

## **Extruder NANO Machines**

Products

# EXTRUDER NANO MACHINE

## PRODUCTS



The NANO Extruder machine represents the state of the art in the production of hollow core slabs suitable for use as either non-load bearing partition walls or as a floor elements.

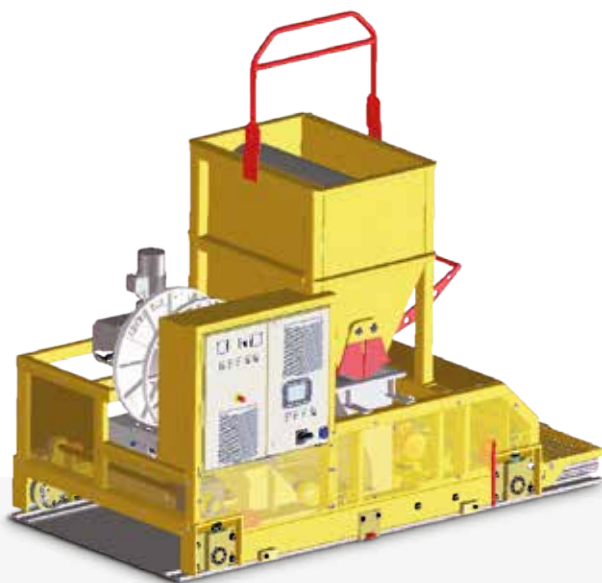
Depending on the type of elements to be produced, the NORDIMPIANTI NANO Extruder offers cost-effective solutions for companies who are looking for a flexible approach to produce hollow core slabs in various sizes and applications.

The Extruder machine casts elements in a single phase using the extrusion method.

The machine is modular and the extrusion group can easily be changed in order to produce an element with a different height.

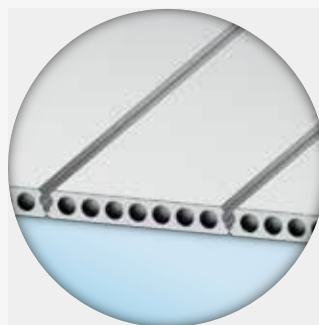
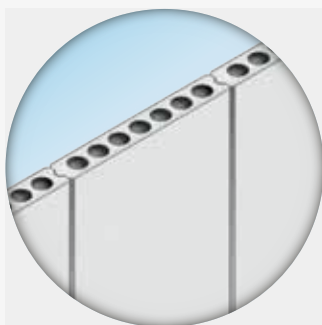
Standard heights range from 70 mm to 120 mm in element widths of either 600 mm or 1200 mm.

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.



NEW

## Extruder NANO



### Partition Walls

**2x600** mm wide

**1200** mm wide



h70 mm • Kg/m<sup>2</sup> 121



h80 mm • Kg/m<sup>2</sup> 132



h90 mm • Kg/m<sup>2</sup> 136



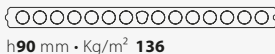
h100 mm • Kg/m<sup>2</sup> 156



h120 mm • Kg/m<sup>2</sup> 168



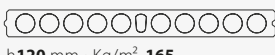
h80 mm • Kg/m<sup>2</sup> 131



h90 mm • Kg/m<sup>2</sup> 136



h100 mm • Kg/m<sup>2</sup> 154

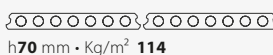


h120 mm • Kg/m<sup>2</sup> 165

### Floors

**2x600** mm wide

**1200** mm wide



h70 mm • Kg/m<sup>2</sup> 114



h80 mm • Kg/m<sup>2</sup> 126



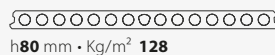
h90 mm • Kg/m<sup>2</sup> 129



h100 mm • Kg/m<sup>2</sup> 147



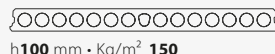
h120 mm • Kg/m<sup>2</sup> 158



h80 mm • Kg/m<sup>2</sup> 128



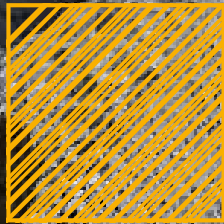
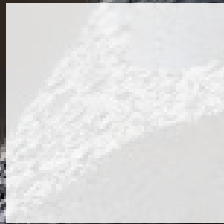
h90 mm • Kg/m<sup>2</sup> 132



h100 mm • Kg/m<sup>2</sup> 150

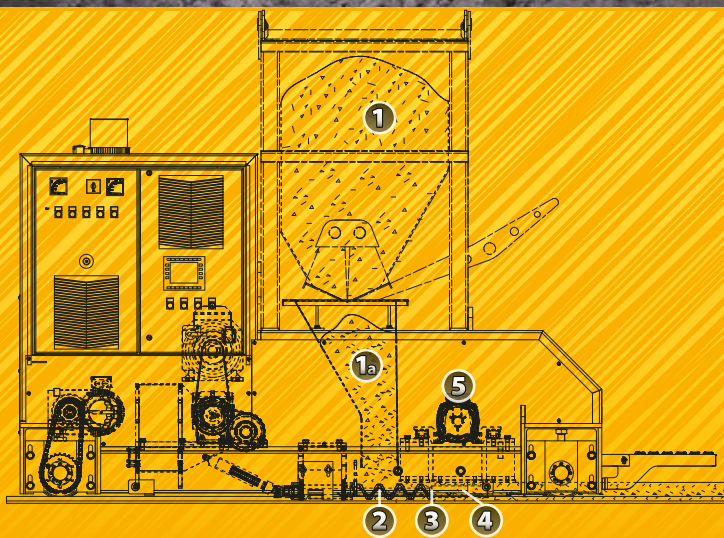


h120 mm • Kg/m<sup>2</sup> 160



## **Casting Machine**

Extruder NANO Technology



### The NORDIMPIANTI NANO Extruder system

Concrete is delivered to the extruder's hopper (1, 1a) and by gravity falls onto the Archimedean screws (2). The screws then drive the concrete into the compaction chamber (3) where the forming tubes (4) are situated. The forming tubes and the side formers create the shape and the voids of the element.

Screws, together with the forming tubes, the side formers and the vibrating device (5) give excellent concrete compaction at every point along the element ensuring the element's excellent technical characteristics.

## Main Advantages of NORDIMPIANTI's Extruder NANO machines:



EXCELLENT SURFACE FINISH



FLAT SURFACE



PRODUCTIVITY

### Productivity

- Compared to other production systems available on the market, the NANO Extruder from Nordimpianti can increase productivity by 100%. This is because the NANO Extruder can cast two 600 mm wide panels at the same time instead of just the one element produced by competing systems.
- Moreover changing production between floor slabs and wall panels is a simple operation requiring only a few steps.

### Excellent finished product quality

- The concrete compaction and the product finish is of the highest quality guaranteed by the latest generation of extrusion technology.

### Production flexibility

- The NANO Extruder from Nordimpianti is incredibly flexible and can be configured in any one of 18 configurations. It can produce floor slabs or wall panels in either 600 mm or 1200 widths and in heights varying from 70 mm up to 120 mm.

### Economical

- The NANO Extruder from Nordimpianti works on the same rails and beds and using the same equipment as on the standard 1200 mm production beds for prestressed elements. This gives companies the opportunity to diversify their production of prestressed elements with minimal investment allowing them to extend their range of products to include elements for partition walls or to offer thinner floor panels.



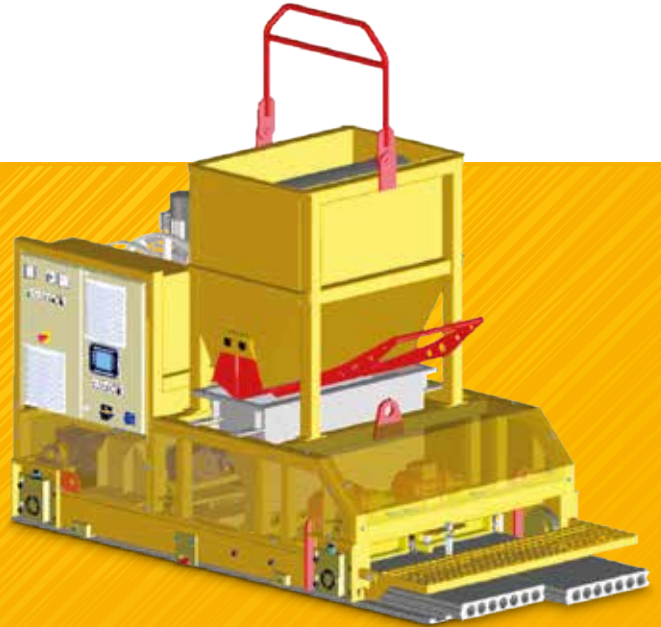
# Extruder **nano**



## A viable solution for the production of *Non-load bearing partition walls and thin floor slabs*

### Technical data

Length, with cable drum	2600 mm
Width	1600 mm
Height, depending on forming insert	2050 mm
Rail gauge, standard Nordimpianti casting bed	1410 mm
Volume concrete hopper	1 m <sup>3</sup>
Total weight, depending on forming insert	3500 - 4000 kg
Connection power, 400 V, 50 Hz	10 kW
Noise level	< 85 dBA



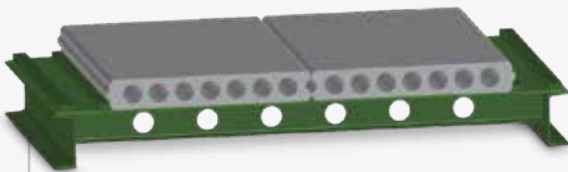
\*DIMENSION CAN BE ADAPTED TO CUSTOMER REQUIREMENTS

### Standard Bed

The NANO Extruder from Nordimpianti does not require the use of special production beds, it can be used on the same production beds that produce the standard prestressed hollow core slabs.

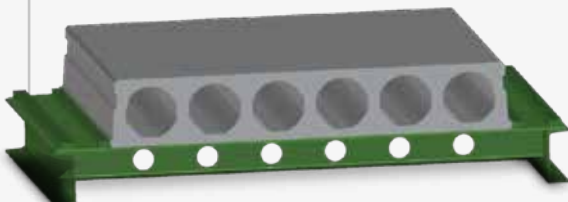
On this same production bed the NANO Extruder can cast 2 x 600mm elements simultaneously.

#### Non-load bearing partition walls



STANDARD BED FOR PRESTRESSED AND NON-PRESTRESSED CONCRETE ELEMENTS

#### Prestressed hollow core floor slabs

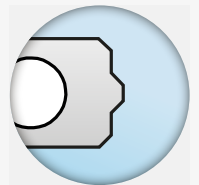


### Element Options

The NANO Extruder from Nordimpianti can produce elements with many variations.

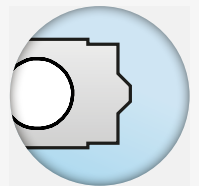
#### Standard L

Standard side edge profile



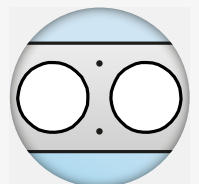
#### Speciali Z

Side profile with recessed edges



#### Strong S

Ability to have imbedded safety cables (not prestressed)





# Extruder NANO Machines

Products



**NORDIMPIANTI SYSTEM SRL**

Via Erasmo Piaggio, 19/A  
66100 Chieti (CH) - Italy

Tel. +39 0871 540222

Fax +39 0871 562408

[info@nordimpianti.com](mailto:info@nordimpianti.com)

[www.nordimpianti.com](http://www.nordimpianti.com)