

## Truepress PAC 830F



## A Bright Future For Flexible Package Printing

Single-pass Water Based Inkjet Digital  
Printing for Flexible Packaging

# Market Trends in Flexible Packaging

The dynamic flexible packaging industry is undergoing a rapid transformation, with brand owners now seeking faster delivery, enhanced product diversification, and personalised messaging without compromising brand identity and print quality.

## Challenges Faced by the Flexible Packaging Industry

### Sustainable Printing Solutions

As consumer attitudes and regulations shift towards ethical and sustainable practices, the flexible packaging industry seeks environmentally friendly printing options. Water-based inks offer a promising solution to reduce the environmental impact.

### Customisation and Versioning

The industry now requires a greater level of packaging customisation and versioning, enabling brands to target specific customer segments effectively. Conventional printing methods cannot provide this level of flexibility at market speed.

### Short-Run Printing

Low volume quantities of printed packaging films are now ordered more frequently. Conventional printing processes struggle to cope with short-run printing demands, leading to increased costs and production inefficiencies.

### Shorter lead times and Greater Product Diversification

Brand owners demand quick turnarounds and a wider range of product variations (SKUs) to keep up with ever-changing market dynamics. Traditional analogue printing methods struggle to meet these requirements efficiently.

## Market Drivers in Printing



# Enabling The Transition From Analogue To Digital Printing In Flexible Packaging

SCREEN introduces the Truepress PAC830F, a new single-pass industrial inkjet digital printing press that complements existing analogue printing processes while providing total flexibility to your operations. This agile, cost-effective press allows you to capitalise on emerging trends in flexible packaging, boosting profitability in short-runs.

- ✓ Maximise Press Capacity Efficiency
- ✓ 100% Inkjet Digital Printing Engine
- ✓ Reliable and Stable Process Performance
- ✓ Water-based Food Compliant inks

## Benefits of Digital Printing in Flexible Packaging Production

### Speed and Agility

- Faster job turnaround times: think days, not weeks
- Rapid market response time with greater accuracy
- Production of urgent jobs with No tooling charges

### Flexibility

- Wider product design options and frequent artwork changes
- Print small and medium volume orders with no MOQs
- Printing technology interchangeability with indistinguishable print quality

### Sustainability

- Enable the production of recyclable packaging structures
- Drastic waste reduction improving your sustainability
- Low environmental impact printing

### Operational efficiency

- Print cost-effectively short-run jobs and improve quality control
- Increased capacity utilisation in existing analogue printing presses
- Reduction in stock levels, capital tie-up and obsolete inventory

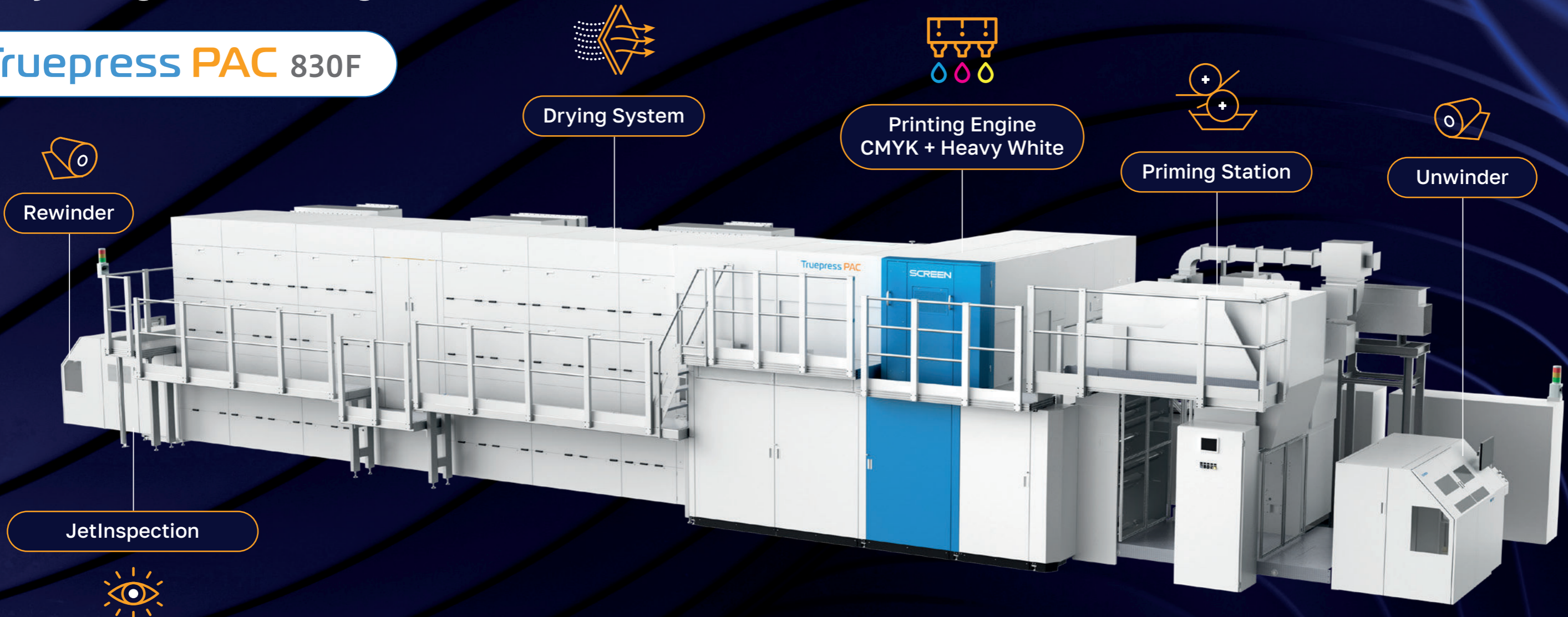
### Drives value

- Print-on-demand as a service differentiator to your customers
- Create new business models and value-added solution
- Endless opportunities in packaging personalisation and market segmentation



# Innovations For High Productivity Inkjet Digital Printing

## Truepress PAC 830F



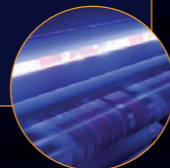
### Specifications **CMYK + Heavy White (Digital)**

Speed: 75m/min	Printing width: 470-800mm
PET & BOPP Films*	Piezo Inkjet Print Heads
Reverse Printing	1200 x 1200 dpi
Water-based Inks	Drying: Hot Air

\* MDO-PE & BOPE films under development

### JetInspection

Built-in image capture ensures comprehensive, real-time image inspection, alerting operators to defects during full web inspection using a sensitive in-line sensor.



### Drying Technology

Energy-efficient hot-air drying system delivers gentle and consistent ink drying, even at high ink coverages. Its unique web path design prevents inter-colour bleeding, ensuring high image quality..



### Precise Web Handling

Superb web transport system for thin and heat-sensitive materials, featuring smart rollers with intelligent tension control for wrinkle prevention and printing process.



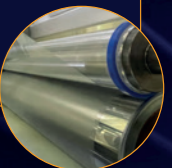
### Dynamic Nozzle Shift

SCREEN's proprietary Dynamic Nozzle Shift (DNS) system allows the detection of web wander and performs real-time calculations and adjustments to print position based on the movement.



### Priming Station

An in-line water-based primer is applied to the substrate prior to entering the inkjet digital printing engine to smooth over surface imperfections and enhance ink adhesion.



## High Quality Printing

The Truepress PAC830F incorporates an advanced stochastic screening tool that enables printing high-definition images while effectively eliminating undesired defects like “moire” or “rattle” through its high-resolution 1200 dpi printheads. High quality printing is achieved due to the precise non-contact ink deposition process of its piezo drop-on-demand printheads with variable drop size. This translates into extremely accurate dot placement to deliver fine details and smooth gradients to zero.

A specially developed Heavy Digital White ink delivers the required white optical density for solid coverage on transparent films achieving high opacity levels comparable to analogue printing.

Colour consistency throughout the entire run is achieved thanks to a complex but very carefully controlled combination of parameters: precise inkjet printhead control, constant and stable ink supply, consistent ink jetting and printhead waveform optimisation.



## Sustainability



## Variable Data Printing\*

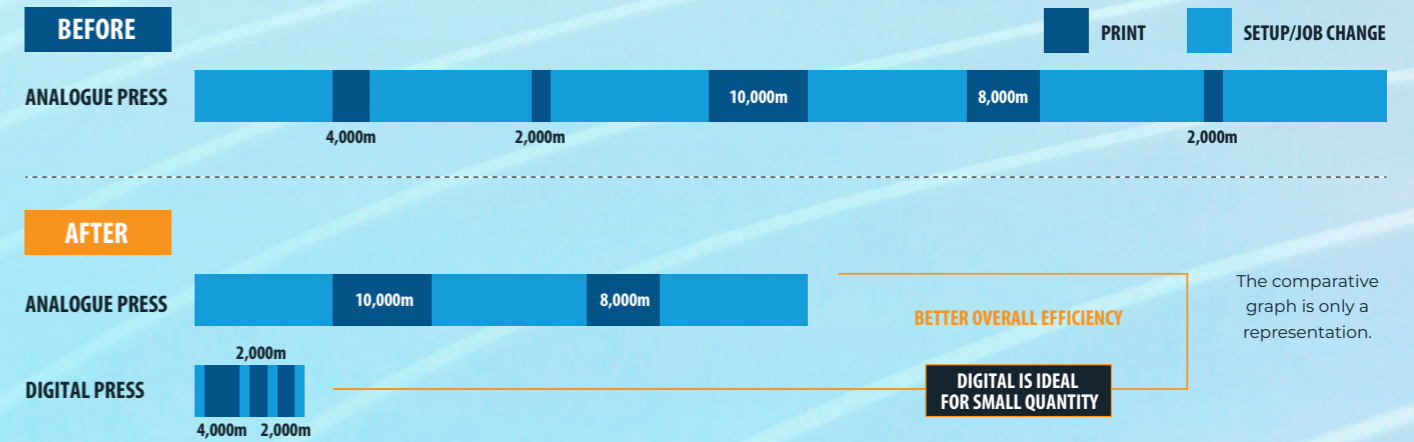
Digital printing empowers brand owners' creativity and personalisation in packaging. EQUIOS offers a robust variable data processing function that enables high-speed RIP processing of variable elements like numbering, barcodes, QR codes, enhancing shelf appeal, captivating designs and customer engagement

\*Currently Under Development



## Profit Opportunity

The Truepress PAC830F digital press has been specifically designed to produce short printing runs in a cost-effective manner at 75m/min and the ability to print many jobs per day. This digital printing unit would enable converters to relieve their analogue printing equipment from the time-consuming task of producing small jobs and open a window of business opportunities for product innovation, value-added applications and take on new jobs that could not have been profitable in analogue printing.



## EQUIOS Workflow: Advanced Colour Matching Expertise

EQUIOS, a universal workflow system, powered by Adobe's PDF print engine, guarantees high-speed processing. It features an advanced substrate-linked colour management system, ensuring precise colour matching for perfect repeatability. EQUIOS leverages standard job colours as references, facilitating precise colour adjustments. The Spot Colour matching tool simplifies spot colour selection and matching. Its sophisticated colour automation algorithms maintain brand colour consistency and uniformity throughout the print job.



# Truepress PAC 830F



## Truepress PAC830F Specifications

<b>Product Name</b>	Truepress PAC 830F
<b>Printing System</b>	Piezo Single-pass Inkjet Printing
<b>Market</b>	Flexible Packaging
<b>Resolution</b>	1200 x 1200 dpi
<b>Printing Speed</b>	75 m/min
<b>Colours</b>	CMYK + Heavy White
<b>Web Width</b>	830mm
<b>Printing Width</b>	470mm to 800mm
<b>Printhead</b>	Drop-on-Demand
<b>Substrates</b>	PET, BOPP
<b>Thickness range</b>	PET: 12µm-50µm, BOPP: 20µm-50µm
<b>Inks</b>	Water-based food compliant inks
<b>Ink tank capacity</b>	200 l
<b>Primer</b>	Water-based primer
<b>Controller</b>	EQUIOS Controller for PAC 830F
<b>Dimensions (L x W x H)</b>	20.7m x 6.7m x 3.5m
<b>Power Requirements</b>	Main unit: 3Φ400V (380~415) 100A Dryer unit: 3Φ400V (400~415) 125A Always supplying: 1Φ200V (200~240) 20A PC: 1Φ200V (200~240) 30A Ink supplying panel: 1Φ200V (200~240) 3A
<b>Operating Environments</b>	Temperature: 20~24Φ (no sudden temperature change) Humidity: 40~60% (no condensation)
<b>Drying System</b>	Hot-air

## TRUST Network Service

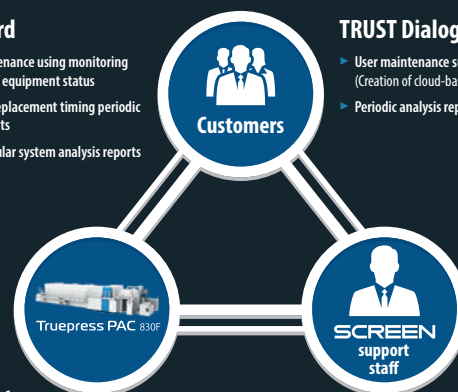
The Truepress PAC830F is covered by the TRUST Network Service which is a highly dependable solution for time-sensitive production lines. TRUST Network Service is a proprietary client support program provided by SCREEN to prevent unexpected machine stoppages. TRUST Network offers a full range of services including predictive maintenance, remote connectivity and fault diagnosis, powerful machine monitoring and reporting analytics.

### TRUST Guard

- ▶ Proactive maintenance using monitoring and diagnosis of equipment status
- ▶ Assessment of replacement timing periodic replacement parts
- ▶ Provision of regular system analysis reports

### TRUST Dialog

- ▶ User maintenance support (Creation of cloud-based client pages)
- ▶ Periodic analysis reports



### TRUST Assist

- ▶ Remote maintenance (Handling of software, setting parameter, operation errors)
- ▶ Analysis of problems, recovery (Remote diagnosis of hardware)

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