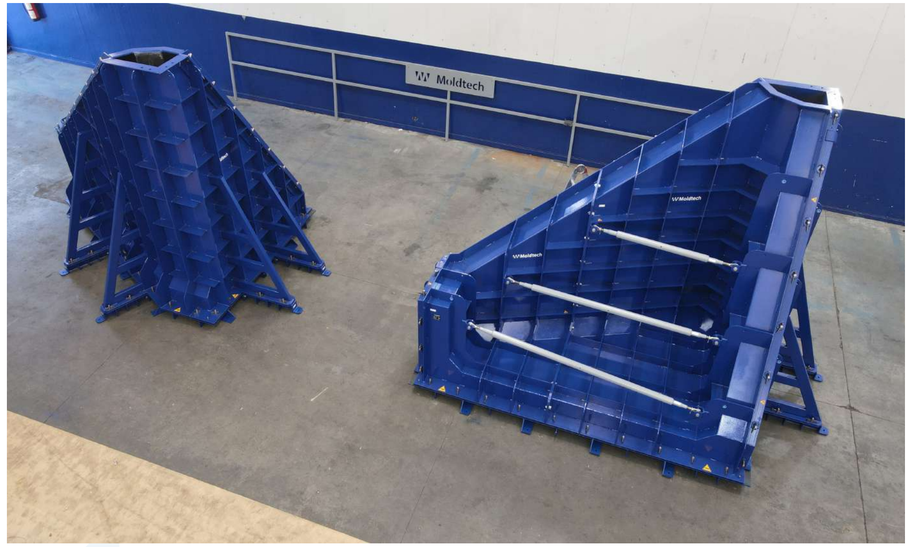
# SIMPLE MOULD FOR ROADS ELEMENTS

## PROY22-046 ROMANIA

## SUPPLY:

The equipment supplied are simple moulds type A0, A1, A2, A3 also called "fins or nozzles" are used to support the ground in the sections of drainage or cross drains. They can be used in road works, roads or even in railway underpasses.

They are placed at the end or at the beginning of the conduit section and can be composed of several pieces depending on the size of the main pipe.












Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE

## PROY22-044 MEXICO

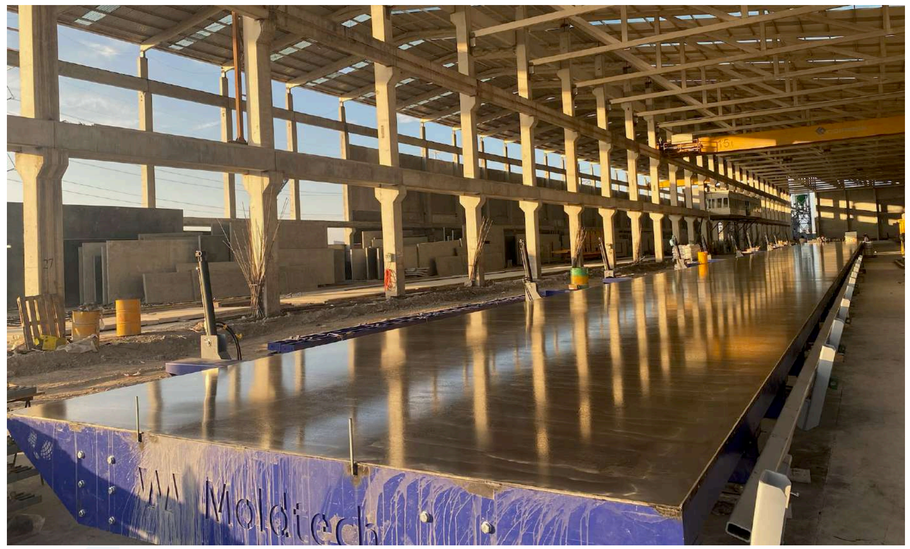
## SUPPLY:

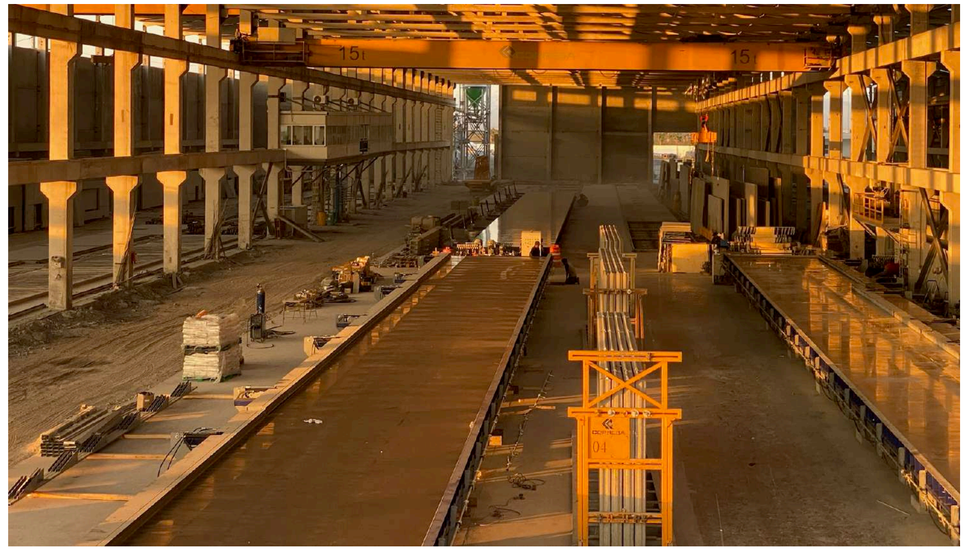
The TILTING TABLE is made up of 5 modules with a length of 11.8 m. The union of the modules configures a production line 60 m long and 3.7 m wide.

The modules are made up of a fixed frame, with supports fixed to the foundation, and a tilting board that allows a maximum inclination of 74º.

The modules have an upper longitudinal shutter that allows straight panels of variable height between 2.7 m and 3.7 m to be manufactured. Additionally, the upper shutter has a system of lifting cylinders that allows horizontal movement without friction between the elements of the shutter and the table top.

The table incorporates a lower longitudinal shutter, adjustable in height, which allows manufacturing panels with a thickness between 100 and 250 mm.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# COMPLETE PRECAST PLANT FOR INDUSTRIAL CONSTRUCTION

## PROY22-042 ROMANIA

## SUPPLY:

Complete factory installed for the development of precast concrete industrial and infrastructure production projects.

Equipment that will allow a high production capacity, up to 2 columns of 16 m per production cycle, and the highest possible versatility.

Universal casting bed with single-bottom of 125 x 1.2 m and a set of pre-stresing heads for 1500 t, together with cable launcher and tensioning equipment.

Mould sides for Delta beam L=30 m, adjustable from 20 to 30 m, with pneumatic vibration, which allows for very fast moulding and demoulding processes.

Self-supporting stationary mould of purlins with 2 lanes L=25 m, with 400 t heads, to complete the roof in industrial works. Very flexible in the lengths.

Tilting table 12 × 3.5 m, with a "mirror effect" polished surface finish, for the production of panels for industrial and even residential use up to 12 x 0.3 x 3 m. Electric vibration system controlled from a mobile control panel.

Mould for columns L=32 m, with hydraulically height-adjustable bottom, option of lateral corbels and possibility of manufacturing sections between 0.60 and 1.2 m wide.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOLD FOR FACADE GARDEN PLANTER

## PROY22-041 FRANCE





## SUPPLY:

The FACADE PLANTER MOLD L=26 M is composed of a fixed central core, a fixed side and a folding side with hinges that facilitates the demolding of the pieces to be manufactured.

The mold is made up of two 13-meter sections, which together make up a 26-meter manufacturing line.
The scope of supply includes gates for profiles 01 and 03, as well as molds for manufacturing the planter lids.





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# BATTERY MOLD FOR PRESTRESSED JOIST BEAMS

## PROY22-038 GUINEA-BISAU






## SUPPLY:

Supplied equipment:

1 unit – battery mold for prestressed joist beams, 10 working lines, , consisting of an active head and a passive head of 300 Tn, located at the ends of a structure composed of three sections of 11,784 meters, which together make up a mold of 35. 4 meters in length. The union of all the elements forms the prestressing bench.





Precast Concrete Equipment

Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# PRECAST PLANT FOR INDUSTRIAL AND CIVIL WORKS

## PROY22-037 ROMANIA

## SUPPLY:

Equipment that will allow the manufacture of prestressed beams for the production of elements for civil and industrial works.

Two universal casting beds, of 125 X 1.2 m.

Stressing heads of 1400 t capacity, prestressing equipment, cable launcher, relaxation centre and winder.

Iptana sides, of L=40 m and H=2.1 m.

Dalla laterals, of L=25 m and H=0.4 m.

Dalla D5 sides, of L=6 m.

Iptana V2 sides.

Concrete skip 3m³.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SIDE MOLDS FOR DELTA BEAMS

## PROY22-035 ROMANIA

## SUPPLY:

The delta beam side molds set is made up of two delta beam side molds with a length of 21 meters and two delta beam extension sets to reach 31 meters.

The side molds for beams or delta-type girders are molding elements designed to produce said type of beams on a universal casting bed, in such a way that their shape defines the section of the molded beam.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# CONCRETE SKIP 3,2 M3

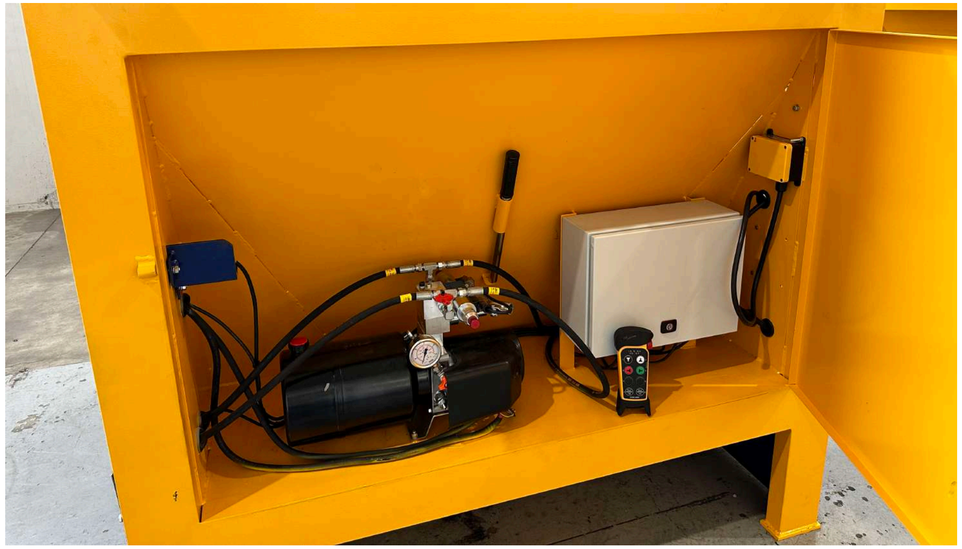
## PROY22-034 ROMANIA

## SUPPLY:

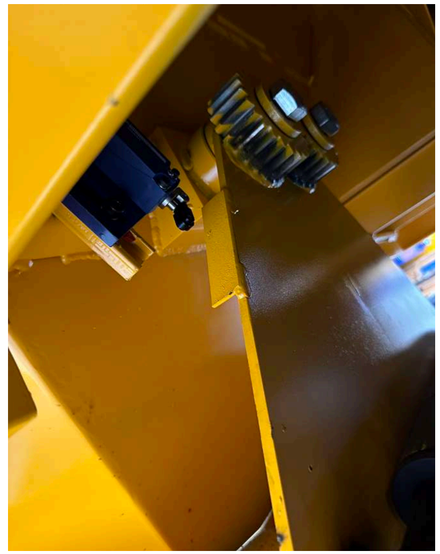
The 3 M3 CONCRETE SKIP is made up of a tank with an interior capacity of 3m3. Its concrete pouring gate is operated by cable control button.

The concrete pouring skip consists of a bucket that allows the concrete to be transported from the central mixer to the molds to be filled. The transfer of the skip can be carried out either with a forklift or by means of an overhead crane or similar.





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 3D MOULD FOR PRISON CELLS

## PROY22-033 U.S.A.

## SUPPLY:

It consists of 8 mould units for the manufacture of precast concrete cells in one piece, including walls and roof, according to the dimensions and specific requirements provided by the customer.

The mold is made up of retractable cores which facilitate the demoulding of the pieces, and is hydraulically operated. The mould consists of four hydraulic manipulation points, which allow both the manipulation of the cores as well as the sides, these are located in strategic areas that allow the manoeuvres to be carried out quickly and safely.

Pneumatic vibration system, exterior and interior.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# HYDRAULIC SELF-REACTING MOLDS FOR BRIDGE GIRDERS

## PROY22-031/ PROY22-036/ PROY22-051/ PROY23-007 UNITED KINGDOM

## SUPPLY:

Supplied equipment, composed of an active head and a passive head of 1,800 Tn, located at the ends of a self-reacting structure, which, assembled together, make up the prestressing bench.

The self-reacting hydraulic system includes:

Universal casting bed, length 65 meters, possibility of using bottoms of different widths, and with the self-reacting prestressing system with a capacity of 1800 tons.

Includes active and passive heads with relaxation cylinders on the active head. The hydraulic opening/closing movement of the side molds can be operated on a single production line or with two independent lines.

Lateral molds for the bridge beams with a maximum length of 65 meters in the case of a single production line, or in two independent lines with a maximum length of approximately 32 meters.

This universal casting bed system incorporates a universal anchoring system, which allows us to use different types of side molds, without the need to make modifications to the prestressing bed.

Pneumatic vibration system.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# HYDRAULIC SELF-REACTING MOLDS FOR BRIDGE GIRDERS

## PROY22-031/ PROY22-036/ PROY22-051/ PROY23-007 UNITED KINGDOM

## SUPPLY:

Supplied equipment, composed of an active head and a passive head of 1,800 Tn, located at the ends of a self-reacting structure, which, assembled together, make up the prestressing bench.

The self-reacting hydraulic system includes:

Universal casting bed, length 65 meters, possibility of using bottoms of different widths, and with the self-reacting prestressing system with a capacity of 1800 tons.

Includes active and passive heads with relaxation cylinders on the active head. The hydraulic opening/closing movement of the side molds can be operated on a single production line or with two independent lines.

Lateral molds for the bridge beams with a maximum length of 65 meters in the case of a single production line, or in two independent lines with a maximum length of approximately 32 meters.

This universal casting bed system incorporates a universal anchoring system, which allows us to use different types of side molds, without the need to make modifications to the prestressing bed.

Pneumatic vibration system.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# CONCRETE SKIP 3M3

## PROY22-031/ PROY22-036/ PROY22-051/ PROY23-007 UNITED KINGDOM

## SUPPLY:

The 3 m3 CONCRETE SKIP is made up of a tank with an interior capacity of 3m3. Its concrete pouring gate is operated by cable control button.












Moldtech

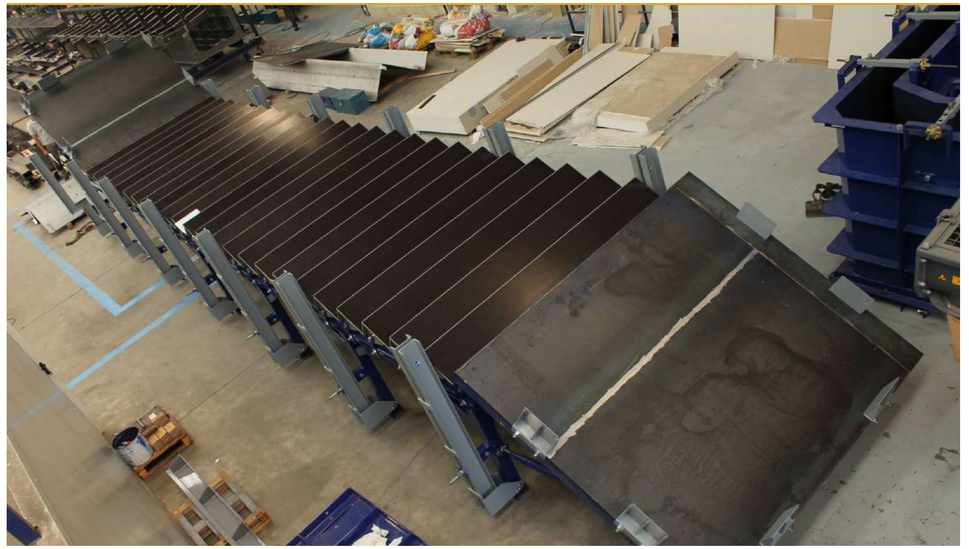
INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# ADJUSTABLE HORIZONTAL STAIRCASE MOULD

## PROY22-026 PORTUGAL



## SUPPLY:

Adjustable staircase mould for horizontal casting.

The main advantage of this type of adjustable mould is that the same mould can be used to make different types of stairs and therefore can be used in large variety of projects.

The mould allows to adjust:

- Number of steps
- Option to incorporate landing
- Tread dimension
- Riser dimension
- Width of the staircase

Option to incorporate pneumatic or electric vibration.






Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TURNER FOR PRECAST ELEMENTS

## PROY22-025 SINGAPORE

## SUPPLY:

A 180º turner, a machine specially designed for turning precast concrete elements by a total of 180º, from their moulding position to their final installation position on site.

All movements are carried out by means of a hydraulic system consisting of telescopic cylinders and a hydraulic unit with an electric control panel.

This machine has the capacity to turn precast concrete pipes and frames up to 40t











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SPECIAL MOLDS FOR ROAD CONSTRUCTION

## PROY22-024 ROMANIA

## SUPPLY:

The Double Wing Mold is made up of two front and two side shutters, as well as the core.
The BATTERY MOLD FOR HALF-FRAMES is made up of two side shutters, a set of slats and a core-bottom set.

The SIDE MOLD L0, L1, L2 & L3 is made up of two sides, a closing stopper, top and a bottom. A bottom and an additional top are also supplied.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SIDE MOULDS FOR I GIRDERS

## PROY22-023/ PROY22-030 ROMANIA

## SUPPLY:

SIDE MOULDS FOR I GIRDERS designed for the manufacture of prestressed concrete girders with a maximum length of 41 meters and variable section height of 1.8 or 2.1 meters. These are made up of a set of sides, which, when assembled together, give the shape to the piece to be manufactured.

The side molds and supplements are designed to work with the pre-existing universal casting bed at the client's facilities.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR BOX CULVERTS AND SELF-REACTING MOULD FOR BRIDGE GIRDERS

## PROY22-022 ROMANIA

## SUPPLY:

Equipment that will make it possible to manufacture prestressed beams of different geometries and other elements necessary for road infrastructure works.

Universal track, 100 m long and 12 cm wide. Prestressing system with foundation. Active and passive heads with relaxation cylinders in the active head. Design of the foundation pit. Tensioning and de-tensioning equipment.

I-shaped sides, H=0.40 m and L=20 m.

L" shaped sides, H=0.80 m and L=6 m.

T" shaped sides, H=adjustable (0.42 -0.52 m) and L=25 m. Pneumatic vibration system.

I" shaped sides, H=1,10 and L=30 m.

Modular mould for the manufacture of frames with dormant concrete of different sections.

Mould for partition walls with a minimum height of 2 m and a maximum height of 3.2 m.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TURNER 180°

## PROY22-020 SINGAPORE

## SUPPLY:

The machine is made up of two 90° turners, which, acting sequentially, allow a total turn of 180°.

The front turner has a fixed frame anchored to the ground and mobile nails that rotate 90°.

The rear turner has a mobile frame with front and rear translation, and mobile nails that rotate 90°.

The turners carry out their movement using hydraulic cylinders. There are a total of 8 cylinders for turning parts and one cylinder responsible for moving the turner with a mobile frame.

The installation requires the use of the supplied hydraulic power unit and electrical panel to carry out the turner maneuvers.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# HYDRAULIC MOULDS FOR RAILWAY PROJECT

## PROY22-018 AUSTRALIA

## SUPPLY:

Two hydraulic tracks (already installed on site) designed for the manufacture of prestressed concrete beams of 32 meters length each of variable section. The hydraulic track is supplied with an L-beam bottom and sides with a length of 32 meters. The mold configuration allows the production of 20 different parts.

The hydraulic track is driven by hydraulic cylinders controlled by a hydraulic power pack supplied.

The assembly is designed to work with tensioning and relaxation equipment with a maximum tensioning capacity of 1,400 TN, already available at the customer's facilities.

To go into more details, we tell you that the HYDRAULIC TRACK is also supplied together with configurable bottoms and set of sides, which assembled together and that will shape the piece to be manufactured.

In addition, sets of boxes, caps and supplements of different dimensions and shapes are supplied, which will be installed on the sides depending on the geometry of the part to be manufactured.

A hydraulic track for the manufacture of special inverted T-shaped prestressed concrete beams, still on its way to its destination. The maximum length of 37 meters. Mold height from 1547 mm to 2600 mm.

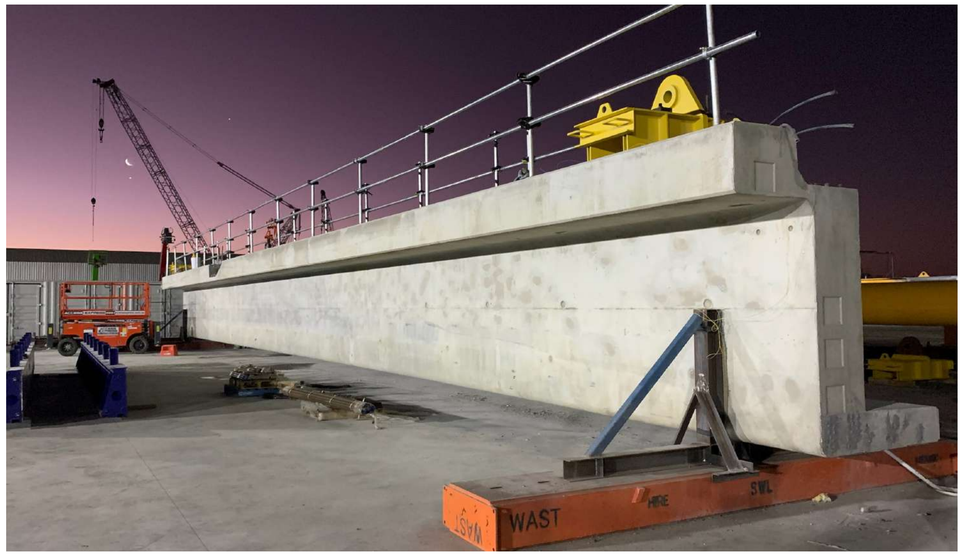
A hydraulic track for the manufacture of prestressed I-shaped concrete beams, still on its way to its destination. The maximum length of 39 meters. Mold height up to 2600 mm. Vibration system can be pneumatic or electric.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TITING TABLE FOR ARCHITECTURAL AND ENCLOSURE PANELS

## PROY22-016 MEXICO

## SUPPLY:

Equipment that will allow the production of architectural and enclosure panels.

Tilting table, 60 x 4 m, with hydraulic lower and upper band, and transversal separators of H=125 mm and H=150 mm.

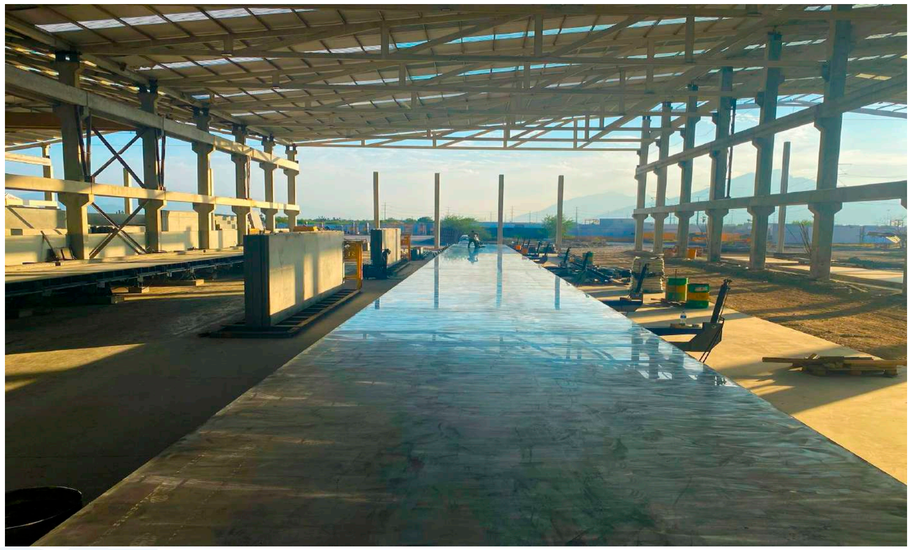
Pneumatic vibration system and heating system.

Hydraulic power unit.

Possibility of local or remote control of manoeuvres.

Phenolic formwork chassis.

Metal formwork H=125 and 150 mm.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOBILE PLANT: SELF-REACTING MOULD FOR BRIDGE GIRDERS

## PROY22-012 ROMANIA

## SUPPLY:

Mobile system of equipment for the manufacture of prestressed beams for bridges on site.

Universal casting bed, L=90 m and W=1 m, with self-supporting prestressing system with a capacity of 1400 t.

Active and passive heads, with relaxation cylinders in the active head. Hydraulic opening/closing movement of the sides.

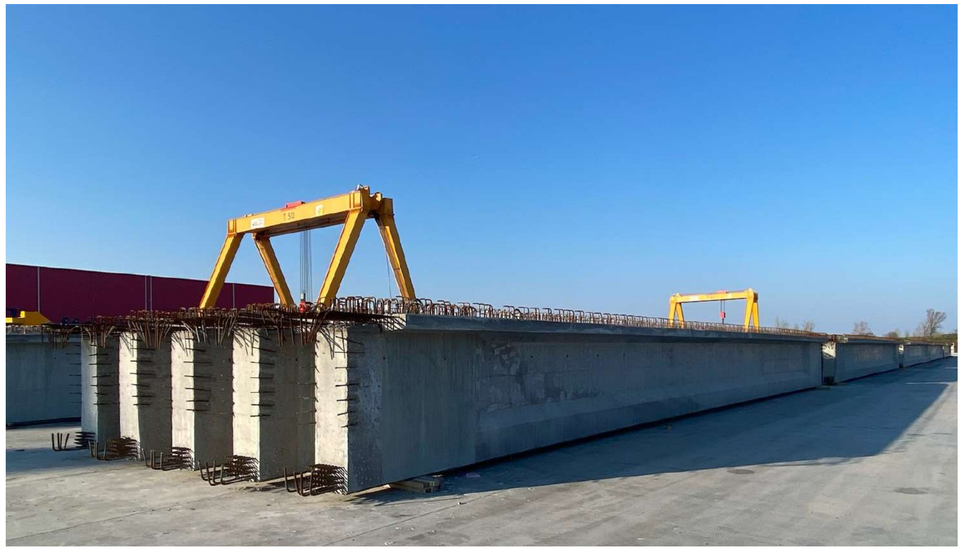
Mould sides for bridge beams of L=90 m and adjustable height from 1.4 to 2 m.

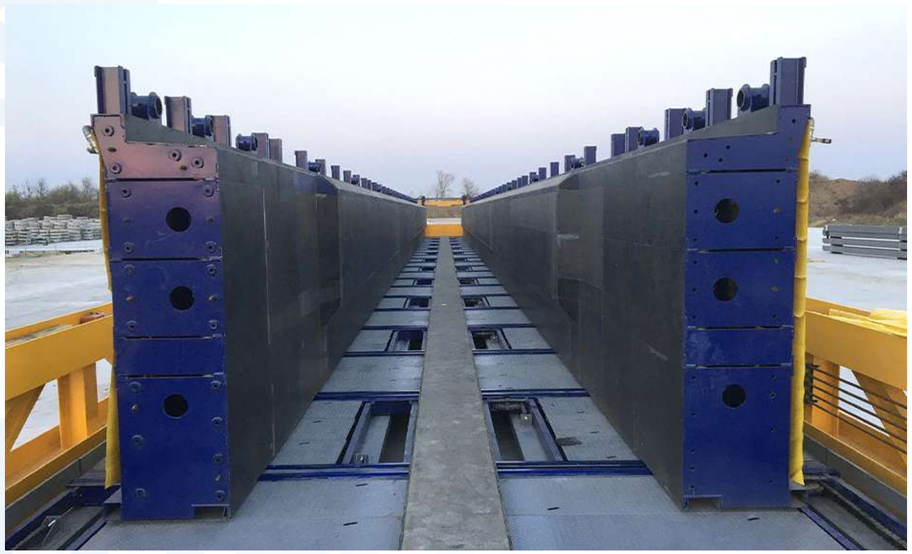
Pneumatic vibration and heating systems, with 800 KW thermal power boiler, and service pressure 4 bar.

Tensioning and de-tensioning equipment.

'Giraffe' mobile concrete distributors with a capacity of 3 m³.







Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR COLUMNS AND TILTING TABLE

## PROY22-011 ROMANIA

## SUPPLY:

Hydraulic double mould, 33 m long, for the production of concrete columns of variable cross-section from 500 x 500 mm to 1000 x 1000 mm.

Possible integration of corbels on 3 sides of each working line, and adjustable mould lengths along the entire length of the mould.

Includes electric vibration system and hydraulic opening-closing system controlled from the control unit.

Tilting table of 12 x 4 m, with a maximum inclination of 80º, controlled from the hydraulic control unit and electric control panel.

Includes electric vibration system and longitudinal magnetic formwork to produce panels with different heights.

Concrete skip of 2 m3, with hydraulic power unit to operate the opening-closing of the concrete pouring gate.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE FOR PANELS

## PROY22-007 CANADA





## SUPPLY:

Equipment for the production of precast concrete panels for the construction of residential buildings.

Tilting table for panels of 34 x 4 m.

Pneumatic vibration system, consisting of 21 vibrators.

Heating system, by means of finned pipes.

Thermal insulation canvas.





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TURNER OF 50 TONES

## PROY22-007 CANADA

## SUPPLY:

Auxiliary equipment that will allow the precast concrete parts to be turned from their moulding position to their final position, speeding up the installation process on site.

Turner with a capacity of 50 tonnes, for precast elements, up to 180º.

Movements carried out by means of a hydraulic system of telescopic cylinders, and controlled from a hydraulic control unit.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# CRANE LIFTED TURNING DEVICE FOR FLIPPING THE CASTED ELEMENTS 180°

## PROY22-005 AUSTRIA

## SUPPLY:

Crane lifted turning device for flipping the casted elements 180° by means of a motorized shaft with slings.

Capacity up to 6Tn.

Include remote radio-control.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULDS FOR THE MANUFACTURE OF PRESTRESSED BEAMS

## PROY22-004 LATVIA

## SUPPLY:

Equipment that will allow the manufacture of rectangular beams, also called T/L beams.

Set of heads, active and passive, with a capacity of 1000 t.

Mould for 19 m rectangular beams, equipped with a system for fastening to the existing track.

Adjustable height of 700, 800 or 900 mm.

Adjustable widths of 600, 800 and 1000 mm.

Pneumatic vibration system and internal heating on the sides to speed up production times.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# PANEL TRANSPORT RACKS

## PROY22-003/ PROY22-014/ PROY22-019 PORTUGAL

## SUPPLY:

Equipment for the transport of prefabricated panels to the site.

H outrigger for lifting racks.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# PRESTRESSING SYSTEM + CONCRETE SKIP 3M3

## PROY22-003/ PROY22-014/ PROY19 PORTUGAL



## SUPPLY:

The PRE-STRESSING BENCH is designed for the manufacture of prestressed concrete beams. The equipment is designed to be able to work with strands tensioning and relaxation equipment with a maximum tensioning capacity of 600 T. It consists of an active head and a 600 T passive head, located at the ends of a universal casting bed.

The HYDRAULIC RELAXATION UNIT is designed to carry out the relaxation operation on prestressing system, controlling relaxation cylinders through cylinder actuation levers.

The CONCRETE SKIP 3 m3 is designed for the distribution of concrete. The equipment incorporates a mini hydraulic unit that activates the concrete pouring gate using a control button. The equipment is designed to work with lifting tools that allow its correct operation.

The CONCRETE SKIP 3 m3 is composed of a tank with an interior capacity of 3 m3. Its concrete pouring gate is operated by cable control button.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULDS FOR PRESTRESSED DELTA BEAMS

## PROY22-002 GEORGIA





## SUPPLY:

Equipment for the production of prestressed beams.

Prestressing heads with a capacity of 600 tonnes, with relaxation cylinders.

Univeral casting bed 75 m long, which allows the production of beams with a base of up to 80 cm.

Modular set of laterals for the production of Delta beams up to 24 m long, equipped with electric vibration system and heating system.






Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MT20 DRY CAST SYSTEM FOR VIBROPRESSED BOX CULVERTS

## PROY21-050 ROMANIA

## SUPPLY:

Equipment that will allow the serial production of precast semi-dry vibropressed concrete box culverts.

Electric vibration system with the possibility of local or remote control.

All movements are hydraulic.

Hydraulic control unit.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE

## PROY21-049/ PROY22-008/ PROY22-042/ PROY23-004 ROMANIA





## SUPPLY:

The installation consists of two tables that, when assembled together, form a 25 m x 3.5 m work table. The tables consist of a frame with supports fixed to the foundation using anchor rods. The structure and top of the tilting table are mounted on the frame.

The table incorporates a manually adjustable longitudinal band with a minimum height of 80 mm and a maximum height of 300 mm, depending on the configuration of the part to be manufactured.

The tilting of the tables is carried out using telescopic hydraulic cylinders, allowing a maximum inclination of 75°. These are operated from a hydraulic power unit with an electric control panel.






Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR T BEAMS

## PROY21-049/ PROY22-008/ PROY22-042/ PROY23-004 RUMANIA





## SUPPLY:

Designed to manufacture this kind of girder on a casting bed.

The mould sides for T girder are casting elements designed to manufacture this kind of girder on a casting bed, in such way that their shape defines the section of the casted girder.





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# UNIVERSAL CASTING BED 1500TN

## PROY21-049/ PROY22-008/ PROY22-042/ PROY23-004 ROMANIA

## SUPPLY:

Universal casting beds are used for the manufacture of prestressed elements. These are made up of a support structure with a series of holes to fix the mold bottoms and side molds.

Using a prestressing system, composed of stressing heads and hydraulic tensioning equipment, a series of steel strands are tensioned to produce higher strength concrete pieces.

The mold for producing bridge girders is composed of a base (universal casting bed, an existing concrete slab or other type of bottom) and two I-shaped side molds with a quick fixing system with different positions for adjusting the size of the bridge girder to produce.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SELF-REACTING FIXED TABLES FOR PRESTRESSED PANELS

## PROY21-048 CANADA

## SUPPLY:

Self-supporting fixed table 61 x 3.6 m.

Manually height adjustable and hydraulically folding bands.

Passive heads of 150 t pre-stressing capacity.

Pneumatic vibration system.

Double hydraulic control unit.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLES

## PROY21-047 SPAIN

## SUPPLY:

A total of 2 tilting tables of 14 x 4.4 m, with bottom and side shutter of 31 cm.

Hydraulic unit to operate 2 tables.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR PRESTRESSED BEAMS

## PROY21-045 MOROCCO

## SUPPLY:

Equipment that will allow the production of prestressed beams for civil works.

Universal casting bed of L=82.6 m and W=1 m, with heads of 600 t prestressing capacity.

Stressing equipment.

Sides or moulds of LTR beams, of L=23.6 m and H=0.8 m.

Relaxation centre.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# HYDRAULIC MOULDS FOR COLUMNS AND TILTING TABLE

## PROY21-044/PROY22-010 FRANCE

## SUPPLY:

Equipment for the production of columns and panels for the residential sector.

Hydraulic mould for single column 1000x1000 and L=24 m, with adjustable height from 300 to 1000 mm and adjustable width from 500 to 1000 mm.

Hydraulic double mould for 1500x1500 and L=24 m beams, with the option of manufacturing 3-sided corbels.

Tilting table of 24 x 4 m, with hydraulic control unit.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE

## PROY21-042/PROY22-006/PROY22-017 FRANCE

## SUPPLY:

Tilting table of 37 x 3.5 m.

Hydraulic side shutters.

Top shutter with height of 150 mm high and length of 37 m.

Accessories: transversal shutters of different sizes.

Hydraulic control unit.

Concrete skip of 1.5 m³.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SIDE MOLDS FOR T BEAMS

## PROY21-041 SLOVAKIA

## SUPPLY:

The T-BEAM SIDES 26 M are designed for the production of prestressed concrete T-beams.

The sides have different configurations for the production of beams with varying heights and widths. The beam has different cross-sections along its length. The width of the lower part can vary between 100 and 600 mm, and the height of the upper flange is adjustable within a range of 1150 to 1800 mm.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULDS FOR PRECAST CABLE CHANNELS

## PROY21-040 SWEDEN

## SUPPLY:

Conceived for the implementation of communication infrastructures.

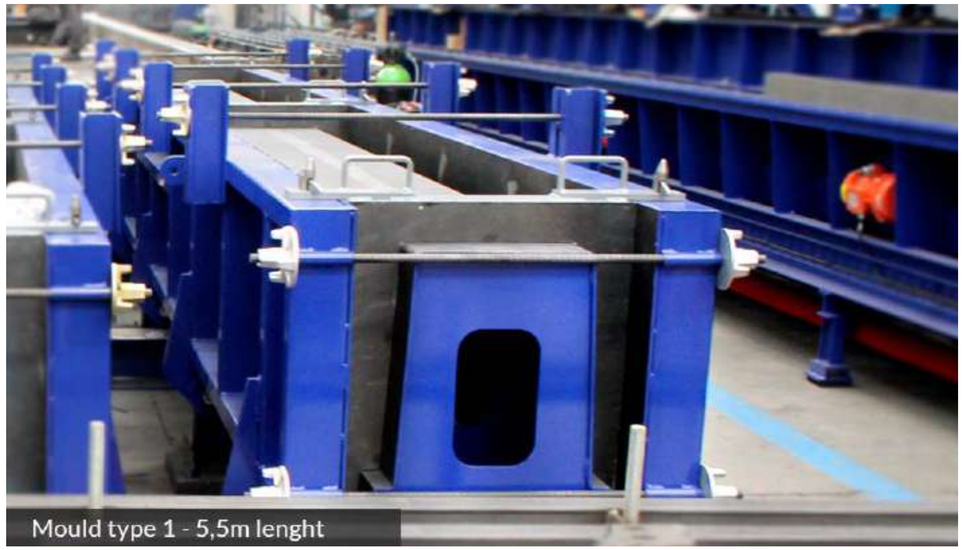
Four moulds to produce different channel sections.

Special prefabricated elements with 'H' and 'U' shapes.

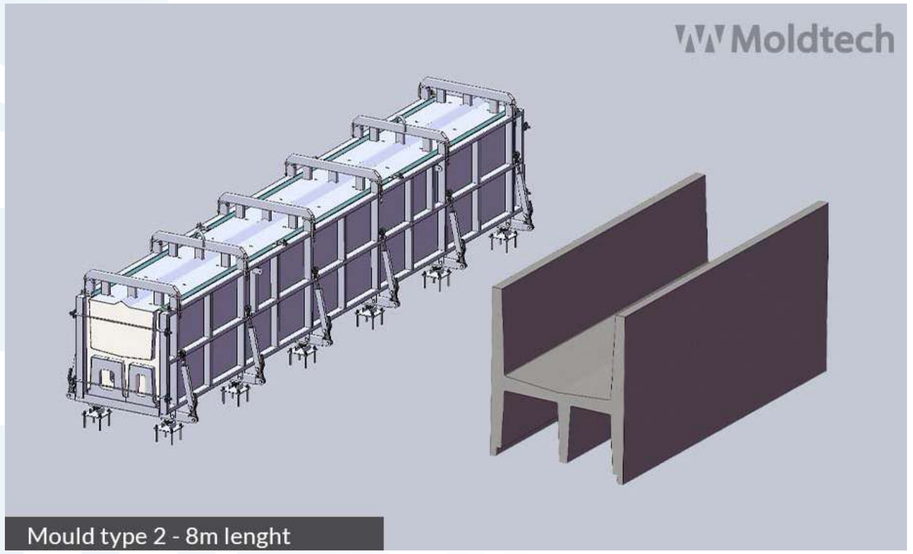
Daily production: 2-7 pieces, using intermediate dividing shutters.

Accessories: vibrotrack and hydraulic control unit.

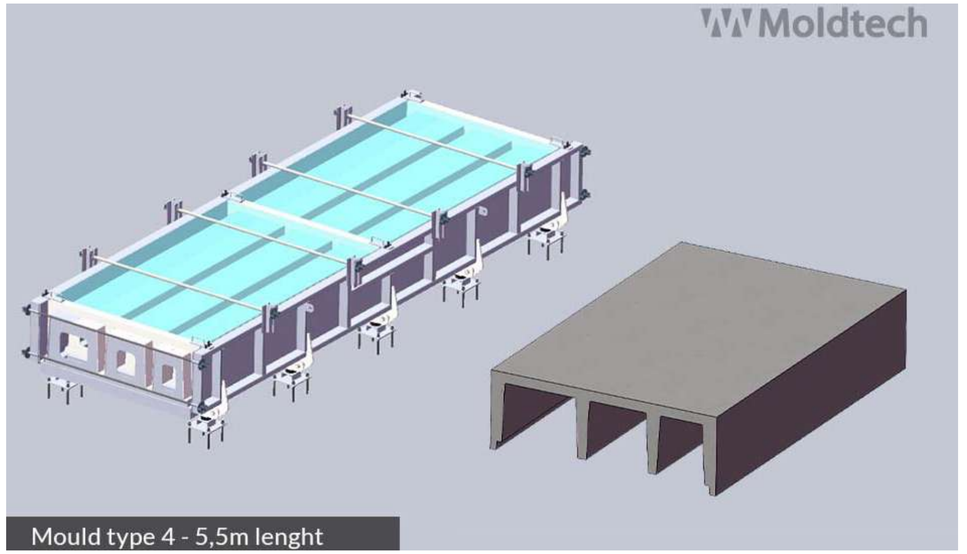




Mould type 1 - 5,5m lenght




Mould type 2 - 8m lenght




Mould type 4 - 5,5m lenght

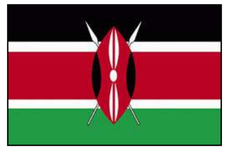
Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# RING ROAD PROJECT (I) - 'AASHTO' GIRDERS FOR BRIDGES

## PROY21-039 KENYA



## SUPPLY:

This project included the construction of motorway bridges using 'Aashto IV' and 'Aashto VI' pre-casted and post-tensioned girders.

The 'Aashto IV' girders have a length of approx. 30 m and weigh around 48 t whereas the 'Aashto VI' come in a length of approximately 40 m and a weight of 81 t.

The total supply for these items included 400 m of casting bed and 200 m of mould sides.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# RING ROAD PROJECT (II) - SPECIAL MOULDS FOR BEAMS

## PROY21-039 KENYA

## SUPPLY:

Apart from the 'Aashto' girders moulds, the client also requested so-called 'Plank' moulds which fabricate pre-stressed hollow core deck slabs.

The cavity is made by leaving a metal insert in the concrete for which MOLDTECH designed special tools to compensate for the upward movement and ensure that they stay in place.

A total of 130 m of casting bed was delivered together with 8 hinged mould sides with height of 60cm and a length of 14.7 m.

The stressing head has a capacity of 435 t and includes slackening cylinders for the de-tensioning of the strands prior to cutting them.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# COMPLETE RESIDENTIAL PLANT

## PROY21-037 FRANCE

## SUPPLY:

Special moulds for rooms for residential buildings, which allow to produce precast concrete elements with different doors and windows, and to leave embedded elements.

The residential unit is constructed using "ending" modules and "intermediate" modules.

The ending modules consist of: 2 outer sides, 2 lower sides, 2 bases, 2 height supplements and 2 transversal shutters.

The intermediate modules consist of: 2 outer side panels, 2 inner side panels, 2 bases and 2 transversal shutters.

Two assembly tables.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# BATTERY MOULD FOR PRESTRESSED JOIST BEAMS

## PROY21-036 ROMANIA



## SUPPLY:

The T-BEAM BATTERY consists of a fixed mold, a set of shutters, a passive head, and an active head with relaxation cylinders of 300 TN each, which, when assembled together, allow for the production of the described piece.
The mold includes an electric vibration system and heating pipes.

T-BEAM BATTERY, with two lanes, designed for the production of two prestressed beams.

The VIBRATION CART is designed to carry out the concrete vibration operation.





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# BATTERY MOULDS FOR PRESTRESSED JOIST BEAMS

## PROY21-036 ROMANIA

## SUPPLY:

Mould with length of 62.5 m and with a prestressing capacity of 600 t.

Conceived for the construction of roofs of industrial buildings and warehouses.

Daily production up to 250 linear metres.

Two production lines in each mould.

Manufactures large quantity of units on the mould using longitudinal and transversal shutters.

Includes electric vibration system and heating pipes.

Removable upper part to produce different sections of purlins.

Improved surface quality of the beams by polishing casting surface.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MT20

## PROY21-36/PROY21-050 ROMANIA

## SUPPLY:

Equipment that will enable the serial production of vibro-compacted semi-dry prefabricated concrete frames.

Electric vibration system with the option for local or remote control.

All movements are hydraulic.

Hydraulic power unit.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# ADJUSTABLE MOULD FOR PRECAST CONCRETE STAIRS

## PROY21-36/PROY21-050 RUMANIA

## SUPPLY:

Revolutionary system that allows staircases of different dimensions to be manufactured automatically and quickly.

Flexible mould for vertical cast stairs for a perfect finish on both sides.

Number of steps adjustable from 8 to 16.

Top and bottom landing with a maximum length of 2 m each.

Maximum staircase length of 8.20 m.

Ladder width adjustment by means of telescopic system up to a maximum of 1.85 m.

Thickness of the stairs variable from 12 to 25 cm maximum.

Opening-closing movements and electric vibration system operated by a single hydraulic control unit.

Nylon inserts installed in the mould for optimum lateral sliding.

Walkway platform on both sides of the mould.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOLD FOR COUNTERWEIGHT BLOC BB + BLOC BC

## PROY21-035 SPAIN

## SUPPLY:

MOLD for COUNTERWEIGHT BLOC BB is composed of two sides, a closing cloth, side covers and a base. The LO Laterals are designed for the manufacture of concrete pieces.

The BLOC BB COUNTERWEIGHT MOLD is composed of two sides, a stopper, side covers and a bottom. The LO side molds are designed for the manufacture of concrete pieces.









Precast Concrete Equipment

Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# BATTERY MOULD FOR BEAMS

## PROY21-034 SPAIN

## SUPPLY:

Self-supporting battery of beams with 4 working lines of 66 m long and 400 t tensioning head.

De-tensioning equipment.

16 tapes.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# HYDRAULIC PPVC MOULD

## PROY21-033 SRI LANKA

## SUPPLY:

Conceived for the construction of residential buildings.

Max. dimensions of 6.55 m length x 3.24 m width x 3.1 m height.

Option to change wall thickness.

Inner core with hydraulic retractable system for rapid demoulding without the need for a conical slope. Production of 4 walls and top slab a monolithic element.

The floor slab is connected at a finishing table, completing its 6 sides.

After this the module is finished on the inside completing installations, finishes and furniture. Then the modules are transported to the building site, where they are structurally connected to each other.

The supply also included the door and windows shutters and two lifting beams with a maximum capacity of up to 35 t and six lifting points.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 3D MOULDS FOR PBU

## PROY21-032 SINGAPORE













## SUPPLY:

Equipment for the production of Prefabricated Bathroom Units.

A total of 10 moulds for 3D volumetric bathroom modules for residential construction.

Equipped with hydraulic systems to optimise the tasks of preparation and extraction of finished elements, which are controlled independently in each of the moulds.

Both the opening of the outer sides and the shrinking of the inner core are carried out by means of a hydraulic cylinder system.

Different works can be realised on the production line, significantly increasing the production capacity.

Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MT-20 FOR DRY-CAST BOX CULVERTS

## PROY21-030 AUSTRALIA

## SUPPLY:

MT-20 , 1 UNIDAD

MT20 está diseñado para la fabricación continua de marcos prefabricados de hormigón, no pretensadas, utilizando el hormigón semiseco. Espesor de pared 140- 200 -260 mm, y dimensiones exteriores (ancho y largo) varían de 1200 mm hasta 2400 mm.

El molde cuenta con los siguientes servicios:

Sistema hidráulico para enclavamiento de encofrados exteriores e interiores

Sistema hidráulico para enclavamiento de portaprensas y elevación de encofrados interiores y exteriores

Sistema eléctrico para vibración del molde durante operación de llenado, que se puede controlar de forma local o remota.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# PALLETS FOR CARROUSEL LINE

## PROY21-028 CANADA

## SUPPLY:

Six pallets of 40' x 15' with pneumatic vibration.

Side shutters with height supplements.









Precast Concrete Equipment

Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLES FOR INDUSTRIAL BUILDING PANELS

## PROY21-027 MEXICO

## SUPPLY:

Equipment that will allow the production of prefabricated panels for the construction of industrial, logistics, commercial, parking, hospital and residential buildings.

Two tilting tables of 36 x 3.5 m, with 2 lower and upper bands, hydraulically folding and manually adjustable in height, for the production of panels with straight or tongue and groove edges (mechanical fixing).

Tilting by means of telescopic hydraulic cylinders, up to a maximum of 80°.

Hydraulic power unit and electric control panel to control tilting, and pneumatic vibration system.

Mirror polishing of the surface in contact with the concrete for a guaranteed top quality finish.

Production capacity: 200 m2 of panels/day.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# FIXED TABLE 11X4M

## PROY21-022/PROY21-029 U.S.A.

## SUPPLY:

The 11x4 m fixed table is designed for the production of non-prestressed precast concrete panels.

The table consists of a frame with supports fixed to the foundation by bolts. The fixed table top is mounted on the frame.

The table incorporates a pneumatic vibration system.





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLES FOR PANELS PRODUCTION

## PROY21-021 SPAIN

## SUPPLY:

Two tilting tables of 36 x 4 m, controlled through a hydraulic unit and by means of a touch screen.

Remote control to execute all processes (movement system, elevation and vibration) in a simple and intuitive way, by a single operator.

The tables are designed to manufacture concrete panels in a width range from 2 to 4 m and with a wall thickness from 16 to 30 cm.

Hydraulic top shutter.

Electric vibration system.

Hydraulic power unit.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TURNER 180° 50T

## PROY21-019 CANADA

## SUPPLY:

Equipment designed to turn precast concrete pieces, from the molding position to the final position of placement on site.

The machine is made up of two 90° turners, which, acting sequentially, allow a total turn of 180°.

The front turner has a fixed frame anchored to the ground and mobile nails that rotate 90°.

The rear turner has a mobile frame with front and rear translation, and mobile nails that rotate 90°.

All movements are carried out by a hydraulic system made up of telescopic cylinders and a hydraulic central unit.












Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR TT SLABS

## PROY21-015 MOROCCO

### SUPPLY:

- Self-stressing mould for 400 tons (882 kips) of prestress
- Length of the mould 94m (308')
- Width of the mould 2400mm (94")
- Stem depth 750mm (29-1/2")
- Slackening cylinders with hydraulic unit for de-tensioning of the strands
- Air vibration system









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# EQUIPMENT FOR THE CONTRUCTION OF RESIDENTIAL BUILDINGS

## PROY21-014/PROY21-018 USA

## SUPPLY:

Two self-stressing tables of 150 x 2.4 m, with passive heads with a capacity of 110 t and its corresponding set of longitudinal and transversal formwork. Vibration by vibrotrack.

The supply includes a total of 3 wagons with portico structure on rails for a variety of tasks such as cleaning, application of release agent, strand pulling, transport of shutters, wire cutting and placement of canvas cover.

Two 'Giraffe' mobile concrete distributors with a capacity of 4 m³.

Fixed table of 150 x 4 m for the manufacture of foundation slab with hydraulic side shutter.

Four adjustable staircase moulds.

Pre-stressing equipment (stressing jack, hydraulic unit, wedges etc.).









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# CLEANING MACHINE, TRANSPORT MACHINE AND ROLLING MACHINE

## PROY21-014 USA

## SUPPLY:

Three customised auxiliary equipment that will speed up the execution of tasks and reduce the manpower requirements in the production of prestressed slabs of L=150 m.

Cleaning machine, with a strand cutter incorporated. It brushes the table surface and has a pneumatic system for the automatic removal of dirt from the table surface. The cleaning system consisting of rotating rollers, brush, and scraper.

Transport machine, multifunctional, as it can apply the release agent, transport the formwork and launch the prestressing strands.

Both machines run on rails and have their own battery for autonomous movement.

Rolling machine, which rolls out and unfolds the tarp on the casted elements for improved curing. It is operated hanging from a bridge crane. The tarp has a maximum width of 3 m and a specific weight of 0.650 kg/m2.

The 3 machines can operate independently on each of the 2 universal beds, thereby optimising the cycle times of each machine.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# AUTOMATED FINISHING LINE FOR BATHROOM PODS

## PROY21-014/PROY21-018 USA

## SUPPLY:

Automated finishing line for bathroom PODS, with attaching tiles, painting, installation of sanitary items, etc.

Automation of the complete system.

Shifter.

Pallets.

Pallet supports.

Work platforms.

Concret skip of 2 m3.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# HYDRAULIC MOULDS FOR PRECAST BATHROOM UNITS (PBU)

## PROY21-014/PROY21-018 USA

## SUPPLY:

A total of 6 moulds for the production of Prefabricated Bathroom Unites (PBU).

A total of two different sizes with 6 moulds controlled by two hydraulic units.

Monolithic construction of the bathroom walls and floor after which the casted element is turned 180°.

Inner core with hydraulic retractable system for quick demoulding without the need for conical slope.












Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR NICHES

## PROY21-010 SPAIN

## SUPPLY:

Mould for niches 86x263x68 cm

The equipment is equipped with a pneumatic vibration system to facilitate the mould filling process.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# HYDRAULIC MOULD PPVC FOR 3D RESIDENTIAL ELEMENTS

## PROY21-008 FRANCE

## SUPPLY:

Produces 3D monolithic elements, without tapering of the walls.

Built with modular length and width adjustment to produce different sizes.

Hydraulically shrinking inner core.

Hydraulically closing of outer mould.

Includes air vibration system.

The finished element is demoulded in a record time.

The mould allows producing elements with different doors and windows position and embedded elements; it also allows special configurations according to the customer's request.

High quality monolithic 3D elements using self-compacting concrete, produced with great efficiency and flexibility.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# NEW MOULD FOR BOX CULVERT WET CAST

## PROY21-007 FRANCE

## SUPPLY:

According to this specification, the mould supplied by MOLDTECH, is an easy operated mould, consisting in 2 sides in the shape of a 'L' frame allowing the sections and thickness of the element to be cast to be modified, as well as a set of 2 bases to produce 2 box culverts per day.

The minimum interior section of the mould is 3 x 2 m, and the maximum is 3 x 3 m, having intermediate sections every 0.25 m.

The mould maintains the same height in all sections, while the thickness of the precast element could be also modified from 180 to 305 mm.












Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULDS FOR CIVIL WORKS

## PROY21-005 ROMANIA

## SUPPLY:

Four moulds for the manufacture of underpasses with a maximum height of 3.2 m to be built observing the country's norms and regulations.

Specifically, four sets of mould sides and eight bases were supplied.

This equipment provides the client with a high production capacity of up to 12 pieces per day (19.2 linear meters).

In addition, MOLDTECH designed this mould in such a way that the client can manufacture prefabricated elements of different heights as the equipment was designed in a modular way, thus offering a versatile solution capable of adapting to a wide variety of production requirements.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOLDS OF PRECAST BRIDGE WINGS

## PROY21-004 ROMANIA

## SUPPLY:

Molds of precast bridge wings 710x700
Molds of precast bridge wings 990x700

The mold of precast bridge wings is designed for the manufacture of non-prestressed precast concrete parts.

It is made up of a fixed central core and two hinged hinged sides for the demoulding of the parts to be manufactured.

The equipment is supplied with a pneumatic vibration system.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# NEW JERSEY BARRIERS

## PROY21-002 MALTA

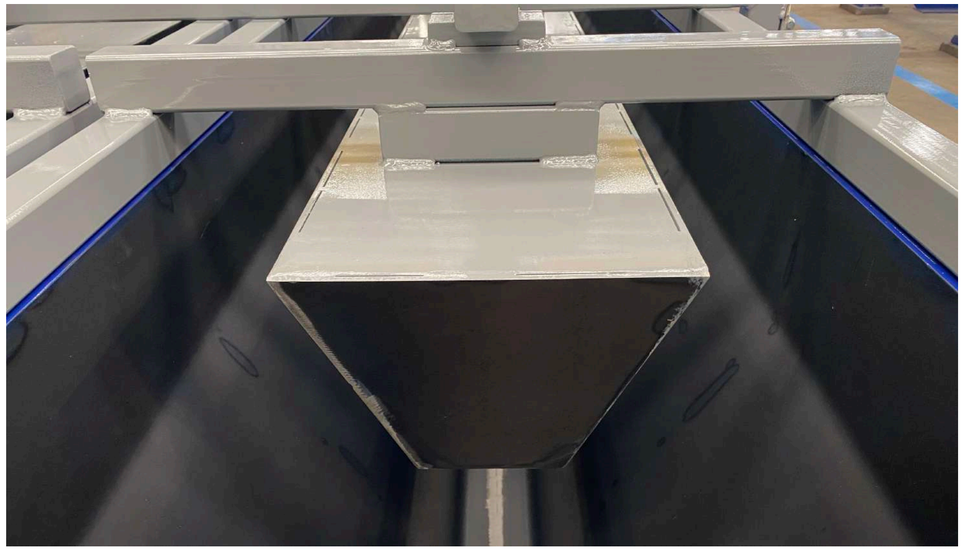
## SUPPLY:

The SINGLE NEW JERSEY BARRIER is designed for the simultaneous manufacture of one NEW JERSEY BARRIER.

The DOUBLE NEW JERSEY BARRIER is designed for the simultaneous production of two NEW JERSEY BARRIERS.

The machine consists of a fixed frame-mould and a set of upper formworks which, assembled together, give shape to the part to be manufactured.







Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE

## PROY20-063/20-064 SPAIN

## SUPPLY:

The TILTING TABLE is designed for the production of precast concrete panels for residential, commercial and industrial buildings.

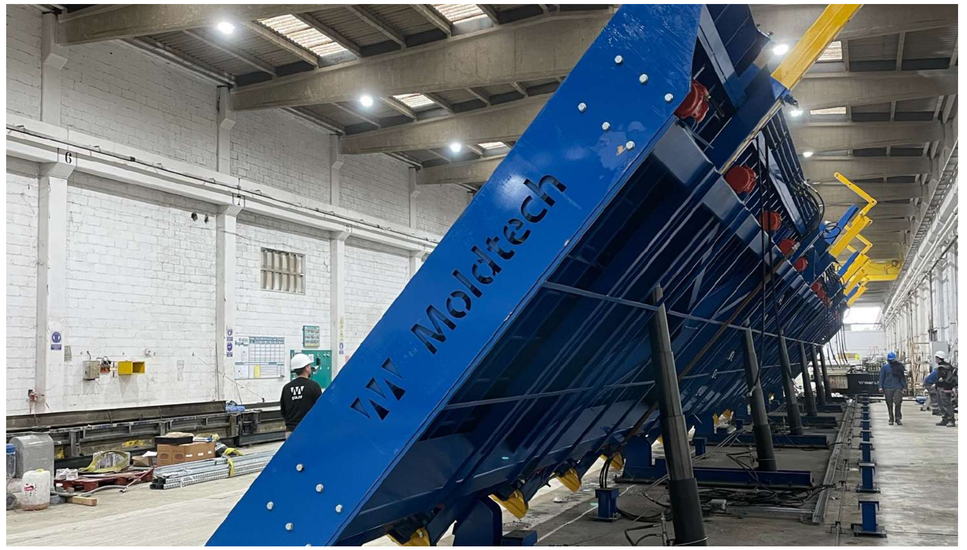
It is made up of 3 modules of length 12 m and width 4 m. The modules are joined together to form a 36 m long production line.

The modules are made up of a fixed frame, with supports fixed to the foundations, and a tilting deck that allows a maximum inclination of 75º.

The modules have an upper longitudinal band that allows the manufacture of straight or inclined panels of variable height between 2,000 and 4,000 mm. In addition, the upper band has a system of lifting cylinders that allows horizontal movement without friction between the elements of the band and the tabletop.

The table incorporates a lower longitudinal belt, adjustable in height, and interchangeable formwork assemblies that allow the production of panels with a thickness between 80 and 300 mm.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SPECIAL MOULD FOR DRAIN CHANNELS

## PROY20-062 POLAND

## SUPPLY:

Inner core with hydraulic shrinkage system.

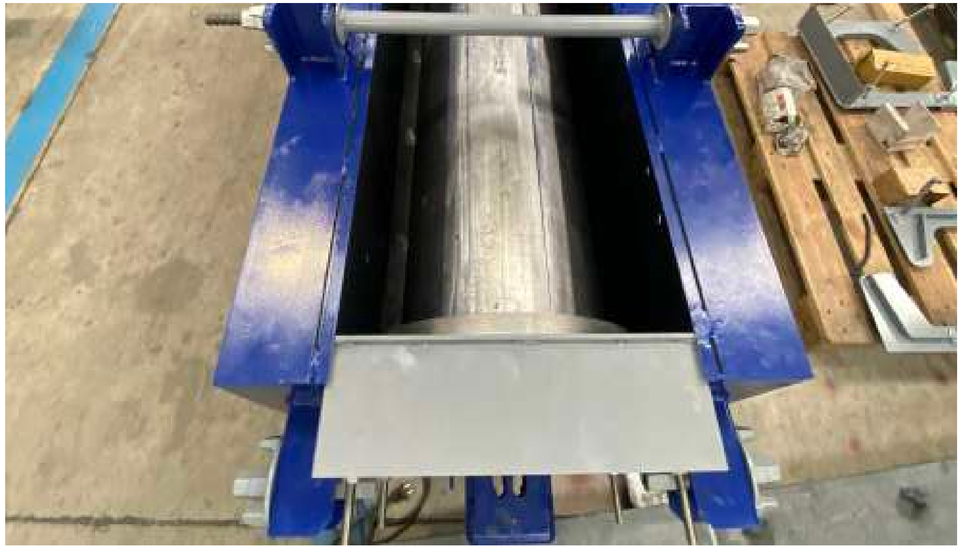
The core is activated by a hydraulic cylinder to shrink and expand.

The core is inserted into the mould and expands completely.

Concrete is poured into the mould and sets.

Stripping: the outer faces are opened, the core is hydraulically contracted and pulled out to remove the finished channel piece.







Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLES FOR RESIDENTIAL CONSTRUCTION

## PROY20-061 ARGENTINA

## SUPPLY:

Serial production of concrete panels and slabs for the construction of various models of single-family houses.

MOLDETCH was the company chosen for the design, manufacture and installation of 2 tilting tables of 24 x 3.5 m.

Heigth adjustable bottom shutter that allows the production of panels up to 25 cm thick.

Pneumatic vibration system.

Polished casting surface with “mirror” finish for the production of very high-quality panels.












Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULDS FOR BOX CULVERTS

## PROY20-060/ PROY21-017/ PROY22-009 SPAIN

## SUPPLY:

The MOULDS FOR BOX CULVERT are designed to manufacture non-prestressed prefabricated concrete pieces with wall thicknesses of 200, 250, and 300 mm.

These molds consist of an inner frame, an outer frame, and two interchangeable bases to allow for serial production of pieces.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOLDS FOR WATER DRAINAGE

## PROY20-058 ROMANIA

## SUPPLY:

Battery mold for the production of semi-concrete frames, with a capacity to produce up to 8 concrete pieces per day (9.6 linear meters).

Double mold for the production of prefabricated concrete wing walls. These pieces are placed at the beginning and end of the culverts and semi-culverts, completing the entire water drainage system. With this mold, the client will be able to produce up to 4 concrete pieces per day.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# VERTICAL BATTERY MOULD FOR PANELS

## PROY20-057 MIDDLE EAST

## SUPPLY:

The mould allows our clients to make panels up to 10 m long and with a height of 4 m.

With the help of mechanical extenders, the side shutters can be located inwards thereby shortening the panel length.

At the same time the mould allows for adjustment of the panel height using telescopic supports.

The opening and closing movements of the panels are carried out by 2 electric motors controlled from a control panel, while 2 high-capacity hydraulic cylinders are used to tighten the cavities before the concrete is poured.

At full capacity the mould can cast 10 panels at the same time with a panel thickness up to 350 mm.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# FIXED TABLES FOR PRESTRESSED PANELS

## PROY20-054 THE BAHAMAS

## SUPPLY:

The expansion of the Nassau cruise port requires the use of pre-stressed deck panels.

For the production of these panels Moldtech designed the corresponding self-stressing fixed tables prepared for a prestress force of up to 140 MT.

The panels have typically a length of 6.70 m and a width of 1.52 m. The height of the panel is either 30 or 45 cm whereas the profile can be straight or incorporating a keyway.

MOLDTECH came up with a solution which enables the same table to produce all the different panel varieties providing maximum flexibility to the client.

A total of 3 tables are being installed, each with a length of 49 m. Transversal shutters and a pneumatic vibration system complete the supply for this project.












Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

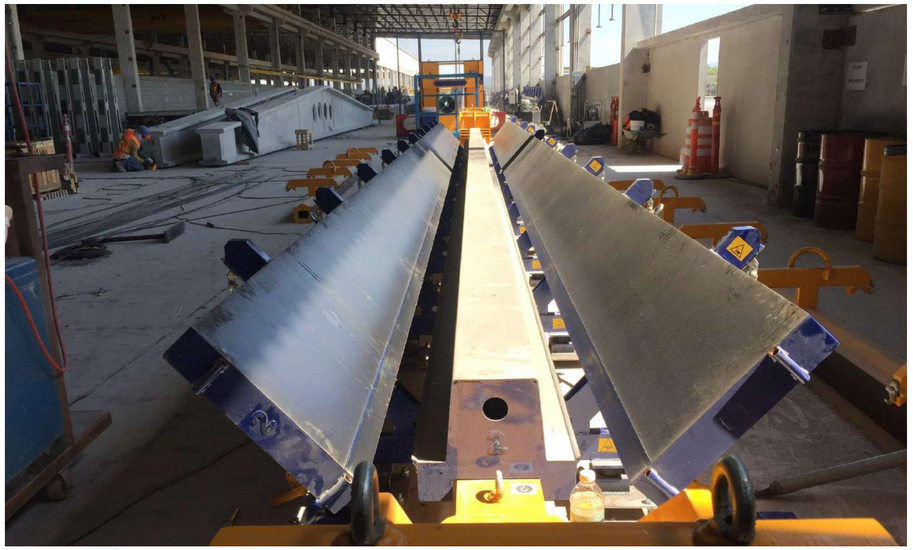
# SELF-REACTING MOULD FOR BEAMS

## PROY20-052 MEXICO

## SUPPLY:

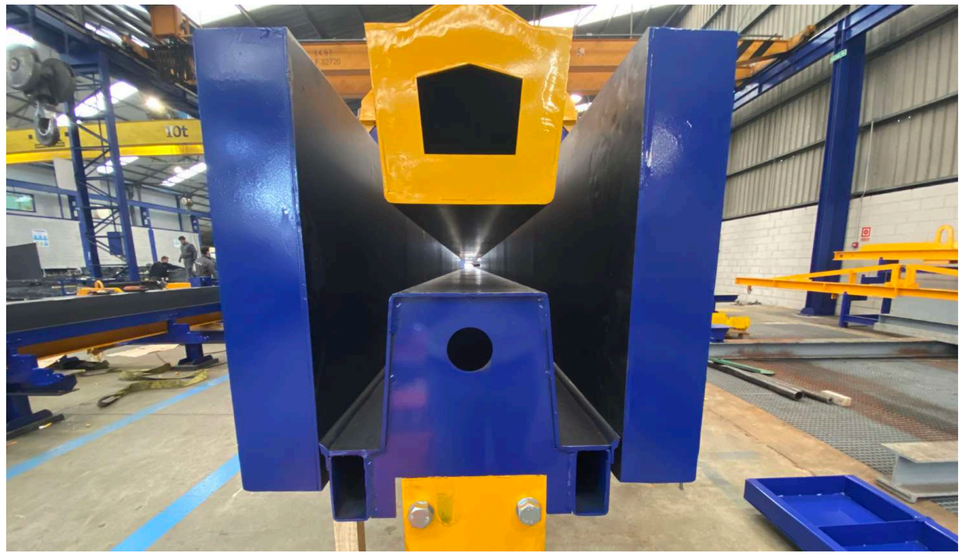
Self-reacting mould for H beams is designed for the manufacture of prestressed prestressed beams. The mould has a capacity of 125 TN of prestressing, a relaxation cylinder and a relaxation cylinder, as well as a pneumatic vibration system to pneumatic vibration system to facilitate the concrete filling and setting process. concrete curing process.

This mould is composed of a fixed bottom, a set of hinged sides, a set of foldable sides set of hinged side walls, a set of a set of cutters, a central core, a passive head and an active head with a cylinder an active head with a 150 TN relaxation cylinder, which of 150 TN, which, when assembled together, allow the production of the part, allow the manufacture of the part described.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# NEW JERSEY BARRIERS

## PROY20-051 MALTA

## SUPPLY:

The NEW JERSEY BARRIERS is designed for the simultaneous production of two New Jersey type barriers.

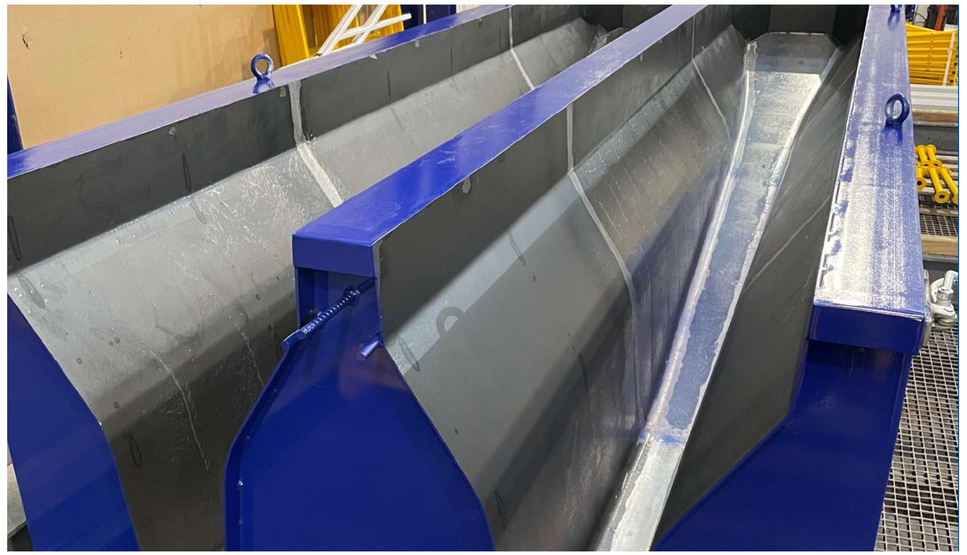
The machine consists of a fixed frame-mold and a set of upper inserts/formworks, which, when assembled together, shape the piece to be manufactured.

A DOUBLE BARRIER MOLD FOR NEW JERSEY-END LINE is also supplied.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULDS FOR BOX CULVERTS

## PROY20-048 ROMANIA

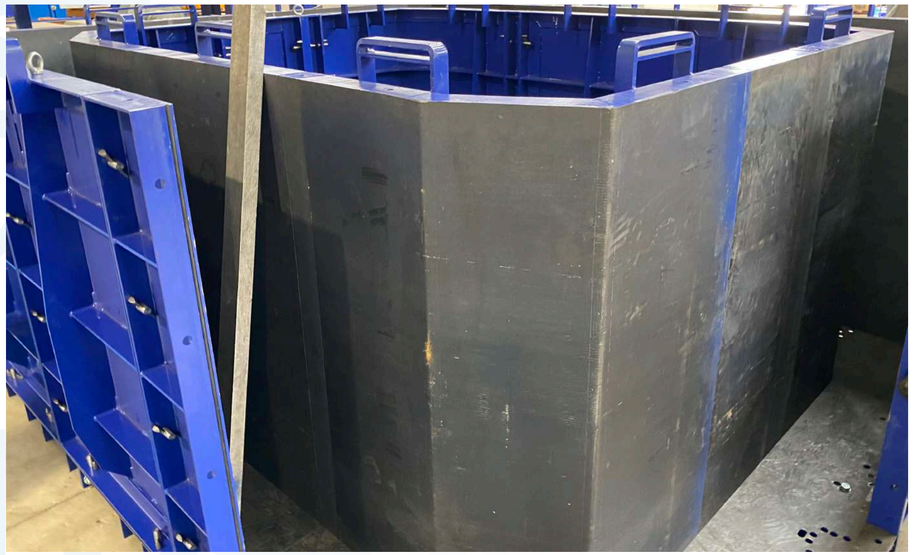
## SUPPLY:

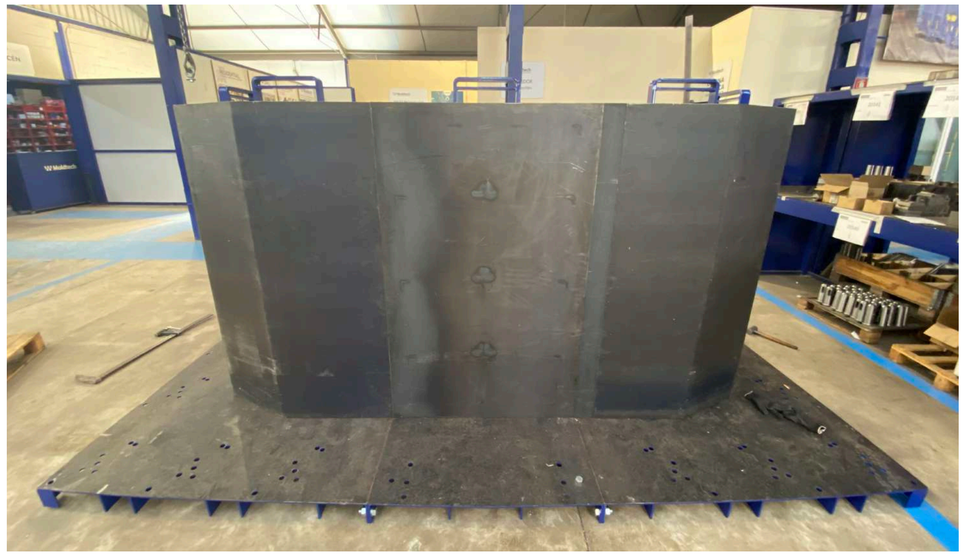
The bases are assembled with bolt and nut connections, while the inner and outer molds are assembled on them using wedge-bolt connections.

When demolding the piece, the inner and outer molds can be removed in four parts each, meaning they do not need to be fully disassembled, which simplifies the production process for series of pieces with the same dimensions.







Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 435T PRESTRESSING SYSTEM

## PROY20-046 KENYA

## SUPPLY:

A prestressing bed of 435T is supplied, consisting of active and passive heads, a universal bed, and a set of side molds.

The universal bed is 120 meters long. The beam sides have adjustable internal formworks for producing beams with a maximum section of 900×600 mm and a length of 14.7 meters.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# PRESTRESSED ELECTRIC POLES ACCORDING TO SONELGAZ REGULATIONS

## PROY20-044 ALGERIA

## SUPPLY:

The project includes equipment to produce electric poles according to the regulations of SONELGAZ, a historic electric power and gas operator in Algeria.

SONELGAZ has been and is a promoter of electricity and gas distribution networks throughout the Algerian territory.

MOLDTECH has studied the design of the equipment meticulously, so that the client has production systems that allow user-friendly use, in addition to having the help of hydraulic opening and closing systems.

The moulds meet the regulations for prestressed electric poles type RC250, CC400 and CC630. These moulds allow to produce in three different lengths, 9, 11 and 12 m.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MT20

## PROY20-042 ROMANIA

## SUPPLY:

Designed to allow continuous production of precast concrete frames of different different dimensions and thicknesses.

This equipment is designed for high productivity of precast concrete frames concrete, because it allows the use of semi-dry vibro-pressed semi-dry vibro-pressed concrete (dry cast).

This equipment consists of the assembly of an inner and an outer formwork. internal and external formwork on the same base, to which base, to which they are anchored by means of a set of hydraulic hydraulic clamps. Both the two formworks and the base have a modular design, which allows the assembly of the two formworks.

a modular design, which allows the assembly of more or fewer of more or less elements to produce prefabricated prefabricated frames in different dimensions, generally up to 3x3m. It is also possible to also possible to produce different thicknesses with the same system, depending on the elements to be assembled in the external in the external formwork.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# CONCRETE DISTRIBUTOR FOR PALLET CIRCULATION SYSTEM

## PROY20-041 PORTUGAL

## SUPPLY:

Capacity of 3 m³.

Emptying through 9 pneumatic gates, adjustable opening and discretionary selection.

Electric-pneumaticsystem:longitudinalmovement and different track changes.

Chute and oscillating screed.

Systems controlled from a fixed control on a central platform or from a remote control.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR STAIRCASES

## PROY20-039 NETHERLANDS

## SUPPLY:

The staircase moulding with 4 steps consists of a fixed side panel, a removable side panel and an interchangeable tape/stopper, which, when assembled together, form concrete stairs.












Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# FLEXIBLE STAIRCASE MOULD FOR RESIDENTIAL WORK

## PROY20-037 PORTUGAL

## SUPPLY:

For the manufacture of stairs with a maximum of 19 steps, 2 optional landings and a maximum width of 2 m.

The size of the steps is manually adjustable by means of spindles and phenolic formwork planks, with maximum and minimum dimensions.

The width of the stairs is adjustable by means of interchangeable wooden bottoms (not supplied with the mould) and adjustments of the height supplements incorporated in the structure.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# FACTORY EXPANSION IN NORTHWEST FRANCE

## PROY20-031 FRANCE

## SUPPLY:

The MOLDTECH tilting table of 12.5 m enables the company to produce precast concrete elements of up to a thickness of 30 cm and with a load of 750 kg/m2.

French precasters normally use the fixed tables as a general casting surface where all kinds of different concrete elements are casted using magnetic shuttering. These elements can be architectural, structural or façade elements. This table, with a size of 13.5 x 5 m and a load capacity of 750kg/m2, features manually adjustable lateral shuttering of 30 cm height and offers great versatility for the production of flat and linear concrete elements.

The classic double beam mould, widely used in France but in this case features hydraulic opening and closing. This mould has a length of 8 m and will cover future production needs. Each line can produce a maximum section of 1.5 x 1.5 m. However the longitudinal mid panel can be removed allowing casting widths of 3.1 m and height up to 1.5 m.

All surfaces directly in contact with the concrete have a special polish so self-leveling concrete can be used. The mould has also gangways in accordance to the safety regulations.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# EQUIPMENT FOR THE PRODUCTION OF 'AASTHO' BEAMS

## PROY20-028 SLOVAKIA

## SUPPLY:

54 m of sidewalls on universal track for 1 m wide beams.

33 m of side panels on universal track for 1.5 m wide beams.

45 m of hydraulic mould for 2 m wide beams.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 3D - PBU MOULD AND 180º TURNER

## PROY20-026 HONG KONG

## SUPPLY:

3D - PBU mould for bathroom modules.

Inner core and outer walls driven by a hydraulic system with hydraulic cylinders controlled from a control unit with control panel.

Adjustable for different part sizes.

Heating system for curing with fan heaters and integrated control system.

180º turner with a capacity for 35 t.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# NEW PRECAST PLANT FOR RABAT AIRPORT

## PROY20-023/PROY21-015 MOROCCO

## SUPPLY:

Equipment for the production of precast elements for the construction of the extension of the new Rabat Airport terminal.

100 m long self-stressing 'TT' slab mould.

80 m long universal casting bed with stressing heads for 600 t and mould sides to produce 'L', 'T' and rectangular beams.

Single lane column mold with corbels.

Tilting table.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# UNIVERSAL CASTING BED AND 1000 TONS PRESTRESSING SYSTEM

## PROY20-022 MEXICO

## SUPPLY:

This universal bed system has a fixed base system that allows the production of beams with a base up to 80 cm. The tensioning head system has slackening cylinders and the corresponding tensioning equipment, for 12 and 15 mm diameter strands.

A modular length 'delta' beam mould, which will allows the customer to produce 'delta' beams up to 34 m in length. These beams will be used for the construction of industrial and logistics buildings.

A beam mould for 'L', 'T' and rectangular sections, variable width, 1 m high, and 24 m long. This mould will work on the universal prestressing bed system and will be used to produce all types of slab support beams.

To solve the drainage of industrial roofs, MOLDTECH has provided the client with a self-supporting mould of a 15 m long 'H-Channel' beam, with a fixed section of 40 x 50 cm, and a 150 t prestressing system. This channel beam will be in the lower part of the 'delta' beams to collect rainwater from the roof, and discharge through vertical pipes fixed to the columns.












Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# INSTALLATION OF EQUIPMENT FOR CIVIL WORK

## PROY20-016 BURKINA-FASO



## SUPPLY:

Moulds for the production of drain channels.

Fixed tables for the production of pre-slabs for bridges.

Formwork for drainage channels.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SIDE MOULD FOR L BEAM

## PROY20-011 ROMANIA

## SUPPLY:

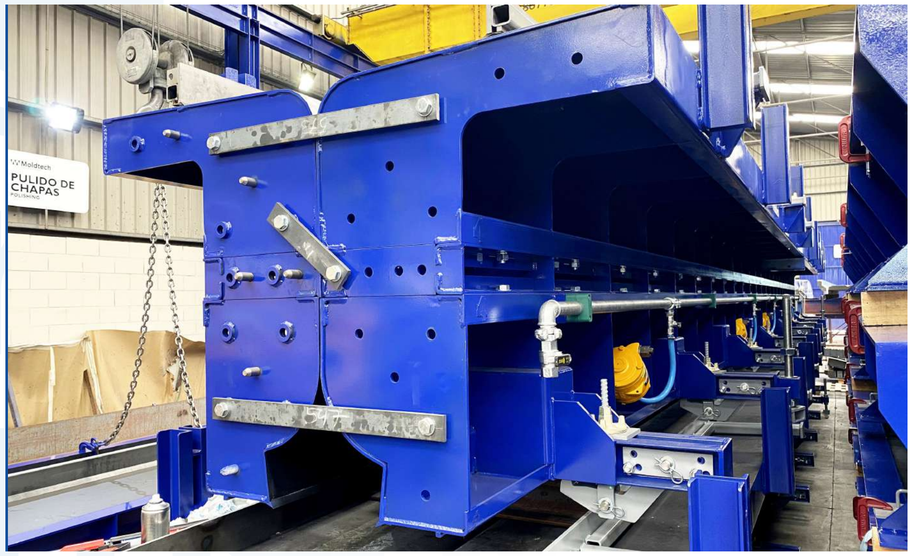
The L-beam mold consists of a set of side molds to be mounted on the universal bed, thus forming a formwork or mold with the desired shape of the piece.

It is composed of two side mold subassemblies, with lengths of 12,000 and 12,500 mm, and three types of front shutters with variable heights between 930 and 1,030 mm.












Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLES FOR ARCHITECTURAL FACADE PANELS

## PROY20-005 PHILIPPINES











## SUPPLY:

Equipment specially designed for the manufacture of prefabricated architectural façade panels for important residential projects.

Two 12 x 4 m tilting tables, with electric vibration system and different magnetic metal formwork systems and a system of magnetic frames for wooden formwork specially designed by Moldtech to form different panel dimensions.

All hydraulic systems are controlled by a hydraulic control unit, which incorporates an electrical panel that allows all movements from a remote control.

The polishing of the contact surface of these tables ensures a perfect finish of the panel, which is a top priority for the customer.

Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULDS FOR WATER CHANNELS

## PROY20-002 ROMANIA

## SUPPLY:

Battery mould to manufacture concrete segmental box culverts, with the capacity to produce up to 8 casted elements per day (9.6 linear metres).

Double mould for the manufacture of precast concrete wings. These pieces are placed at the beginning and at the end of the culvert and segmental culverts galleries, concluding with them the complete work of the water canalization. This mould can produce up to 4 pieces per day.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# ‘GIRAFFE’ SYSTEM FOR CONCRETE TRANSPORT AND POURING

## PROY20-002 PORTUGAL

## SUPPLY:

DIRECTION: hydraulic, frontal.

WEIGHT: approximately 9,500 Kg (20,943 lbs), depending on models.

HOPPER CAPACITY: 3 m³

MAXIMUM ANGLE OF ENDLESS CONVEYOR: 18º to the vertical.

MAXIMUM DISPLACEMENT SPEED: 10 km/h.

MAXIMUM DISPLACEMENT SLOPE: 5º

ENGINE POWER: diesel 70 kW.

ROTATION: 180º for 120 S and 360º for 120.












Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# EQUIPMENT FOR THE CONSTRUCTION OF ROAD INFRASTRUCTURES

## PROY19-036/PROY20-018/PROY21-020 GUINEA-CONAKRY

## SUPPLY:

Moulds for channels for different sections.

Fixed tables for the production of top closing slabs of the channels.

Modular moulds for box-culverts for dimensions up to 3 x 2 m.

Universal bed system of 105 m length.

Moulds for 'I' beams for bridges including auxiliary equipment.

Special formworks for circular columns of viaducts and bridges.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# PRESTRESSED BEAM PRODUCTION SYSTEM

## PROY19-031 MOROCCO

## SUPPLY:

70 m universal casting bed system.

Streassing heads for 600 t of pre-stress.

Moulds for 'I' and rectangular beams types, 35 m length.

Auxiliary pre-stressing equipment such as stressing jacks, and de-tensioning units.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MT-20 SYSTEM FOR DRY CAST BOX CULVERTS PRODUCTION

## PROY19-030 MEXICO

## SUPPLY:

This machine consists of a modular mould to produce culverts from 1.5 x 1.5 to 3 x 4 m.

The system has 10 modular work bases and a new pressing system hydraulic system that together with an electrical vibration system distributed throughout the exterior and interior mould contour, ensures that the final product has an unmatched finish quality.

In addition to being flexible in measurements and not requiring any civil works, this system allows to be able to manufacture on site campaigns or move the mould through different factories in an environment.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# COMPLETE FACTORY FOR 3D BATHROOM UNITS - PBU

## PROY19-023 SAUDI ARABIA

## SUPPLY:

A total of 24 moulds for 3D bathroom units, with hydraulically shrinkable inner core.

It allows the production of monolithic 3D elements.

Two turning machines 180º, hydraulically movable shaft to adjust to different sizes.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# FIXED TABLE105X2.39 M

## PROY19-018 PHILIPPINES

## SUPPLY:

The FIXED TABLE has a length of 105x2.39M.

The installation is designed for the production of non-prestressed concrete parts with a maximum thickness of 90 mm.

The table is supplied with a pneumatic vibration system.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# NEW SPECIAL FIXED TABLE FOR PRESLAB

## PROY19-017 FRANCE

## SUPPLY:

New fixed table of 7.5 x 2.40 m size for the production of non-prestressing pre slab, to use in residential buildings.

Supplied with a system of hydraulically adjustable sides, which allows to quickly adjust the height of the pre slab or the panels to be produced. The thickness is variable from 50 to 200 mm.

With a polishing completion of the sheet that is in contact with the self-levelling concrete, which ensures a perfect finish of the exposed face of the slab.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE FOR ACOUSTIC PANELS

## PROY19-016 ROMANIA

## SUPPLY:

Tilting Table for Rustic Panels 48x2.5M

The table consists of a frame with supports fixed to the foundation by bolts. The tilting table structure and platform are mounted on the frame.

The table includes:
• Folding longitudinal bands with a height of 200 mm
• Band extensions with a height of 100 mm
• Transversal formworks
• Longitudinal formworks
• Pneumatic vibration










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# HYDRAULIC DOUBLE COLUMN MOULD AND 'T'-BEAM BATTERY MOULD

## PROY19-013 ROMANIA

## SUPPLY:

Hydraulic double mould for 32 m long columns, with interchangeable casting bed plates for width range from 300 to 1200 mm.

Nylon sliding paths for smooth opening and closing.

Top ties with handle.

Possibility of manufacturing columns with corbels on 3 sides in casting lane.

Hydraulic opening/closing system.

Hydraulic unit to control all movements.

Includes air vibration system (electric vibration system also possible as optional equipment).

Mechanical locks.

'T'-beam battery mould with 2 working lines, 26 m long and 400 t of pre-stress, and with a depth of 60 cm.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# INDUSTRIAL PRECAST PLANT

## PROY19-013 ROMANIA

## SUPPLY:

A universal casting bed with length of 62 m and width of 1 m.

Self-supporting mould with pre-stress capacity of 800 t.

Stressing jack and de-tensioning cylinders.

'I'-beam sides with length of 30 m and 800-1000-1200-1400 mm high.

'Delta' beam sides with length of 30 m.

'L/T' beam sides with length of 16 m.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SELF-REACTING MOULDS FOR BRIDGE GIRDERS

PROY19-006/PROY19-010/PROY19-011/PROY19-013/PROY19-016 ROMANIA

## SUPPLY:

Mobile system of equipment for the manufacture of prestressed beams for bridges on site.

Universal track, 125x1 m, with self-supporting prestressing system with a capacity of 1400 t.

Active and passive heads, with relaxation cylinders in the active head.

Hydraulic opening/closing movement of the sides, controlled from the hydraulic control unit.

Sides for bridge beams of L=125 m and adjustable height from 1.4 to 2 m, with pneumatic vibration and heating system.

Tensioning and de-tensioning equipment.

Walkway platform on both sides of the mould.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# COMPLETE FACTORY FOR ROAD AND BRIDGE CONSTRUCTION (I)

PROY19-006/PROY19-010/PROY19-011/PROY19-013/PROY19-016 ROMANIA

## SUPPLY:

A total of 4 self-reacting prestressing lines with 125 m length and up to 1400 t capacity.

Four mould lines for prestressed bridge girders of 125 m length, with opening/closing by hydraulic cylinders.

They have an adjustable height for girders up to 2.2 m height. And with a heating system by finned pipe circuit and insulating tarpaulin covers.

'Giraffe' concrete transport and distribution vehicle with diesel engine and up to 4 m³ hopper capacity.







Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# COMPLETE FACTORY FOR ROAD AND BRIDGE CONSTRUCTION (II)

PROY19-006/PROY19-010/PROY19-011/PROY19-013/PROY19-016 ROMANIA

## SUPPLY:

Self-reacting fixed table for prestressed bridge decks.

'MT20' system for 'DRYCAST' for box culverts, up to 10 culverts daily production.

Moulds for bridge parapets.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# STRESSING HEADS

## PROY19-004 SPAIN

## SUPPLY:

Prestressing abutments system 1250 t, with double passive anchor 2500 t. With hydraulically activated sleeves to block and unblock the slackening of cylinders.

Prestressing abutments system 400 t. With hydraulically activated sleeves to block and unblock the slackening of cylinders.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLES

## PROY19-001 CANADA

## SUPPLY:

The size of the tables, 34 x 4 m was designed specifically in order to optimize the factory lay-out and make production as efficient as possible. The tables feature lower and side height adjustable shutters which allows the client to produce insulated panels up to a thickness of 1 ft.

For an optimum compaction of the concrete the tables incorporate a pneumatic vibration system consisting of 21 vibrators located strategically against the under part of the casting surface.

The heating system is also located under the casting plate and consists of finned piped connected to a hot water boiler.

The supply is completed with a hydraulic unit from which one can control the tilting movement of both tables.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MANUFACTURE AND INSTALLATION OF DOUBLE BOOK MOULDS AND TILTING TABLES FOR SPECIAL PANELS

## PROY18-029 ISRAEL

## SUPPLY:

Four double book moulds for casting panels up to 28 cm (11 inches) consisting of natural stone, concrete layer, insulation material and concrete layer with smooth finish.

Three tilting tables 12 x 4.5 m (39.4 x 14.8 ft), with special formwork for protruding bars.

A fixed table for floor slabs.

Tailor-made manufactured frequency converter for total control of electric vibration.

'Lay-out' design and commissioning.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# COMPLETE PRECAST PLANT (I)

## PROY18-028 ROMANIA

## SUPPLY:

Hydraulic double column mould with 36 m length up to 80 x 80 cm section on each line.

With multi-corbel system for upper, bottom and lateral positions.

Hydraulic system for open-close operation.

Prestressing casting bed 120 m length, multi purpose for different types of pretressed elements.

Tilting table 24 x 4 m.

With electric vibration system.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# COMPLETE PRECAST PLANT (II)

## PROY18-028 ROMANIA

## SUPPLY:

Pretressing Abutments System 1000 t, for all types of pretressed girders.

Self-reacting mould for 'TT' elements, with hydraulic opening/closing of outer mould sides.

Height and thickness of the ribs can be regulated.

Self-reacting prestressing system up to 400 t.

Concrete transport and distribution vehicle 'Giraffe' 3 m³ hopper capacity.

360º rotation movement and 18º vertical inclination.

Diesel engine.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# EQUIPMENT FOR INDUSTRIAL PRODUCTION

## PROY18-025 SPAIN

## SUPPLY:

Concrete distributor 3 m³ capacity with oscillating screed. Double control platform, concrete distribution by 9 independently activated pneumatic gates. Sideways motion of hopper on crane system and portal crane structure with hydraulic sideway shifter for changes of tracks.

Transport wagon for finished panels, with up to 24 t capacity.

Self-reacting prestressing casting bed with 600 t capacity and 75 m length, with interchangeable baseplates.

Mould for 'T' beams with modular height adjustment 1-1.2 m.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLES

## PROY18-016 POLAND

## SUPPLY:

Three tilting tables 16 x 4 m.

Heating system with finned pipe circuit.

Vibration system with electric vibrators and frequency converter.

Concrete bucket with hydraulic discharge gate.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# HYDRAULIC TURNERS

## PROY18-001 SINGAPORE

## SUPPLY:

Six 180° hydraulic turning machines for precast elements up to 40 t (88,200 lbs) weight.

Designed to meet the minimum and maximum dimensions of the concrete modules.

Equipped with all visual and acoustic safety systems.

All movements are controlled by a hydraulic pump unit with a control board with all necessary safety switches.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR TT SLABS

## PROY17-053 ROMANIA

## SUPPLY:

- Self-stressing mould for 400 tons (882 kips) of prestress
- Hydraulic opening and closing
- Length of the mould 72m (236')
- Width of the mould 3.25m (128")
- Stem depth 950mm (37-2/5")
- Slackening cylinders with hydraulic unit for de-tensioning of the strands











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# HYDRAULIC MOULDS FOR 3D RESIDENTIAL MODULES - PPVC / PBU

## PROY17-046/PROY18-00/PROY18-011/007 SINGAPORE

## SUPPLY:

A total of 5 moulds for 3D volumetric precast concrete modules for residential construction.

Adjustable sizes up to 10 x 3.5 m dimensions.

Outer walls opened by hydraulic cylinders and inner core hydraulically shrinkable, commanded from hydraulic units with control board.

Heating system with air heaters and complete temperature control system.

Turning units 180º, adjustable to different sizes of modules.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SELF-SUPPORTING TILTING TABLES FOR PRESTRESSED PANELS AND SLABS MOULDS FOR 'T/L/R' BEAMS

PROY17-045 USA

## SUPPLY:

Self-stressing tilting tables.

Dimensions 3.96 x 60.96 m (13 ft x 200 ft).

Hydraulic operated longitudinal shutters.

Pre-stressing capacity up to 280 t (620 kips).

Hydraulic open-close operation.

Total length 73.15 m (240 ft).

Capacity 640 t (1410 kips).











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLES AND SHUTTERING FORMWORKS

## PROY17-039 PHILIPPINES

## SUPPLY:

Two tilting tables with dimensions of 11.8 x 4 m (38.8 x 13.14 ft) for manufacturing façade panels.

Lower shuttering band with height adjustment.

Magnetic shuttering formworks.

Magnetic frame system for plywood shuttering.









Precast Concrete Equipment

Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# ‘MT20’ DRY CAST BOX CULVERT EQUIPMENT

## PROY17-036 INDIA

## SUPPLY:

‘MT20’ mould for making dry cast box culverts with capacity for 11 different sizes ranging from1.8 m (5.9 ft) span x 1.5 m (4.9 ft) rise up to 3 m (9.8 ft) span x 3 m (9.8 ft) rise.

All with a length of 2 m (9.8ft).

Productivity of 25 culverts in 2 work shifts.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# CONCRETE SKIPS AND TURNER FOR BOX CULVERTS

## PROY17-030 USA

## SUPPLY:

Two pouring buckets with electric vibrator and a motorized ruler, controlled by remote control.

Turning device with capacity up to 30 t (66,100 lbs) for safely turning box culverts 90º.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# COMPLETE INFRASTRUCTURE PLANT I

## PROY17-026 COLOMBIA

## SUPPLY:

Two 'I' beam moulds of 45 m (146.7 ft) length and height of 2.20 m (7.26 ft).









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# COMPLETE INFRASTRUCTURE PLANT II

## PROY17-026 COLOMBIA

## SUPPLY:

Two complete beds with stressing heads of 1000 t (2,204 KIPS).

Fixed table for preslabs of 70 m (230 ft).

Fixed table for the production of retaining walls of 15 x 2.5 m (49.2 x 8.2 ft).

Two "Giraffe" units for transport and pouring of the concrete.

'MT20' equipment for the production of dry cast box culverts of sizes 1 x 1 up to 3 x 4 m (9.1 x 13.1 ft).











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# CARROUSEL LINE FOR HOLLOW CORE COLUMNS (I)

## PROY17-025/048 INDIA

## SUPPLY:

Carrousel for the production of 250 hollow core columns per day.

Columns of length from 2.6 to 3.6 m (8.6 x 12 ft) and width between 25 and 90 cm (0.98 x 2.12 ft) (1 to 3 cores).

Totally automated line consisting of 56 pallets including hydraulic system for the positioning of side shuttering and inserting and extraction of the cores.

The line features double station for pouring, vibrating and screeding.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# CARROUSEL LINE FOR HOLLOW CORE COLUMNS (II)

## PROY17-025/048 INDIA

## SUPPLY:

Carrousel for the production of 250 hollow core columns per day.

Columns of length from 2.6 to 3.6 m (8.6 x 12 ft) and width between 25 and 90 cm (0.98 x 2.12 ft) (1 to 3 cores).

Totally automated line consisting of 56 pallets including hydraulic system for the positioning of side shuttering and inserting and extraction of the cores.

The line features double station for pouring, vibrating and screeding.







Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# PLANT FOR THE PRODUCTION OF PRECAST POWER TRANSFORMATION STATIONS

## PROY17-022 MOROCCO

## SUPPLY:

Turn-key project.

Four tilting tables for the production of the wall panels.

Table for the production of the roof slab.

Book type table for the production of the floor slab.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# COMPLETE FACTORY FOR THE PRODUCTION OF (PRE-STRESSED) CONCRETE ELEMENTS FOR INDUSTRIAL AND COMERCIAL BUILDINGS AND BRIDGES

PROY17-019 HONDURAS

## SUPPLY:

Universal casting beds and mould sides for the production of "ASSHTO type I beams with stressing heads of 600 t (1322 KIPS).

Double column moulds.

Moulds of main beams of 16 m (5.2 ft).

Self-stressing 'double T' mould of 36 m (118 ft) long and width 2.4 m (7.9 ft).

Analysis of the production process and design of factory 'lay-out'.












Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE

## PROY17-015 SPAIN

## SUPPLY:

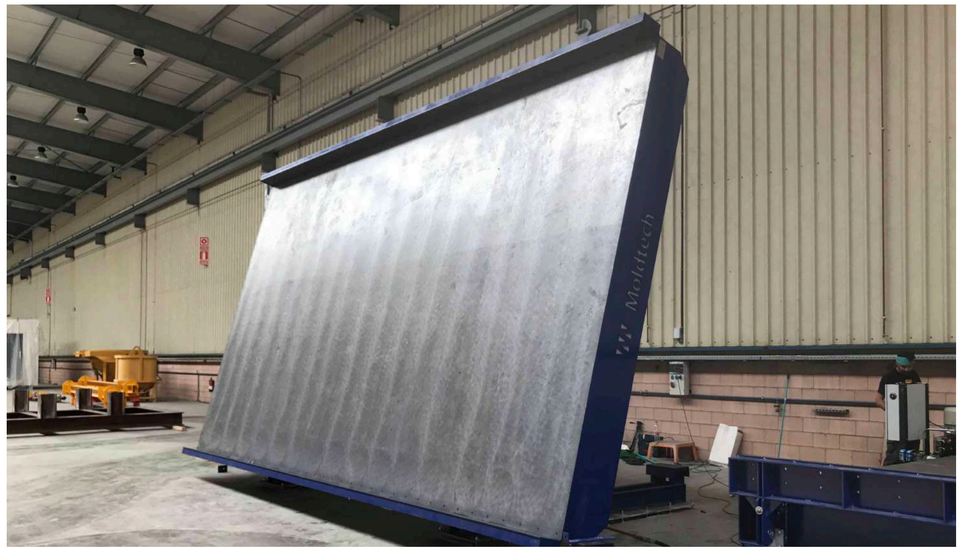
TILTING TABLES are designed for the production of precast concrete panels for residential, commercial and industrial constructions.

Moldtech's tilting tables are designed to produce precast concrete panels in various thicknesses for residential, commercial and industrial constructions. Their tilting mechanism allows panels to be easily removed in the vertical position with less concrete hardening time.

This tilting mechanism consists of a set of telescopic hydraulic cylinders and their number and load capacity will depend on the size and load capacity of the table. The cylinders are activated by means of a hydraulic power pack with an electrical control panel that can control one or more tables, depending on the project.

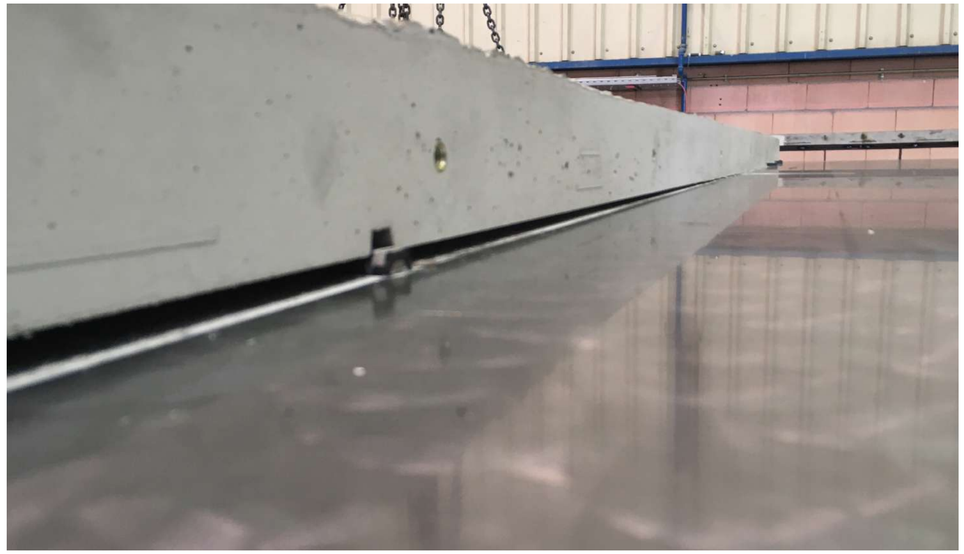
The tilting tables can incorporate one or more side belts depending on the type of panels to be moulded.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SELF-REACTING SYSTEM FOR BRIDGE GIRDERS PRODUCTION

## PROY17-019

## SUPPLY:

Self-supporting steel structure with a capacity of 800 t (1,760 KIPS) of pre-stress, and a length of 70 m (230 ft).

25 m (82 ft) modular mould for the production of 'I' girder.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOLD FOR WET CAST CONCRETE

## PROY17-006 ECUADOR





## SUPPLY:

Modular formwork is a system designed for the manufacture of concrete frames.

It basically consists of a flat base for fixing the interior and exterior vertical panels, which together with the base form a hollow or free space with the required shape and which is filled with concrete.





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

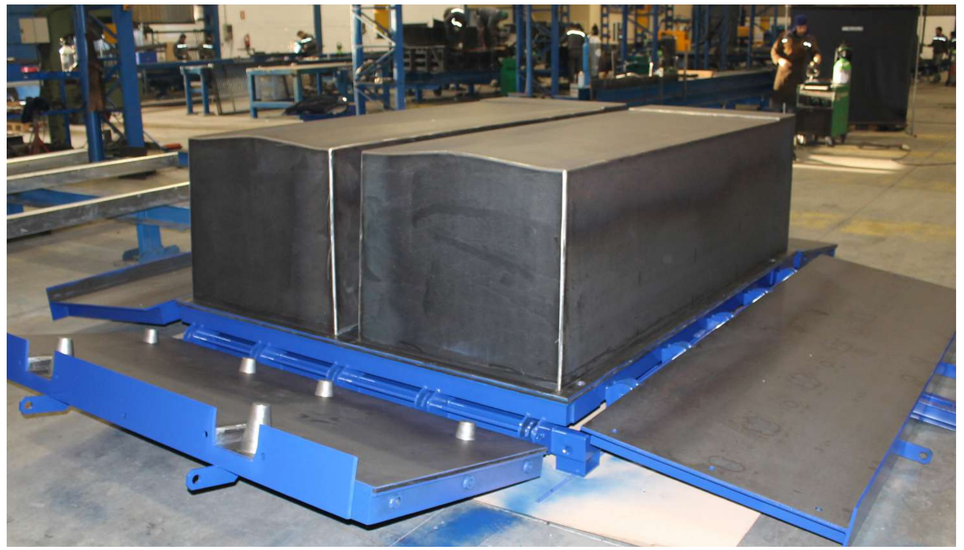
# DOUBLE MOULD FOR NICHES

PROY17-005 SPAIN

## SUPPLY:

This is a double mould for the production of niches, consisting of an upper bridge, two hinged sides, rear and front doors, nine supports, six hydraulic cylinders that eject the manufactured piece upwards to aid demoulding and a pneumatic vibrator.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# CARROUSEL LINE FOR WALLS

## PROY17-004 ARGENTINA



## SUPPLY:

Automatic machines for filling and cleaning of tables and final product storage.

Tilting table of 42 x 3 m (137.7 x 9.8 ft).










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE FOR CLOSURE PANELS

## PROY17-001 NORWAY

## SUPPLY:

Tilting table of 16 x 4.5 m (52.4 x 14.7 ft) with automatic vibration and heating.

Set of frames with magnetic fixation for wood formwork.












Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 3D MOULDS FOR PRECAST BATHROOMS

## PROY16-040 SINGAPORE

## SUPPLY:

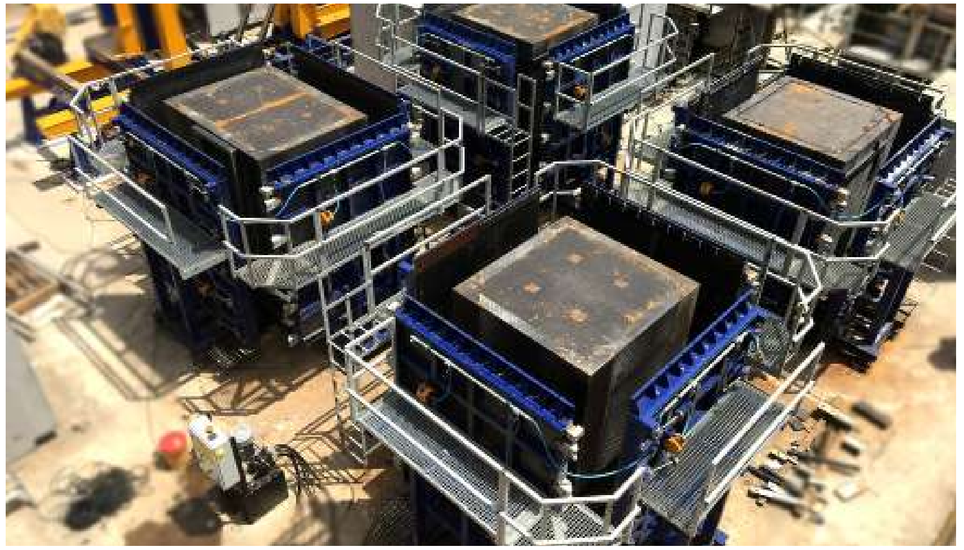
Four hydraulic moulds for the production of 3D prefabricated bathroom units of sizes 1.75 x 1.85 m (5.7 x 6 ft) inner dimensions and 2.3 m (7.5 ft) in height.

Two turning devices to turn the elements 180º with total capacity of 40 t (80,200 lbs).









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# SIDES AND MOULDING FRAME FOR PRE-STRESSED 'OMEGA' BEAM

## PROY16-038 SPAIN

## SUPPLY:

Two sides of 66 m (216.5 ft) length with adjustable height from 385 to 900 mm (15 inches to 35 inches).

Moulding frame of 66 m (216 ft) length.

Supporting bridges for moulding frame.

Stressing heads.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR 'TT' SLABS

## PROY16-037 CANADA

## SUPPLY:

- Self-stressing mould for 450 tons (992 kips) of prestress
- Length of the mould: 134m (440')
- Width of the mould 4270mm (14')
- Stem depth 500mm (20")

Slackening cylinders with hydraulic unit for de-tensioning of the strands

- Air vibration system
- Heating system consisting of hot water pipes and tarpaulin cover










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# FACTORY FOR PRE-STRESSED ELEMENTS

## PROY16-031 MALTA





## SUPPLY:

Casting bed of 65 m (213 ft) in length and 1.2 m (3.9 ft) in width.

Tensioning heads for 600 t (1322.7 KIPS) with self-stressing structure of 65 m (213 ft) in length.

Mould sides for casting of 'Y' girder of 1 m in height and 32 m (105 ft) in length.

Mould sides for casting of 'TL' girder of 1 m (3.2 ft) in height and 21.5 m (70.5 ft) in length.

Mould sides for casting of 'H' girder of 1 m (3.2 ft) in height and 21.5 m (70.5 ft) in length, with or without side corbels.

Versatile column mould of 25 m (82 ft) in length. Hydraulic opening and closing of the mould.

Hydraulic adjusting of the column section, from 0.5 x 0.4 m (1.64 x 1.3 ft) up to 0.9 x 0.7 m (2.95 x 2.3 ft).

Three sets of corbels on four sides.






Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

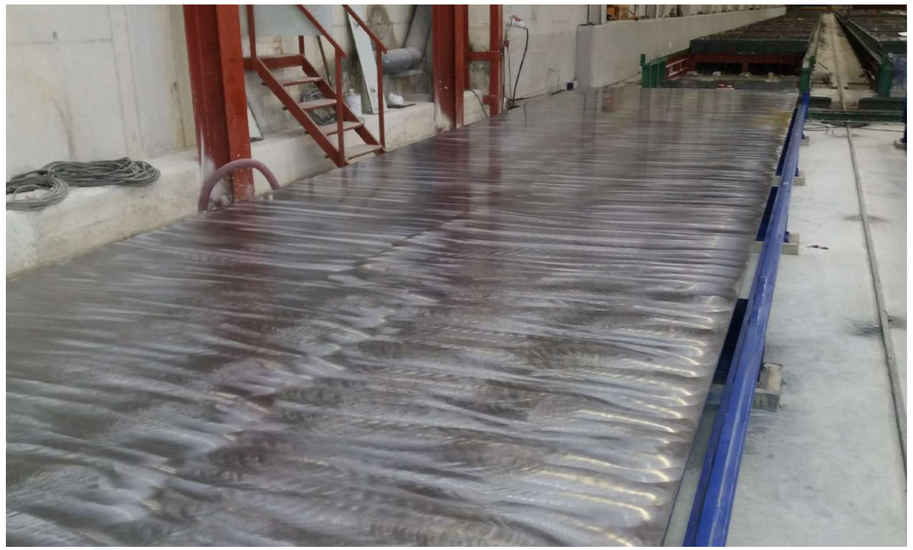
## SUPPLY:

Tilting tables are designed for the production of precast concrete panels for residential, commercial and industrial buildings. . Their tilting mechanism allows the panels to be easily removed in the vertical position with less concrete hardening time.

The tilting tables can incorporate one or more side strips depending on the type of panels to be moulded.

# TILTING TABLE

## PROY16-026 SWEDEN









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# FIXED TABLE

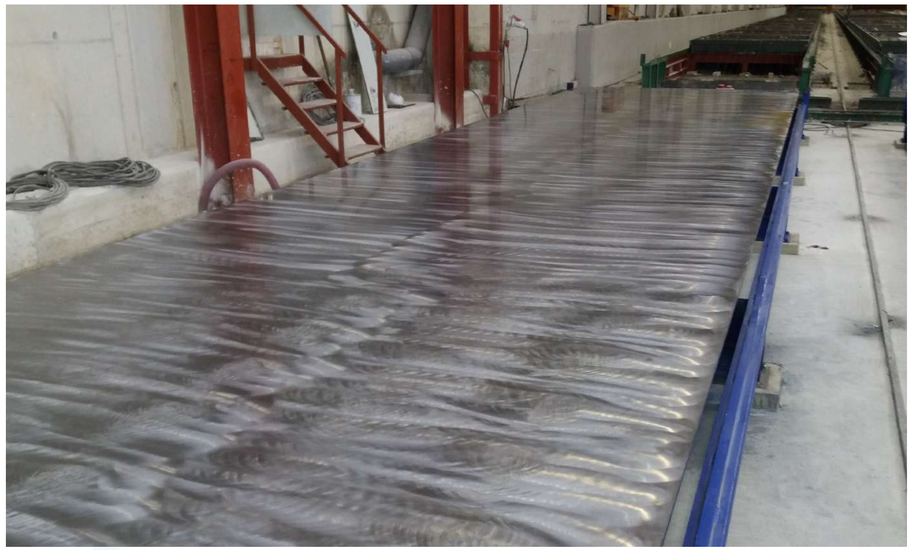
## PROY16-019 SPAIN

## SUPPLY:

Fixed tables are designed for the production of concrete panels.

Wall panels are normally produced on tilting tables as these tables allow the panels to be removed vertically and therefore earlier. However, when the project requires reducing the amount of investment or when wall panels are only produced in limited quantities, less expensive fixed tables can alternatively be used for the production of wall panels.

The width of the table must take into account the maximum height of the panel. The table usually includes 2 collapsible longitudinal strips to allow easy removal of the panel. The dimensions of the prefabricated panel can be adjusted with the help of different formwork systems. The table is manufactured in modules with a length of 11.8 metres which are welded together by Moldtech installers during the commissioning period to obtain the required length.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MODULAR MOLDS

## PROY16-015 CHAD

## SUPPLY:

The modular mould for dormant concrete frames is designed for the production of precast dormant concrete frames and half-frames.

It is a modular steel formwork system designed for the production of precast frames and half-frames using dormant concrete. Depending on the formwork set supplied, it is possible to reach up to 7m in width (distance between frame columns).

The TRAPEZOIDAL MOLDS consists of: Leg anchor, which anchors the seat of the mould to the floor or surface where it is to be installed; Core, the structure that serves as the base for the mould and which forms the inside of the troughs; Sides, side parts that contain the concrete in the transverse direction of the mould; Spacers, to be able to manufacture separate pieces; Closing points of the sides; and Electric vibrators.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE

## PROY16-011 SWEDEN

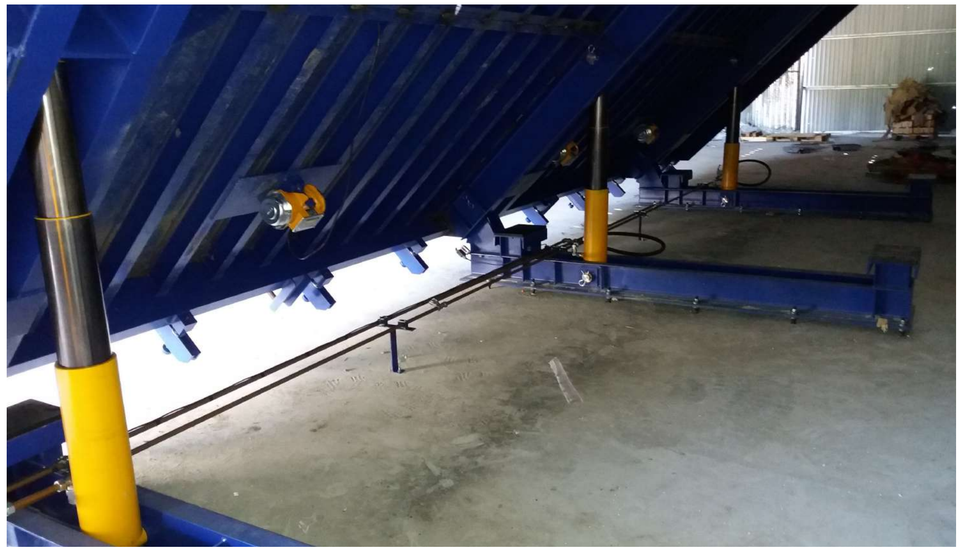
## SUPPLY:

TILTING TABLE 11,8X4 METRES

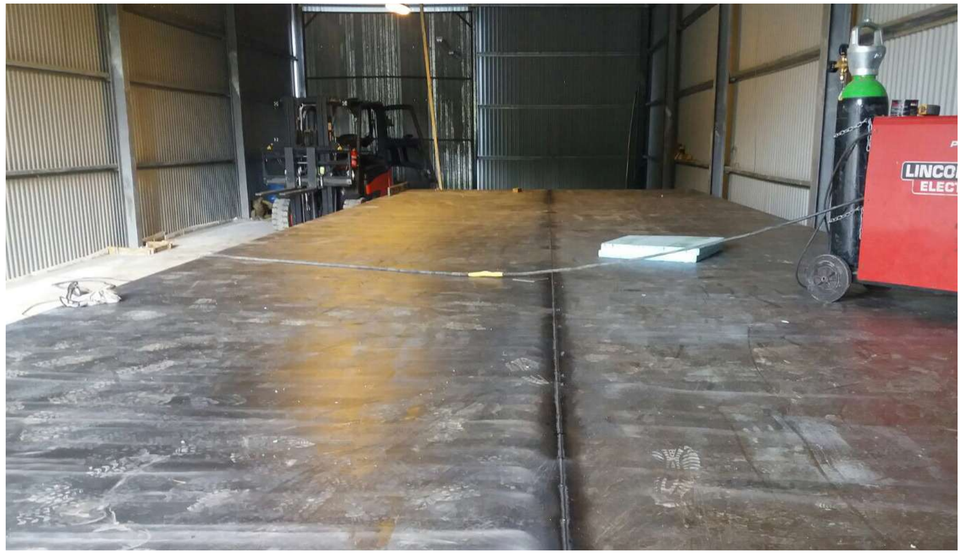
Moldtech's tilting tables are designed to produce precast concrete panels in various thicknesses for residential, commercial and industrial construction. Their tilting mechanism allows panels to be easily removed in the vertical position with less concrete hardening time.

The tilting tables can incorporate one or more side strips depending on the type of panels to be moulded.





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# ARCHITECTURAL PANELS IN VERTICAL BATTERY MOULD

## PROY16-009 PORTUGAL

## SUPPLY:

Vertical battery mould with two casting cells, for the production of architectural panels max 12 x 2.5 m (39.3 x 8.2 ft).










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# DELTA BEAMS + I-BEAM + TILTING TABLE + CONCRETE SKIP

## PROY16-002 PORTUGAL






## SUPPLY:

The Delta Beam Sides are used for mounting on a single fixed bottom type universal track, thus forming a formwork or mould with the desired part shapes on which the 'fresh' concrete is poured until the required level of screed is reached.

The I-Beam moulds are a set of side moulds to be assembled on a universal track with a correspondingly shaped base.

Tilting table for the production of 50x2,5m panels. The tilting table is designed for the production of precast concrete panels for residential, commercial and industrial buildings.

Autonomous bucket for pouring concrete (2m3).





Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# UNIVERSAL CASTING BED SYSTEMS

## PROY16-002 PORTUGAL

## SUPPLY:

The Universal casting bed systems consists of a plate fixed on a supporting and stiffening structure. stiffening structure. This plate serves as a forming surface and as a bottom closure or base for the formwork.

The PRETENSING HEADSET is intended exclusively for use with the contractually agreed materials, steel cables.

The 15m fixed mould for the production of H-40x40 gutter, also known as Gutter Mould.










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TRAPEZOIDAL MOLDS DOUBLE U

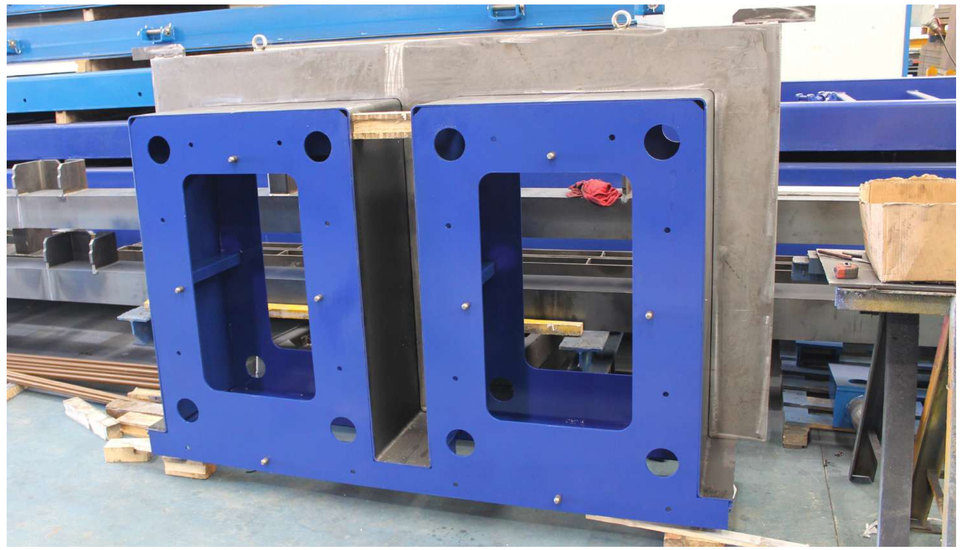
## PROY15-014 OMAN

## SUPPLY:

The TRAPEZOIDAL MOLDS DOUBLE U is intended exclusively for use with the contractually agreed materials, concrete.

This mould is composed of: Leg anchor, which anchors the seat of the mould to the floor or surface where it is to be installed; Core, the structure that serves as a base for the mould and which moulds the inner part of the channels; Sides, lateral parts that contain the concrete in the transversal direction of the mould; Spacers, to be able to manufacture separate pieces; Closing points of the sides; and Electric Vibrators.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TILTING TABLE

## PROY15-009/010 ARGENTINA

## SUPPLY:

Moldtech's tilting tables are designed to produce precast concrete panels in various thicknesses for residential, commercial and industrial construction. Their tilting mechanism allows panels to be easily removed in the vertical position with less concrete hardening time.

The tilting tables can incorporate one or more side strips depending on the type of panels to be cast.

The aligner is composed of a driving frame, which provides the mechanical fastening; a motorised hopper, the container where the concrete is introduced; augers; a concrete gate, which closes with the hopper and prevents the concrete from coming out; a cleaning gate; an automatic winder; an oscillating screed; a screed for vibrators; a hydraulic power unit; limit switches, which are electro-mechanical sensors; position sensors; and service stairs and walkway.











Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# EQUIPMENT FOR INDUSTRIAL PRECAST PLANT

## PROY15-008 LIBYA





## SUPPLY:

Two moulds for 'I' beams 60/81/101 cm (24/32/40 inches) and 25 m (32.8 ft) length.

Mould for 'TI / TL' beams (h) 119 cm (47 inches), 25 m (82 ft) length.

Double column mould 40/51 x 40/51/61 cm (16/20 x 16/20/24 inches), 35.4 m (115 ft) length.

Self-supporting mould for 'TT' slabs 60 m (196 ft) length.

Two tilting tables of 35.4 x 3.5 m (117 x 11.4 ft) and 47.2 x 2.5 m (156 x 8.2 ft).

Fixed battery mould 11 m (36 ft) for 8 beams 'T-35'.






Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# COMPLETE FACTORY FOR INDUSTRIAL BUILDINGS (II)

## PROY15-008 LIBYA

## SUPPLY:

Two moulds for 'I' beams 60/81/101 cm (24/32/40 inches) and 25 m (32.8 ft) length.

Mould for 'TI/TL' beams (h) 119 cm (47 inches), 25 m (82 ft) length.

Double column mould 40/51 x 40/51/61 cm (16/20 x 16/20/24 inches), 35.4 m (115 ft) length.

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Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# PRISON CELLS (I)

## PROY15-007 URUGUAY





## SUPPLY:

Custom-made moulds for prison cells up to 11.6 x 6 m (38 ft x 20 ft).

Four cells.

Weight of casted element up to 60 MT (132,200 lbs).





Precast Concrete Equipment

Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# PRISON CELLS (II)

## PROY15-007 URUGUAY





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Four cells.

Weight of casted element up to 60 MT (132,200 lbs).





Precast Concrete Equipment

Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR PRESTRESSED 'TT' SLAB

## PROY15-004 INDIA

## SUPPLY:

- Self-stressing mould for 500 tons (1100 kips) of prestress
- Length of the mould: 457m (148')
- Width of the mould 3600mm (142")
- Stem depth 450mm (18")
- Slackening cylinders with hydraulic unit for de-tensioning of the strands
- Air vibration system
- Heating system consisting of hot water pipes and tarpaulin cover










Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

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Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# 2000 METRES HYDRAULIC BEAM MOULDS INSTALATION FOR THE PRODUCTION OF BEAMS FOR RESIDENTIAL PROJECTS

PROY15-004 INDIA

## SUPPLY:

Production capacity: 30,000 apartments in 2 years.

Design of factory 'lay-out'.

Custom made design of moulds and accessories (notch boxes and corbels).

Modular mould for elevator-shaft.

Planning of logistics process: design, production, transport, commissioning in 5 months.

On site production plant.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# TURN-KEY PROJECT FOR PRECAST PLANT FOR THE CONSTRUCTION OF 3000 RESIDENTIAL HOUSING UNITS

## PROY15-002 VENEZUELA

## SUPPLY:

Factory capacity: yearly output of 3,000 housing units of 60 sqm (645 sqft) average size.

Equipment supplied:

Twenty-one tilting tables for wall panels of 15.5 x 3 m (50.9 x 9.8 ft).

Three fixed tables 60 x 2.25 m (197 x 7.4 ft) for floor slabs, staircase moulds, equipment for lifting, transportation and storage of finished panels, and compressed air circuit.

Factory lay out design, productivity and feasibility calculations.

Commissioning, test production and training of local staff.









Moldtech

INDEX:

1. Definition of our business
2. Services
3. Key figures
4. Featured projects
5. Location and contact

# MOULD FOR TT SLABS

## PROY14 HONDURAS

## SUPPLY:

- Self-stressing mould for 300 tons (660 kips) of prestress
- Length of the mould: 36m (118')
- Width of the mould 2400mm (94")
- Stem depth 450mm (18")
- Slackening cylinders with hydraulic unit for de-tensioning of the strands
- Mechanical adjustment for top slab
- Air vibration system









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# Thank you

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