Concrete Elements
Applications

NORDIMPIANTI's casting machines can produce a large range of prestressed concrete products such as hollow core slabs for flooring and walls, inverted T and I-beams, vineyard posts and lintels, prestressed slabs, U slabs, inverted double T slabs etc.

Prestressed products made by NORDIMPIANTI's Extruder, Slipformer and Wet Casting machines offer many advantages that make them a success all over the world.

Despite the low water/cement ratios making the concrete very hard to work, NORDIMPIANTI's machines have no difficulty in consistently forming complex element profiles, ready to be lifted from the production bed within 6-8 hours after casting.

The extruder and slipformer machines enable the user to cast elements with or without prestressing cables but obviously with prestressing comes the cost and ease of use advantages demanded by the civil and industrial construction sector.

Prestressing gives high quality elements with smaller cross sections with a more efficient use of materials.

Smaller cross sections mean lighter slabs reducing the cost of transport and allowing easy handling both on-site and in the production plant.

Concrete Elements

• The possibility to use them in many areas of construction such as residential, commercial, industrial, infrastructure and agricultural sectors;
• Large production volumes with uniform cross sections even with different reinforcement cable configurations;
• The ability to use prestressing cables in single wire, strands or 2/3 wires in high tensile steel;
• Assured quality by using equipment specifically designed to produce high quality concrete elements;
• Low unit labour costs due to the efficient use of engineering design to automate as much of the machine as possible;
• There is no need to use expensive formworks;
• Production flexibility. The ability to change the height of the concrete elements within certain limits by changing only some parts on the forming insert;
• Excellent surface finish;
• Product quality assured by consistent homogeneous concrete;
• The produced elements have high load resistances thanks to a low water/cement ratio of concrete from 0.32 to 0.38. Higher water/cement ratios cannot be employed for the production of desired cross sections without the use of expensive formworks;
• Elements produced by NORDIMPIANTI's casting machines have a high resistance to carbonation due to the low cement/water ratio and the high compaction level giving the finished slab high impermeability combined with high mechanical resistance.
CONCRETE ELEMENTS

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Concrete Elements
Quality at its Best

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CROSS SECTIONS AND DIMENSIONS OF THE PRESTRESSED CONCRETE ELEMENTS CAN BE ADAPTED TO CUSTOMER REQUIREMENTS.
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INVERTED T-BEAMS (Special Shape)

HOLLOW CORE SLABS

HOLLOW CORE SLABS

HOLLOW CORE SLABS

HOLLOW CORE WALL PANELS

INVERTED TRIPLE T SLABS

U PANELS

INVERTED DOUBLE T SLABS

INVERTED DOUBLE T BEAMS

SOLID SLABS

GRANDSTAND PANELS
INVERTED T-BEAMS
INVERTED I-BEAMS
HOLLOW CORE SLABS
HOLLOW CORE WALL PANELS
INVERTED TRIPLE T SLABS
U PANELS
INVERTED DOUBLE T SLABS
INVERTED DOUBLE T BEAMS

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Cross sections and dimensions of the prestressed concrete elements can be adapted to customer requirements.

- INVERTED T-BEAMS
- INVERTED I-BEAMS
- HOLLOW CORE SLABS
- HALF SLABS
- INVERTED DOUBLE T BEAMS
- U PANELS
- INVERTED DOUBLE T SLABS
- INVERTED TRIPLE T SLABS
Concrete Elements

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