

Ravenwood Packaging

Presents

COM 500 COATER

**LINERLESS CONVERTING EQUIPMENT FOR
FAULTLESS LINERLESS LABELS**

COM 500 - Coater Functionality

The Com 500 coating machine is the only coating system dedicated to running and delivering high quality Ravenwood linerless labels. Designed to work to the correct specification required for applying labels to foods packs with applicators that fall under the Ravenwood Nobac machine range.

Linerless Explained

A linerless label is a pre-printed, pressure-sensitive label devoid of backing paper or liner. These labels come wound on a roll or reel, featuring a silicone strip on the top and a corresponding adhesive strip on the underside. This configuration allows the labels to adhere to themselves, eliminating the need for backing paper or liner during application

Com 500 Coater Performance

The Com 500, designed and manufactured in the UK, is tailored to seamlessly integrate with Ravenwood's linerless system. Built with a modular design, it can efficiently apply silicone and adhesive to pre-printed labels, yielding a 'linerless' label solution.

- Simultaneous application of pressure sensitive adhesive and UV curable silicone lacquer.
- Nordson adhesive pre-melting and delivery system allows for up to 12 slot heads with screw adjustments for glue strip widths.
- Laser micrometer system.
- Variable line widths from 3mm to 45mm achieved.
- Slits and rewinds multiple lanes into finished reels, achieved in one pass.
- Coating speeds up to 130 metres per minute.
- Silicone is cured instantly via the UV curing system.
- Finished reels are wound on the 'three shaft turreting system' to required configuration.
- NEW Silicone Wheel Support Air Shaft speeds up changeovers.
- NEW Laser Micrometer allows for enhanced glue weight specifications.
- Web guidance throughout the process.

All Com 500 machines are supplied with a support package for servicing, spares and technical assistance.



COM 500 - Operation

The Com 500 Human Machine Interface (HMI) features user-friendly screens for straightforward and precise operation. The dashboard facilitates control over parameters such as the number of glue lines, glue weight, as well as meterage on a completed reel, including length and tension.

Com 500 Build Statistics

- Dimensions: 4 metres wide / 2 metres deep / 2.7 metres high.
- Master reel diameter 1000mm.
- Maximum finished diameter: 245mm.
- Substrate width up to 500mm.
- Automatic control, drive system and electronic components.
- Machine operating program to provide automation and control.
- Precision engineered and SMC pneumatic components.
- Power Supply: 415V 50Hz.

NEW Silicone Wheel Support Airshaft

The new silicone support airshaft applies strips of silicone to Ravenwood's linerless labels and has been designed to replace the current (and standard) ETP locking Bush system.

- Rigorously tested in a production environment.
- Faster pattern set up.
- Quick and easy to operate.
- No expensive locking bushes to break and replace.
- Much lighter than the previous system.
- Fitted as standard to all new Ravenwood Com500 coaters and can also be retrofitted to (most) existing machines in the field.

NB: Current customer stock of silicone wheels will not work on the new Airshaft but can be modified with a 6mm keyway. Alternatively, there is the option to purchase replacement silicone wheels from Ravenwood.

NEW Laser Micrometer

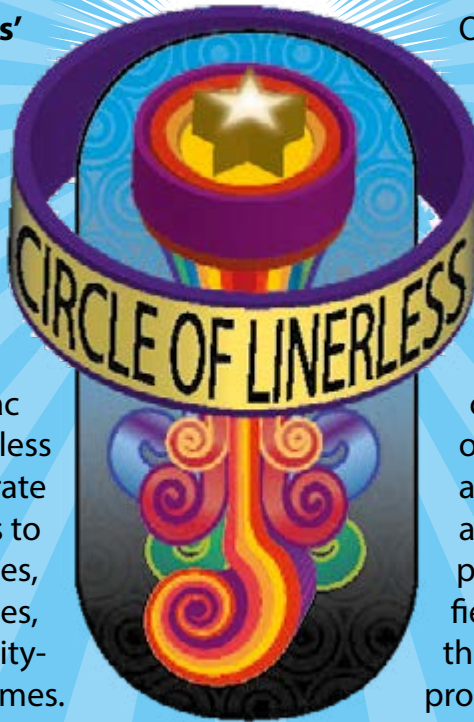
This state-of-the-art scanner boasts unrivalled accuracy via a 1mm square beam of light.

- The scanner shines a beam of light through the adhesive and measures the difference in the angle of refraction. This allows the coat weight to be determined with great accuracy.
- Effective on all substrates including clear film.
- Major leap forward in quality assurance, alleviating the need to manually measure the adhesive coat weight offline.
- Time and cost efficient.
- Supersedes the previous IR Scanner.
- Fitted as standard to all new Ravenwood Com 500 coaters and can also be retrofitted to (most) existing machines in the field (contact Ravenwood for more details).



At Ravenwood, we offer more than just machines, we deliver the full linerless solution.

The 'Circle of Linerless' represents our integrated approach to the entire process, emphasising the trust we establish with our clients. We are masters in the field of linerless engineering. From the Com 500 coater for label production to the Nobac range of applicators for seamless application. We collaborate with raw material suppliers to develop optimal substrates, adhesives, and silicones, ensuring consistent and quality-driven outcomes.



Our VXR[®], marks the culmination of the process, providing end-of-line quality control. Incorporating Vision, X-ray, Seal Inspection and Deep Learning, it ensures that the packs feature flawless linerless labels, as well as products that are free from contaminants. Furthermore, our network of global printer and machinery distributors are also well versed in this process and are experts in their fields, offering peace of mind throughout the entire labelling process.

Nobac 5000 Applicator Range

Our range of Nobac linerless label applicators are designed for maximum flexibility, for applying Ravenwood linerless labels. In addition to sleeving fixed-weight products, these machines can link to weigh-scales from a range of manufacturers for variable-weight products, as well as check weighing.



VXR – Vision & X-ray Pack Inspection System

Incorporating Vision for identifying faulty labels combined with x-ray for detecting contaminants, seal inspection for checking the seal and Deep Learning, which inspects characters within the designated area for date codes and other information. This compact setup offers an all-inclusive solution for end-of-line quality control.



**CONTACT US TO FIND OUT MORE ON THE COM 500,
INCLUDING COST AND LEAD TIMES.**

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