

PRESS RELEASE
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A NEW SOURCE OF CREATION FOR PAPER



COLUMNS MADE OF 3D-PRINT PAPER: PAPER AS A SOURCE OF CREATION

One of the most stunning pieces of architecture in the Expo 2017 world exhibition in Astana, Kazakhstan, (*“Artists and Robots” Pavilion, from June 10th to September 17th*) that premiered in early June includes four incredible 9-foot-high columns. Architect and programmer Michael Hansmeyer has worked with Maison LACK to implement a new 3D printing process to produce the Astana Columns using paper exclusively.

The limitless design possibilities offered by Maison LACK’s new 3D modelling process have prompted Michael Hansmeyer to use it to produce those four huge columns, whose details and refined features are truly spectacular. Our technology has enabled him to rapidly produce super complex shapes and geometry that would have been impossible to obtain otherwise.

20,000 different cuts

Starting from a 3D le created by algorithms Michael Hansmeyer had program- med, each 9-foot-high column was divided into 5,000 different numbered layers (sheets of 600g recycled paper).

A total of no less than 20,000 sheets, all of them different, were churned out by Maison LACK’s Highcon Euclid II press, then carefully peeled one after the other before being scooped out and stacked on 40 wooden pedestals for transport. The final assembly was done once in Astana to give birth to these architectural artifacts.

The world of paper 3D modelling is becoming easily accessible

The four Astana columns herald a new approach for designers. Thanks to laser cutting, the refinement of the 100% paper details is astounding. Using paper this way at last enables the quick creation of surprising and detailed pieces of art that are loaded with emotion.





Design : Michael Hansmeyer

Production : Maison LACK by DLW

Ordering Institution : RMNGP - *Réunion des Musées Nationaux Grand Palais*



Technical Characteristics

- Four 9-foot-high columns
- 20,000 cut and numbered sheets varying from 30 to 75 centimetres in diameter
- 600g recyclable cardboard paper
- 100% made in France, produced at Maison LACK 91350 Grigny
- Peeling and assembly performed manually
- Technique: Highcon Euclid II press and Variable Data Cutting

Depending on the complexity of the design, the cutting speed is 300 sheets per hour on average.

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About Michael Hansmeyer:

Both an architect and a programmer, Michael Hansmeyer explores algorithms to generate and build architectural shapes. Among his recent projects are Platonic Objects and Sixth Order at the Gwangju Design Biennale, South Korea, and the design and fabrication of Grotto I (at the Orléans FRAC Centre and Grotto II at Centre Pompidou in Paris.

About Maison LACK:

Born in 2014 from technological advances, Maison LACK pretty soon showed its uniqueness. Maison LACK is in a class of its own, having specialized in the digital cutting and embellishment of high value-added creative works. DLW, its parent company, was set up in 1974, is located in Paris and specializes in prototype packaging

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