

SCREEN Develops High-speed, Water-based Inkjet System for Flexible Packaging

Kyoto, Japan – May 20, 2020 (Revised on July 7, 2020) – SCREEN Graphic Solutions Co., Ltd. (SCREEN GA) has finalized development of its FL830 (tentative naming), a new high-speed, water-based inkjet system specifically designed for the flexible packaging market. The FL830 (tentative naming) is currently scheduled for release around March 2021.



FL830 (tentative naming)



Samples printed using the FL830 (tentative naming)

Please download the photos from www.screen.co.jp/en/about/nr-photo_2020

In recent years, the packaging industry has seen a significant expansion in its ongoing changeover from hard packaging such as cans and glass containers to flexible packaging, which offers both superior lightness and functionality. Within the printing industry, the flexible packaging segment is likewise being affected by continuing changes in consumer lifestyles and diversification of marketing techniques. These trends are driving a growing requirement for diversified, small lot printing capabilities with shorter turnaround times and greater personalization.

As a result of these needs, printing companies have started to introduce digital systems in some areas. However, limitations on factors such as productivity, stability and processing have so far seen their use confined to mainly promotional applications. This shortfall has led to growing calls from industry participants for digital systems that are able to deliver both high quality and rapid throughput for full-scale production applications.

In response to these trends, SCREEN GA has been working in conjunction with SCREEN Holdings to develop the FL830 (tentative naming). This new high-speed, water-based inkjet printing system is specially designed for flexible packaging and can handle media up to 830 millimeters wide at industry-leading speeds for Drop on Demand Inkjet technology of up to 75 meters per minute at a resolution of 1,200 dpi x 1,200 dpi. It is also capable of printing at a resolution of 1,200 dpi using CMYK and white water-based inks that conform to relevant food

safety regulations. These features allow it to deliver both the excellent safety and rich color expression that is essential for the food products industry.

Thanks to its outstanding quality and productivity, the FL830 (tentative naming) is able to meet a wide variety of print needs, ranging from promotional to production applications. It also demonstrates exceptional responsiveness for small lot jobs of less than 4,000 meters, an area that can be problematic for conventional analog production. At present, the system handles both PET and OPP media and SCREEN GA is working to further expand compatibility based on industry requirements.

SCREEN GA intends to continue its development of proprietary products and solutions specifically created for the package printing field. Through these efforts, the company hopes to meet evolving market needs while also contributing to the overall growth of this segment.

Note: The specifications and exterior appearance of the system relate to a development model. They are subject to ongoing improvements.

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For more information about FL830 (tentative naming): www.screen.co.jp/ga/en/product/category/flexiblepack-ij/pacjet-fl830