

ROT  **CON**

PRODUCT PROFILE 2021





ROTCON

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Customers always come first

Established in 2008, **ROTOCON** is a family-owned business led by Michael Aengenvoort and sons, Pascal and Patrick, who all completed their engineering studies in Europe and have cut their teeth and grown up in the labelling and narrow web industry. Collectively, the trio has 66 years' hands-on experience and

intimate knowledge of label printing and finishing machines, accessories, and consumables, enabling them to offer customers a tailor-made turnkey solution.

The family's roots and business partnerships stretch back to Germany, where Michael and eldest son, Marco established ROTOCONTROL in 2008 as a supplier of top-quality, high-speed finishing machines for inspection, slitting, rewinding, die-cutting, digital labels and booklet labels.

The two companies signed a local distribution agreement in 2009, signalling the start of ROTOCON's strategy of bringing the entire gamut of production technology – from prepress to printing, via digital and analogue technologies, to all manner of ancillary and finishing systems – to customers in the narrow-web printing sector.



Handpicked partners and geographical expansion

The ROTOCON family only partners with brands committed to engineering high-quality products – a valuable customer asset as substrates get thinner and thinner and quality/precision requirements increase – ensuring there's never a need to compromise or experience production interruptions.

To satisfy the technology investment needs of smaller-scale labelling operations, ROTOCON launched its ECOLINE finishing equipment brand in 2017. So far, over 109 of these systems have been sold and commissioned in South Africa, Mauritius, Europe, Australia and the US.

In 2018, the company established ROTOCON Europe as a subsidiary to provide local after-sales service for the ECOLINE range of finishing equipment to printers and converters across the EU. It also appointed ROTOCONTROL to manage sales in the North American market and provide after-sales support through its parent company, EMT International.

ROTOCON further expanded the ECOLINE range's international reach in October 2020 with the official registration of its subsidiary, ROTOCON Asia. The subsidiary is recruiting local distributors to represent the ECOLINE brand that embody ROTOCON's commitment to providing exceptional customer service and after-sales support. This initiative expands ROTOCON's presence in this growing and dynamic market.

Targeted staff training

This commitment to quality and innovation forms the cornerstone of ROTOCON's philosophy of always providing the best in customer service. 'We believe the real value of the company lies in our people because it takes very skilled individuals with a built-in level of commitment and initiative to elevate customer service to the next level,' says Michael Aengenvoort. 'Support staff and 9 technicians who interface with customers are rigorously trained and certified according to OEM standards, so that they embody ROTOCON's "our product, our service, our brand" approach.'

Additionally, operators responsible for local manufacturing or machine refurbishments are trained internally or sent to principals' facilities for up-to-date development exposure.

Client service package

ROTOCON's goal is to learn about its customers' printing environment and recommend the ideal solution to meet their needs.

Customers who partner with ROTOCON receive:

- Trustworthy capital investment advice
- Responsiveness and on-site service by nine fully-trained and highly knowledgeable technicians based in Johannesburg, Durban, and Cape Town
- Comprehensive stockholding of spare parts and consumables
- A fleet of branded vans for delivering consumables, cutting tools, and spare parts whenever and wherever they're needed
- Customs pre-clearance, airport pick-up and prompt delivery of precision-engineered flexible dies (48-hour turnaround)
- Local manufacturing of high-precision solid rotary dies, magnetic print cylinders and accessories, including a universal roll lifter (up to 80kg)
- A turnkey project service for pre-owned printing equipment and spare parts
- Technical assistance with older generation machine upgrades or spare parts





ECOLINE

RSI 340 | 440 Slitting, Inspection & Rewinder System

With operator ease, the ECOLINE RSI 330 slitter rewinder provides a full suite of cost-efficient standard features and is cleverly designed for inspection and slitting of printed labels.

ROTOCON

ECOLINES tie up technology & affordability

ROTOCON started developing its economy line of finishing equipment in 2013, and officially launched the ECOLINE range in early 2017, to meet the technology investment needs of smaller labelling operations and start-up ventures, which carefully balance the highest possible specifications with competitive pricing.

Each of the seven ECOLINE systems has a compact footprint, easy-to-use control panel and open machine design to maximise operator friendliness. A modem for remote fault finding and maintenance allows ROTOCON to respond quickly to operators' software and drive-related queries.

Handpicked overseas machine builders produce the ECOLINE range according to ROTOCON's stringent quality specifications – solid, vibration-free construction and the latest technology – plus cost-efficiency needs.

We have commissioned these customisable models beyond South Africa's borders in Mauritius, Europe, Australia and the US.



RSI 340 | 440 SLITTING, INSPECTION & REWINDER SYSTEM

Re-engineered as a fully servo-driven model, featuring three servo motors (instead of two), increasing output from 230 to 300m/min. A more stringent web control and management system ensures 100% accuracy. The servo upgrade has also simplified customer maintenance.

Specifications

Max speed: 300m/min

Unwind diameter: 710 mm

Rewind diameter: 450 mm

Unwinding: automatic roll end stop function & splicing table

Slitting accuracy: ± 0.2 mm

Slitting basic package: 6 razor blades

Ultrasonic roll diameter tracking

Counting: totalised, linear & individual label count

Available options: stroboscope inspection, crush knife slitting, razor slitting, dual rewind, separated waste winder.



ECOLINE

RSH 340 Slitting, Inspection & Rewinder System

We maximise operator friendliness in label slitting, inspection and rewinding with the ECOLINE RSH 340: compact footprint, easy-to-use control panel and open machine design.

ROTOCON

RSH 340 SLITTING, INSPECTION & REWINDER SYSTEM

Fully servo-driven model with a compact footprint, easy-to-use control panel and open machine design to maximise operator friendliness

- Ultrasonic web guide
- Slitting accuracy: $\pm 0.2\text{mm}$
- Ultrasonic roll diameter tracking
- Tension control on rewind
- Tension control on unwind
- Inverter control draw station
- Unwind splicing table
- Automatic linear count
- Individual label count



RDS 340 DIE-CUTTING & INSPECTION SYSTEM

The most efficient die-cutting system available for today's demanding production environments. The dual-purpose platform features precision die-cutting plus advanced roll and label inspection. Easy interchange between the two functions enables convenient blank label production.

The semi-automatic turret rewinder lets operators prepare the next roll while the current one is still running, helping to speed up production times.

Specifications

- Unwind diameter: 710mm
- Rewind diameter: 300mm
- Max die-cutting width: 330mm
- Full-rotary max mechanical speed: 200m/min
- Available options: stroboscope & inspection





ECOLINE

RDS 340 | 440
Die cutting, slitting and
rewinding finishing system

The dual-purpose RDS platform features precision die-cutting plus advanced roll and label inspection. Easy interchange between the two functions enables convenient blank label production.

ROTOCON

RDF 340 | 440 DIGITAL PRINTED LABEL CONVERTING & FINISHING SYSTEM

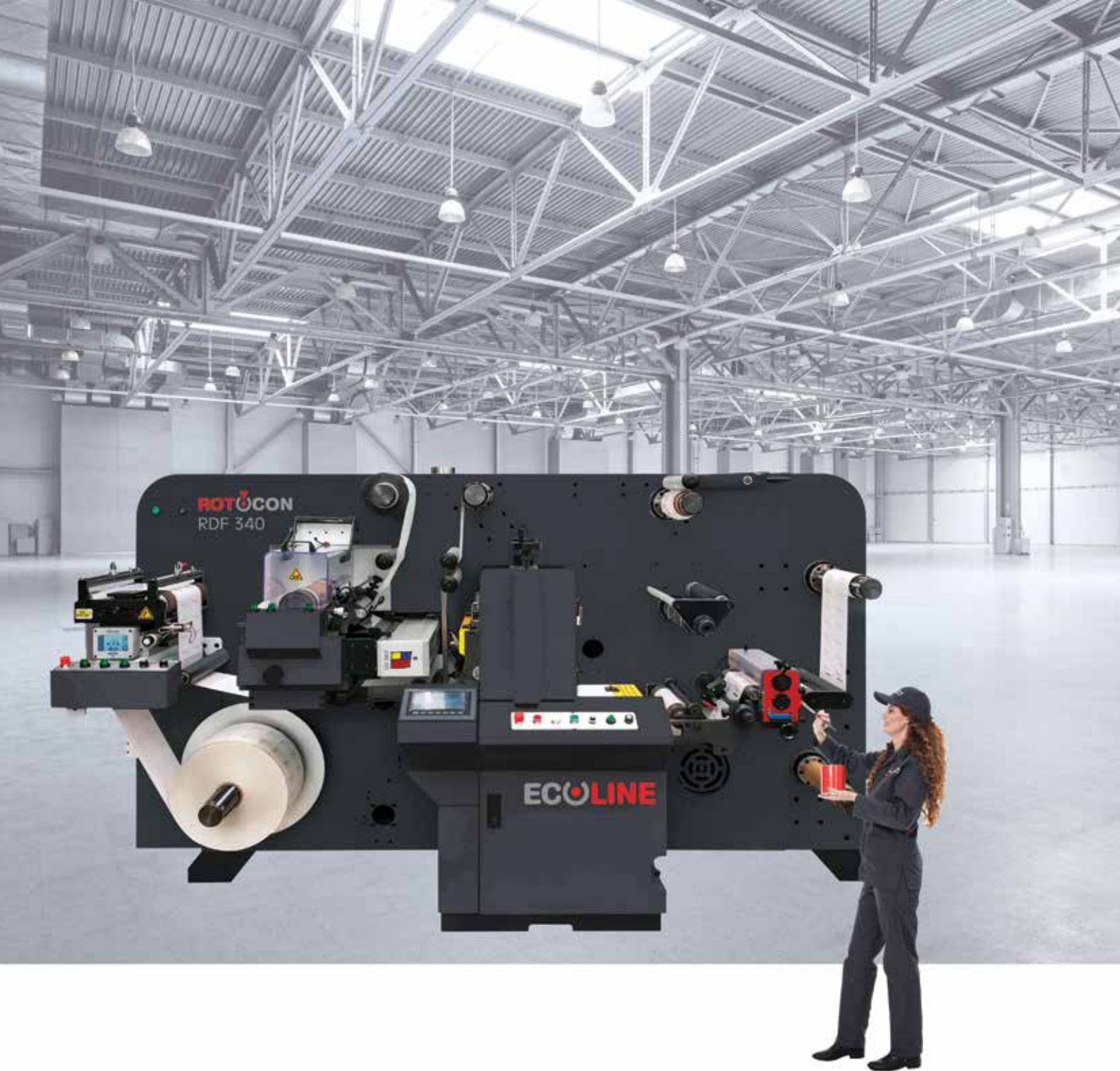
Featuring a full-rotary flexo print unit, an unwind/rewind unit and waste rewind (76mm spindle), web guide unit, slitting unit (shear/razor knives), a cold foil and lamination/delamination module, and a die-cutting station that can be used in semi- or full-rotary mode, this machine provides servo-driven digital label converting and finishing. The UV ink curing system supports printing on any media.

Specifications

Max web width: 340mm
Max unwind diameter: 700mm
Max upper rewind diameter: 600mm
Max lower rewind diameter: 600mm
Max die-cutting width: 330mm
Full-rotary max mechanical speed: 120m/min
Semi-rotary max speed: 50m/min
Semi-rotary repeat length: 100-457mm
Die-cutting accuracy: $\pm 0.15\text{mm}$

Available options: cold foil, hot air dryer, Wink SmartGap (adjustable anvil cylinder), crush slitting module, in-mould label (IML) equipment with conveyor, IML equipment with star wheel stacker.





ECOLINE

RDF 340 | 440 Digital Printed Label Converting and Finishing System

Expand label embellishments more efficiently offline such as flexo printing, embossing, flat screen printing and hot foiling with the ECOLINE RDF-330.

ROTOCON



ECOLINE PRO MOUNT PLATEMOUNTER

An entry-level machine designed to tick three boxes: price ratio, ease of operation, plus maximum precision and highly repeatable accuracy for operators manually mounting printing plates.

The 650-line camera reaches a 70 times amplification ratio – presenting clear, bright images that substantially improve plate mounting precision – via a 482.6mm high-resolution display screen.

Specifications

Max plate cylinder length: 600mm

Max plate cylinder diameter: 800mm

Voltage: 220V (one-phase, 50-60Hz)

ECOLINE PRO CLEAN ANILOX ROLLER CLEANER

This ultrasonic anilox roller cleaner efficiently and quickly removes all types of inks and dirt from any line count anilox cells. It's equipped with a roller swivelling wheel and constant temperature heating system, which reduces any 'hot spots' in the liquid that can create high intensity power levels and potentially damage components.

Ultrasonic cleaning converts electric energy into kinetic energy, without generating dust and sewage, making it a more environmentally-friendly method that requires a cleaning fluid for easier dirt removal from micro holes.

The cleaning process is simple – after inserting the anilox roller into the cleaning tank with cleaning fluid, the operator presses the cleaning button. Depending on the anilox cells, the operator can choose from different sizes of customised cleansers, and switch between single, and double frequency cleaning. At 40kHz, single-frequency cleaning is stable, reliable and thorough. After removing inks or stubborn dirt with low frequency, multiple frequencies enable highly-precise cleaning of the anilox cells.



Specifications

Anilox roller length: 100-450mm

Quantity of vibrators: 16

Temperature control range: 30-100°C

Ultrasonic power source: 20A/220V

Electric heater power: 2.6KW

Cleanser working frequency: 40kHz

Rinsing tank length: 450mm

Rinsing tank width: 450mm

Capacity: 40 litres



ECOLINE

PRO CLEAN Anilox roller cleaner

This ultrasonic anilox roller cleaner efficiently and quickly removes all types of inks and dirt from any line count anilox cells.

ROTOCON

RFP 340 | 440 | 660 FLEXOGRAPHIC PRINTING PRESS

In August 2020, the first ECOLINE RFP 340 flexographic printing press was installed at a Durban-based label converter as a cost-efficient alternative that balances registration accuracy with high running speeds.

The RFP uses the latest Yaskawa servo drive and control system. Each printing unit is driven by a separate servo motor – 14 in total on an eight-colour printing press and two die-cutting stations.

The printing units are designed for optimal ink transfer and pressure adjustment to guarantee crisp-dot printing in high line counts, text, linework, solids, adhesives and varnishes. If fine-tuning is required, it can be done quickly, by adjusting the corresponding pressure setting device on both sides.

The lightweight aluminium print cylinders feature a high-precision helical gear transmission for high accuracy. This design ensures that installation of the cylinder in the print head is a smooth and easy operation.

The LED-UV curing system ensures an improved energy footprint across the short web path, and the impression cylinder is equipped with a water chiller system so that the filmic material won't be affected by the UV curing temperatures during printing. Alternatively, hot air or infrared driers can be fitted for curing water-based inks.

Equipping the unwind unit with a corona treater, dust cleaning unit, and static system ensures maximum printing stability. The high-precision BST web inspection system provides superior quality assurance during the printing process.



Specifications

Maximum web width: 340mm, 440mm, 670mm

Unwind diameter: 1 500mm

Rewind diameter: 900mm

Print repeat range: 254-609.6mm

Maximum mechanical speed: 150m/min

Available options: web turner bar and cold foiling (moveable on a rail system)



ECOLINE

RFP 340 | 440 | 660 Flexographic Printing Press

The RFP uses the latest Yaskawa servo drive and control system. Each printing unit is driven by a separate servo motor – 14 in total on an eight-colour printing press and two die-cutting stations.

The printing units are designed for optimal ink transfer and pressure adjustment to guarantee crisp-dot printing in high line counts, text, linework, solids, adhesives and varnishes. If fine-tuning is required, it can be done quickly, by adjusting the corresponding pressure setting device on both sides.



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ECOLINE

PRO MOUNT Platemounter

An entry-level machine designed to tick three boxes: price ratio, ease of operation, plus maximum precision and highly repeatable accuracy for operators manually mounting printing plates.

ROTOCON



PRE-OWNED MACHINES



ROTOCON's turnkey project service sources, installs and services pre-owned flexographic and SCREEN digital presses; creating customer peace of mind through a single point of contact responsible for careful planning of the entire project.

The ROTOCON team takes full responsibility for sourcing the machine from an extensive worldwide network of principals and agents and ROTOCON connects potential buyers to the factory, so they can question the production team about press performance and even run a test job as an option.

This personal interaction prevents potential confusion between parties. It is backed up by working with a certified OEM engineer who inspects and verifies the working order, makes appropriate refurbishment kit recommendations, manages the parts list, dismantles the press and supervises component loading into crates and containers for shipping.

The service then extends to handling forward cover, insurance, customs clearance, and payments to overseas and local freight companies; carrying out on-site pre-installation inspections, reassembly, installation, final acceptance checks and training; plus organising maintenance contracts and future upgrade options.

With pre-owned digital presses, ROTOCON negotiates a 12-month warranty and parts insurance with SCREEN so that customers only need to enter into a parts contract from the second year.

ECOLINE



PRINTING PRODUCTIVITY

SCREEN

ROTOCONTROL

your finishing partner

ROTOCONTROL

your finishing partner

First at the finish line

In 2008, Michael and Marco Aengenvoort established RotoControl as a German manufacturer of high-speed inspection, cutting and rewinding equipment. A year later, **ROTOCON** became the South African agent for these leading-edge finishing machines, which now also include die-cut, digital and booklet printed labels.

DT SERIES AND DT HYBRID DIGITAL FINISHING LINE

The DT Series is a fully modular and universal machine and works inline with all major digital printing presses such as the SCREEN Truepress Jet L350UV+ and new SAI series. The integrated printing and die-cutting unit, as well as the special register control, make it suitable for the processing and finishing of digitally pre-printed rolls.

A complete range of finishing is available with the DT Series: cold foil; hot foil stamping in silver, gold and hologram foil; gloss and matt varnish; gloss and matt laminating foil; UV-blocker laminate; multilayer labels; laminating; screen, inkjet and flexo printing; die-cutting; 100% inspection and more.

RotoControl provides superior open architecture design for inkjet hybrid presses. The web and modules are easy to access – making it simple to witness operation/web handling, and movement during production, along with guarded safety protocols.

Specifications

Working width: 340mm

Unwind diameter: 750mm

Rewind diameter: 550mm

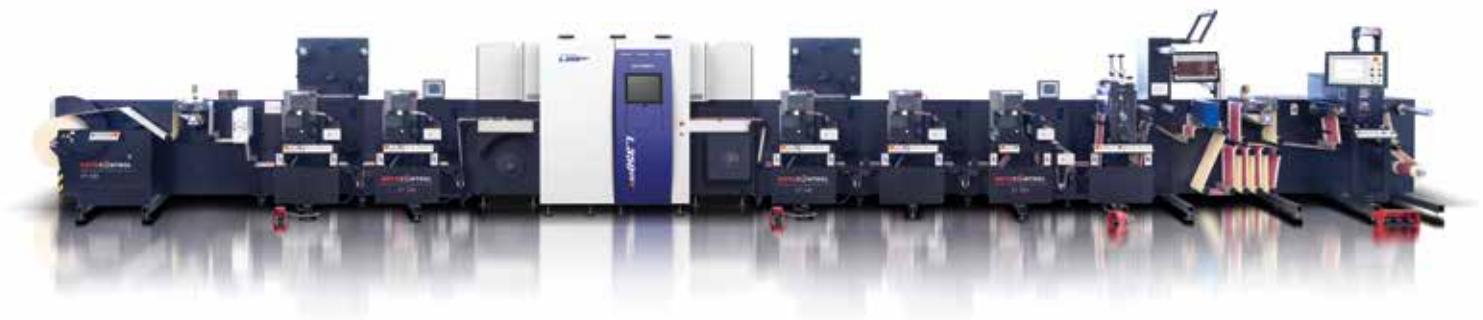
Print repeat range: 229-610mm

Die repeat range: 95.25-635mm

Semi-rotary max speed: 65m/min

Full-rotary max speed: 200m/min

Synchronous mode max speed: 250m/min



RSC 2.0 - INSPECTION SLITTER/REWINDER MACHINE

The recently launched RSC 2.0 inspection slitter rewinder series offers higher speeds, larger roll handling capacity, and vertical or horizontal inspection configurations.

Standard design features include automatic tension control and S-drive servo operation. Operator ease-of-use is enabled by a touchscreen panel with a 2 000 job memory, a vertical vacuum splice table that eliminates the need for web clamping, and an ergonomically-positioned waste rewind under the splice table so that operators don't need to bend throughout the entire splicing operation. A horizontal splice table is also available.

The automated web tension management system maintains tension control during high-speed stops.

Additionally, the RSC 2.0's quick-change slitting cartridge system promotes faster set-up times, with less downtime during job or blade changes. Tool-less cartridge exchange, with pre-mounted set-up gauge rules, offers safe changeovers in as little as 30 seconds.

Specifications

Working widths: 440mm, 580mm
 Transport speed up to: 550m/min
 Defect placement speed up to: 440m/min
 Unwind diameter: 1 020mm
 Single rewind: 610mm
 Dual rewind: 480mm (vertical), 610mm (horizontal)



RSP-H and RSP-V SERIES PHARMACEUTICAL SECURITY

The RSP-H Series machines are specifically designed for compliance with the most demanding security label inspection and finishing applications. Prior to slitting or other post-inspection operations, the vision system provides 100% inspection of the web and stops the machine when a fault is detected.

The operator performs the corrective action of the faulty label, which is automatically placed on the inspection/splice table. Once the fault is corrected, then the web reverses and the corrected label passes under the vision system a second time, ensuring a 100% compliant product is moved to the next production stages.

Specifications

Working widths: 440mm, 580mm, 670mm
 Unwind diameter: 750mm
 Single rewind: 550mm (500mm with lay-on roller)
 Dual rewind: 420mm (400mm with lay-on roller)
 Transport speed up to: 320m/min (machine speed is material and vision system dependent)



BL SERIES BOOKLET & ECL PRODUCTION

The BL Series is a fully servo-driven, high-speed offline solution for ECL and booklet labels, coupon labels and multilayer labels. It is equipped with the Longford International OS700X triple motor surge feeder.

A wide variety of optional modules including lamination, screen printing, cold foil, hot melt unit, and flexo printing are available – delivering a complete solution in one machine.

Specifications

Working widths: 340mm, 440mm
 Unwind diameter: 750mm
 Rewind diameter: 550mm
 Print repeat range: 228.6-610mm
 Die repeat range: 254-635mm
 Booklet production max speed: 65m/min
 Full-rotary max speed: 200m/min
 Synchronous mode max speed: 250m/min





ROTOCONTROL

your finishing partner

DT SERIES and DT Hybrid Digital Finishing Line

The DT Series is a fully modular and universal machine and works inline with all major digital printing presses such as the SCREEN Truepress Jet L350UV+ and new SAI series.

The integrated printing and die-cutting unit, as well as the special register control, make it suitable for the processing and finishing of digitally pre-printed rolls.

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RSD SERIES ADVANCED OFFLINE DIE CUTTING, SLITTING & REWINDING

As a modular, servo-driven-based machine with a standard full-rotary die-cutting station, the RSD Series finishes pre-printed material or produces blank labels. Turret rewinders, multiple die-cutting stations and many finishing options are available, including flexo and lamination stations.

Specifications

Working widths: 340mm, 440mm, 540mm, 670mm

Unwind diameter: 750mm

Rewind diameter: 550mm

Print repeat range: 229-610mm

Die repeat range: 254-635mm

Full-rotary max speed: 200m/min

Synchronous mode max speed: 250m/min



RCF SERIES ADVANCED CUSTOMISED FINISHING

For top-of-the-line customisation in finishing, the RCF is a fully electronic controlled, slitting machine featuring a modular construction in working widths of 340mm, 440mm, 540mm and 670mm. It also can use existing die-cutting tools.

The RCF offers a range of advanced capabilities for finishing blank labels, multi-layer labels, blister foils, RFID smart tickets/labels and more.





PRINTING PRODUCTIVITY

Beyond the machine

In 2012, **ROTOCON** was appointed as local distributor for MPS – the Dutch-based manufacturer of flexo, offset, digital hybrid and packaging presses – known for ease of operation, exceptional print quality and high return on investment ratio.

MPS goes beyond the machine, through innovations in connectivity and productivity, by sharing its machine operation and applications knowledge, and offering best-in-class service.



Why press performance is vital

You can have the best press in the world but what if the operators don't receive proper training to run the machine for optimal performance? What if they only know how to run one kind of label and cannot accept more special, higher-margin applications? What if they create unnecessary waste and take too much time setting up jobs or changing rolls?

MPS has discovered that label printers and converters can achieve the biggest efficiency gains by analysing how the machine is performing – identifying and reducing bottlenecks and weak points – and making improvements that translate into savings of hours per day and substantial waste reduction. That's incredibly good news because these reductions lead to immediate annual savings of tens of thousands of Rands. Furthermore, the hours saved can be used to print labels and earn extra profit!

Beyond machine builders

That's why we added an extra dimension by focusing on services and processes that provide a key supporting role and contribute to our customers' competitiveness and profitability.

CEO, Atze Bosma, explains: 'Although our presses are top-quality, we offer label printers and converters much more. High-level service, and knowledge of connectivity and productivity are the foundation for optimal MPS machine performance. The result: extremely efficient production of the highest quality applications.'

By making use of hundreds of sensors in the press, continuous streaming data is collected and analysed to understand bottlenecks, benchmark, and continuously improve press



PRINTING PRODUCTIVITY

WWW.MPS4U.COM

**OPERATOR
FOCUSED,
RESULTS
DRIVEN**

BEYOND THE MACHINE



MPS GOES BEYOND THE MACHINE.

We strive for maximum press performance, for your maximum business results. We do this through innovations in Connectivity and Productivity, by sharing our knowledge of machine operation and Applications, and by offering best-in-class Service.

**FLEXO
HYBRID
OFFSET**

PRESSES FOR
**LABELS & FLEXIBLE
PACKAGING**

MPS Systems B.V.
Arnhem, the Netherlands
www.mps4u.com

Represented in South Africa by

ROTCON

performance. We call this press mirroring: essentially creating a digital version of the press in our systems ('a digital twin'). This enables all MPS specialists to work in a multidisciplinary way and align with a customer's team of specialists.

Having a digital twin that streams dynamic data enables better decision-making as it gives customers exact details of how to improve their overall print operation.

Information at your fingertips

Analytics from streaming data is accessible via an online dashboard, enabling information access from anywhere in the world.

More comprehensive analysis can also be made by zooming in on specific details, and MPS provides regular summaries in customised reports.

This makes our customers more efficient and faster than their competitors that don't make use of this valuable resource. They also gain significant extra capacity, thanks to the continuous implementation of best practices, reductions in errors and downtime – resulting in increased profits!

Supporting fact-based improvements

MPS Performance Programs support converters in improving performance and productivity and thus profitability.

Under the supervision of our dedicated and passionate team of specialists, we zoom in on factual data and work together with customers on activities involving their machine and workflow. This further improves performance and profitability levels.

We train operators to get the best performance from the machine and to improve workflow organisation.

Additionally, we check and evaluate the machine's technical status annually. Immediate support from specialists is available around the clock. We also do an annual benchmark scan, including TCO-analysis, to quantify the results of all the work we do together. And, new MPS machines come with a guarantee of up to 5 years!

Performance program benefits

- Continuous transparency in production performance
- Benchmarking with industry leaders
- Identifying bottlenecks, gaps, worst and best practices
- Decisions on productivity improvements based on accurate data
- Substantial annual savings due to more efficient workflow, time efficiency, and waste reduction
- Increased capacity to run more jobs

These all lead to higher productivity and profit, and it's a continuous process; improvement never stops!

The time is now

Real-time production performance data gives management an immediate perspective on how business is developing. Successful companies integrate these streaming analytics to move from a reactive to a more proactive approach for achieving operational excellence.

Over the past few decades, this working method has proven to be the gateway to real and sustainable success in other industries, resulting in more competitive and profitable companies.



SCREEN Truepress Jet **L350^{uv} SAI**



EXTENDED COLOUR GAMUT

7 colours
to ensure
superior colour
reproduction
while reducing
the ink film

HIGH PRODUCTIVITY & QUALITY

Speeds up to
80m/min that do
not compromise
the superb print
quality

STABILITY

The reliability and
colour stability of
the SAI is second
to none with a
proven uptime of
over 90%

EASY OPERATION

Automatic head
cleaning and
other touch
screen operations
makes your
operator love this
machine

BROAD APPLICATION

Truepress ink
works with a wide
range of standard
media and is
compliant with
many global ink
regulations

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IN PRINT**

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Driving digital innovation



In 2014, **ROTOCON** partnered with SCREEN as its specialist South African reseller of the Truepress Jet L350UV series label presses. Since then, the L350UV has attracted attention with eight local customer installations. Now in 2021, the SAI model expands applications and functionalities even further.

Colourful stability

In Japanese, SAI means colourful. With expanded colour gamut (ECG) inks, superior colour reproduction is now achievable with the SAI models. Orange ink enables richer colour reproduction in the red areas, while blue ink faithfully reproduces the blue tones in corporate, toiletry, cosmetic, and body care packaging.

Even more impressive is the stability of the Truepress Jet L350UV SAI – it assures colours remain the same – whether you print this morning, this afternoon, next week or next year.

Scalability

An entry-level model is available for printers who don't need the full functionality immediately, with options to upgrade as business grows. Even with a CMYK only configuration, printers can match around 80% of the spot colours within a Delta E < 3.

Additional heads can be added, when the business is ready. And, when a top speed of 80m/min isn't needed, converters can choose from the 50m/min SAI-E or 60m/min SAI-S models.

Reliability and robustness

What makes SCREEN's equipment productive over time and maximises throughput is reliability and robustness. Data analysis from over 170 installations of the L350UV+ series worldwide reveals an average user uptime in excess of 90%. Architectural and software improvements introduced on the SAI device will stretch that figure even further.

Fine text and smooth gradations

The Truepress Jet L350UV SAI uses Piezo inkjet technology with proprietary UV/LED curable inks to print the finest detail and capture the highest definition and smallest text point size at 600dpi print quality across a range of substrates.

Thickening of outline text is prevented with the choke function, providing excellent legibility – even for the large amounts of information on pharmaceutical labels.

Proprietary four-level grayscale droplet technology provides smooth reproduction of halftone images, while colour blending allows for subtle tones and photorealistic quality. The SAI supports seven colours and features room for one extra row of heads for functional inks.

Minimal build-up

The combination of small droplet heads (minimum size 3 picolitres) with advanced screening produces only a thin ink film and delivers a natural appearance.

Supports security printing

In combination with highly efficient print heads and proprietary inks, the transport mechanism tightly controls the media feeding to prevent meandering and ensures consistently high registration accuracy and small droplet size. Precision levels essential for detailed dot codes and other security printing are also assured.

High opacity white

Truepress white ink contains the maximum ratio of pigments to ensure high opacity. On the E model, white will run at 30m/min, while on the faster S and Z models white will have a throughput of 50m/min.

Low-migration model

The Truepress Jet L350UV SAI LM features a nitrogen purge mechanism, which helps reduce the oxygen density to an absolute minimum, to accelerate and maximize the curing process. Together with specially designed low-migration inks, the LM is the perfect choice for converters to quickly and cost-effectively produce premium quality labels compliant with stringent food-grade packaging criteria, eg. EuPIA Exclusion Policy for Printing Inks and Related Materials, Swiss Ordinance, and Nestlé Guidance.

Thin substrate support

A chilled roller enables highly stable and fine quality production on thin and heat-sensitive substrates, broadening the overall range of label/package applications on the SAI.

Variable-speed printing

A low start-up speed option reduces printing to 6m/min for easier registration adjustment and less waste when connecting inline to a post-press device. The speed can easily be increased/decreased in fixed steps.

One-touch cleaning

At the push of a button on the touch panel's maintenance screen, ink mist and other nozzle clogging substances are automatically cleaned during start-up or shutdown. Manual intervention is not required, reducing maintenance time to less than 15 min/day.

Specifications

Media width: 100-350mm

Printing size width: 322mm (max)

Repeat length: 50.8-2 400m

Media thickness: 40-350µm

Throughput: up to 80m/min for CMYK (OB) and 50m/min for white, depending on the model

Options: front and back sensors for duplex and reinsertion printing, splice detection sensor, corona unit, dual UV lamp, chiller, full-colour variable data processing, reverse feed, and MIS connection.





Illuminating sharp image capture

ROTOCON'S distribution partnership with German company, Rheintacho, began 5 years ago to provide labelling and packaging converters with light-intense, long-lasting and compact stationary stroboscopes to measure, observe and inspect very fast-moving materials.

High-performance RT Strobe 3000 and RT Strobe 5000 LED-stroboscopes provide powerful light output and a homogenous illumination area for web widths of 300mm and 500mm respectively. Their extremely short flash duration ($<5\mu s$), enables precise, sharply-defined image capture regardless of the speed of movement.

RT STROBE 3000 LED

- Frequency range: 1-120 000 flashes/min
- Light intensity (single flash): 0.7 megalux/30cm
- Light intensity (max): 6 000 lux/30cm

RT STROBE 5000 LED

- Frequency range: 1-120 000 flashes/min
- Light intensity (single flash): 1 megalux/30cm
- Light intensity (max): 7 500 lux/30cm

Additional controls

Each stroboscope can be controlled directly by the trigger signal of your system or by additional control units. When using these trigger options simultaneously, you can easily alternate between the signal inputs by using the switch on the reverse side of the device.

RT STROBE eco control: a simple, inexpensive unit for controlling flash frequency, which you can insert into a socket on the device's reverse side.

RT STROBE control: for adjusting the flash frequency, phase shift, delay time, and trigger divider. A cable connects this unit to the stroboscope and provides remote control convenience, even with difficult-to-access devices.

HIGH SHARPNESS



Did you know...

The sharp eyes of a hawk can spot their prey from a distance of 8 Km. Our stroboscopes visualize fastest movement with high image sharpness.



www.rheintacho.com

ROTOCON



SMARTSCAN 200% inspection!

SMARTSCAN is the first 200% inspection system for the label industry. With its unique, proprietary image acquisition process it offers new advantages for quality assurance and reduction of waste. And it offers excellent value for money.

www.erhardt-leimer.com

ROTOCON

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200% committed to higher quality and productivity

In 2017, **ROTOCON** found the perfect complementary quality control system for its range of ECOLINE RSI slitter rewinders to satisfy label printers/converters' ever-greater demand for cost-effective efficiency, quality, and accuracy (no defective material reaching end customers).

Erhardt+Leimer's SMARTSCAN system combines web monitoring, 200% inspection and label counting with ease of use via a one-touch button set-up. SMARTSCAN permanently checks the entire web width and length to detect and intelligently classify defects as printing errors, missing labels, unremoved matrix, splice points, and flags.

SMARTSCAN achieves this with double image capture – via two LED illumination methods rather than two cameras – to generate images of the web and evaluate them. This 200% inspection system makes it possible to detect defects in paper, transparent or clear-on-clear labels, and glossy film material printing that aren't visible with classical incident illumination (100% inspection).

This high-precision technology is backed by 100 years of dedication to continued excellence, which has helped this German family-owned company, grow into a leading global manufacturer of control and inspection equipment.



Specifications

Web width: 330mm, 430mm, 530mm
Field of view: 360mm, 460mm, 560mm
Resolution: 0.2mm, 0.3mm
Max speed: 300m/min
Max web offset: 10mm
Camera resolution: 2 / 3 megapixels

Easy and affordable print monitoring

ELSCAN OMS3 is a compact video system with an intelligent camera, featuring E+L's patented and proven DualView print monitoring technology. The two 5-megapixel cameras offer a field of view of 100 x 75mm – the images can be displayed on a touchscreen.

The computer is integrated into the camera unit. Therefore, only the cables for the mouse, monitor, synchronisation and power supply have to be connected to the camera crossbeam when installing the system.

The camera unit is mounted on a cantilever crossbeam and can be positioned either manually or through a motor. The maximum operating width is 580mm, and the maximum web speed is 400m/min.

High-precision web guiding

The ELGUIDER DRB23 is the perfect solution for narrow-web guiding across the entire frequency range thanks to its compact pivoting frame and maintenance-free brushless drive. Device commissioning is possible via a web-based management system, and the "start-up wizard" makes it very intuitive to use.



rosas
Maschinenbau GmbH
your printing and covering partner

Cheetah 500 Tabletop Rewinder

The Cheetah 500 operates at speeds up to 500m/min (depending on the substrate) for 9.9mm to 254mm/thin film. Possible inspection upgrades include inline code verification and label finishing.

www.rosas-maschinenbau.de/en

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Waste reduction: what the doctor ordered

In November 2020, **ROTOCON** teamed up with Rosas Maschinenbau, a second-generation family business that manufactures customised high-performance tabletop rewinder and inspection machines, as they share the same design philosophy underpinned by quality, productivity, and sustainability.

The ROTOCON team visited Rosas Maschinenbau's headquarters in Diedorf, Germany, after Labelexpo Europe 2019 and was impressed by the range of economically-viable and customisable solutions, which are complementary to the other slitting, rewinding and inspection machines it represents.



ROTOCON has placed the first order for a Cheetah 500 tabletop rewinder, which is due to arrive in South Africa in January 2021. It features two servo motors, splice table, splice and missing label detection, idler roller, inside/outside wrap rewinding, web and winding tension control, and integrated job memory. The Cheetah 500 operates at speeds up to 500m/min (depending on the substrate) for 9.9mm to 254mm/thin film. Possible inspection upgrades include inline code verification and label finishing.

The Gazelle high-speed bidirectional rewinder for imprinting labels is designed with a pre-installed interface for the fully-automatic 100% inspection module, quick release of tension axles (for simple reel change installations/removals), web tension (hard on the inside and soft on the outside) on the curve, and a 600dpi UV inkjet system for real-time database serialization.

The Hippo bidirectional rewinder prints and inspects braille codes on labels and booklets. This fully-automatic, servo-driven rewinding machine automatically stops when it reaches the predefined number of pieces, the end of the roll, a waste flag or web break.

Constant web tension enables easy switching between inside and outside wrap rewinding – the web and winding tension are separately adjustable.

Other beneficial features include a swing roller with ultrasonic sensor for web edge guiding, an integrated job memory that saves job set-up time and removable shafts for simple roll changes.

The Hippo's maximum speeds are 50m/min for printing and 200m/min for rewinding.

The Gorilla hybrid rewinder for booklet labels and thicker materials operates at a maximum speed of 305m/min. It features tension control on the rewind and unwind, and an unwind diameter of 676mm.

Rosas Maschinenbau also offers customised RFID solutions (high-frequency, ultra-high frequency and near field communication) with read/write and database synchronisation in combination with optical vision systems.



DOMINO

Digital
embellishment
technology

Revolutionary digital cold foiling, varnish
and white printing setting new efficiency
standards for label embellishment

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Digital dominion

In 2018, **ROTOCON** aligned with Domino Digital Printing Solutions, to offer cost-effective digital inkjet solutions for short-run requirements, including traceability codes and multiple language variants, security features, and anti-counterfeit measures.



The K600i uses Piezo inkjet technology with UV/LED curable or aqueous inks to create a non-contact form of digital printing with few movable parts. This simple design maintains the printer's cost-effectiveness and versatility across a wide range of substrates and 600dpi print quality.

Users can control ink usage and reduce the cost per job by selecting one of four drop sizes (6, 7, 11/14 picolitres) to optimise print quality on different substrates. Additionally, users only pay for ink and flush charges based on the amount used.

MODULAR INTEGRATION

The K600i's compact, modular design facilitates mounting on a press or finishing line via a roller or web extension section, enabling simple integration into an existing machine. It is configurable to a print width from 108-782mm.

Monochrome

Provides added value variable data printing – text, sequential numbers, barcodes and 2D codes – at a native resolution of 600dpi and operating speeds of up to 200m/min. Available with high-impact UV- and LED-curable inks and a range of specialist inks.

INTELLIGENT TECHNOLOGY

Domino's **i-Tech** components create a system that's easier to use and performs more flexibly and reliably.

i-Tech ActiFlow: a continuous ink circulation system degasses the ink, preventing air bubbles and blocked nozzles, resulting in fewer rejects and less maintenance.

i-Tech CleanCap: automated print head cleaning and capping station maintains constant print nozzle performance, reducing blockages.

i-Tech StitchLink: automated micro-motor controller technology enables precise head alignment (with no stitchline) for accurate registration and seamless print across full web print width.

Printing speeds:

- At 600 x 600dpi: 75m/min
- At 600 x 300dpi: 150m/min

Dual bar printing speeds:

- At 600 x 600dpi - 150m/min
- At 600 x 300dpi - up to 200m/min

Industry-standard inkjet and line controllers

The Domino Editor™ GT PC-based controller, with over 2 000 installations, is available for receiving and configuring data files for printing. Accommodates several data formats.

The Domino Editor® Starlight is the new controller platform which uses an intuitive Windows embedded standard graphical user interface that operators find easy to use. The controller supports the inline inkjet printing of 2D codes, barcodes, numbering, addressing, and personalisation.

Both controller options have data creation tools, such as cut-and-stack and step-and-repeat numbering standard. A range of machine control options meet various application needs, and network solutions enable remote data preparation and set-up.

Data hungry

Domino Editor™ RIP is designed for significant variable data content applications, requiring the highest quality output, even when a PDF workflow is preferred. This modular solution – which ranges from a simple desktop through to multiple rack mounted blades – can be configured to process your data requirements. It also supports full greyscale image processing for the highest quality printed output. It comes with options for PDF files as well as IPDS and AFP data streams.



UV RAY

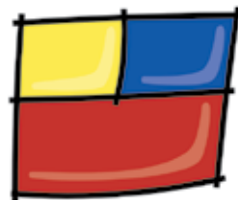
UV REFLECTORS

Tech innovation, excellent curing quality, extraordinary performances, maximum versatility and reliability, very low consumption: UV Ray dichroic UV reflectors have no competitors.

From first equipment to retrofit installation, they are the best of UV technology in international panorama.

www.uvray.it

ROTOCON



UV RAY

Reflecting productivity gains

Three years ago, the market demand for upgrading older presses with a competitively-priced UV ink curing system to do the same job motivated **ROTOCON** to sign a distribution agreement with UV Ray. This Italian specialist has over 20 years' experience in producing state-of-the-art dichroic reflectors from extruded aluminium that's multi-coated with borosilicate glass under vacuum conditions.

Each reflector model is designed with a quick shutter, infrared filter and smaller diameter lamps to increase UV output power and reduce working temperatures – resulting in significant lamp cooling savings, plus improvements in curing quality and productivity.

Lamp maintenance and replacement are simple and fast thanks to cassettes, which enable full extraction of the lamp body from the base. This open design means technicians can work on power packs rather than having to return them as trade-in units.



ATOM

All the features and performance of UV Ray reflectors in condensed form, making it the world's smallest UV reflector for flexographic printing. It can also be retrofitted to offset and letterpress machines.

MAXWELL

The original dichroic reflector for enhancing the UV curing quality and productivity of flexo, offset, silkscreen, and letterpress machines, both as original equipment and retrofits. It represents UV Ray's ultimate expression of technology and innovation and has inspired two subsequent models in the series because it guarantees maximum reliability and affordability.

LED

To remain at the edge of curing performance, UV Ray has partnered with major inks brands in introducing a high-end LED module that is fully swappable with existing units.

- High specific power: 20W/cm²
- Sealed to avoid contamination from ink and moisture
- Water-cooled for silent and clean use
- Over 70% of the output is available after 20 000 hours of full power use

TIME TO UPGRADE

With Phoseon UV LED CURING

"I recommend the Phoseon system because it allows your company to be more competitive. This new technology will help grow your business and increase the kinds of new jobs that you are able to take on and the type of customers you are able to attract."

Upgrade your flexographic press with Phoseon UV LED curing and watch your business transform.

More throughput,
More choice of substrate materials,
More uptime,
More reliability,
More energy savings,
More capability,
More business!

It's time to upgrade.

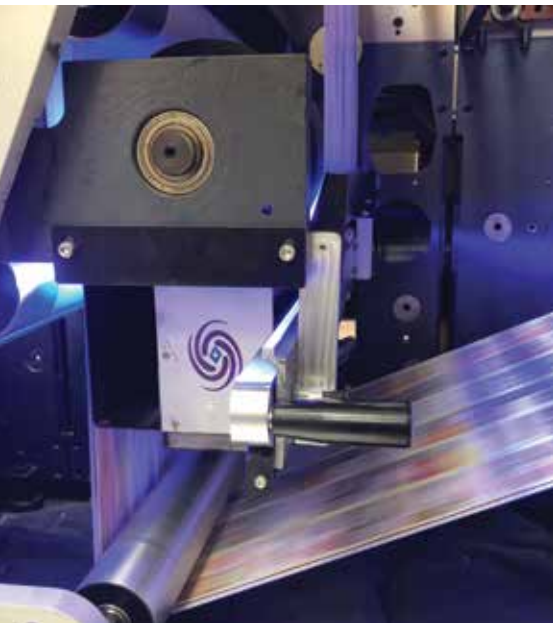


**YOUR TRUSTED PARTNER
FOR UV LED CURING**



Proven reliability, environmental benefits

Phoseon's patented UV LED curing technologies for new and retrofit narrow web presses – distributed by **ROTOCON** since 2019 – enable high-speed printing on a wide range of labelling, packaging and decorative printing materials.



WATER-COOLED CURING

The **FirePower FP601** system cures inks at maximum speeds of 365m/min with a small form factor, making it ideal for integrating into flexo presses with limited space. Made for print widths up to 675mm.

AIR-COOLED CURING

The self-contained **FireJet FJ605** and **FJ601** air-cooled solutions don't require a water chiller or air extraction system. The **FireJet FJ605** enables cure speeds of 300m/min on presses with advanced control capabilities. For print widths up to 675mm. The **FireJet FJ601** is ideal for flexo presses that don't require advanced controls and with speed limitations of 230m/min. It has a maximum print width of 525mm.

The intense output, low heat and reduced energy usage of Phoseon UV LED systems enables any size printing/converting operation to decrease material and operating costs while providing customers with superior products. ROTOCON helps match these turnkey integrated systems with press, process and factory requirements.

RETROFIT KITS

UV LED systems allow converters to optimise floor space because they don't emit ozone – eliminating the need for large blower systems and exhaust air ducting.

Phoseon retrofit installation kits are eligible for a three-year warranty with certified installation. Each kit includes UV LED light sources; the Flex Tower power and control system; power, data and press integration cables; custom mounting brackets; UV shielding; air- or water-cooled chill plate (to capture excess UV energy); plus cooling system and water manifold (water-cooled models).

Increased profitability

- Higher yields due to reliable curing
- Minimal maintenance/repairs downtime (no moving parts)
- Faster throughput (no warm-up time)
- Energy savings (50-80%)
- No disposal costs for mercury bulbs
- Lower operating costs

New capabilities

- Higher quality opaque whites and dense blacks
- Deep thorough curing (long UV-A wavelength)
- Low-migration for food-safe packaging
- Heat-sensitive substrates
- UV metallic range
- Fluorescent colours (no fading)



Enable your customers to win the battle on the shelf

If you would like to offer your customers more than 'just a printed packaging' and make their products stand out on the shelf, think embellishment.

Pantec offers a range of embellishment systems for labels, folding cartons and flexible packaging and supports you with process know-how and an excellent industrial network.

Learn more at
www.pantec-gs.com
+41 71 5210 808



Profitable single pass label decoration

In 2012, **ROTOCON** added another string to its finishing bow by partnering with Swiss company, Pantec GS Systems. This extended the benefits of outstanding flat-bed hot foiling – including less expensive foils and tools than rotary foiling, improved press performance and efficiencies, and reduced lead times – to converters of complex, high-quality wine, spirits and security labels.

RHINO SERIES

Designed for outstanding multi-stroke hot foil embossing, Pantec offers two machines models that are perfectly tailored to printers' requirements:

1. RHINO™ S – best suited for label printers dedicated to the production of impeccably-embellished labels.
2. RHINO™ E – recommended for printers that specialise in short production runs or that wish to include embellishment capabilities in their portfolios.

Multi-stroke design

The RHINO II S performs multi-foiling, blind embossing and foil embossing in a single pass with optimal register accuracy thanks to the single tool and rotating foil head, which allows length- and crosswise foil application.

Sharp, high relief

Flat-bed processing with high embossing pressure and temperature allows outstanding relief embossings, which can be overprinted.

Waste reduction

Pantec's robust, precisely-moving mechanical dancer system combined with servo-controlled foil tension achieves a stable flat-bed foil release – resulting in savings of up to 95%, depending on the design.

Winning combination

Up to six individually-controlled heating zones and electronically-controlled working area adjustment ensures perfect quality for designs combining large areas and fine lines.

Nano-embossing

Electronically-controlled embossing pressure and high embossing temperature combined with an enhanced dwell time pave the way for unique design features like rough-end nanostructures or security enhancements.

Patch perfection

A servo-controlled foil motion system and friction-free foil guidance provide efficient application of all patch types eg. hologram inseting, 3D spatial images, and lenses in register.

Fast set-up

The fast foil change system (no format parts), mechanical job saver plate and job data storage functions help minimise set-up time of new and repeat jobs to 5-10 minutes.

DEEP LENS PRECISION

A transparent lens design makes it possible to superimpose image motifs, colours or logos with a unique holographic depth effect. Economical application of lenses requires a high productivity rate. RHINO can apply multiple lenses across the web. Its register accuracy also ensures the lens is precisely positioned above the motif.

HIT YOUR MARK

Our **SuperCut** flexible dies and **OptiMag** magnetic cylinders are ideally matched to each other to ensure perfect label converting results. Completing your perfect die-cutting setup, the **SmartGap®** anvil is the leading adjustable anvil system that sets new handling, precision and efficiency benchmarks.

Leading label converters worldwide trust in the high-precision tools and outstanding service provided by Wink – your one-stop shop for die-cutting success. Learn more at www.wink.de



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Adjustable. Simply smart.

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You cut, we care.



You cut, we care.

Reliable precision cuts

In 2013, **ROTOCON** teamed up with Wink, the German-based manufacturer of die-cutting systems, as they share the same philosophy underpinned by premium quality, outstanding service and fast delivery times.

SUPERCUT FLEXIBLE DIES

Wink's decades-long investments in state-of-the-art CNC and production technologies and processes ensure evenly milled cutting edges and minimum wear on its SuperCut flexible dies. These investments are backed by minimum tolerance, maximum durability, and optimum cost-effectiveness guarantees.

SuperCut flexible dies are as varied and adaptable as the labelling sector. They have microscopic precision to converters' application needs and can be delivered within a 48-hour manufacturing and shipping turnaround time.

Options include individually-adjusted cutting edge height and angle, kiss-cutting, through-cutting and special applications (sandwich materials, booklet labels, microperforations, creasing, and embossing).

FLEXIBLE DIE FINISHINGS

Applying special types of finishings increases the die's lifespan during more challenging cutting applications.

- **Laser hardening:** for cutting-through and difficult-to-cut filmic materials in large quantities.
- **MCR coating:** for processing abrasive materials and inks (thermal paper, opaque white, luminous paints) and very long runs. Also available in combination with laser hardening for maximum performance.
- **Non-stick coatings:** minimise ink and adhesive residues on the die's surface and cutting edges, ensuring an undisturbed production process.

OPTIMAG MAGNETIC CYLINDERS

True-to-size magnetic and anvil cylinders are equally vital for excellent die-cutting results. Wink OptiMag cylinders are the perfect match for SuperCut flexible dies. Manufactured in standard dimensions and special formats, OptiMag cylinders stand out for their optimum precision, durability, and adhesion.

Bearer rings and journals are hardened for maximum durability. The rings can be dismantled for efficient revision. The magnetic area provides optimum adhesion for perfectly-fitting flexible dies.

SMARTGAP® ADJUSTABLE ANVIL

Within a short time since its launch, Wink's SmartGap® adjustable anvil system has become the leading adjustable system in the market. The cylinder gap can be adapted precisely to different facestocks and liners, ensuring optimum die-cutting results even for the most challenging labelling materials and thinnest liners.

Thanks to its unique stability features, the system runs smoothly – even at very high machine speeds, larger working widths and when cutting-through. Moreover, the SmartGap® prevents excessive component heating, eliminating the need for time-consuming and costly additional lubrication.

The analogue entry-model "Advance" can easily be upgraded to the "Touch" version, with digital control and ultra-high precision. With the upcoming "AutoControl" feature package, converters can make the next big step towards automation. The "AutoControl" system automatically monitors the cutting results and adjusts the die strike, ensuring maximum efficiency.



DuPont™ Cyrel® FAST 2000 TD
42x60 Thermal Flexographic Plate Processor

The DuPont™ Cyrel® FAST thermal developer is the most popular and reliable thermal flexographic plate processing system in the world, with more than 1 000 Cyrel® FAST systems installed globally. The Cyrel® FAST 2000 TD system uses dry, thermal technology to process high-quality Cyrel® photopolymer plates, eliminating the need for solvents. The system is highly efficient, easy to operate and extremely reliable.





New solutions for DuPont plate imaging

Cyrel® FAST thermal workflow

The thermal workflow brings together the best in colour quality and processing technology to deliver high-volume, high-quality results that give packaging the attention it deserves.

Using solvent-free thermal processing to produce a press-ready plate in less than an hour, Cyrel® FAST is a complete system supported by complementary Cyrel® equipment. It's the ideal workflow solution for a variety of printing applications, enabling faster processing, lower costs, as well as improved sustainability and press performance.

Faster processing

Cyrel® FAST thermal workflow is a complete hardware and consumable solution, which enables improved process control, product quality and consistency. It reduces plate production time by up to 75%.

Smaller footprint

Featuring a reduced environmental footprint, VOC emissions are cut by more than 98% when using the Cyrel® FAST 2000 TD compared to a solvent process.

Lower cost

Helps save money and materials by reducing plate consumption by up to 15% compared to conventional methods. The solvent-free process also reduces waste treatment and disposal costs.

Improved performance

Improves productivity by enabling faster set-up times, higher press speeds, and longer life of the print form.

In October 2020, DuPont appointed **ROTOCON** as the new South African distributor of its Cyrel® flexo plates, EASY technology platform, FAST thermal workflow, and associated equipment.

The partnership also enables ROTOCON to offer the newly-available Cyrel 500® equipment, designed to process smaller flexo plates of up to 66 x 86cm, to its traditional narrow-web customer base.

Cyrel® EASY technology platform

The EASY platform is for customers wanting to process a plate in a simplified workflow, while enabling print on a wide variety of substrates, with optimum speed and high-quality highlights on printed packages.

The platform simplifies the prepress process by building the flat-top dot directly into the plate, resulting in increased productivity and consistency.

Cyrel® EASY plates utilise the latest polymers to produce higher ink transfer and resolution. Customer testing has also shown significantly higher SID without compromising on highlights. Cyrel® EASY plates are available in engineered and smooth surfaces for Cyrel® FAST thermal and solvent processing.

Productivity

- Simplified workflow – no additional steps or equipment
- Consistency
- Comes up to colour quickly
- Reduces errors and rework
- Higher impression latitude
- Improved plate-to-plate consistency

Cost savings

- No need to invest in a nitrogen exposure unit, special exposure technology or lamination equipment to get flat-top dots.

Quality

- High ink transfer and colour saturation
- Improved mid-tones and highlights
- Print quality consistency throughout a run and from run to run

Press performance

- Print consistency across multiple press locations
- Improved solid ink density with excellent fade to zero
- Higher press speeds
- High durability on press



Ultra-light and
high-performance
Anilox sleeves

At Cheshire Anilox Technology we use the latest Fibre laser technology with state-of-the-art optics that provide unparalleled control of the beam for high line screen engravings, with consistent cell geometry and improved ink release properties.

www.cheshireanilox.co.uk

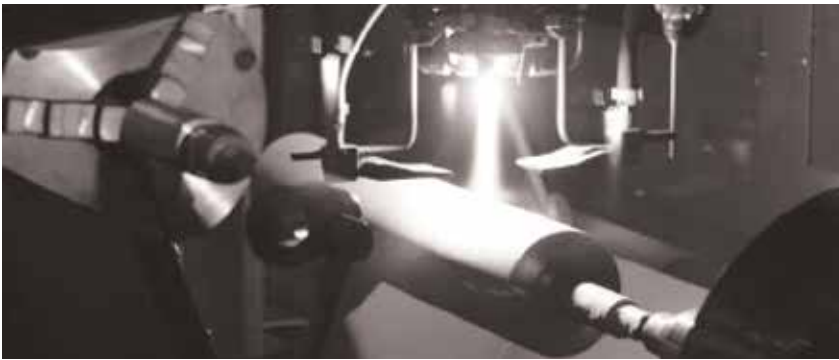
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Rolling with line count advances

In 2017, **ROTOCON** teamed up with Cheshire Anilox Technology, a UK-based manufacturer of high-performance, digital-precision engraved ceramic anilox rollers, to meet printers' exacting requirements.



TACTILOX

A ground-breaking engraving technology that reproduces the tactile effect of rotary screen, allowing printers to achieve a two-dimensional feel to the package without the use of embossing or expensive tooling. The ability to control the distribution of large volumes of matt/gloss varnish results in a smoother finish with significantly reduced orange peel and pin holing.

TWINFLO

This engraving produces a thicker ink film with smooth coverage, which eliminates pin holing and achieves high coat weights in a single pass. Recommended for adhesives, varnishes, metallic inks, and cold foil applications.

EASYFLO

The 30° channelled engraving allows the ink to flow from cell to cell as the roller is spinning. It reduces pressure behind the doctor blade, eliminates UV spitting, and results in streak-free printing.

EASYFLO HD

Designed to mimic the opacity of screen whites on film in a single pass while running at 50-60m/min. Combined with the use of low-viscous, fast-curing, highly-pigmented inks and hard-capped plates; EasyFlo HD achieves opacity levels of 85%, without mottling or pin holing.

PROFLO

Designed for use with HD flexo plates and seven-colour print jobs, this high-release cell offers as much as 15% additional ink compared to conventional engravings. It allows printers to achieve high colour densities at extremely fine line counts, and eliminates the chance of dot dipping when using dot sizes of 8-10µm.

MAXFLO

The ability to use one anilox roll for combination print jobs reduces inventory significantly and makes it easier to standardise aniloxes and streamline the printing process. Fewer specifications also reduce make-ready times and changeovers.

MAXFLO+

Increased ink release and transfer efficiency at high line counts mean the anilox can cover more print applications with one specification and achieve consistent quality in every run from start to finish. This is critical in fixed palette or HD flexographic techniques at high press speeds (+ 600m/min). It's also designed with improved ink flow to reduce UV ink build-up behind the doctor blade and eliminate spitting issues.



Precise detail
Vibrant colour intensity
Stunning text clarity



Rotary screen printing effects help take wine, beauty and speciality foods labels to the next level. Kocher+Beck's high-definition, precoated TecScreen printing plates are available for flexo, offset/digital presses in grades that cover common tasks, such as wire cloth grades for fine line and text work, and coarser grades for spot coatings and printing relief varnishes.

www.kocher-beck.com

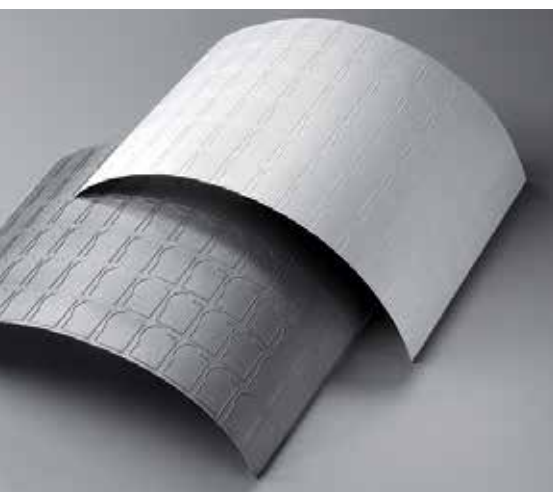
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Ultra-modern manufacturing

ROTOCON partnered with German-based Kocher+Beck in 2017 to supply world-class rotary screen printing plate and die-cutting technologies.



PLATES MARRY TECH AND AFFORDABILITY

Affordable rotary screen printing is an invaluable tool when producing labels for leading brands in the highly-competitive wine, spirits, beauty and speciality foods markets.

Kocher+Beck meets this need with TecScreen, a high-definition, precoated printing plate, made of nickel-plated stainless steel, photopolymer coated and protected against mechanical damages with a carrier foil under strict UV-protected clean room conditions.

Available in most common roll widths, TecScreen features a high-contrast red coating that facilitates visual inspection and increases reliability. Converters can, however, request special roll dimensions or sheets cut to size.

TecScreen plates are available for flexo, offset or digital presses. They are also available in grades that cover common tasks, ranging from fine line and text work to spot coating and printing of relief varnishes.

ROTOCON also offers consumables and devices for screen production such as dryers, washout boxes, welder terminals and assembly towers.

DIE FLEXIBILITY

Kocher+Beck's range of six flexible dies is the culmination of decades of experience, backed by a continuous development and improvement programme.

AI-Universal

Suitable for kiss- and total-cutting jobs involving self-adhesive and single-material products. Profile heights range from 0.30-1.5mm and cutting angles vary from 30° to 110°.

Gluex Ultra

A tried-and-tested special coating that guarantees optimal anti-adhesion without compromising on cutting and label quality. It's ideal for emerging adhesive bleed or blocked label reels.

3L Laser Long Life

Novel laser hardening technology increases hardness levels to 65-68 HRC and extends service life.

Chrome 24

Perfect choice for large runs with abrasive thermal or thermal transfer SK paper. Its 0.01mm chrome layer has a hardness of 70 HRC for ultra-high performance with minimal wear.

Gluex Plus

Special coating with excellent non-stick properties in standard applications.

Nanotec

An ultra-thin microcoating with a hardness of over 80 HRC reduces friction and glue/ink deposits on cutting contours. Suitable for abrasive plastic and paper materials.



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