

Nordimpianti system srl, 66100 Chieti (CH), Italy

Ground-breaking extruder for hollow core slabs 1500mm wide in Russia

Tyumen, Russia. 02-07-2009 – The first 1500mm hollow core slab has been cast from an Extruder supplied by Nordimpianti. The date marks the important beginning of hollow core slab production adapted to attain the Russian standard of 1500mm wide panels whilst at the same time incorporating the quality of compaction and surface finish that only extrusion technology can offer. This new plant was built in Siberia, by Concrete Product Plant - 5 (JBI-5), a Russian company that back in 2007 made firm strategic market decisions which led them to look for strong international partners and which has now enabled them to fulfil the project to its production phase.



JBI-5 Plant

Situated in the region of Tyumen, 1800 km from Moscow over the Ural Mountains the Concrete Products Plant (JBI-5) is one of the leading producers of hollow core slabs, as well as concrete pipes, posts, floor and walling panels, columns and foundation piles.

Russia has realised that one of the ways through the current economic situation is to give even greater weight to the construction sector both at a national and local level, the region of Tyumen being no exception. In the last 10 years the Tyumen region,

according to the Russian Federation Government, has looked to develop itself in the civil and housing construction sector. As well as realising large scale industrial and commercial building projects using precast technology and creating new infrastructure such as roads, motorways and bridges, it has also used precast technology to provide sports and cultural centres to improve the standard of living and to give the Siberian city a new lease of life.

JBI 5's objective is to be the manufacturing market leader by offering a high quality and technologically superior product to its customers. The belief in this objective by the Russian management has been the driving force behind research to modernise and continually invest in production, with the company introducing the most up to date production technology at every opportunity.

In the past the Russian company used vibrating formwork for the production of Hollow Core Slabs. The system had two major disadvantages: first, the poor surface finish



The International search for a suitable partner amongst companies with experience in the most up to date technology for this new pre-stressed format (1500 mm wide) led JBI 5 to the Italian company Nordimpianti



The two companies, although from different cultures have found a common language to create an exciting, cost effective investment.



An "extruded element" has a finer quality surface finish and is stronger than elements produced using other technologies.



Nordimpianti produced for JBI 5 Multifunction machine that can simultaneously clean, oil and lay the stressing wires on the steel production beds, a Multiple pull 250 Ton stressing system and a Saw to cut panels up to 500 mm high

quality which did not meet the criteria demanded by modern building construction and secondly, the productivity, which couldn't satisfy market demand.

In 2006, in collaboration with a Finnish company, JBI 5 did away with the need for formwork by installing a new production line for hollow core slabs using new available technology

The Russian management realised that it needed to drive the Russian Market forward and produce a Hollow Core Slab that met the European standard of compaction and Surface finish. To do this the Extruder technology needed to be developed further and applied to the larger 1500mm wide Russian standard. Not only did the Extruder technology need to be developed but the company had to overcome "a resistance to change" based on old ideas being practised on outdated construction methods.

In 2007, the growth of demand led the company to search for new international partners to offer them new tailor made solutions for

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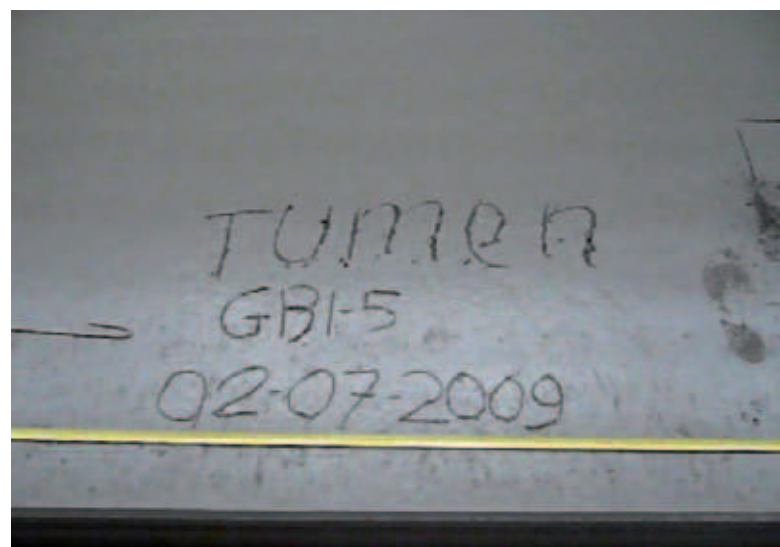
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GBI 5's interest was not only to find a partner that could guarantee to supply a machine for the production of 1500 mm hollow core slabs but also the Russian company wanted to use the Extruder technology that was already being deployed in the production plant.

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1500 mm hollow core slab production using Extruder Technology, as they had previously used for the production line for 1200mm hollow core slabs.

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slabs but also the Russian company wanted to use the Extruder technology that was already being deployed in the production plant. An "extruded element" has a finer quality surface finish and is stronger than elements produced using other technologies.

The International search for a suitable partner amongst companies with experience in the most up to date technology for this new pre-stressed format (1500 mm wide) led GBI 5 to the Italian company Nordimpianti. Demonstrating Italian Engineering expertise elegantly characterised by the "Made in



GBI-5 is one of the leading producers of hollow core slabs, as well as paving slabs, concrete blocks, concrete pipes, posts, floor and walling panels, columns and foundation piles.

Italy" logo, Nordimpianti supplies machinery and complete production plant for the manufacture of pre-stressed concrete elements. Nordimpianti's headquarters are in Chieti in the centre of Italy and within easy reach of Rome. The HQ is surrounded by the beautiful countryside of Abruzzo where, from this wonderful landscape there has always existed a hub of activity in the precast concrete Industry. Nordimpianti has always been a major part of this centre of excellence.

The company is one of the most important companies in this sector at an international level. Thanks to over 35 years experience Nordimpianti's casting machines (Slipformer and Extruder Systems) are able to produce a wide range of products such as vineyard posts, T beams, lintels, U-Panels, right up to the large 1m double T panel and hollow core slabs used for the most demanding construction applications.

Nordimpianti started its activity in 1974 but it was in the 1980's, thanks to an enthusiastic, enterprising and ambitious team, that the company began look for new challenges and to create a network of local commercial partners in order to export the technology to all of Europe and all over the world. Today the company is as vibrant as ever and is active in many different countries, in all of Europe, Russia, India, Ukraine, Saudi Arabia, Iran, Libya, UAE and the emerging markets such as Burkina Faso and Ghana. This geographical coverage has led Nordimpianti to constantly invest and increase its business.

Nordimpianti and JBI 5 first met in Russia in December 2007 where Nordimpianti was showcasing its products and systems at the International Exhibition ICCX in St. Petersburg. This was Nordimpianti's debut in the Russian market and it was here that Nordimpianti demonstrated that it had the experience and vision to add to their existing impressive machine range to develop yet another Extruder machine to manufacture a 1500 mm hollow core slab. The two companies clicked, both on a technical and a personal level and a visit to Nordimpianti in Italy was organized by JBI 5.

The trip made an impact on the Russian Technicians. They were able to see at first hand the Manufacturing Site of Nordimpianti and also to see how the machines performed by visiting some of Nordimpianti's Italian Customers. Even though JBI 5's experts already had experience of the Extruder Technology they were further impressed by the construction quality of Nordimpianti's machines and the attention to design detail would enable JBI 5 to reduce maintenance and production costs.

After several positive meetings the two companies signed a contract for the supply of a new manufacturing line incorporating new technology to produce 1500mm wide hollow core slabs.

In total, as well as the two 1500mm wide Extruder machines, Nordimpianti produced for JBI 5 complete 1500mm production lines consisting of five 102 m long steel casting beds with heating water systems; a Multifunction machine that can simultaneously clean, oil and lay the stressing wires on the steel production beds, a Multiple pull 250 Ton stressing system and a Saw to cut panels up to 500 mm high; Nordimpianti also supplied all the lifting equipment, not only for the machines but also for the distribution and transport of the finished concrete elements to the on-site warehouse. Before the new plant was installed, JBI 5 produced approximately 60 cubic meters per day. Now, thanks to the new production line the Russian company can produce up to 160 cubic meters per day using manpower more efficiently and without changing any work shift pattern. Moreover, with the quality of compaction offered by the Extruder technology, JBI 5 can now produce even longer concrete elements with higher load resistances than the previous form

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work vibration system. The Hollow Core Slabs can also be cut at an angle from 45 to 90 degrees with respect to the longitudinal axis.

Nordimpianti's relationship with the customer did not rely solely on dry statistics and production data but offered a complete service from initial advice, to the design of factory layout and adaptation of existing plant, right through to commissioning and at the same time forming a strong bond between the two technical teams. The two com-

panies, although from different cultures have found a common language to create an exciting, cost effective investment.

On the 7th August 2009 an official ceremony took place at JBI 5's plant to inaugurate the new technology production line from Nordimpianti. The importance of this event was demonstrated by the presence of the Governor of the Tyumen region, Vladimir Yakushev who came to see for himself how the new Extruder technology for 1500mm wide hollow core slab works.

JBI 5's investment has been rewarded and means that the company is well placed in the Russian market, especially with the flagship 1500mm wide Hollow Core Slab product and will help the company to overcome any obstacles thrown up in this difficult economic period. The Italian company, for its part, now holds a unique position within this new market opening after the implementation of this first Russian Plant. Nordimpianti will have the chance to work with other



7 August 2009 an official ceremony took place in JBI 5 plant for the presentation of the new technology line Nordimpianti. The importance of this event was shown by Governor of Tyumen region, Vladimir Yakushev who had the occasion to see how Extruder technology for hollow core slab 1500 mm wide works.

FURTHER INFORMATION



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