

Masa GmbH, 56626 Andernach, Germany

Conbloc Internusa from Indonesia goes for a fully automatic concrete block production

Since the early 1970s Conbloc Internusa from produces a complete range of high quality paving stones, this and almost 50 years of experience in today's Indonesian market makes Conbloc Internusa the leader in the paving stone industry. For the opening up of new markets, Conbloc Internusa commissioned Masa GmbH, Andernach for the building of a new plant, which will be located on the world biggest insular state. Because of its decades of experiences, Masa GmbH has the best knowhow regarding planning, manufacturing and assembling of concrete block making plants along with customer support in the operation of Masa equipment to manufacture high-quality products.

Conbloc Internusa has, since 1975, been a pioneer in the paving stone industry on the Indonesian market. It was the first Indonesian company who started the production of paving stones using only German machineries and developed the market position further through a versatile range of high-quality products.

This Asian company, with its head office located in the Indonesian capital, Jakarta, stands for "quality and service" and considers it to their duty to produce consistently the highest quality premium products. "Conbloc" has since become generic name for paving stones in Indonesia.

110 years of experience assures – Contract conclusion during Bauma 2013

For 110 years Masa has been producing and developing machines and plants for the building materials industry making it one of the worldwide leading manufactur-

ers. It offers complete turnkey plants, from a single source. Individual plant components, such as mixing- and dosing plants, concrete block making machines and also refinement plants, are only some examples out of masa's product portfolio.

Because of all these advantages, Masa could easily demonstrate to Conbloc Internusa Management the benefits to place the order with them. During Bauma 2013 in Munich a new relationship was born and the contract was signed, so that Masa could start with the planning, supplying and assembling immediately at the conclusion of Bauma.

Modern block making- and mixing technique out of one hand

With this Masa plant Conbloc Internusa is specialized to produce high quality paving stones and sets high requirements on the block production.

Here are some of the specifications:

- The produced concrete paving stones have to be of consistently high quality standards and comply with all the relevant European as well as British and Australian standards.
- The products are manufactured in different kind of shapes, heights and colors.
- Cycle times and the time for mould changing have to be short, to sustain high efficiency in addition to high flexibility.

To offer the highest level of concrete quality from the beginning and to satisfy the customer demands, a Masa dosing- and mixing plant was installed. Accurate dosing of raw materials is critical, which is managed by pneumatic dosing flaps. A charging scale weighs the material, which is forwarded through the mixer hoists to the main mix and face fix. The mixing plant consists



Hand shake on the new partnership between the two companies. From left to right: Frank W. Reschke, (Masa Sales Director and Member of the Management Board), Anton Sunarcia (CEO Conbloc Internusa), Olga Vercammen (Co-owner Masa GmbH).



The new plant is located about 100 kilometers SE of Jakarta



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Masa covers the complete range of machinery and ancillary equipment for the building materials industry: Batching and Mixing, Concrete Blocks/Pavers, Kerbstones, Concrete Slabs, Sand Lime Bricks and Aerated Concrete (AAC).

All technical solutions are individually planned, designed, adapted and realised for each customer, resulting in one supplier and one individual contact person.

Masa GmbH
Masa-Str. 2
56626 Andernach
Germany
Phone +49 2632 9292 0
Service Hotline +49 2632 9292 88

Masa GmbH
Werk Porta Westfalica
Osterkamp 2
32457 Porta Westfalica
Germany
Phone +49 5731 680 0

Masa Concrete Plants India Pvt. Ltd.
#5B, KIADB, Bommasandra Ind. Area
Attibele, Bangalore 560 099
India
Phone +91 80 2628 3888
Mail info@masa-india.com

info@masa-group.com
service@masa-group.com
www.masa-group.com

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Delivery of the Masa concrete block making machine XL 9.1



Installation of the new curing racks



Fresh paving stones are leaving the block making machine XL 9.1



Masa FAST plant control

of two Masa compulsory mixers model "PH". The raw materials for the main mix are mixed with the Masa mixer PH 1500/2250 with a dry filling quantity of 2250 liters, while the Masa mixer PH 500/750 has a dry filling quantity of 750 liters and prepares the raw materials for the face mix.

Through a double bucket conveyor the mixed concrete arrives to the heart of the new plant, the concrete block making machine Masa XL 9.1. The product specific demands such as different moulds, alternate product heights, etc., are fulfilled by means of the technically sophisticated Masa concrete block making machine. Equipped with a multi-color device, allows the production of concrete stones with individual face mix colors.

The XL version is the top model of the modern Masa concrete block making machines and stands out due to a high automation level and a resultant high efficiency. With the XL version an effective and exact height production of all kinds of concrete blocks is the predictive result. A short cycle time is only one fulfilled demand of Conbloc Internusa. The modular plant control software Masa FAST (Factory Automation Service Tools) with a product- and operating data collection completes the total package.

Air-conditioned curing rack plant, due to sophisticated ventilation system

On 1400 x 1100 mm steel pallets the wet products will be cured in the curing rack plant, in which more than 5.200 pallets can

be stored. The loading of the curing racks is fulfilled by means of a fully automatic finger car. For the optimal curing a ventilation system is utilized. It consists of 18 ventilators, 32 nozzles, 4 temperature- and moisture sensors, as well as 6 ventilation flaps. The Masa control regulates the temperature and moisture inside the chamber.

Transport and cubing

At the end of the production process each concrete block has to be ready for delivery. Masa provides complete handling systems for the dry side. With the Masa Cuboter the concrete blocks are pushed to layers and then placed onto the pallets. The Masa Cuboter is a rotating clamping device, electrically powered with four sided servo clamping. Before leaving the production



View onto the new Masa PH 1500/2250 and onto the double bucket conveyor



Masa Cuboter in operation

site the stone packages are strapped horizontally and vertically for outside storage.

Great challenge caused by local environmental problems – Stabilization of the building ground by means of concrete piles

The putting into operation of the new Indonesian plant was originally planned for January 2014, while the installation- and assembly works were to begin in October 2013.

Due to local environmental/land conditions, the planned commissioning had to be postponed, due to foundation problems at the plant building site. Because of heavy rainfalls, the soil/ground conditions of the sloping land site was compromised which required stabilization by concrete piles anchored deep into the ground. This unexpected additional work caused a delay of six months.

“The new project schedule was a particular challenge for both parties. From the logistical point of view the situation required good cooperation and great flexibility on both sides. Finally we did it together. “, reports Rudolf Buyna, Masa Area Sales Director Southeast Asia.

“Looking back, the collaboration with Conbloc Internusa proceeded quite smoothly. The employees have analysed the situation and they acted promptly. Conbloc Internusa is a strong partner.”

The end resulted in a high level of satisfaction by Conbloc Internusa is also very high. “Despite the delays, we completed the new plant in October 2014. We were able to keep all our delivery dates and to serve the market on time. It was the right decision to build the new plant with Masa.” concluded Anton Sunarcia, CEO of Conbloc Internusa.



Stabilization of the building soil by using concrete piles.



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FURTHER INFORMATION



PT. CONBLOC INTERNUSA
 Jl. Kedoya Angsana Raya Blok 2/2
 Kedoya, Jakarta 11520, Indonesia
 T+62 21 580 3043, F +62 21 580 4855
info@conbloc.com, www.conbloc.com



Masa GmbH
 Masa-SträBe 2, 56626 Andernach, Germany
 T +49 2632 92920, F +49 2632 929211
info@masa-group.com, www.masa-group.com