

Masa GmbH, 56626 Andernach, Germany

Another concrete block plant commissioned at Transgulf Cement Products L.L.C. in Dubai

Before the end of 2016 an additional Masa block making plant was put into operation in Dubai, which produces high quality concrete products for the Arabian market. The company, Transgulf Cement Products L.L.C. is a pioneer in the concrete block industry in Dubai, who puts their trust in German equipment and know-how. The concrete paving stone product lines include a diverse selection of shapes, colors and surface treatments where aesthetic appeal is a focal point. Durable, thermal and sound insulated brickwork completed in safe manufacturing setting are further characteristics of Transgulf operations.

The long established company Masa from Andernach, Germany fulfilled these demands with no problems in the delivery of the concrete block making machine XL 9.1 and in combination with a complete ring plant as well as with an upstream dosing and mixing plant for concrete.

Masa has delivered in the past already two plants to Transgulf. Now with the third one Masa supports the expansion activities of Transgulf on the Arabian market.

Technical details (a selection)

The new plant is equipped with two Masa concrete mixers (PH 2000/3000 for main mix, S 350/500 for face mix) with a perfectly adjusted dosing plant. The mixed concrete is transported to the block making machine by a double bucket conveyor. Main and face mix concrete are separated and can be also dosed quantitatively and is flexible.

The block making machine Masa XL 9.1 is equipped with an automatic mold change, to simplify and speed up the mold change process. The integration of a height limit system ensures an utmost production height of the products. Also a hydraulic driven smoothening roller and a bottom slide (face mix filling box) are integrated. Transgulf has decided to install an upgrade package to increase the

performance of the regular Masa XL 9.1. The package includes a higher hydraulic pump capacity, an additional hydraulic accumulator and a servomotor for the ejection and feed of the production palettes. With the Masa Styrofoam inserter Transgulf can produce insulating blocks with Styrofoam inserts. The products are produced on 1400 x 1100 mm steel production pallets.

To cure the products Transgulf decided on an innovative open-plan concept from Masa: The complete curing chamber as well as elevator, finger car and lowerator are installed in a coherent climate area.

The Masa ventilation system optimizes the curing process by creating uniform climate conditions in the curing chamber. It consists of horizontally arranged air-circulating fans in a separate air shaft, vertically arranged exhaust fans and diagonally arranged humidity and temperature sensors. By means of the sensors the circulated air is monitored, the circulating air and exhaust air fans are controlled accordingly.

Before the all-servo controlled Masa Cuboter is mounted, a pulling device is installed: With this solution the "gap" between the production palettes is closed. Depending on the product, it is possible to clamp, move and pack the concrete pavers from 1.5 production palettes.



Masa mixing tower: Below the concrete mixers you will find the Masa double bucket conveyor



The new plant is equipped with two Masa concrete mixers: Masa mixer PH 2000/3000 (right) and Masa mixer S 350/500 (left)

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The ready mixed concrete will be transported to the block making machine by a double bucket conveyor

To optimize the transport process of the wet and the return transport, Transgulf is using a proven Masa solution: The Masa cross-transport with carriage and grab can buffer the production pallets on the way back to the block making machine. Furthermore, the plant efficiency is increased by allowing the wet side and return transport to work independently.

Transgulf embraces high standards in plant control software and decided to use the software package FAST "Advanced". The Masa plant control software is a modular software for the unified operation and visualization of the components. In addition, the scope of delivery also included a product data acquisition, product data management, input security and formulation comparator or mold management.

In addition, the scope of delivery for Transgulf also includes an UPS (Uninterruptible Power Supply) that protects the operation of the

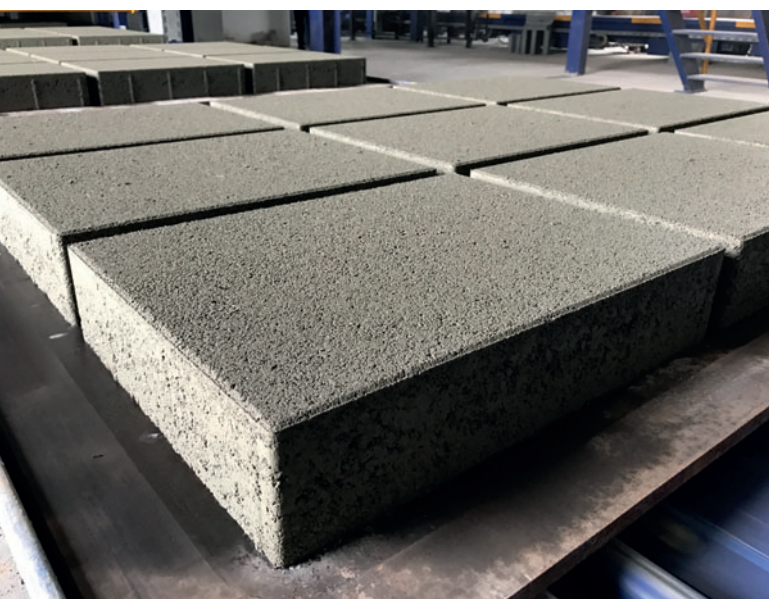


*The heart of the new plant:
Masa concrete block making machine XL 9.1*

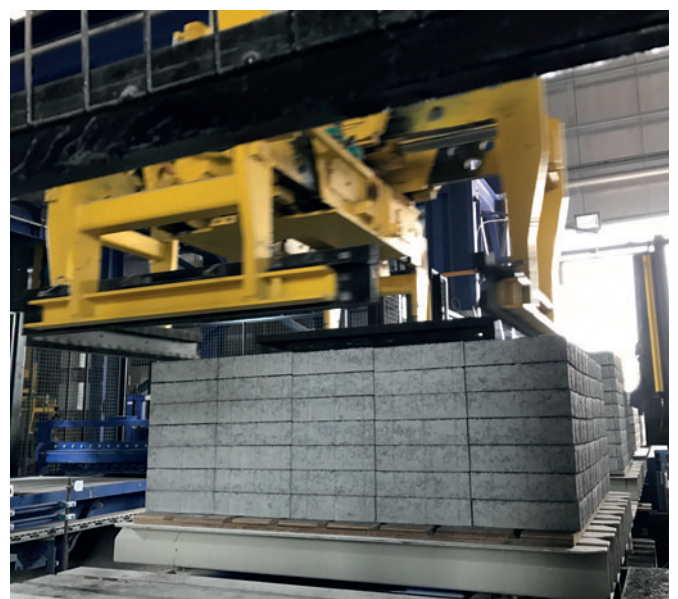
PLC (programmable logic control) systems (including fieldbus) and computers in case of power failure.

Long-term partnership pays off

The long-term business partnership of Transgulf and Masa pays off again and proved to be an advantage. During the entire planning period the communication between both companies was extremely positive. For example, there was an open discussion about the installation of a multi-color system for the future. The result is that the plant is now already designed for a plant expansion to produce colored products. The first from Transgulf preferred single-buffer for production pallets was later revised and a Masa proven solution was installed. It goes without saying that Masa supports the company Transgulf during the complete assembly. The integration of the process control for an external color dosing runs without problems.



High-quality concrete blocks require a sensitive handling



*With the Masa Cuboter complete block layers
will be assembled to a stone cube*



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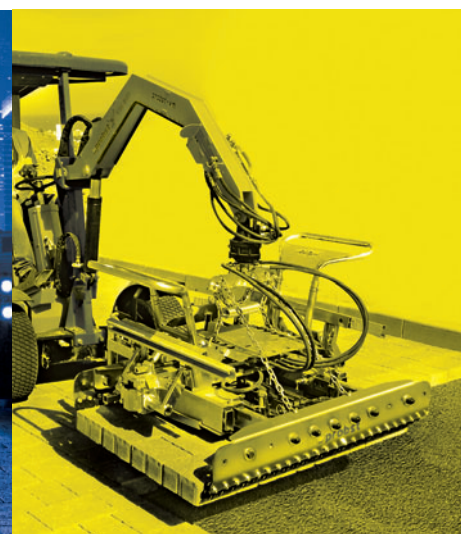
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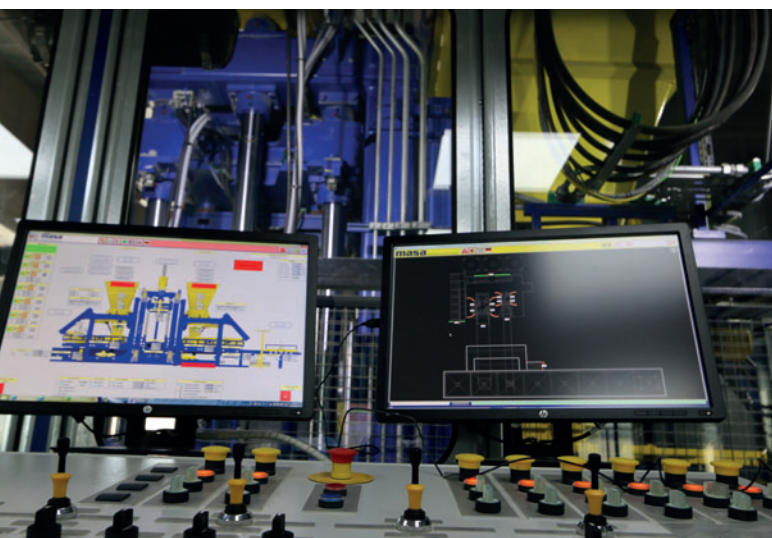
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Masa Fast: A modular plant control software for uniform operation and visualization of the plant components

Subsequent layout modifications in the package transport area were implemented flexibly. All participants benefited from the close contact during the whole assembly phase: The Masa subsidiary in Dubai (Masa Middle East) sent high qualified technicians and a smooth installation and commissioning of the new plant has been completed successfully.

"We are very satisfied with the project progress and today we are able to increase substantially our production capacities", said an enthusiastic Managing Director and company owner Mr. Masood Mohammad Hassan Pour after a successful commissioning of the plant. "Two values lie at the heart of Transgulf's operations in the UAE: Exceptional customer service and constant innovation. With Masa we have a decade long partner by our side, who understand our two founding principles, which have guided us from the beginning. This is our common key to success."

About Transgulf

Founded in 1996, Transgulf Cement Products is today one of the leading suppliers of concrete products in the GCC region.

At the beginning concrete products were produced with mobile Egg layers, but Transgulf acknowledges in the middle of the 2000s the wish for high-quality products.

With the purchase of the first fully automatic Masa concrete block making machine, Transgulf successfully switched to a stationary production. From this moment Transgulf offers their customers for more than one-decade quality products for every demand.

The wide range of concrete products include in addition to colored and finished paving stones, curbstones in different forms, hollow blocks and insulated blocks.

Equipped with an own research and development department, Transgulf's experts are committed to develop new innovative solution which can be matched to the customer needs. ■



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