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Screen's Flexodot 4800 sets new standards in flexo to rival offset

Screen has announced the release of Flexodot 4800, its new halftone dot for the flexo and letterpress industries, which fully exploits Screen's 4,800 dpi resolution imaging technology and can produce gradations as smooth as those achieved by offset litho printing at 200 lpi.

Flexodot 4800 can be utilised by both the PlateRite FX870II and PlateRite FX1524 thermal CTP platesetters for the flexo and letterpress sectors. These models feature a newly developed, high power imaging head and an auto-balancing function that ensures the stable rotation of the drum, which enable them to provide high-quality imaging while maintaining superior productivity.

With Flexodot 4800 it is possible to create extremely small, precise halftone dots that are suitable for output at high resolutions up to 4,800 dpi, given the right printing environment. These remarkably small dots produce smooth, natural-looking gradations, even in the extreme highlight areas. The dots are significantly smaller than those used in 2,400 dpi production and have a reinforcement pattern for those halftone dots that form the base of the image that stabilizes the relief structure in the highlight areas. Therefore Flexodot 4800 gradations are comparable to those produced in offset, while maintaining the superior density that is expected from flexo printing.

Another advantage of this technology is that increased resolution of Flexodot 4800 significantly improves the smoothness of curves and diagonals, vastly reducing the jagginess associated with flexo printing.

The addition of Flexodot 4800 to its flexo and letterpress portfolio emphasises Screen's commitment to this market sector, ensuring that it continues to meet the increasingly varied requirements of its users as it aims to take its place as a leading manufacturer of prepress and printing equipment for the flexo and letterpress industries.

PlateRite FX1524

The PlateRite FX1524 is high-quality, easy to use, reliable CTP recorders that offers optimal flexo/letterpress plate output. Users can image the black mask layer of resin plates directly, thereby eliminating the need for film and other intermediate processing, resulting in more efficient operations, as well as more consistent output quality. The PlateRite FX1524's superior halftone dot reproduction ensures consistently high quality printing even in the highlight and shadow areas. It is designed for a wide range of uses, including the production of labels, flexible packaging, cartons, and corrugated packaging. Plates up to 1,067 x 1,524 mm (42.0" × 60.0") can be loaded onto the drum with ease, ensuring high-precision, high-quality output of resin plates.

PlateRite FX870/FX870II

The PlateRite FX870 was designed to provide productivity in every aspect of the CTP process, from plate mounting to exposure. At the maximum exposure size of 850 mm x 735 mm (33.4" x 28.9"), a letterpress plate takes just 17.7 minutes and a flexo plate 43.8 minutes, depending on the type of media. The elimination of intermediate production steps involving film also frees the operator from time-consuming tasks such as preparing the film, step and repeat operations, and imposition work. By reducing the steps required before printing, the PlateRite FX870 helps increase efficiency and therefore productivity.

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