



## Wet Casting *wf* Machines

Products

# WET CASTING *wf* MACHINE

## PRODUCTS



The new generation of series **wf** Wet Casting machines represent the state of the art in the production of prestressed concrete products with special attributes such as exposed wire and a corrugated upper surface.

The NORDIMPIANTI Wet Casting machines offer a cost-effective solution for companies that are looking for a flexible approach to produce hollow core slabs, solid slabs, inverted T-Beams, lintels that require these special attributes.

The wf Wet Casting machine casts elements in a single phase using the vibration method without the need for formworks.

To start production of a different element it is only necessary to change the finishing mould mounted on the machine. This is a quick and straight forward operation.

Standard heights range from 60 mm to 300 mm while the width can be up to 1200 mm. Different widths are available according to customer requirements.

The heights of the elements, as well as the thickness of the vertical ribs can be varied within certain limits according to the application and the element specifications required.



WET CASTING WF

## Variety of prestressed elements

### wf300

The range of product options and sizes are shown below

#### VINEYARD POSTS AND LINTELS



Vineyard Posts

Lintels

#### INVERTED T AND I-BEAMS



T-beams  
up to **150**  
mm High

I-beams  
up to **200**  
mm High

#### HOLLOW CORE SLABS FOR FLOORS



Hollow Core Slabs **9 hole**  
h **120 mm** - h **300 mm**

#### HOLLOW CORE WALL PANELS



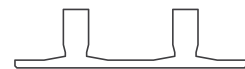
With concrete finish

#### GRANDSTAND PANELS



For Stadium seating

#### INVERTED DOUBLE T BEAMS AND SLABS



Inverted Double T Slabs



Inverted Triple T Slabs



U Panels

#### PRESTRESSED SLABS



Half Slabs  
h **120 mm** - h **250 mm**



Solid Slabs

## Prestressed elements with special attributes NOW AVAILABLE from NORDIMPIANTI's *wf* Wet Casting Machines

This machine uses a wetter concrete than that used by the other casting machines, either Extruder or Slipformer.

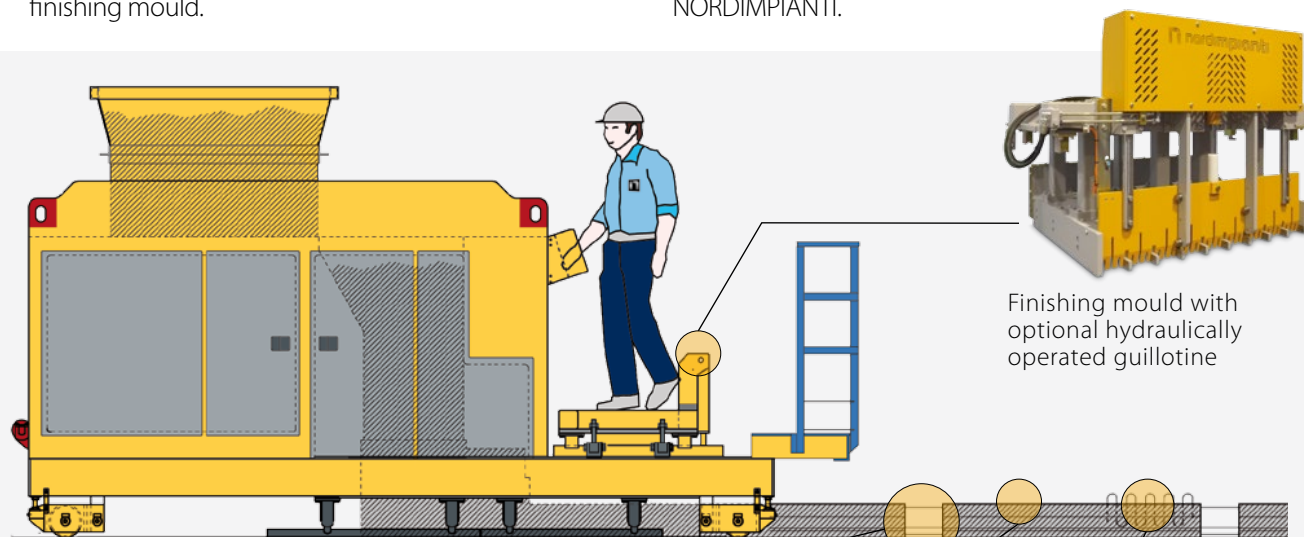
The wet casting machine can produce elements leaving the steel wires exposed at the cutting area of the element. This is achieved after the elements have been moulded by the concrete being dragged forward by a guillotine device mounted on the finishing mould.

It can also produce elements having a corrugated top surface using a special stamping device mounted on the finishing mould.

The up/down control of the guillotine and the stamping device are completely automatic. The length of the exposed steel wires can be precisely adjusted by means of a laser device which controls the position of the machine on the production bed.

Elements often require these attributes when being used in buildings constructed within seismic zones.

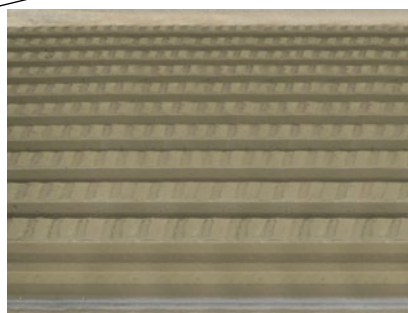
The insertion of steel mesh exposed on the top of the ribs is carried out by a different machine also supplied from NORDIMPIANTI.



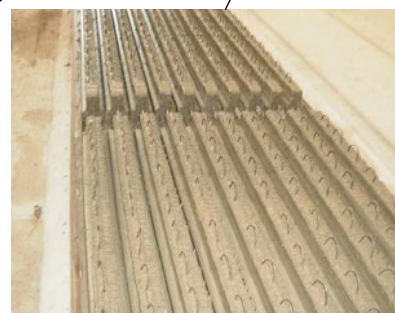
\*THE EXPOSED STEEL MESH IS INSERTED BY A DIFFERENT MACHINE ALSO SUPPLIED FROM NORDIMPIANTI.



EXPOSED WIRE

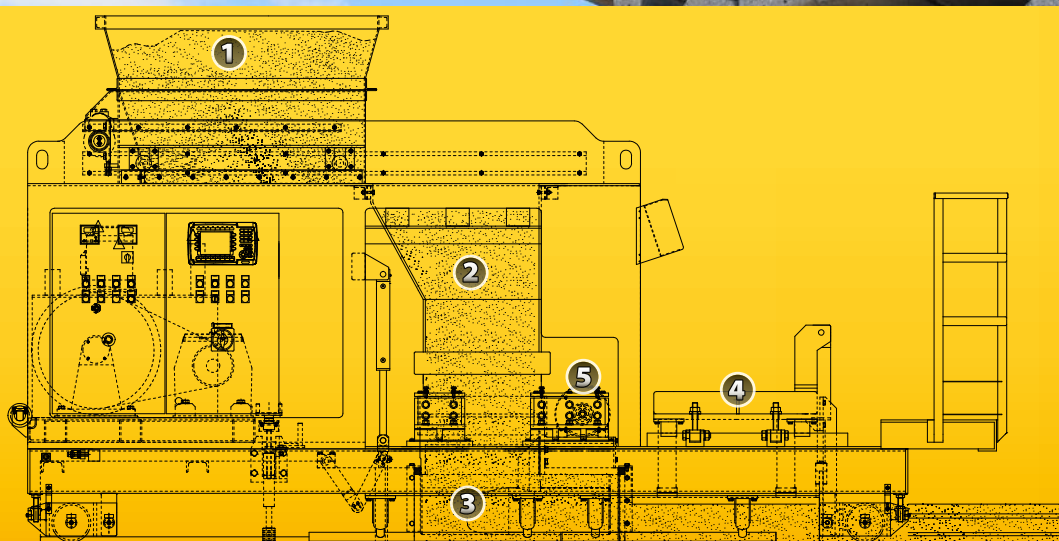


CORRUGATED UPPER SURFACE



STEEL MESH EXPOSED\*  
(Installed by a different machine also supplied from NORDIMPIANTI)





## DESCRIPTION

### WET CASTING TECHNOLOGY



The **wf** NORDIMPIANTI's Wet Casting machine is made up of 2 main units: the machine itself and an interchangeable element-specific finishing mould.

#### Finishing Mould

The element-specific finishing mould determines the final profile of the finished product. Changing the finishing mould is a quick and easy operation.



#### Wet Casting Machine

The machine houses the main delivery hopper, the auxiliary hopper, the vibration mould, wire guides, machine movement winch and HMI control panel.





# Wet Casting Variety of prestressed elements



The best Wet Casting machine available for the production of concrete elements.

NEW!

## Wf300

### The NORDIMPIANTI *wf* Wet Casting system

Concrete is delivered from the auxiliary hopper (1) to the Wet Casting machine's main hopper (2). It then falls by gravity directly onto the bed passing through the vibrating mould (3).

The concrete is delivered from the auxiliary hopper to the main hopper in order to ensure a constant gravitational concrete pressure in the machine. The weight of the concrete in the main hopper and the vibration moves the concrete through the finishing mould (4) which gives the final profile to the element.

The vibrating mould is equipped with 2 vibration motors (5) that are synchronized to the same speed and are inverter controlled.



### Technical data

Length	4400 mm
Width	1800 mm
Height, depending on forming insert	2400 mm
Rail gauge, standard Nordimpianti casting bed	1410 mm
Volume concrete hopper	1 m <sup>3</sup>
Total weight, depending on forming insert	8300 kg
Connection power, 400 V, 50 Hz	13 kW

## Top Advantages of NORDIMPIANTI's Wet Casting machines:



MINIMUM DOWNTIME FOR FINISHING MOULD CHANGING



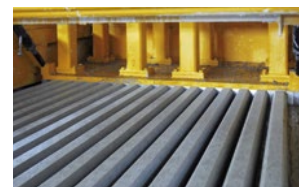
ACURATE MOVEMENT WITH INVERTER



AUXILLARY HOPPER



LASER DEVICE GIVES ACCURATE POSITIONING



EXCELLENT SURFACE FINISH

#### High level of concrete compaction

- The Wet Casting machine vibration motors are specially designed for continuous working;
- Excellent accuracy of element dimensions.

#### Production flexibility

- Element height from 60 mm up to 300 mm;
- The Wet Casting machines are able to produce a wide range of prestressed concrete elements such as hollow core slabs for floors and Walls, inverted T and I-Beams, inverted double T slabs, vineyard posts, lintels, solid slabs, half slabs and grandstand panels;
- Ability to have exposed mesh on the upper part of the panel ribs where applicable.

#### Reliability

- Heavy-duty construction;
- NORDIMPIANTI Wet Casting machines are internationally proven;
- Most of the mechanical parts are galvanised for durability and easy maintenance;
- Third party components are sourced from the world's most renowned suppliers.

#### User friendly

- New operator control panel;
- The finishing mould can be quickly changed to enable production of elements with different profiles or heights;
- High casting speed.



## **Wet Casting *wf* Machines**

Products



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