

Nordimpianti System Srl, 66100 Chieti (CH), Italy

Successful modernization in Tyumen, Russia

Nordimpianti is currently one of the largest companies in the international market of pre-stressed concrete equipment. The casting machines, the Slipformer, the Extruder and the new innovative Wet Casting machine can produce a wide range of products such as hollow core slabs (with heights up to one meter), T beams, lintels, ribbed panels, U-panels, wall panels etc., that meet the needs of even the most demanding customers within construction. Nordimpianti is active not only in Europe but the Middle East, India, Latin America, Asia and also in Ukraine and Russia.

The first Russian partner of Nordimpianti was the company JBI-5 in the city of Tyumen. Work between the two companies began in 2007 with the initial idea of creating a production line of hollow core slabs. One of the main advantages of the technology offered by Nordimpianti is the ability

for its machines to manufacture the concrete elements without the need for expensive and time consuming formworks. Nordimpianti was instrumental in redesigning its own extruder machine to produce hollow core slabs to the "Russian standard" of 1500 mm wide.

This project came to fruition with the commissioning and installation of the complete plant in Siberia in 2009. Since then, due to the proven quality of the machines, the excellent aftersales service and the in-depth knowledge base of the technical backup, the working relationship has become closer and has realised more projects.

Extended research and development have resulted in ever more intelligent and innovative solutions for the industry and has led JBI-5 to completely modernize its existing factory and also to install a hollow core slab production line for 1200 mm widths.

JBI-5 made some initial inroads in the production of hollow core slabs without using formworks in 2006. At the time this constituted an important step forward for the company allowing them to produce high quality slab for the Russian market. However, as market conditions changed and as the number of companies producing these elements began to grow, many other aspects of production became more and more important to in the goal to gain a competitive edge:

With respect to the manufactured elements this meant surface finish quality, the ratio of strength to mass per m², span length weight ratio, consistent product quality and high output. For the machines this meant production machine reliability, ease of production change, easy maintenance and intuitive control panel programming. For this JBI-5 then turned to Nordimpianti whose machines met all these characteristics and delivered products which more than surpassed all the customer's needs. This trump card allowed JBI-5 to settle on Nordimpianti as its supplier of choice and firmly cemented the Italian company as an international industry leader.

In addition during the busy summer construction period JBI-5 noticed a marked increase in demand for 1200 mm wide slabs and for this they once again turned to Nordimpianti to supply an extruder to pro-



The new Extruder EVO 120.



1200 mm wide hollow core slabs produced on 1500 mm production beds.

duce 1500 mm slabs that can also be configured to produce 1200 mm slabs on the existing 1500 mm production beds.

To meet the demand of the Russian company, the true star of the show has been the Extruder EVO 120. This new casting machine gave JBI-5 a whole new series of advantages:

- The capability to produce hollow-core slabs with light sections of 255 kg/m²
- The ability to produce hollow core slabs of 1200 mm width on 1500 mm production beds.
- Reduction of time required to transfer from one type of bed to another, now at approximately one hour.

- High level of control during hollow core slab production – ability to control Archimedean screw speed, compaction levels etc., in order to maximise product quality.
- Ease of daily maintenance,
- Intelligent design that allows the transmission of power to be spread evenly through the gears to all the moving parts of the machine
- Advantageous price advantage of spare parts further lowering production costs

The situation has been neatly summed up by Mr. Kuz Sergey Yaroslav director of JBI-5, in Tyumen

"When the decision was made to change the casting machine we already had valuable experience in the production of hollow-core slabs and this gave us a clear idea of the supplier we wanted to use. This project of modernisation was partly driven by the need to reduce maintenance time and costs and, of course, partly by the important aspect of cost effective production of hollow core slabs with minimum mass / m² whilst still having high strength characteristics"

We also asked our suppliers for a machine outside the standard. We had in mind being able to produce hollow core slabs 1200 mm wide on our existing 1500 mm beds to meet ever increasing customer demand.

And as in the first project, Nordimpianti proved more than up to the task and demonstrated in practice that their casting machines born under the Italian sun were also very at home in the Siberian winters of JBI-5 in Tyumen"



JBI-5 modernized its existing plant and installed a hollow core slab production line for production of 1200 mm slabs.



JBI-5 became first Russian partner of Nordimpianti in the city of Tyumen and continues to choose Nordimpianti as its main supplier.

FURTHER INFORMATION

nordimpianti  Concrete Experience...

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