



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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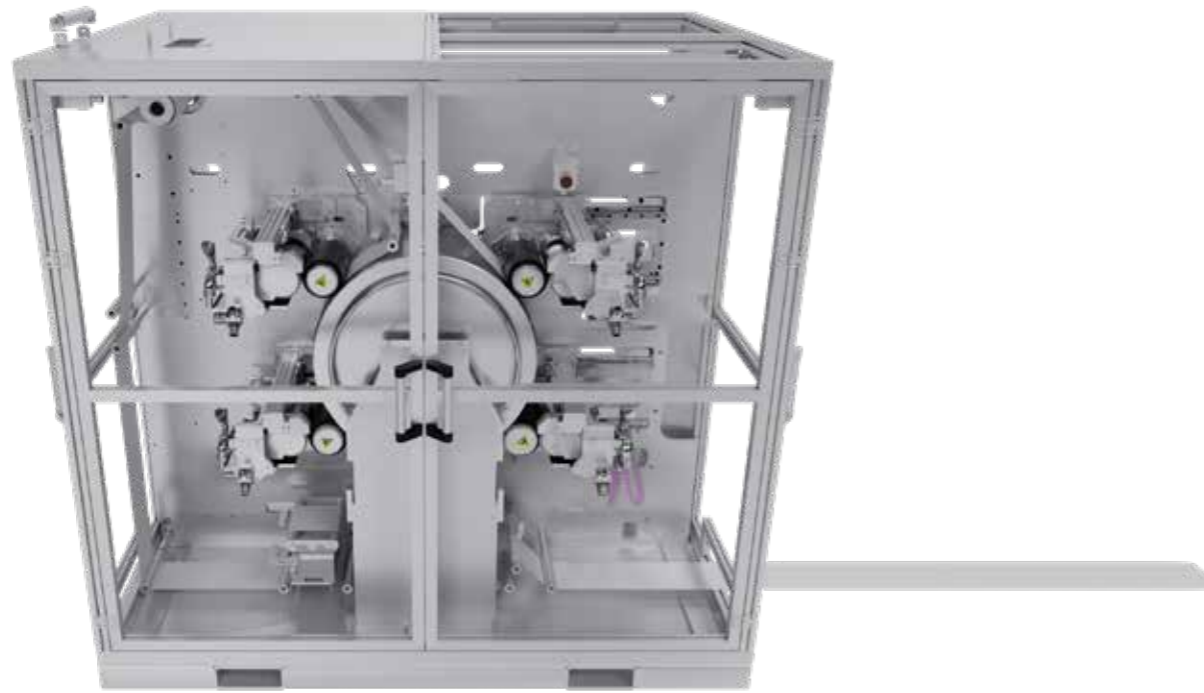


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[www.tresu.com](http://www.tresu.com)

Boost your brand and your business

## Inline flexo printing of nonwovens





## Inline CI flexo technology from TRESU

### Flexible, automated, fast and safe

Automated and built to the highest standards of safety, the inline TRESU CI flexo printing enables you to apply unique multi-colored designs in perfect register - with no compromise in production speed.

### Multiple colors and features – with a minimum of operator training

The TRESU CI flexo printing units comprise up to four water-based colors, a hot air dryer and a register system – all contained within a single module, offering both a compact footprint and a user-friendly design with only a minimum of operator training required.

Benefit from more than 40 years of proven performance working with leading brands around the world and the industry's largest installed base of inline CI flexo printing units.

## Inline printing of nonwovens reduces complexity and improves time to market

Inline printing of nonwovens can be retrofitted with up to 30% cost savings. A single pass converting line with an integrated and automated CI flexo printing machine will save hours and money in several steps of the production process.

Inline printing of nonwovens enables a fast time to market with shorter production runs and shorter lead-times – and with costs firmly under control. You only print what you need – no more, no less.

With inline printing of nonwovens, even swift responses to seasonal trends or radical changes in fashion demand are no longer a challenge.



Boost your brand with TRESU

## Plenty of reasons for inline printing

- **Inhouse control:** Secure brand designs and print with precise register control
- **Increase flexibility:** Fast in-house design changes with a minimum of operator training
- **Simplify supply chains:** Source the same base material and then print individual designs
- **Costs under control:** No overstock, no overproduction, no warehousing of preprints
- **Increase efficiency:** Fast job change with automated printing and cleaning
- **Reduce CO2 footprint:** Inline inhouse printing with efficient drying of water-based inks

### TECHNICAL FEATURES OF TRESU CI FLEXO PRINTING TECHNOLOGY

- Customized solutions with 1 - 4 colors (upgradable)
- Up to 1,300 ft/min or 400 m/min
- Web width from 3.1" to 31.4" or 80 - 220 mm
- Precise register with minimum waste
- Automation of ink supply, viscosity and plate cleaning
- Fast job changes and an operator friendly user interface with a minimum of training required

### FUNCTIONAL VALUE ENHANCING FEATURES WITH INLINE PRINTING

- Conditioner
- Scents
- Vitamins
- Conductivity for digital product features



FEM CARE



BABY CARE



ADULT CARE

# TRESU CI flexo printing technology:

Choose the features you need now ...

## Automated ink control

Complete ink process control with automated adjustment of flow, ink pressure and viscosity.



## Fast and easy job changes

with air cushioned sleeve change technology, you can perform job changes in less than 5 min.

Fast recipe recall from the touch of a button further speeds up job changes.



## No foam, no contamination

with TRESU's Pressure Control Technology. The genuine TRESU chamber doctor blade systems provide you with foam free transfer of your ink.



## TRESU CI Inline Flexo C2 – up to 2 colors

Using the converting machine interface signals as point of reference, the control module provides a direct loop to the servo motors to ensure accuracy on-the-fly, throughout the production run.



**TRESU CI Inline Flexo C2**  
- up to 2 print units

# Modular platform tuned to your needs

... add optional modules of your choice later when needed

## Efficient drying technology

High performance drying units - VelociDryer™ by TRESU - for drying with water-based inks on nonwovens.



Drying unit

## Print plate cleaning PPC

Automated cleaning with TRESU's fully automatic, contact-free, in-line cleaning system for flexo printing plates.



## Servo driven

Adapts to the speed of the converting machine. Located at point of embossing, the register system ensures synchronization of the printed pattern with the crease in the center of the napkin, at speeds of up to 400 meters per minute (approx. 2,000 pcs/min)



**TRESU CI Inline Flexo C4**  
- up to 4 print units

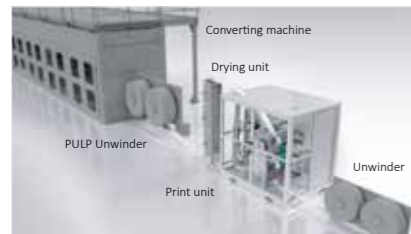
## TRESU CI Inline Flexo C4 - Up to 4 colors

Using the converting machine interface signals as point of reference, the control module provides a direct loop to the servo motors to ensure accuracy on-the-fly, throughout the production run.

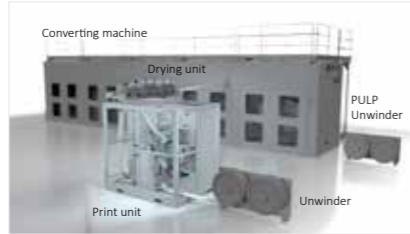


# Integration of TRESU inline CI flexo printing

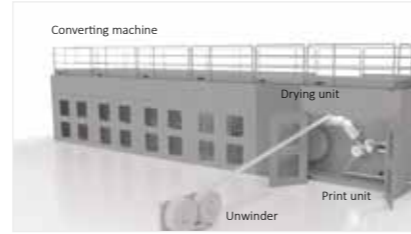
Direct Inline



Parallel Inline



Integrated Inline



Based on more than 40 years of experience TRESU can recommend customers the best way of integrating inline flexo printing with existing converting machines.

# Lifecycle flexo printing partnership

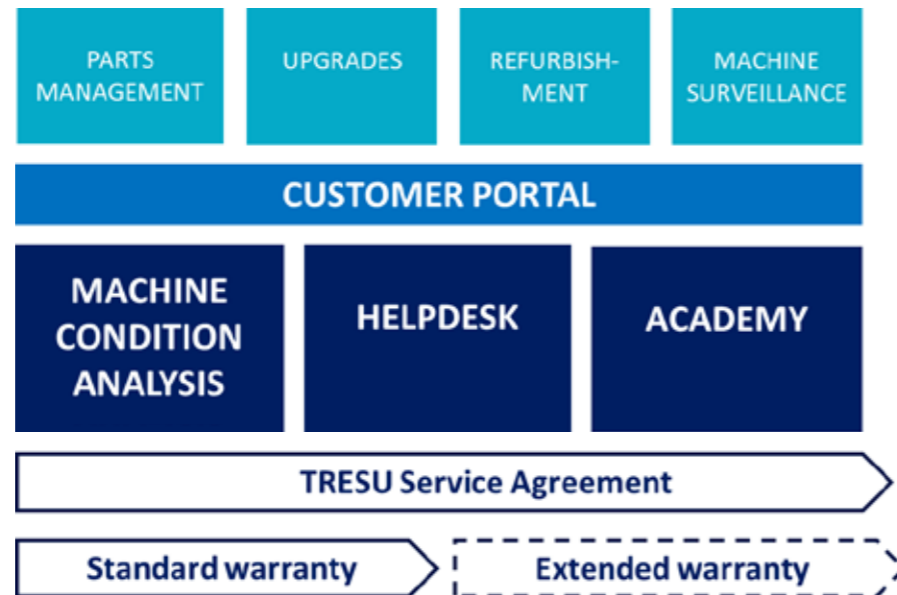
We offer flexible service concepts based on more than 40 years of industry experience working with leading brands in print industries all over the world.

In collaboration with customers, we identify, allocate, and properly manage risks, and ensure peak performance from the printing equipment. We offer solutions for every step of the journey and with local presence we respond quickly to any printing issue.

Based on customer requirements we put together a tailored unique service agreement optimizing OEE throughout the entire product lifecycle. We offer a range of Academy trainings for operators, and we have skilled support engineers standing by if assistance is needed.

This does not come in a box.

We call this TRESU Customer Care.



# TRESU CI inline flexo printing technology

Main specifications	TRESU CI Inline Flexo C2	TRESU CI Inline Flexo C4
Colors available	1-2	1-4
Substrate	Nonwoven 12-35 GSM Film Laminate	
Media	UV or water based ink	
Print speed, standard	1,300 ft/min 400 m/min	
Web width, standard	80 – 220 mm	
Web width, non-std	221 – 300 mm	
Repeat length	Standard 390 – 680 mm	
Web direction	Right to left or left to right	
Register length	Variable within 360°	
Drying system	Included: VelociDryer™ by TRESU	
Ink Deck Positioning system	Included	

# Certified quality

## ISO 9001:2015

To us quality is not just a key to market access – it goes far beyond that.

Supplying proven printing technology is our business.

## ISO 14001:2015

We strive to continuously drive down energy consumption and waste and increase the use of biodegradable products when possible.

Each and every day.

