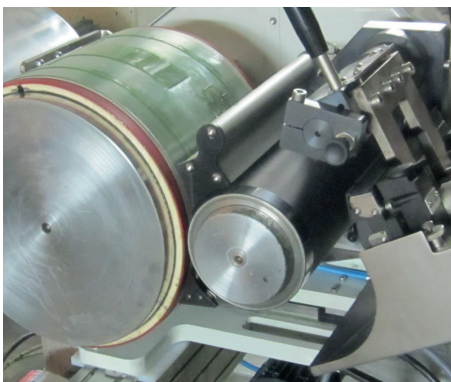
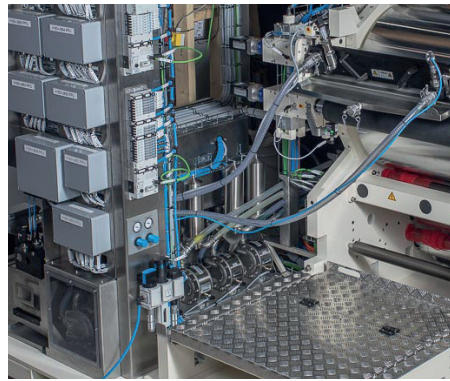
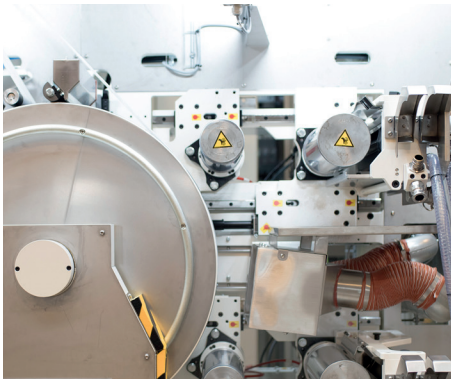


## Coating, Printing and Gluing



Flexo units and machines for coating,  
printing and gluing applications

# The best solution for converting applications

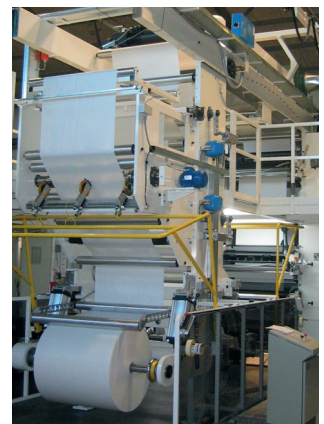
TRESU offers a wide selection of Flexo solutions for Printing, Coating and Gluing Solutions retrofitable onto almost every type of converting machine on the market. As a global provider of machines and equipment, we offer our expertise and solutions to integrate flexographic technology to apply

various coatings, inks and glue to practically any type of surface. TRESU has supplied more than 300 flexographic units all over the world, helping our customers optimize a vast variety of their converting processes.

## Applications for flexo units and machines



- For water based, UV, solvent and solventless
- Retrofitable on Offset, Digital, Gravure and Flexo (or rebuilding of existing converting line)
- For web- and sheet fed applications
- Highly efficient hot-air dryers
- Widths from 185mm to 4.500mm
- Speed up to 1.000 m/min
- Web tension handling from 5N to 2500N
- For flexible, paper, carton, foil, metal plates, cans, nonwoven and most other materials
- For printing, coating, priming, lacquering and gluing
- For flood or spot coating
- For printing full face or in register



# Standard or customized solutions

Regardless if you need one of our standard flexo units, a customized solution to fit into a special machine or a highly sophisticated new solution to meet your specific requirements for your coating, printing, lamination or other application, TRESU offers the know-how and experience.

With our product mix of standard flexo units, complete machines and our engineering and project managing setup for customizing and inventing new technology and new products for our customers, we are the perfect fit for our individual customers worldwide.

## Standard Flexo solutions

### NWG1

For narrow web applications  
 Width 185-1.100 mm  
 Speed 1-200 m/min  
 Repeat 140-610 mm  
 Gear wheel driven

### MWG1

For mid web applications  
 Width 670-1.700 mm  
 Speed 100-300 m/min  
 Repeat 600-1000 mm  
 Gear wheel driven

### HS1

For high performance applications  
 Width 185-1.700 mm  
 Speed 300-1.000 m/min  
 Repeat 340-660/600-1000/800-1560mm  
 Servo driven

### NWS1

For narrow web applications  
 Width 185-670 mm  
 Speed 100-400 m/min  
 Repeat 500-760mm  
 Servo driven

### WWG1

For wide web applications  
 Width 1.700-3.500 mm  
 Speed 1-400 m/min  
 Repeat 800-2000mm  
 Gear wheel driven

### HS2

For high performance applications  
 Width 1.700-3.500 mm  
 Speed 300-1.000 m/min  
 Repeat 800-2000mm  
 Servo driven

	SPEED	100 m/ min	200 m/ min	300 m/ min	400 m/ min	600 m/ min	800 m/ min	1000 m/ min
150 - 670 mm		NWG	NWG	NWS	NWS	HS1	HS1	HS1
670 - 1100 mm		NWG	MWG	MWG	HS1	HS1	HS1	HS1
1100 - 1700 mm		NWG	NWG	NWG	HS1	HS1	HS1	HS1
1700 - 2500 mm		WWG	WWG	WWG	WWG	HS2	HS2	HS2
2500 - 3500 mm		WWG	WWG	HS2	HS2	HS2	HS2	HS2



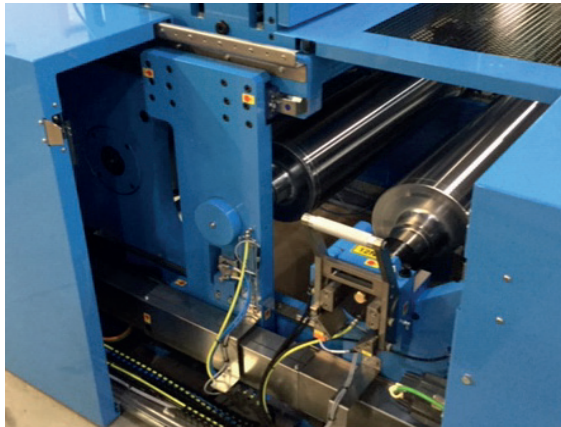
# Flexo machines

Our flexo units can also be combined to make converting machines supplied by TRESU as complete turnkey projects.

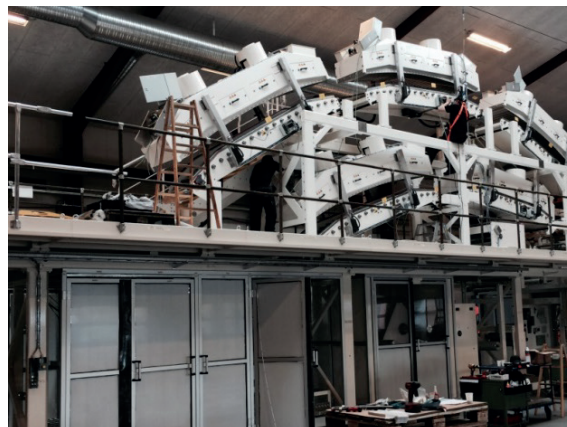
Inline printing on nonwoven 1 color



Retrofit flexo gluing unit 1000 m/min



Complete coating machine for corrugated



# Examples of flexo solutions

## Cigarette barrier machine

Spot, register printing on cigarette paper for applying non-flameable abilities.

## Gluing and lamination line 500 m/min

Pre-heat of alu-foil, print unit for glue, lamination nip and drying.

## Stack press 350 m/min for flexible material

4 colors on the front side + 4 colors on the back side print or 8 colors on the front side.

## Stack press 350 m/min for paper

2 colors on the front side + 2 colors on the back side print or 4 colors on the front side.

## Coating unit for wall paper 300 m/min

Water based coating for wall paper.

## Retrofit flexo gluing unit 1000 m/min

Gluing and for inline lamination with rotogravure machine.

## Complete coating machine for corrugated

Coating of catalyst monolith. Unwinder, coater, corrugation module, drying system and rewinder.

## Inline printing on nonwoven – 1 color

615 m/min for inline printing on nonwoven hygiene products with waterbased or solvent inks.

## Inline CI 2-4 color printing on nonwoven

350 m/min for inline printing on nonwoven hygiene products with waterbased inks.

## Inline CI printing on water soluble film

20 m/min for inline printing on water soluble film with waterbased inks



Watch the movie presenting the latest lamination solution from TRESU

# OEM Solutions

TRESU has a long history of supplying flexo solutions to OEM customer. Typically we supply flexo units to other types of converting machines, for coatings, full face printing of flexo white, gluing units for lamination lines or printing in register.



## A strong OEM Partner

TRESU Group is a strong OEM Partner with more than 50 engineers and experts in flexo processes, we always have the knowledge to help improve and design our customers applications.



## Worldwide service and support

TRESU Global Service takes care of the planning, installation and testing of the equipment. You will receive detailed reporting with thorough analysis and status after each service visit from TRESU. We follow up and focus on the trouble shooting to give you the best service and support and we strive continuously together with you to develop our service concepts.

## Your global OEM partner

Global presence ensures that we receive and handle requests from customer on both technical issues and customer complaints. We develop and assure the maintenance of user manuals and service documentation and provide you with a worldwide hotline availability 24/7.

# Examples of OEM solutions

## HP Indigo 50000 - Complete machine

Unwinder, priming unit, turnbar, web tension control and rewinder integrated with 2 digital print engines. Enables either double speed or double sided printing.

## OCE Canon - Coating unit

Inline coating on web-fed digital printing line 760mm wide, 150 m/min with waterbased and UV coatings.

## Mall/Herlan - Printing and coating units

Supplied more than 60 lacquering units for installations all over the world.

## Wifa/Polytype - Printing units

Supplied 1 or 2 color printing units for special and high performance applications.

## SPG Print - Printing and Coating units

Supplied more than 30 units for PD4 (printing and coating system) and PD5 machines (wall paper).

## Kroenert - Printing units

Supplied 1 color printing units for special and high performance applications.

## Fameccanica - Printing units

Integrated Inline 1 color flexo printing units into sanitary napkins converting line.

# The core of Flexo



TRESU supplies not only complete units and machines, but also equipment to be retrofitted or already installed when you buy a new converting line from a wide range of OEMs worldwide, as they also know that the heart of any top performance flexo unit is supplied by TRESU.



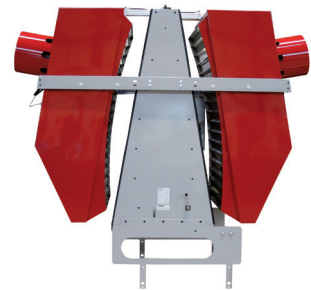
## Intelligent Ink Pumping Systems

TRESU lowers job changeover time dramatically, along with automatically monitoring and adjusting viscosity, temperature, PH level and pressure our intelligent ink handling system ensures a consistent quality of your inks and print performance. Increase your productivity by up to 30%.



## Chamber doctor blade systems

TRESU is the world's leading supplier of chamber doctor blade systems. With the TRESU Chamber Doctor Blade system the printing quality is constant and reproducible with fast job change. Perfect cleaning of anilox roller with high pressure cleaning procedure and low maintenance efforts in general.



## Drying technology

TRESU provides standard and customized convention dryers for flexo, offset, coating and gravure printing presses. The drying systems are suitable for shrink films, papers and packaging materials

TRESU is a highly specialized company offering flexible, customized solutions of flexo printing machines and high performance ancillary products for flexo, digital and offset printing to the graphic industry.

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

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