



**TRESU**



# TRESU Flexo Innovator

Unbeaten performance for single pass printing of packaging materials



## Industry benchmarking throughput

With a modular design, the inline multi-station TRESU Flexo Innovator offers unique opportunities for single pass HD printing of packaging materials – at the lowest cost to print and with the largest installed base of experience and know-how in the entire industry.

**Folding carton, paperboard and packaging materials**  
The TRESU Flexo Innovator is used for printing packaging and folding carton materials by some of the biggest converters in the world working with aseptic and liquid packaging, paper cups, plates and general folding carton where HD printing with speeds up to 800 m/min. and minimum downtime is required.

TRESU Flexo Innovator – still unbeaten:

- + Highest flexo printing speed
- + All key parts engineered by TRESU
- + TRESU Pressure Control Technology
- + TRESU VelociDryer – best drying
- + Modular service for best OEE
- + Largest installed base

= TRESU Flexo Innovator – still #1

## Packaging – too valuable to waste

Packaging has traditionally served three roles: protecting, promoting, and performing.

But the greatest challenge now relates to sustainability, which will become critical going forward as we see a shift towards paper-based packaging made from renewable and recyclable resources.

At TRESU we believe that winning in the new age of packaging requires being able to print more sustainably.

The very nature of flexo technology makes it ideal for more sustainable, single-pass high speed printing with water-based ink and recycled paper board materials – especially when combined with the industry’s most efficient drying technology – the TRESU VelociDryer technology.

### Recyclable, compostable or biodegradable

New ways of printing will become core deliverables going forward. Today we supply the most efficient drying technology in the industry enabling water-based ink and coating to dry faster at higher speeds – while recirculating the heat and using less energy overall.

Our ink- and coating supply systems together with our pressure control technology increase print quality – and at the same time can reduce waste significantly.

At TRESU we understand that sustainability and new ways of printing and coating will change customers’ value chains. We are ready to face these challenges and adapt our proven flexo technology solutions to the needs of customers’ future applications and today’s sustainability agenda - and at the same time move sustainable value to their bottom lines.

For packaging materials, the TRESU Flexo Innovator is the industry standard used for liquid packaging and paper board materials by some of the biggest converters in the world working with aseptic and liquid packaging, paper cups, paper board and folding carton materials

Typical configurations for this segment has up to 1.700 mm (67”) web width running at speeds up to 800 m/min (2.600 feet/min) printing and coating with WB, UV or EB.

Add to this a modular service concept targeting any part of OEE that customers wish to work with, and you have the picture of the #1 printing press in packaging and converting.

TRESU is a highly specialized company offering flexoprinting machines and ancillary products and concepts for flexo, digital and offset printing as well as customer service and technical support.

TRESU has 40 years of experience and expertise in the development, production and maintenance of engineered solutions and supplies directly to end-customers, OEMs and partners worldwide.

TRESU has production facilities in Denmark and sales companies in USA, Germany, Italy, Japan and China as well as an international agency network providing local support and know-how.

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**TRESU**

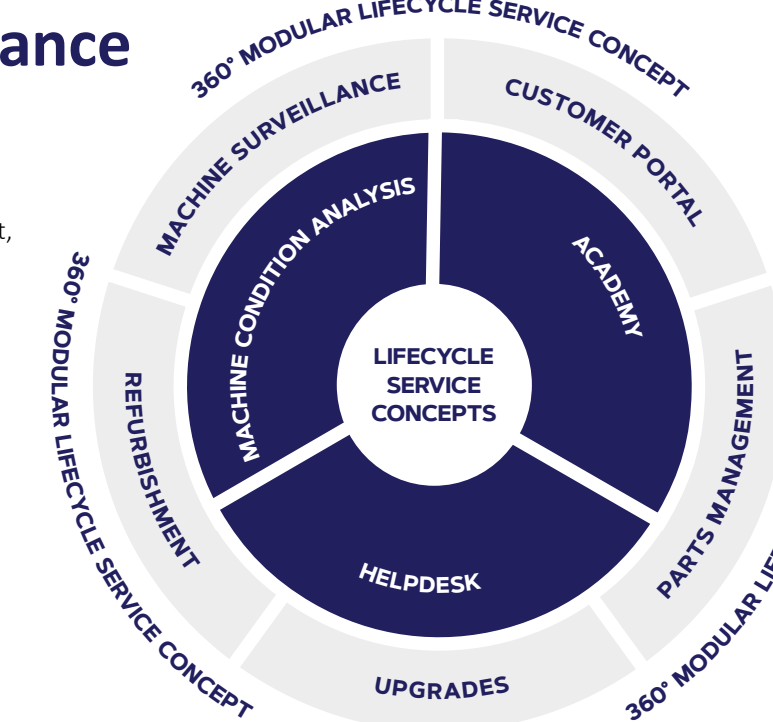
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## Extending Performance

In collaboration we identify, allocate, and properly manage risks, and ensure peak performance from your equipment.

Extending lifetime performance of your equipment, we offer solutions for every step of the journey and respond quickly to any issue.

Based on your requirements we put together a unique service agreement optimizing Overall Equipment Effectiveness – OEE – throughout the entire product lifecycle of your press.



## TRESU - Partnership Performance

Invest your trust in proven concepts and enter a performance partnership extending the lifetime of your press.

We have supplied proven flexo technology to industry leading brand owners, converters and OEM manufacturers all over the world for more than 40 years. Benefit from the know-how of the industry’s largest installed base of flexo

printing units. We continuously strive to upgrade them and extend their performance.

TRESU offers proven solutions for every step of the journey. For sure, this does not come in a box.

We call it Partnership Performance.

**VelociDryer - High-capacity unit-to-unit drying performance**  
High output with heavy laydown on paperboard. The hot-air drying system with integrated nozzle dryers achieves air speeds of up to up to 65 m/min (215 ft/min) – thus preventing web shrinking. Automatic regulations means that approximately up to 75% of the energy is recirculated.

**Optional UV, LED-UV and E-beam curing**  
Apart from hot air drying the TRESU Flexo Innovator can also integrate and handle UV curing and / or E-beam curing.

**Cooling**  
The efficient cooling system ensures an optimal web temperature.

**Full Electronic Drive**  
Each print unit is equipped with eight servo motors – for the anilox roller, the plate-, and the impression cylinder.

**Ergonomics**  
Easy walk-through access and great ergonomics for operators and maintenance staff when working around the printing units.

**Web and tension control**  
Accurate web and tension control system.

**Infeed**  
For web tension control.

**Unwinding**  
Automated Splicing for non-stop operation.

**Print side up**  
The web exits the press with print side up for easy cut and crease – no turnbar and less tension and waste.

**High production speed**  
Front and backside printing  
Security coating  
Inline cold foil solution  
Flexographic HD overprint  
WB, UV, EB coatings/inks.

**TRESU control system**  
Inspection and quality control.

**Front/back**  
Single pass front- and back side printing available.

**Register Control**  
Fully automatic traverse. Camera or optic based register control system with complete, automatic pre-setting ability.

**Plate and Anilox Rollers**  
Sturdy design with roller bearings on the operator side for easy change of plate and anilox rollers.

**Sleeve Change**  
Easy-to-operate system on all print and anilox rollers for fast job changes. Great ergonomic working conditions.

**IDP System**  
Ink Deck Positioning System for accurate settings and job memory.

**Print Management System**  
Easy-to-operate HMI-print management system with advanced visualization and operator interface located locally at each print unit.

**IMW**  
TRESU's world leading chamber doctor blade system for perfect doctoring at high speeds, and quick job changeovers.



## TECHNICAL SPECIFICATIONS

Web width, max.	670mm (26")	1.100mm (43")	1.400mm (55")	1.700mm (67")
Web width, min.	335mm (13")	550mm (21.6")	700mm (27.5")	850mm (33.5")
Repeat length, max.	1.066mm (42")			
Repeat length, min.	508mm (18.5")			
Production speed, max.	400, 600 or 800m/min (1,300, 2,625 or 1,968ft/min)			
Register print	Front: +/- 0,08mm (3 thousands) Front/back: +/- 0,25mm (10 thousands) (Sigma 1)			
Substrates	Uncoated/coated/metallized paper board4-30pt (60-600gsm)			
Unwinder	Flying splice with options			
Rewinder	Flying splice with options			
Backside printing	Optional			
Inline die-cutting	Optional: Platen or Rotary cut, perforation and crease			
Inks & Coatings	Water, solvent and UV			
Drying & curing	Hot-air, UV, LED-UV and E-Beam			



TRESU chamber doctor blade systems and proven doctor blades



TRESU ink and coating supply systems



## TRESU WEBSHOP

Genuine parts at your fingertips:

**We ship 24/7**

