

Masa AG, 56626 Andernach, Germany

Ipsonas implements new stone manufacturing machine in Cyprus

The company Ipsonas Prefabricated Concrete Products implemented a new stone manufacturing machine, MASA AG in 2005 in Cyprus. Ipsonas is one of the leading companies in Cyprus which manufacture pre-fab concrete blocks and is involved in all major construction projects in Cyprus. The founder of the company, Andreas

Papadopoulos who has a diploma in engineering realised the advantages of construction using pre-fab concrete blocks for infrastructure at a early stage. The company also manufactures concrete and steel concrete pipes in addition to concrete and block stones.

After realising those already existing capacities in the concrete block domain was not sufficient, the company decided to conceptualise this area with the most modern production technology as per newest standards. The acceptance of the bid for the project of new machines was taken by Masa AG from Andernach, Germany.

Masa supplied the charging weigher, two mixers, the control of mixing-and dosing-machines and the stone manufacturing machine Record 9001 XL for the new concrete block manufacturing machine at Ipsonas.

Mixing machine

The mixing machine has two Masa high power mixers of type HPM with a capacity of 3.0 m³ for core concrete and 0.75 m³ for the shell lime facing. The mixing takes place as per counter flow principle with a mixing tool movement in several levels, where highest concrete quality can be achieved in less mixing times and using less energy.

The different sand grains are weighed using the material silo and a mobile weighing system(charging weigher) and finally filled in the mixer lifts. Other components like cement and other additional material are also added into the mixer. The mixers are directly installed on mixer scaffolding over the machine, so that the concrete is filled in the shortest way in the machine silo.



► The high power mixer HPM 2000/3000 in the plant at Ipsonas

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The mixing and dosing machines are controlled with a control system through a PC with a TFT monitor, developed by Masa. The control system allows as many mixing formulations as desired to be developed and stored.

Concrete block machine

A concrete-block machine was required by Ipsonas, having the highest possible flexibility in manufacturing different products. They needed a machine which could produce concrete tiles of 400x400x40 mm dimensions using block stones and paving stones and kerbstones of size 300 mm. Also, all products were required to be consistent and of good quality.

It was decided to use the Masa stone manufacturing machine Record 9001 XL with a board size of 1400 mm x 1100 mm, the Top-Model of Masa- stone manufacturing machines.

All types of concrete bound from stones from light weight and heavyconcrete, like hollow block, solid block, edge, paving stones etc can be produced with the stable stone manufacturing machine with a gross weight of over 40 tons. The especially heavy stamp block, extra long site store for form and stamp and other special technical features guarantee, that the products are manufactured with the exact sized of 40-500 mm. The machine func-



Production of concrete tiles on Masa 9001 XL

tions are carried out with a highly dynamic, maintenance free proportional valve with integrated electronics, whereby the machine controls are designed decentrally with the help of Profibus.

The PC-controlled process visualization enables a good overview of the machines and system functions, which are displayed on the PC-monitor.

For the production, steel palletes are used at Ipsonas because they are durable and can sustain vibrations. The company Samjung, Korea, is currently providing them.

Transport systems

After the production, the fresh products are transported using a hoisting type ladder and taken to hardening with the help of a fully automatic movable ramp in the rack system. After the process of drying approx 24 hours after production, the blocks are again brought onto the movable ramp as in the production process. The movable ramp then transports the dried blocks to a lowering type of ladder. From here, the layers land up in packaging, which makes block packages, through a further transport medium.



Stone manufacturing machine Record 9001 XL



Lowering type of ladder and Return transport

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Finally the packages can be strapped horizontally and vertically. Forklifts carry the packages to the warehouse location.

Ipsonas considers itself competent enough to satisfy the constantly increasing demand in a more efficient way and still maintain its high quality products with the new stone manufacturing machine, which can produce the complete product range right from concrete tile with blockstone (with or without shell lime) up to coloured brick. Also, with the new stone manufacturing machine of Masa, the company believes to have established itself as one of the leading companies on the Island and claims to be a trendsetter in the market of Cyprus.



Packaging with Package transport

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