

SR Schindler Maschinen-Anlagentechnik GmbH, 93057 Regensburg, Germany

Ink-jet printer for concrete panels

In the context of a three-day in-house trade fair from 14 to 16 July 2015, SR-Schindler (Topwerk Group) presented both proven machines and new developments. Particular interest was shown in a new universal print-coating line for concrete pavers and panels, with which any desired motifs, whether pictures, logos or text, can be printed on concrete products – almost as simply as printing on paper with a PC at home.



Presentation of the universal print-coating line for concrete pavers and panels during the in-house trade fair at SR-Schindler



Printed panels before sealing

The concrete panels pass through several stations in the new line before a bare concrete panel becomes a durable motif panel. First of all the panels are cleaned with a brush before being sprayed with a primer in preparation for printing. Infrared heating ensures fast drying of the primer. Only then do the panels drive into the printing station.

The ink-jet printer developed by CTG Print Tec GmbH from Alsdorf forms the heart of the line. Panels and pavers can be printed with UV-resistant inks using the printer. It is not necessary to use white cement so that the concrete products have the brightest possible surface; the system can also print on normal grey materials.

Technical data

- Colour printer (ink-jet printer) with max. 6 print heads per colour for a total of 4 colours.
- Print heads are automatically adjustable in height
- Print head width 72 - 420 mm (designed according to the expected throughput).
- Designed for 3 printing modes (simple print, quality print 2, quality print 4)
- Max. printing area 1,200 x 1,200 mm
- Throughput depends on print head width: max. approx. 190 m²/hr with simple print and a print head width of 420 mm

- Fast changing of the print motifs is possible by software change

Following the printing process the panels are sealed in a further station and the seal is directly dried by infrared heat. This is followed by the UV hardening. Thanks to the coating with the special lacquer and the appropriate post-treatment, the surfaces are then resistant to abrasion.

The system can also create 3D visuals. Also, several printed panels can be assembled to form motifs in order to obtain a large complete image - this is of interest for façade printing, which is similarly possible. The finished panels are easy to clean, since they are smooth and coated.

The ink-jet printer can also be integrated into existing coating plants.

Conversion kit for thin single-layer panels

A further new item on show was the conversion kit from SR-Schindler for the manufacture of thin single-layer panels on existing hermetic presses.

Depending on the format, the conversion kit enables the manufacture of products with thicknesses of just 15 to 25 mm for indoor and outdoor use. These products are particularly suitable for low construction heights, such as in the case of roof patios and balconies or also façades.

Further new products from SR-Schindler are a block-step/kerbstone processing unit, the development of diffusion-permeable packaging films, a new retaining system for façade panels and new form liner surfaces and formats. ■

FURTHER INFORMATION



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