

Moldtech

EQUIPMENT FOR PRECAST CONCRETE PLANTS

ELEMENTS FOR
ROADS AND BRIDGES



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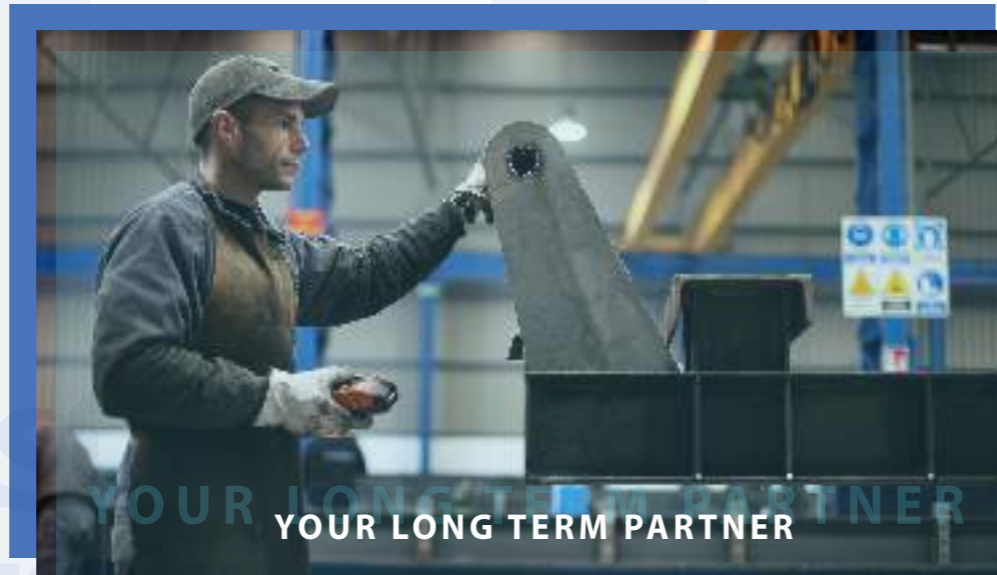
ELEMENTS FOR ROAD AND BRIDGES



ROAD AND BRIDGE CONSTRUCTION

Moldtech offers a wide variety of molds to manufacture prefabricated elements for roads and bridges adapted to international standards.

Moldtech, as an expert supplier of precast concrete equipment, will be your best long-term partner. Below we explain what elements you need to carry out this type of civil engineering and the equipment we offer to produce them, guaranteeing maximum quality and safety throughout the production process.





ROAD AND BRIDGE CONSTRUCTION SELF-SUPPORTING MOLD FOR PRESTRESSED BEAMS



Self-supporting system in which the stresses generated by the prestressing of the cables are reacted by the mold structure itself in order to simplify the civil works required for the installation.

This system has a number of advantages that make it ideal for the production of beams in temporary locations on site or where a dedicated foundation is not possible. Our customers use this system to set up ephemeral factories dedicated to specific construction sites in remote locations, drastically reducing transportation costs. Moldtech has experience supplying equipment up to 125m and 1500 Ton, but there is no theoretical limit in length or capacity.



Mold for prestressed beams:
Several parts per day depending on the configuration of the mold





ROAD AND BRIDGE CONSTRUCTION

PISTA CON CABEZAL DE CIMENTACIÓN PARA VIGAS PRETENSADAS

Los cabezales de tensado de Moldtech son diseñados, calculados y contruídos según las secciones de viga a producir y con diferentes capacidades de pretensado.

Los cabezales de pretensado incluyen diferentes sistemas de seguridad tanto para las cuñas de anclaje de los cables como para proteger al operador. El cabezal activo incluye un conjunto de cilindros hidráulicos para efectuar un destensado controlado de la pista.

La instalación de cabezales de tensado autónomos tiene importantes ventajas en instalaciones definitivas, permitiendo disposiciones más diáfnas al no ser necesaria la estructura autoportante.



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PISTA PARA VIGAS POSTENSADAS

En el diseño de moldes para vigas postensadas se incluyen ciertas particularidades de este tipo de productos que incluyen entre otras las cajas de encofrado para cabezas de tesado.



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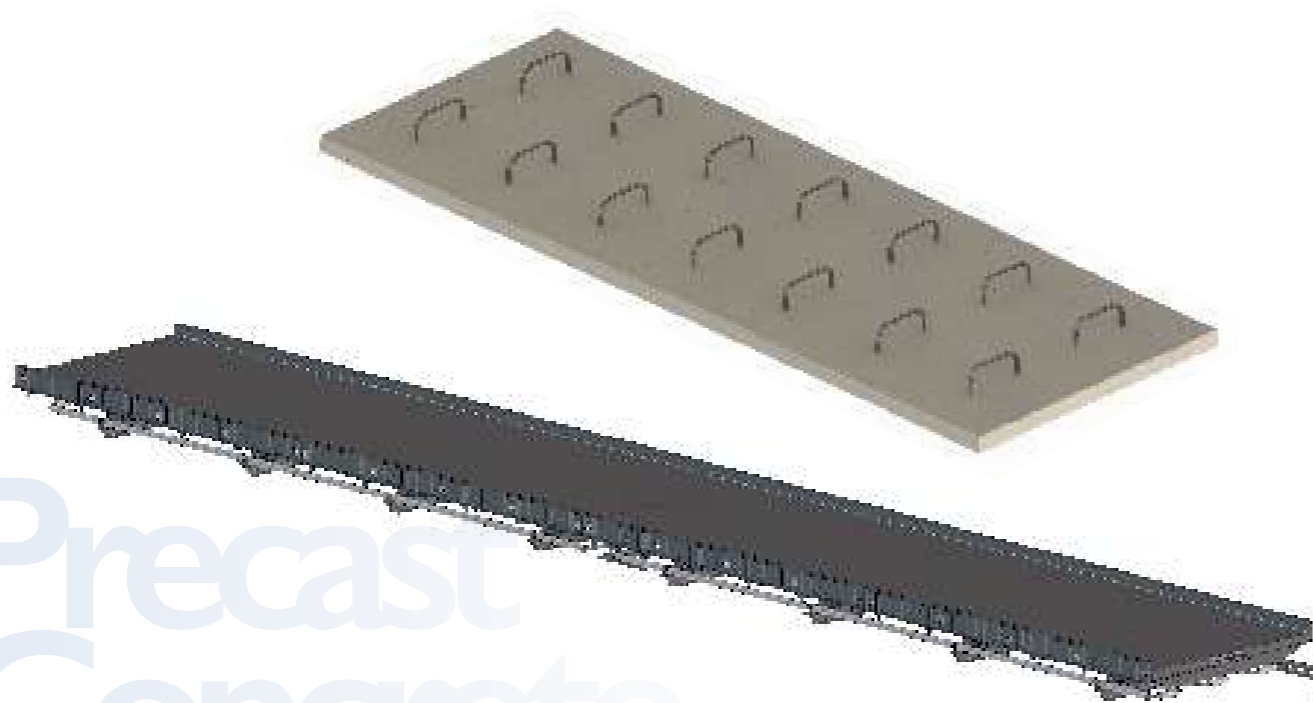
FIXED TABLES FOR BRIDGE SLABS

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Reinforced pre-slabs with short spans are typically used as lost formwork between bridge girders, for viaduct construction.

Moldtech manufactures and supplies fixed tables with or without prestressing capacity to enable precasters to deal with all types of precast slab based projects.

The fixed tables can be supplied with different side band designs that allow height adjustment, precast slab width adjustment or even edge geometry adjustment. In general the forming dimensions can be adjusted by using different formwork options.



Fixed table for pre-slabs:
Several pieces per day depending on the table configuration.

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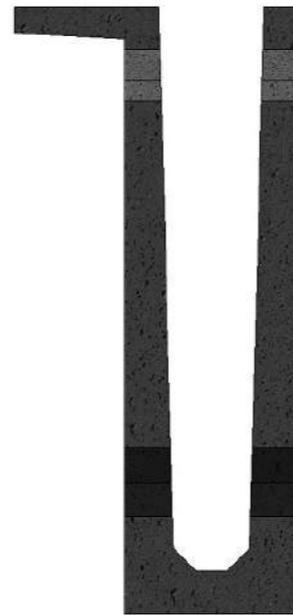
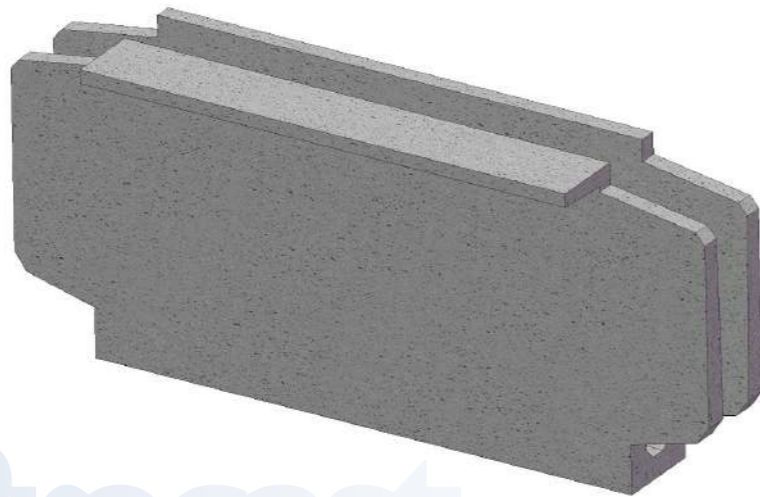
DIAPHRAGM MOLDS

BRIDGE DIAPHRAGMS

Diaphragms are structural elements that are arranged in bridge decks, internally, in box sections or transversely between beams.

They serve to transmit loads from the slab to the main girders and stiffen the system against lateral loads.

Moldtech supplies modular molds for the production of diaphragms that allow adjusting their dimensions to cover families of beams with different sizes.



Mold for Diaphragms:
One piece per day.





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MOLDS FOR BRIDGE PARAPETS

Parapets are rigid safety devices that are placed longitudinally at the lateral ends of bridges and similar structures, mainly for the protection of users.

The molds produced by Moldtech are designed to produce different geometries and incorporate the necessary registers to allow the passage of connecting armatures and other elements such as threaded inserts for the installation of accessories.



Mold for Parapets:
Several parts per day depending on mold configuration.





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NEWJERSEY BARRIER MOLDS

Moldtech designs and manufactures molds for any type of concrete barriers and parapets. The molds are custom made and can be designed to comply with any legislation or safety standard of each country.



**Mold for New Jersey Barriers:
From 2 pieces per day, depending on configuration.**





ROAD AND BRIDGE CONSTRUCTION TILTING TABLES FOR ACOUSTIC SCREENS

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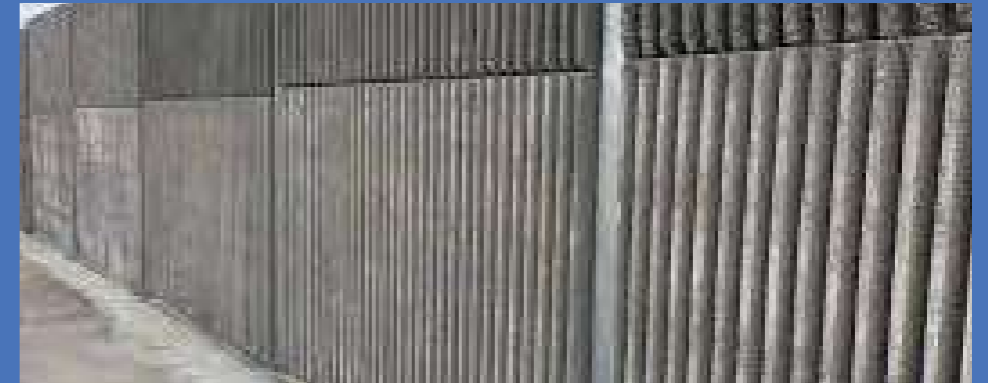
Anti-noise concrete screens.

They are highly resistant to vehicle impact, frost or fire. Thanks to a soundproof panel they are able to mitigate noise.

Our tables are designed to produce precast concrete panels in various thicknesses. They can incorporate one or more side strips depending on the type of panels to be formed.



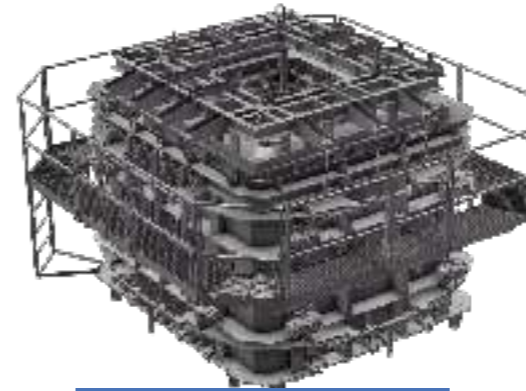
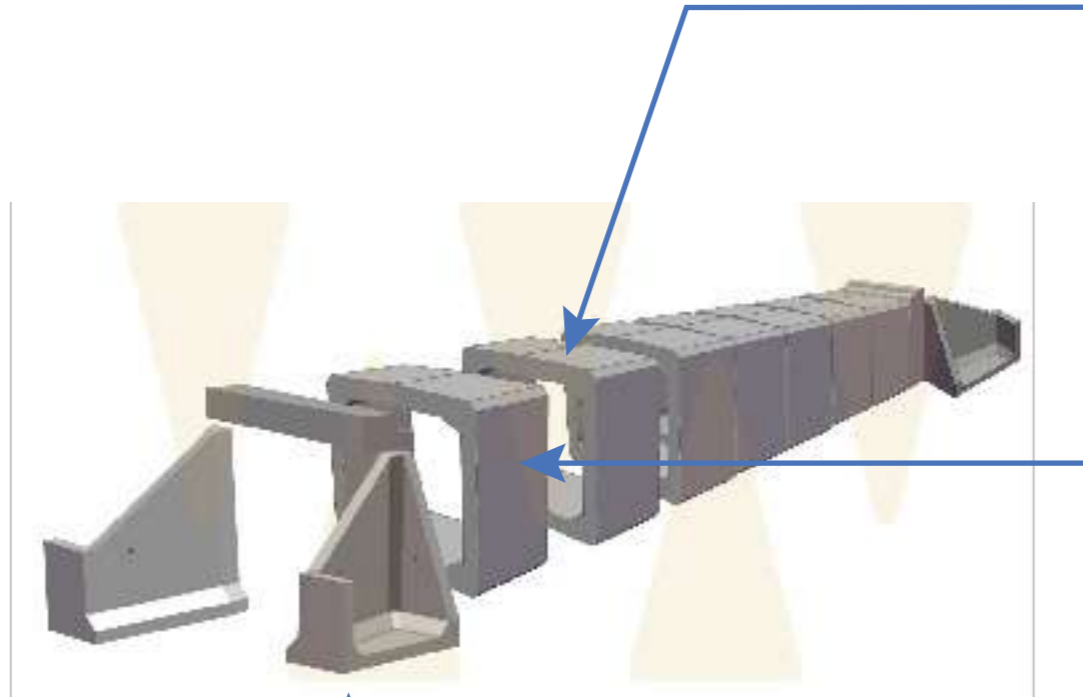
Mold for noise barriers:
Several parts per day depending on mold configuration.





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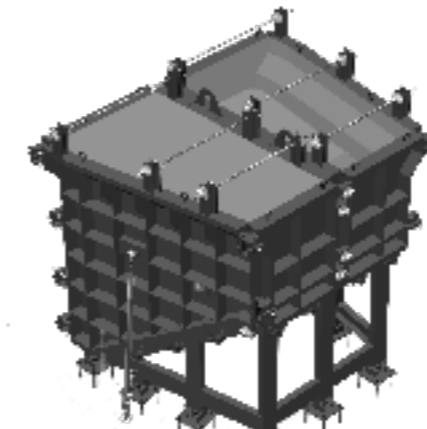
ROAD UNDERPASSES



MT-20 - Dry cast:
Up to 10 pieces per day.



Modular Mold - Wet cast:
Up to 2 pieces per day.



Bridge wings for reinforced concrete: Up to 2 pieces per day.

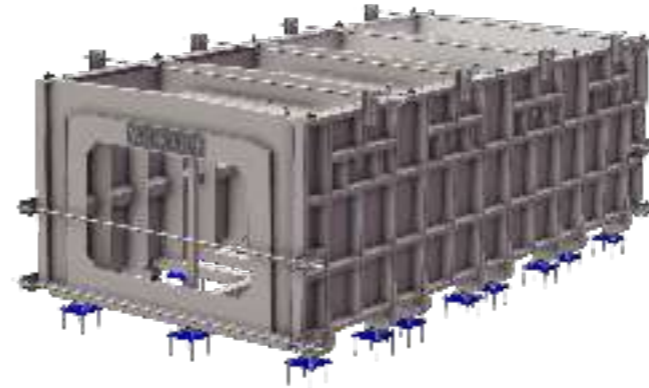
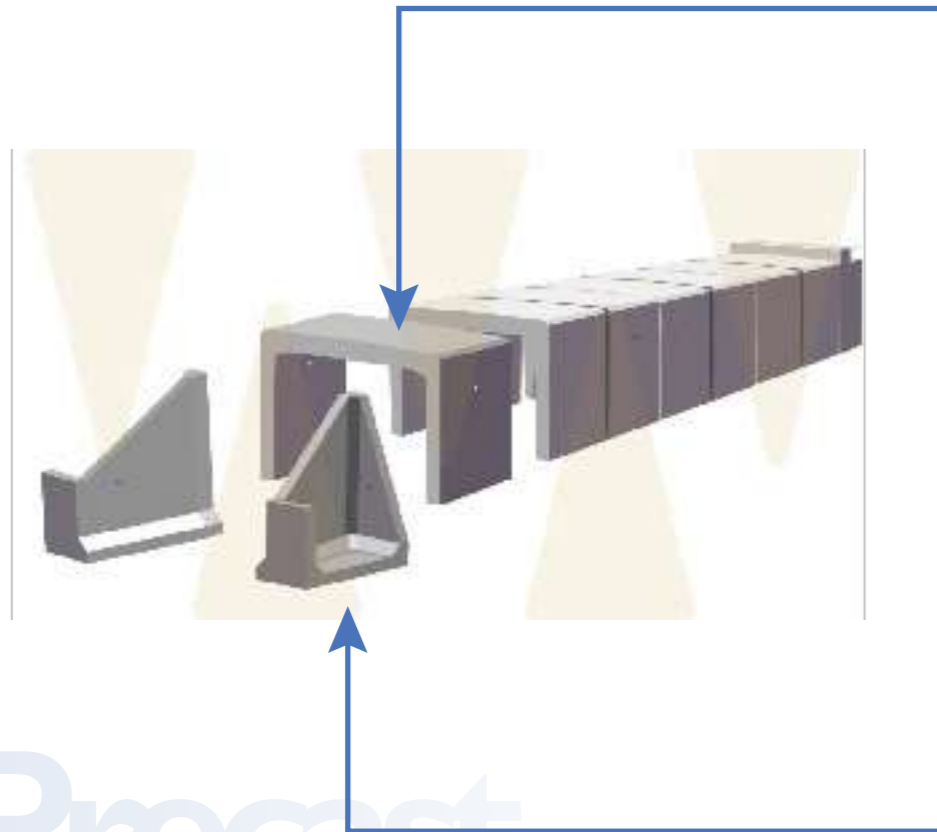


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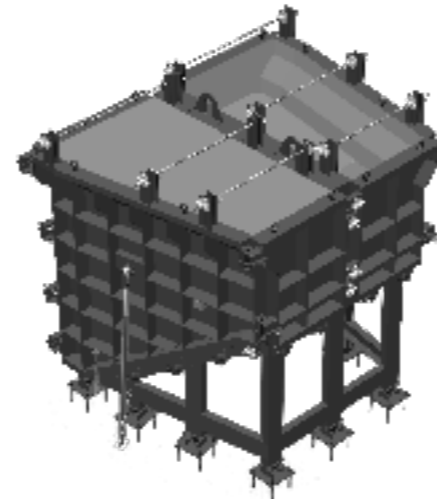


ROAD AND BRIDGE CONSTRUCTION

ROAD UNDERPASSES



U-shaped precast concrete elements for roads and bridges (P2)
Several parts per day in battery mold configuration.



Bridge wings for reinforced concrete: Up to 2 pieces per day.

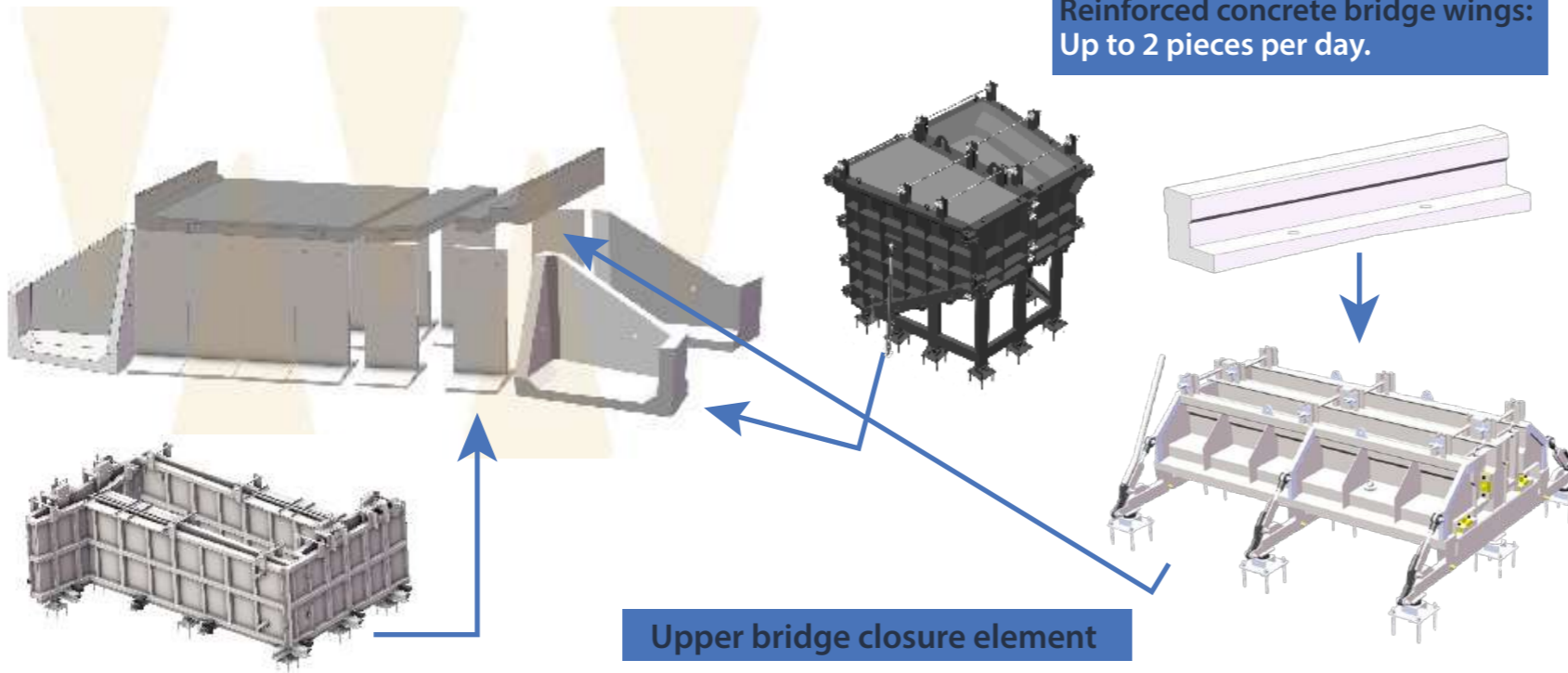
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ROAD AND BRIDGE CONSTRUCTION

ROAD UNDERPASSES



T-shaped precast concrete elements for roads and bridges (L0, L1, 2, L3)
Up to 2 pieces per day.



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ROAD AND BRIDGE CONSTRUCTION

ADVANTAGES OF PREFABRICATION IN TERMS OF COST AND EXECUTION TIME:

- *Minimum execution time, reduction of auxiliary tasks and labor.
- *Safety in its construction and use.
- *Maximum durability compared to other construction options.
- *Maximum resistance, even in adverse situations, for example, in fires.
- *Excellent cost/benefit ratio.
- *Controlled quality: The quality of the product is guaranteed by the manufacturing company, independent of the execution.
- *Versatility and design: Precast concrete products can be adapted to any technical or design need and are highly competitive in serial products.
- *Sustainability: The use of precast concrete means having optimal control of environmental, social and economic impacts both during construction and during subsequent use and management.





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Consult our
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