

Digital printing technology for flooring

Digital printing continues to play a crucial role in the future of flooring as it can enable design flexibility and can be applied to a range of materials, thus facilitating faster response times to market demands and trends while reducing material waste and process costs.



JUPITER JPT-C: DIGITAL SINGLE-PASS PRINTING FOR FLOORING

The ability to produce high-quality digitally printed flooring has become strategically important for the future of the global flooring industry. As such, Hymmen has invented and patented innovative technologies for the production and digital decoration of flooring.

From board feeding over primer, base colour, digital printing, top coating to stacking of the boards, Hymmen offers panel-based technology that offers the commercial and technical benefits of digital single-pass printing, including flexibility, short changeover times and individualisation of decors. Furthermore, the company offers solutions for both analogue and digital structuring, delivering embossed in-register textures with the Digital Lacquer Embossing (DLE) technology by Hymmen.

The Hymmen digital printing solutions for the flooring industry aims to cover individual customers' capacity needs and individual production processes. For instance, Hymmen offers a series of different line models JUPITER JPT-C, that caters to common production widths, from a single plank line of 1,400mm up to large-scale production of 2,100mm boards.

Additionally, Hymmen is able to realise complete production lines with a single-source supply, including intelligent handling systems for feeding and stacking of planks or boards. The JUPITER JPT-C print-to-board lines provide the following features: design for 24/7 industrial production; high-precision continuous substrate conveyor for maximum register accuracy; printing speeds of 25-50m/min; Xaar side-shooter printhead technology with an optical resolution of more than 1,000 dots

- 1 Hymmen delivers complete lines for the digital printing of decor and structure
- 2 The JUPITER JPT-C digital printer
- 3 The JUPITER JPT-C covers width of 1,400mm up to large scale production of 2,100mm boards
- 4 The high-precision continuous substrate conveyor for maximum register accuracy



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per inch (DPI) by greyscale technology; intelligent mechanical and optical adjustment features for each printhead to try and ensure the highest possible colour stability and print quality; and finally, stable printing process due to automatic cleaning and extraction functionality.

STRONG TECHNOLOGIES BY PATENT PARTNERSHIP

To ensure that customers have access to the latest digital printing technologies, Hymmen and i4F have entered into an exclusive patent partnership to promote and develop a strong digital printing IP portfolio.

Specifically, this new partnership gives i4F exclusive licensing rights for all Hymmen’s digital printing patents and technologies for flooring production, including Hymmen’s DLE technology.

i4F is a group of companies providing patents and technologies dedicated to delivering optimal technologies to the global flooring industry, backed by what is said to be a robust patent protection infrastructure. i4F’s patent cluster concept (PCC) is a ‘pick-and-choose’ patent menu that reportedly offers licensees transparency and flexibility. One such cluster is dedicated to digital printing technologies. **WIA**



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