



NONWOVEN CONVERTING EQUIPMENT



NONWOVEN COATING & LAMINATING APPLICATIONS

Wide Web Coating & Laminating Machinery

The coating and laminating application is for an EVA water based adhesive to be applied wet approximately 8-10 gms via the annilox roller and closed chamber doctor blade unit. The machine can coat and laminate a variety of substrates but for this specific application the EVA adhesive is transferred on to a 20 micron LDPE film and laminated onto either wetlaid or airlaid base materials. The coating and lamination section is supplied with a complete wash down, purge and cleaning unit which also discharges the waste liquids into a container for correct disposal. Heat activation for cross linking and drying of the adhesive is required during the lamination process and this is supplied by the DRC specifically designed microprocessor controlled infra red zoned heating system. The machine has facility for double side coating, web spreading and perforating of one side of the film when coating both sides of the base material.



Narrow Web Coating & Laminating Machinery

Narrow tape coating and laminating applications inclusive of alpha numeric matrix type web path options for multiple substrate coating & lamination.

The finished product can be either pancake or traverse spool rewind relative to the required application.



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SLITTING & REWINDING MACHINERY



Duplex Slitting & Rewinding Machine

Model DCS-1250 Duplex Centre-Surface slitting and rewinding machine for multiple roll conversion via pneumatically actuated crush cutting knives against hardened anvil roller. Incorporating a jumbo roll input manipulator, grab unit, rewind roll removal hoist and rewind roll up ender unit.



Simplex Slitting Machines

These machines are specifically used for larger roll production where the slit coils are rewound onto a common rewind mandrel, these machines are best suited for higher speed production of large rolls, and wider web widths are required. The weight of the slit rolls is supported during operation by the surface assist drum roller which allows smaller rewind cores sizes to be used. One thing to be noted is that due to winding on the single mandrel materials which can be separated quite easily should only be used on this particular type of machine.

Large Rewind Slitting Units

The machine will accommodate master rolls of 1350mm diameter x 750mm wide on 76 & 152mm internal diameter cores. It will unwind under controlled tension, centre-slit and edge trim at speeds up to 350mpm these units are cantilevered for ease of loading and unloading of the product.

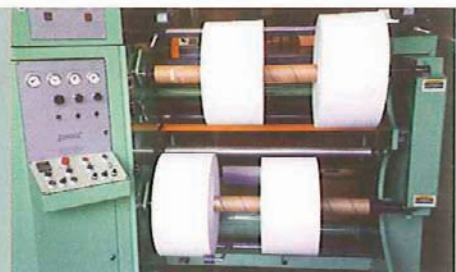


Turretting Rewinder

These simple manually operated turretting rewind units are economical and very efficient for the production of short run rewind roll from large jumbo master rolls. The roll being rewound is fully supported both ends to ensure quality of rewind tension. Once the roll length is achieved the operator releases the end support and then manually turrets the shaft to the off-load position. The next roll is then running whilst the finished roll is off-loaded and palletised, which allows for high output and consistent productivity.

Duplex Centre - Rewind Slitter

Model DC-600 slitter rewinder, these general purpose machines are extremely flexible and easy to operate. The rewound finished rolls are fully supported during winding process but are cantilevered for easy and ergonomic off-loading by the operator. These models can be supplied in various widths up to a maximum 1800mm.



Roll Doctor / Salvage Rewinder

Model SC-800. These machines are supplied generally for the purpose of re-working badly wound rolls of material, or for re-working and editing materials for the removal of any faults which may have been induced in either manufacture or conversion of the master roll.

These machines turn problems into profit!

SPOOLING & TRAVERSE REWINDING UNITS

This "JUMBO" spooling system is also modular in design, using 4 station spooling modules. The unwind incorporates "In-Line" slitting. The Maximum spool size is 1000mm diameter x 1000mm wide, with a maximum speed of 500 mpm. ▶



◀ This "JUMBO" spooling system is modular in design, using 2 station spooling modules. The Unwind section takes "PRE-SLIT" rolls and can support up to 10 spooling stations. The maximum spool size for this machine is 1200mm diameter x 1000 mm. The maximum speed is 500mpm.



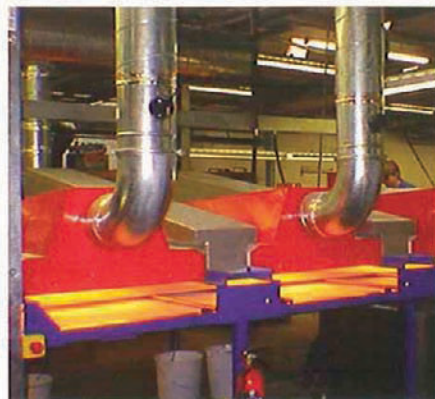
A Standard "Multi-Station" system. Using a modular expandable rewind design. The Unwind section has integral guiding and slitting. The rewinds have individual tension control. We have various spool sizes for this machine: From 300mm wide x 400mm diameter, up to 500mm wide x 500mm diameter, with the maximum speeds up to 400mpm.



We also make small/simple spooling systems like the single station machine featured on the right. This has been developed specifically for the converter with only a small demand. It takes "Pre-Slit" conventionally wound material and converts it into spools at speeds up to 400mpm.

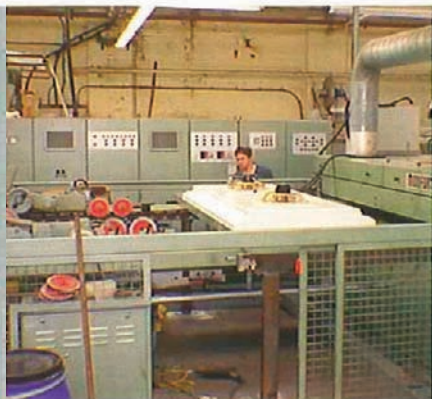


ELECTRIC INFRARED PRE-HEATING & DRYING SYSTEMS



These pictures show good examples for a pre-heat system of infrared being used prior to entry of a stenter drying system. Typically up to 30% of the energy used is to heat up excessive moisture prior to drying.

Why not add a few meters of I/R and improve your production, speeds and productivity and more often than not reduce your energy bills?



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ANCILLIARIES



Roll Logging Units:

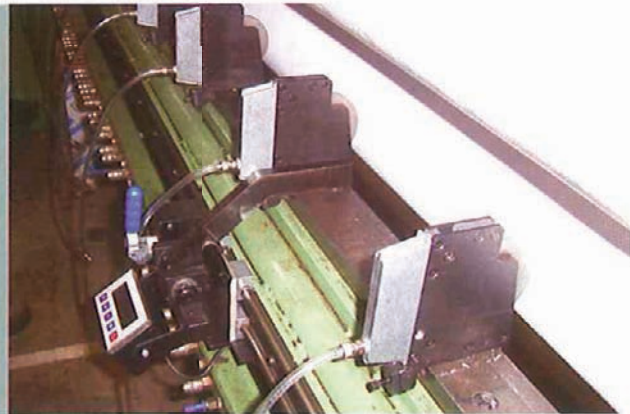
Simple manual log roll cutter, this unit cuts short lengths of rolls from the log roll of nonwoven type products.

This unit can also be an automatic, pre-selected, cut to length unit.

Digital Knife Setting Systems

The picture on the right hand side of the page shows a simple manually adjustable, digital knife setting system. These units are quick and easy to use, and the operator has a clear digital readout for ensuring accurate setting of the slitting knives.

Saves you money – Saves you time!



Manual Core Cutters

A range of core cutters are available from DRC. Simple low cost manual cutting units as featured on the left for low core usage!

We also have Semi-Automatic & Fully-Automatic core cutting machines.



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