

Zenith Maschinenfabrik GmbH, 57290 Neunkirchen, Germany

New plant for the production of high quality pavers in Quito, Ecuador

In Ecuador, the family owned company Insermin recently expanded their production capacity with a brand new plant for the manufacturing of high valued added pavers, curbstones and special products. D'Concrete, which is their commercial brand name, have been in the market for more than 5 years with the production of different types of colored and textured blocks, pavers of different shapes and curbstones. With the exponentially increased sales due to their aggressive commercial strategies and the high demand in the country, D'Concrete had the necessity to triple their production capacity mainly with high value added pavers and curbstones with face mix. During the last years, D'Concrete has built up a reputation as a reliable company with high quality production standards.

■ Sergio Prah, Bautech International, Guatemala ■

The president of the company, Mr. Hernán Romero, decided to contact the company Bautech International Corp. to design the right plant for their needs. After a complete and deep analysis of the different machine types available on the market and their budget, they made the decision to purchase a Zenith 844 SC Multilayer machine, including a variety of Kobra molds, a complete fully automatic batching plant from

Euromecc and Probst clamps for the handling of the finished products.

The German Multilayer Zenith 844 SC proved its high production capacity of face mix products, with simple operation, reliable and easy to learn. With this type of machine, there is no need for additional equipment, which makes the total investment lower, complying with the company's budget, and the complete process simpler. The decision for a Zenith 844 SC Multi-

layer machine was made due to the high expertise of the company in these types of machines worldwide, the reliability of German technology, the high quality achieved of the final products and the diversity of products that can be produced in the machine. The acronym SC from the 844 machines, comes from Speed and Comfort, which is the strongest and fastest machine of the Multilayer series, with higher output due to the higher speed reached by stronger motors, vibration and hydraulic



Zenith 844 SC Multilayer machine producing pavers with face mix



■ Dipl.-Ing. Sergio Prah Dipl.-Ing. has 30 years of experience in designing, installing, commissioning and producing precast / fibre cement / dry mortar production facilities in various countries of Latin America, USA and Europe. He was employed by Swiss Amanco Group for 14 years and his final position was manager for the Latin American division. Today he heads Bautech International. Bautech designs, installs and operates high technology plants for the precast concrete industry.
sergioprah@bautech-int.com



equipment. The Multilayer machine runs fully automatically, which makes production more reliable, obtaining the same quality throughout the production day.

For the different products to be produced at the plant, the German Kobra molds were selected for high quality, warranty and

accuracy of final products, providing to the Ecuadorian market a totally different product of perfect dimensions and properties. Kobra supplied a package of several molds for paver and curbstone production.

To achieve perfection, high production and the best quality, Euomecc S.R.L. from Italy,

supplied a complete batching plant in fully automatic design, with two mixers to feed the Zenith machine continuously with a homogeneous mixture for the basic and face mix.

The batching plant was designed with three aggregate hoppers for a total capacity of 65m³ with dampness probes to control the humidity in the raw materials and with the weighing system incorporated in the plant, the different gravels and sand are weighed precisely all the time. The batching plant has 2 mixers, one 1500/1000 l for mixing the basic mix and a smaller mixer 565/375 l for mixing the face mix. Both mixers are supplied with a Hydronix mixture control for an appropriate water/cement ratio. Each mixer also has its own water, additives and cement supply control system, all of them with an accurate weighing system.

Euomecc S.R.L. is also well known for segmental steel silos. A silo of 100 tons provides cement to both mixers with an automatic screw conveyor system that feeds the cement weighing hopper to the mixers. The silo consists of several segmented plates for easy and accurate installation. For perfect inventory control, the silo has a continuous level control at any moment of the cement used during the production and, cross checking with the cement weighed in each mixer.

The final mixture coming from each mixer is supplied to the hoppers of the Multilayer machine by belt conveyors, as soon as the machine requires it.

After the curing process over the production pallets, the cured products are palletized on wooden pallets using a special hydraulic clamp provided by the company Probst Greiftechnik Verlegesysteme GmbH from Germany.

Now with a completely new plant with German and Italian technology, D' Concreto in Ecuador is able to provide the Ecuadorian Market with consistency and high quality products. They have the right technology to be prepared for the worldwide new trends of shapes, colors, textures and sizes of pavers and curbstones.



Fully automatic control system for the Zenith 844 SC machine



Kobra paver molds for perfect and accurate production

FURTHER INFORMATION



Zenith Maschinenfabrik GmbH
 Zenith-Straße 1, 57290 Neunkirchen, Germany
 T +49 2735 779234
 F +49 2735 779211
info@zenith.de
www.zenith.de



Kobra Formen GmbH
 Plohnbachstraße 1, 08485 Lengenfeld, Germany
 T +49 37606 3020
 F +49 37606 30222
info@kobragroup.com
www.kobragroup.com



Euromecc S.r.l.
 SS 192 Km 79, Casella Postale 163, 95045 Misterbianco (CT), Italy
 T +39 095 7130011
 F +39 095 7130115
info@euromecc.com
www.euromecc.com



Probst Greiftechnik · Verlegesysteme GmbH
 Gottlieb-Daimler-Str. 6, 71729 Erdmannhausen, Germany
 T +49 7144 330926
 F +49 7144 330950
info@probst.eu
www.probst.eu



Euromecc batching plant with cement silo, aggregate hoppers, skip elevator and mixers



Euromecc mixers platform and belt conveyor for feeding the Multilayer machine



Probst packaging clamp