



ROT  **CON**

PRODUCT PROFILE 2021





ROTOCON
RDF 340

ROTOCON
RDS 340



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.

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.

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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: ± 0.15 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.

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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.

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.

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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

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PRO MOUNT Platemounter

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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