



Quality inspection at Amorim (Copyright: Amorim)

## AMORIM COUNTS ON HYMMEN TECHNOLOGY FOR FLOORING PRODUCTION

Dr Anke Pankoke, Head of Marketing and PR at Hymmen GmbH Maschinen und Anlagenbau, outlines the process of implementing the company's state-of-the-art technology for Amorim Cork Flooring's new production line at its site in Porto, Portugal

Amorim Cork Flooring is a market leader in the production of versatile, high-quality cork flooring and wall decorations. The company's products offer undeniable sustainability credentials and are suitable for any residential, commercial or business project. With the aim of economically optimising the production of sustainable, high-quality cork flooring, Amorim commissioned a new production line at its site in Porto, Portugal in 2023. Amorim's long-standing partner, Hymmen GmbH Maschinen und Anlagenbau – located in Bielefeld, Germany – provided the production line's entire system technology. At the heart of the production is the JUPITER Digital Printing line for decorative printing and the Digital Lacquer Embossing (DLEplus) for digital-structure printing.

### DIGITAL-PRINTING TECHNOLOGY FOR FLOORING

Digital printing continues to play a crucial role in the future of flooring, as it enables unlimited design flexibility and can be applied

to a wide range of materials. This facilitates faster response times to market demands and trends, while reducing material waste. The combination of reduced process costs and market differentiation is driving the significance of digital-printing technology within flooring production.

### A PATENTED PARTNERSHIP

Hymmen has invented and patented innovative technologies for flooring production and digital decoration. To ensure that customers

**"At the heart of the production is the JUPITER Digital Printing line and the Digital Lacquer Embossing (DLEplus) technology"**

have access to innovative, digital-printing technologies, Hymmen and i4F have entered an exclusive patent partnership to promote and develop this strong, digital-printing intellectual property (IP) portfolio. This includes Hymmen's award-winning DLE technology which offers unprecedented levels of highly

realistic optics and haptics. i4F sells licenses to companies that wish to use patented technology.

### JUPITER JPT-C

Amorim has installed Hymmen's Jupiter JPT-C digital, single-pass machine – a print-to-board line that delivers outstanding advanced features. The machine is designed for constant industrial production and includes a high-precision continuous substrate conveyor of maximum register accuracy. It can achieve

printing speeds of 25–50m/min and an optical resolution of >1,000dpi, while maintaining optimum colour stability and print quality.

The Jupiter line features the DLE technology, creating structures that are embossed-in-register (EIR) to the decor of the surface. This technology grants all the



High-end flooring surfaces produced by Amorim (Copyright Amorim)

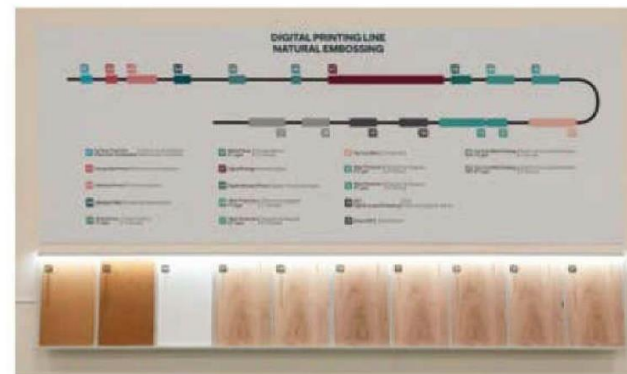
**"The team at Amorim are delighted with the co-operation and commitment of both companies"**

commercial and technical benefits of digital, single-pass printing, including flexibility, fast set-up times and individualisation. The digital structuring supports the surface performance. In addition, all features such as hardness, bonding, scratch resistance and chemical reliability of the core lacquer remain.

### ADVANCED PRODUCTION WITH HYMMEN AT AMORIM

In autumn 2023, the Hymmen JUPITER Digital Printing and DLEplus systems were successfully commissioned at Amorim.

Within the highly ambitious timeline, the first digitally printed cork flooring was introduced to the market in January 2024. The team at Amorim are delighted with the co-operation and commitment of both companies who have made this ambitious project a success.



Overview of the steps of the production process at Amorim (Copyright: Amorim)



The Hymmen technology – Digital Lacquer Embossing (DLEplus) – details of the production process at Amorim (Copyright Amorim)

"We are very happy to have chosen Hymmen as technology partner for our cork flooring production. The professional project management from both teams allowed us to implement this new line within an ambitious

**"The digital structuring supports the surface performance"**

timeframe," Fernando Melo, CEO of Amorim Cork Flooring, comments. He goes on to say, "We are sure that this state-of-the-art technology will keep us a step ahead in the market."

Dr René Pankoke, partner and CEO of Hymmen adds, "Thanks to the positive co-operation with our customers' team, we are very pleased to once again have a showcase project that sets a good example for future plant projects" ■

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