



It's about reliability, quality and performance

At first glance some instant lottery cards may not resemble anything near high technology, but taking a closer look you realize that multiple layers of ink, foils, security features, coatings and much more make the modern lottery card a complex thing to manufacture at high speed and in high volumes.

Producing thousands of lottery tickets per minute, it is a complex task to ensure that the tickets are authentic and securely produced and handled in a line of 20 printing units, where each station adds a new feature – a different color, security measure or scratch-off components. In fact, some say it's harder than printing money and this is why major manufacturers of lottery cards today choose TRESU Flexo Innovator as their choice of proven technology.

TRESU Flexo Innovator for printing lottery tickets

TRESU customers look for speed, volume, repeatable quality and fast turnarounds – with low and transparent operational costs during the entire lifecycle of the press.

Our technology is complex, but at TRESU, we make it easy for our customers. Automating the transfer of ink onto paper may seem simple, but printing at high speeds, things quickly get complex.

So, our job is to increase speed while addressing and stabilizing all the parameters, that can impact the print. The final print needs to be uniform and perfect – each time.

Automation and new ways of printing lottery tickets will become critical successfactors going forward – at TRESU we are ready to face these challenges.

ONE PASS INLINE TURNKEY SOLUTION WITH UP TO 22 SPECIALIZED FLEXO UNITS

For scratch off lottery and security printing, the TRESU Flexo Innovator is the industry standard, printing more than 70% of all the lottery cards world-wide.

Typical configurations for this segment has 16-22 flexo printing and coating units and multiple digital printing heads, which prints at 400-600 m/min (1,300 – 2,000 ft/min) in widths between 350 (13.8”) and 1.100mm (44”).

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 lottery and security 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

TRESU Flexo Innovator

Unbeaten performance for single pass lottery tickets



Unbeaten Press Performance

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

Lottery and security printing: Reliability, quality and performance

The Flexo Innovator is the industry standard, printing more than 70% of all the instant lottery tickets world-wide according to our customers. Typically, the configuration for this segment has somewhere between 16-22 flexo printing and coating units and multiple digital printing heads, which prints at 400-600 m/min (1,300 – 2,000 ft/min) in widths between 350 (13.8”) and 1.100mm (44”).

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

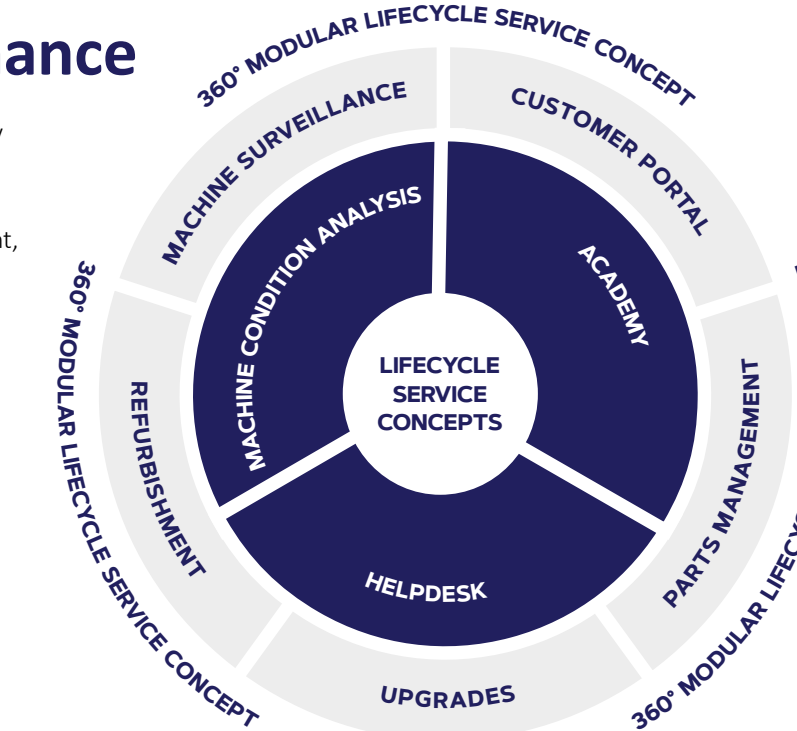
= TRESU Flexo Innovator – still #1

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.

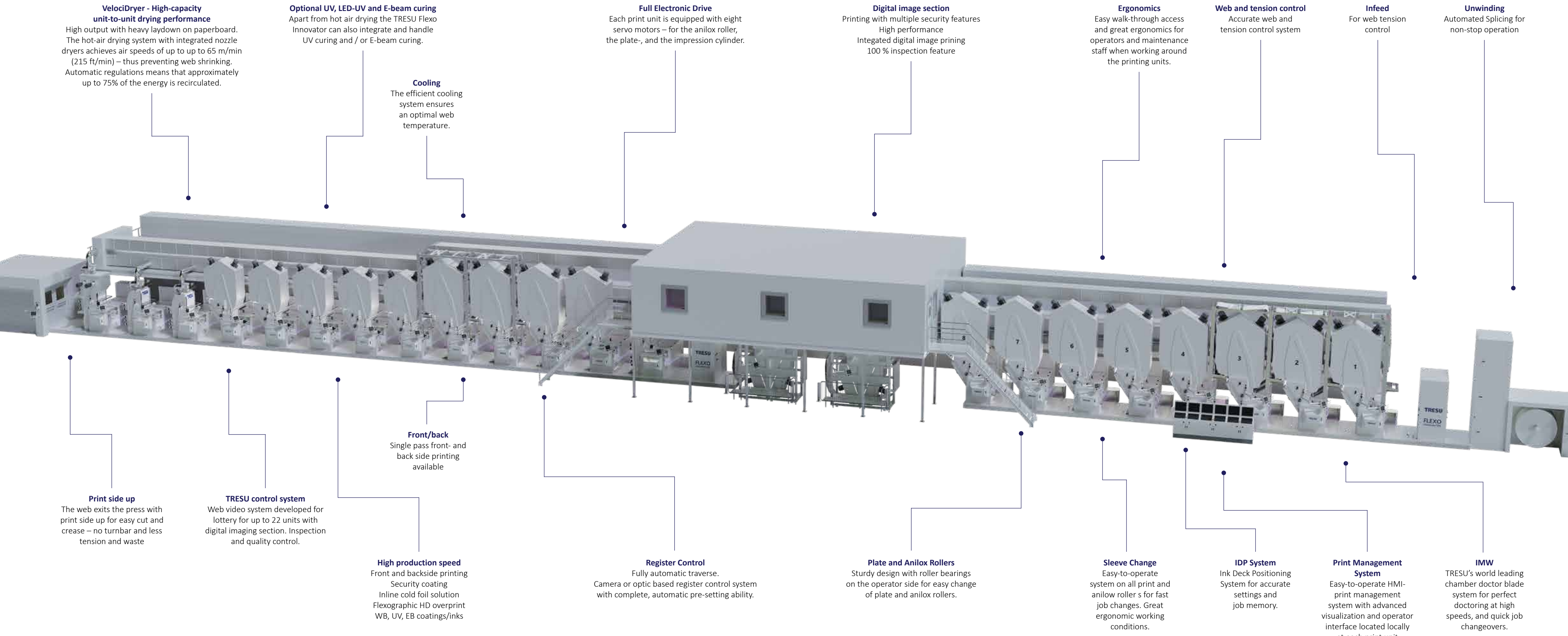
We have supplied proven flexo technology to industry leading brand owners, converters and OEM manufacturers all over the world for more than 40 years. Benefit from the know-how of the industry's largest installed base of flexo

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.

Digital image section

Printing with multiple security features
High performance
Integrated digital image printing
100 % inspection feature

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

TRESU control system

Web video system developed for lottery for up to 22 units with digital imaging section. Inspection and quality control.

Front/back

Single pass front- and back side printing available

High production speed

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

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