

Nordimpianti System Srl, 66100 Chieti (CH), Italy

Non-Stop Innovation with the Wet Casting Machine

Nordimpianti System, with more than 40 years of experience in machine construction and providing technical solutions for the production of prestressed concrete elements, is launching its new version of the Wet Casting machine in order to continue to meet the needs of its customers. With this new version of the Wet Casting machine, Nordimpianti has applied all its knowledge and expertise to their casting machines for the benefit of its customers.

For over 15 years Nordimpianti has produced a Wet Casting (WF) type machine for the UK and Italian markets.

The core philosophy of Nordimpianti has always been to ensure that its machines are of the best quality and take advantage of the continuous advances in technology. In 2014 Nordimpianti introduced a new model of the Wet Casting machine to satisfy market requirements and the new version has experienced much success all over the world. Currently, the new WF machine is already in operation in countries like Mexico, Tunisia, and India and could not fail to be a success in Italy.

No less important among the features of the Wet Casting machine in addition to being able to work with wet concrete, is its low maintenance costs. There are many favourable points that make this machine stand out. Amongst them is the ability to produce different prestressed concrete elements using different moulds on the machines easy and quick to change. Moulds are also available in hydraulic versions in order to be able to make products that meet seismic building codes such as those found in North Africa.

The first Wet Casting machine to be used in Italy was at Primavera Prefabbricati, a customer of Nordimpianti since the 1990's. The first installation supplied to Primavera was a complete plant, including a Slipformer machine, for the production of prestressed T-beams for



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New Wet Casting Machine (Ansa Prefabricados, Mexico) during the casting phase of a hollow core slab.



Detail of the casting phase of single core slabs at the Ansa prefabricados plant in Mexico.



Why Nordimpianti

We are one of the world's leading suppliers of machinery and complete production plant for the manufacture of pre-stressed concrete elements.

With NORDIMPIANTI's casting machines (Extruder and Slipformer systems) you can produce a wide range of pre-stressed concrete elements such as hollow core slabs for flooring and walls systems, vineyard posts, lintels, inverted T-beams, pre-stressed and solid slabs, U-Panels, and large 1m high hollow core slabs used for the most demanding construction applications.

The company gives you the benefits of 40 years of international **Concrete Experience** to develop Tailored solutions that help our customers maximize their own business.

Extruder and Slipformer technologies
THE BEST QUALITY CASTING MACHINES AVAILABLE



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Concrete Experience

EXPERIENCE

floors. This plant was capable of producing of 1.8 million linear metres of T-beams per year.

After over 10 years of continuous output, the decline of the civil construction market led Primavera to invest in the production of prestressed posts used in vineyards and fruit orchards in the agricultural sector.

Square prestressed posts were already available in the market but were produced, for the most part, using Slipformer machines. These Slipformer machines work with a drier concrete mix and hence do not give the same curved faces and smooth finish that can be attained from a wet casting machine. The curved faces and smooth surfaces are more suited to harvesting methods employing automatic harvesting machines.

For this reason Primavera turned to Nordimpianti for the supply of a Wet Casting machine, the most appropriate machine for the production of these particular prestressed elements.

With the new Wet Casting machine Primavera now produces 2 million linear metres of prestressed posts in sizes of 6x6, 7x7 and 9x9 cm.

Another company that chose Nordimpianti as its supplier is SSDF, a company based in Tunisia.

For many years the company looked for a machine that could produce prestressed beams with exposed wires at the beam ends in order to comply with Tunisian construction regulations.

After many discussions with various businesses that offer this type of machine SSDF finally opted for the machine designed and built by Nordimpianti. At first glance all casting machines may look the same but SSDF chose Nordimpianti because of the many technical advantages built into the machine. Nordimpianti supplied a complete line of machines including a new WF 300 Wet casting machine, a transversal cutting saw, a machine to pull the prestressing cables, as well as ancillary equipment for the transport of the concrete, cable stressing and a lifting machine to transport finished elements to the stocking area.

In Mexico Nordimpianti supplies Ansa Prefabricados. Started in 1987, it has a production of 80,000 linear metres of elements per month and is the leading company in the state of Morelos. Its chief engineer



Casting Phase at the Primavera plant of prestressed concrete posts for agricultural purposes.



Detail of the wet casting machine during casting phase.



Detail of prestressed concrete posts with round surfaces.



Wet Casting Machine during the production phase of prestressed beams in Tunis, SSDF plant.



Detail of the production of prestressed concrete beams with stirrups in Tunis, SSDF plant.

Mr. Andrade, having a good knowledge of market conditions was well placed to develop products such as single core beams and hollow core slabs for both walls and floors. He did not hesitate on relying on Nordimpianti again for the acquisition of the new Wet Casting machine.

This new investment not only met one of their goals, but the advance in the production of single core beams led to an implementation within the internal market of the single core beam itself which led, again in turn, to having new alternatives to offer customers for their building construction. With the new production of single core beams, buildings are now being built with greater spans and with considerable savings in production costs.

Furthermore, with the versatility of the machine, Ansa has made a real impression in the market extending its product offering

with the production of hollow core slabs for walls and floors for prefabricated buildings. The Wet Casting machine, together with the two other types of production machines, the Extruder and the Slipformer mean that Nordimpianti can provide all three casting technologies allowing customers to choose the machine that best suits their needs.

The decision to develop all the production systems reflects a strong vision by Nordimpianti to ensure that its customers benefit from a choice of casting systems. Years of experience has given Nordimpianti the knowledge that there does not exist just a single machine that can produce every element or at least in the most efficient way possible.

That is why the in-house engineers at Nordimpianti have worked hard to develop high performance, reliable machines able to produce elements with low production costs.

A winning combination that means Nordimpianti has the range of machines for customers to make an informed choice. ■

FURTHER INFORMATION



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