

Improve quality and performance of priming and coating in offset and digital printing...

In packaging printing, there is a growing need for added-value and embellishment features, and for the offset and digital Printing, coating and priming industry, the TRESU coating and priming concept is an obvious choice. It's an in-line, pressure-controlled coating/priming concept for high-speed, sheet-fed and web offset and digital printing presses, suitable for both UV- and water-based coatings.

The offset and digital coating system from TRESU is suitable for a wide range of sheet-fed and web offset and digital applications where a perfect coating finish is needed, such as high-value glue-applied paper labels, carton board packaging and in commercial print as well as some web-fed offset and digital applications like shrink-wrap sleeves.

A complete solution

The unique concept is based on TRESU flexo technology, and the self-regulating concept comprises the chamber doctor blade E-Line, the coating and priming circulator, and a coating conditioner.

The circulator automatically adjusts to the coating supply and initiates optional cleaning programs, and by means of a sensor to measure coating pressure and press speeds at the doctor blade. The circulator also regulates the coating flow.

And finally, temperature regulation for UV coatings is achieved with the coating conditioners, which feature an automatic re-filling system to maintain coating quantity and fixed temperatures.

Overall, the system enables sheet-fed, web offset and digital printers to coat printed products at faster speeds, without the risk of micro-foaming and blisters in the coated surface.



TRESU UniPrint - Chamber doctor blade system

- Universal chamber construction, customized for any application
- Patented TRESU seals guaranteeing authentic quality
- Open or closed ink circulation system
- Pressure Control technology for foam elimination
- For water-, UV- and solvent based inks and coatings
- Doctor blade quick change systems, E-line
- For special applications S-Line chamber in stainless steel
- Anodized, Teflon and Ceraflex corrosion surface protection



TRESU UniPrint Combi - Chamber doctor blade system

- Pressure control technology for foam elimination of sensitive coatings
- Pneumatic and air lock, mechanical locking system.
- Anilox width: up to 1200mm. - Anilox Ø: 80 - 250mm.
- Patented TRESU E-Line clamping system for fast doctor blade change and high quality doctoring
- Streamlined and compact design for perfect handling
- Open or closed ink circulation system
- Pressure control technology for foam elimination
- For water-, UV- and solvent based inks and coatings
- Patented TRESU seals guaranteeing authentic quality



TRESU FlexiPrint Basic - Chamber doctor blade system

- Mechanical loading system
- Patented TRESU E-Line clamping system for fast doctor blade change and high quality doctoring
- Standardized, compact construction with excellent price/performance ratio
- Open or closed ink circulation system
- Pressure control technology for foam elimination
- For water-, UV- and solvent based ink and coatings
- Patented TRESU seals guaranteeing authentic quality



TRESU Li-Series Circulators for aqueous and UV-coating types



The TRESU Pressure Control Technology

A constant, pressure control is maintained in the chamber doctor blade. This causes a liquid barrier to form between the rotating anilox cells and the chamber, stopping any air in the cells from transferring to the coating during production.

TRESU H5i

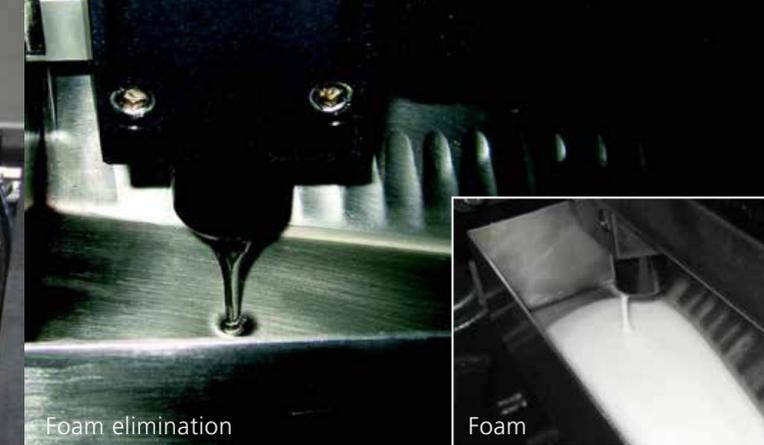
- Efficient circulator for high volume WB, UV or e-beam special coatings.
- High viscosity, high pressure, high flow, high speed and high volume
- Flow control and pressure control for micro-foam elimination
- Spot or flood coating for demanding coating tasks
- Dual pump circulator with auto adjusting and automated operations
- Semi automatic cleaning
- Modular platform and Industry 4.0 connectivity

TRESU L10i Aqua and L10i UV

- L10i Aqua for aqueous coatings
- L10i UV for UV-coatings
- Coating supply regulator by level sensor
- Pressure control technology for foam elimination of sensitive coatings
- Automatic cleaning programs
- Automatic detergent dosing
- Compact design
- Easy operation from remote colour screen touch panel

TRESU L30i Combi

- A superior 2-in-1 solution for both aqueous and UV-coatings, in separated circuits
- Flow operations for standard coatings
- Pressure control technology for foam elimination of sensitive coatings
- Automatic cleaning programs
- Automatic detergent dosing
- Compact design
- Easy operation from remote colour screen touch panel

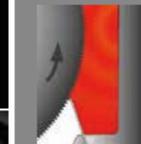


Foam elimination

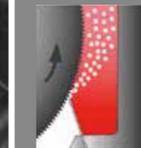


Foam

The TRESU Pressure Control Technology is a key feature



Foam elimination



Foam

A constant high pressure in the chamber doctor blade causes a liquid barrier to form between the rotating anilox cell and chamber stopping any air in the cell from transferring to the coating during production.

The UniPrint Combi chamber doctor blade also features TRESU patented airtight seal system, elimination leakage and the patented E-Line, instant doctor blade changing system. The compact design of the chamber allows easy changeover minimizing coating agitation and optimizing productivity.

TRESU XL-Series - Circulators for all coatings



TRESU XL5i G3

- Compact system with 2 speed controlled peristaltic pumps
- Easy to install - plug and play
- Easy to operate
- Semi automatic cleaning with timer settings
- Flow operations for standard coatings.
- Pressure control technology for foam elimination of sensitive coatings
- Sensor controlled with alarm light and chamber closed.

X-Series - Coating conditioners



TRESU X10i

- Heating systems for UV-based coatings
- X10i is an automatic conditioner for preparation of UV-coatings
- X10i is connected to and controlled by the L10i UV or the L30i Combi and XL5i
- Controlled heating up to 50° C of constant coating quantity
- No contamination of the coating in the main container
- Easy operation from remote colour screen touch panel

TRESU XDW Agitation

- Coating drum agitator for all standard-, and sensitive coatings
- Speed controlled electrical agitator
- Can be used as a coating cooling system in combination with an external chiller



TRESU XD Agitation

- Coating drum agitator for all standard-, and sensitive coatings
- Coating drum with plastic lid
- Speed controlled electrical agitator
- Perfect conditioning for aqueous and UV-coatings
- Avoids pigment sedimentation
- Reduces foam build-up
- Suitable for all printing and coating applications

TRESU coating circulator and conditioner program for offset



System		Li Series						XL Series		X Series			H Series		
		L30i Combi		L10i Aqua		L10i UV		XL5		X10	XD	XDW	H5i		
Cleaning function		Fully automatic		Fully automatic		Fully automatic		Semi automatic					Semi automatic		
Pressure control		NO	YES	NO	YES	NO	YES	NO	YES				NO	YES	
AQ	Standard	Standard	●	●	●	●	○	○	●	●	○	●	●	●	●
		High viscosity	●	●	●	●	○	○	●	●	○	●	●	●	●
		Foaming sensitive	●	●	●	●	○	○	●	●	○	●	●	●	●
	Special	Metallic / Pearl	○	○	○	○	○	○	●	●	○	●	●	○	○
		Opaque white	○	○	○	○	○	○	●	●	○	●	●	○	○
		Special coating	○	○	○	○	○	○	●	●	○	●	●	○	○
UV	Standard	Standard	●	●	○	○	●	●	●	●	●	●	●	●	
		High viscosity	●	●	○	○	●	●	●	●	●	●	●	●	
		Foaming sensitive	●	●	○	○	●	●	●	●	●	●	●	●	
	Special	Metallic / Pearl	○	○	○	○	○	○	●	●	○	●	●	○	○
		Opaque white	○	○	○	○	○	○	●	●	○	●	●	○	○
		Special coating	○	○	○	○	○	○	●	●	○	●	●	○	○



Solutions for priming and coating in offset and digital printing

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 offset coating



TRESU digital priming and coating



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