

**vectra**  
Systems

## Turret rewinders



**abg**  
International

## LCTR 330, 410

### 4 spindle entry level turret rewriter

The LCTR is ideally suited for turret rewinding of standard self-adhesive label products. The machine is made to a fixed specification, which results in a very competitive entry-level price. Using the latest technology in inverter drives, the rewind mandrels are driven by A.C. motors capable of producing finished roll hardness (tension) equal to turrets using electro magnetic clutches. As with all new generation Vectra turret rewinders a great deal of attention has been given to reducing set up and make ready time, enabling the machine to be used for shorter run lengths.

#### STANDARD SPECIFICATION

Maximum roll diameter	350mm
Maximum web width	330mm or 410mm
Air Mandrels	4 off at 76mm as standard
Maximum web speed	100mtrs/min with 25mm to 38mm mandrels 150mtrs/min with 38mm to 76mm mandrels
Counter	Labels, Feet or Metres
Constant torque tension control, 6 web dividers (5 lanes), Auto roll eject mechanism, Adjustable core stop, Hot melt core gluing device complete with 5 transfer wheels. Hot melt tail gluing device, Finished roll collection arm.	



## ECTR 330, 410, 510

### 4 spindle turret rewriter with drive options

The basic ECTR machine includes all the features and benefits of the LCTR. However, unlike the fixed format LCTR the ECTR machine is designed and built so that it can be expanded to a higher specification. Features such as servo drive and closed loop tension control can be specified which enables the machine to produce a much wider range of products/substrates and rewind at lower tensions.

#### STANDARD SPECIFICATION

Maximum roll diameter	350mm
Maximum web width	330mm, 410mm or 510mm
Air Mandrels	4 off at 76mm as standard
Maximum web speed	100mtrs/min with 25mm to 38mm mandrels 150mtrs/min with 38mm to 76mm mandrels
Counter	Labels, Feet or Metres
Constant torque tension control, 6 web dividers (5 lanes), Auto roll eject mechanism, Adjustable core stop.	



# STR 330, 410, 510

## 4 spindle turret rewriter for advanced applications



The Servo drive Vectra turret rewriter is the most technically advanced turret available today. Primarily the STR has been designed to produce a quality product with little input from the operator. The STR has many new features and boasts a change over time of approximately 10 minutes. With the Nordson core gluing system a minimum cycle time of 10 seconds is possible. The latest touch screen H.M.I unit with its graphical representation of all setting parameters eliminates the use of multi lingual text and assists the operator with job set up and error messages.

### STANDARD SPECIFICATION

Maximum roll diameter	350mm
Maximum web width	330mm, 410mm or 510mm
Air Mandrels	4 off at 76mm as standard
Maximum web speed	100mtrs/min with 25mm to 38mm mandrels 150mtrs/min with 40mm to 76mm mandrels
Minimum cycle time	10 seconds (when fitted with "Nordson" hot melt core gluing)
Counter	Labels, Feet or Metres
Taper tension control, servo drive - closed loop tension control, 6 web dividers (5 lanes), Touch screen H.M.I with graphic operator instructions and error messages, Auto roll eject mechanism, Front and back adjustable core stop, Lead screw adjustment to all settings for quick make ready.	

# STRS 330, 410, 510

## 4 spindle turret rewriter for advanced applications with built in slitting

The STRS shares all the features and benefits of the STR with the addition of a built in slitting unit and/or web turn bar. Note as an alternative an independent slitting module can be used with the standard STR (see page 6 for more details). The choice of slitting/turn bar options depends upon customer's individual needs.

The standard rotary scissor slitting unit consists of the following features:

- Quick release knife and anvil drive shaft for offline setting
- Automatic lateral and vertical movement of the top knives
- Cross web adjustment

### STANDARD SPECIFICATION

Maximum roll diameter	350mm
Maximum web width	330mm, 410mm or 510mm
Air Mandrels	4 off at 76mm as standard
Maximum web speed	100mtrs/min with 25mm to 38mm mandrels 150mtrs/min with 38mm to 76mm mandrels
Counter	Labels, Feet or Metres

Taper tension control, Servo drive - closed loop tension control, Quick change rotary scissor slitting (4 knives), 6 web dividers (5 lanes), Touch screen H.M.I with graphic operator instructions and error messages, Auto roll eject mechanism, Front and back adjustable core stop, Lead screw adjustment to all settings for quick make ready.



## HDTR 330, 410, 510, HD4

### 2 or 4 spindle turret rewriter for heavy duty / large diameter rewinding



The 4 spindle heavy duty Vectra turret rewriter is a semi-automatic machine intended for continuous winding and to be installed in-line with a range of roll to roll label printing presses without any mechanical or electrical interfacing.

This machine can wind rolls up to 350mm diameter in 4 spindle mode and 500mm diameter with 4/2 option. The maximum web width is 330mm, 410mm or 510mm wide, on a range of core sizes from 25mm to 150mm diameter. It can be set to wind a given amount of material, pre-selected as a linear measurement or label quantity, then cut the web and automatically transfer the cut end to a new pre-glued core without stopping or slowing down the parent machine. The finished rolls are automatically ejected onto a loading arm for easy removal.

To ensure total reliability the turret rewriter is controlled by a PLC which also offers the flexibility to change the machine's parameters to suit customer's individual requirements.

#### STANDARD SPECIFICATION

Maximum roll diameter	350mm (500mm with 2 spindle option)
Web width	330mm, 410mm or 510mm
Air Mandrels	4 off at 76mm as standard
Maximum web speed	100mtrs/min with 25mm to 38mm mandrels (330/410mm models only) 150mtrs/min with 38mm to 150mm mandrels
Counter	Labels, Feet or Metres
Taper tension control, 6 web dividers (5 lanes), Core positioning stop, Auto roll eject mechanism.	

## GTR 330, 410

### 4 spindle glueless / coreless turret rewriter

The Glueless Start Vectra has been designed to satisfy the increasing demand for a clean breakaway of labels from the core. The unique glueless system automatically holds the labels to the core at the start of a new roll without stopping the converting equipment.

This unique system boasts the following advantages:

- No hot melt core glue bath - eliminates stoppages to refill the system
- Quicker set up time (no glue transfer wheels to set)
- Guaranteed to be no glue deposit on the substrate
- Coreless rewinding is possible when fitted with special mandrels

#### STANDARD SPECIFICATION

Maximum roll diameter	280mm (4 spindle mode), 400mm (2 spindle mode)
Maximum web width	330mm or 410mm
Air Mandrels	4 off at 76mm as standard
Wrap around tooling	To suit outside diameter of core
Maximum web speed	100mtrs/min with 25mm to 38mm mandrels 150mtrs/min with 38mm to 100mm mandrels
Counter	Labels, Feet or Metres
Taper tension control, Core positioning stop, 6 web dividers (5 lanes), Auto roll eject mechanism.	



# SGTR 330, 410, 510

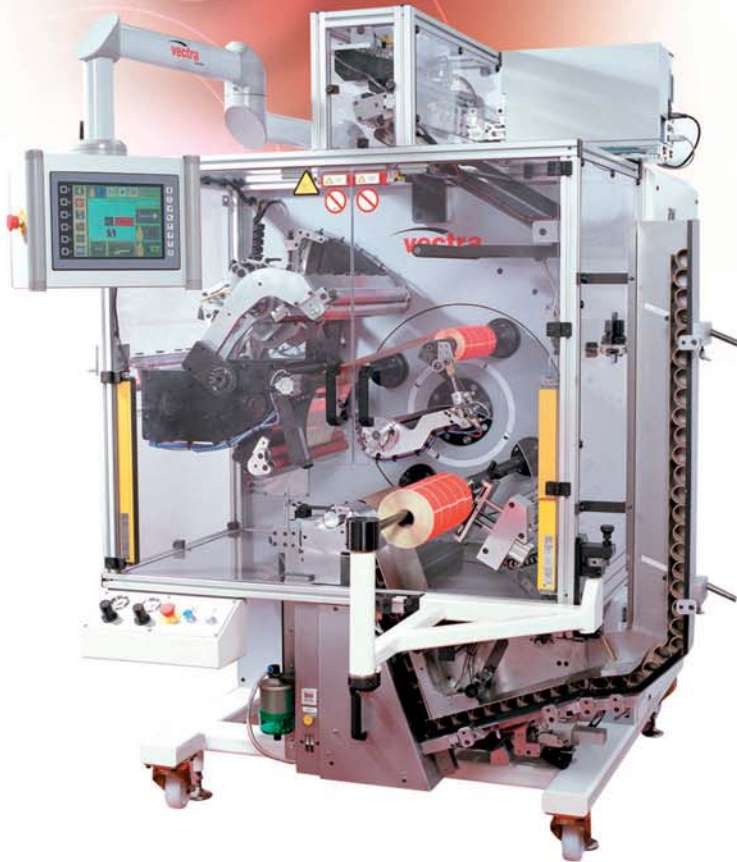
## Glueless start turret rewriter for advanced applications

The Servo Drive Glueless Start Vectra not only holds the substrate to the cores at the start of a new roll without stopping or slowing down the converting equipment, it can also be fitted with a print and apply label applicator to close the finished roll with a label. A thermal transfer printer can print fixed or variable data to the roll closure labels. The printed labels are collected onto a unique mechanism (patent pending) that applies the labels in one movement to all the finished rolls. The label applicator is fully programmable at the machine touch screen to suit each individual job requirement.

### STANDARD SPECIFICATION

Maximum roll diameter	350mm
Web width	330mm, 410mm or 510mm
Air Mandrels	4 off at 76mm as standard
Wrap around tooling	To suit outside diameter of core
Maximum web speed	100mtrs/min with 25mm to 38mm mandrels 150mtrs/min with 40mm to 76mm mandrels.
Counter:	Labels, Feet or Metres.

Taper tension control, Servo drive - closed loop tension control, 6 web dividers (5 lanes), Touch screen H.M.I with graphic operator instructions and error messages, Auto roll eject mechanism, Front and back adjustable core stop, Lead screw adjustment to all settings for quick make ready.



## Core Loader

### CLB 330, 410, 510

The new Vectra Automatic Core Loader uses the latest servo drive technology, together with a unique mechanism (patent applied for) to enable cores to be positioned onto the rewind shaft accurately. This new generation core loader offers the option of having an accurate space or gap between each core as it is loaded. This new core positioning feature is essential for certain products. With the aid of a touch screen HMI unit the operator inputs the entire variable information: core o/d, length, spacing & quantity.

### STANDARD SPECIFICATION

Core O/D	From 13mm (1/2") to 113mm (4 1/2")
Core Length	From 15mm (5/8") to 95mm (3 3/4")
Web Width	330mm (13"), 410mm (16"), or 510mm (20")

### OPTIONAL EQUIPMENT

Automatic bowl feeder



# features



## GLUE WHEELS & SCRAPERS

The glue wheels rotate in a bath of molten glue, and transfer the adhesive onto the cores; the scrapers remove the excess adhesive from the sides of the wheels, preventing over-application and stringing.



## VACUUM HEADS

The vacuum heads are used to pick up the closure labels as they are dispensed out of the printer, and transports them to the finished roll, where they are accurately positioned to seal the end of each roll.



## GLUE WHEEL SETTING FIXTURE

The glue wheel setting fixture is used to pre-set the position of the glue wheels, prior to the assembly being placed into the machine. The unit is fitted with an electrically heated element that melts any glue residue on the glue wheels and shafts, allowing the wheels to be moved into the correct position whilst removed from the machine.



## COLLECTION CHUTE

The collection chute is ideal when rewinding small diameter rolls, because the finished products can be ejected off the mandrel and onto the chute, where they can be quickly and easily removed by the operator.



## NORDSON HOT MELT GLUING SYSTEM

As an alternative to glue wheels, a programmable Nordson Hot Melt Gluing System can be specified. This system allows the operator to set the core gluing in seconds. Note only available on STR and STRS machines.



## TAKE OFF CONVEYOR

The take off conveyor is designed for quick transfer of finished rolls from the rewind mandrel to the packaging line without the intervention of the operator.



## KNIFE SETTING FIXTURE

The vernier measuring scale ensures quick and accurate positioning of the scissor slitting knives onto the knife shafts, prior to the shafts being fitted into the machine.



## FRONT & BACK CORE SUPPORT

This device carries both front and back stops which can be adjusted by a hand wheel, enabling the cores to be accurately positioned to suit the web. The front stop is spring loaded, and is pushed aside as the cores are being loaded onto the mandrel. This device is standard on the STR, STRS & SGTR models, and can be specified as an option on the ECTR.



## CORE LOADER TOOLING

This tooling is required to ensure a smooth and accurate transition of the cores from the lifting mechanism to the positioning nest. To ensure correct positioning, the individual nests are made to fit the specific core sizes.



## MANDREL CONSTANT END SUPPORT

To enable rewinding to be carried out on small diameter cores, this device supports the end of the mandrel as it moves from the cut position through to the rewind position. It must be specified on any STR, STRS, or SGTR with a web width of 330mm and over if it is to run from 12mm up to 24mm mandrels. It must also be specified on the 510mm machine when running any mandrel under 50mm diameter.



## WRAP AROUND TOOLING FOR GLUELESS REWINDING

When rewinding without glue, it is essential that the web is correctly wrapped around the core (or mandrel if rewinding coreless) at the start of the winding operation. To enable this, special tooling is used to create a precise path around the core.



## END OF ROLL LINE MARKER

This pneumatically controlled line marker can be easily fitted onto the press or onto a Vectra stand alone slitting unit. Programmed to be actuated as the end of the roll approaches, it leaves a clearly defined indicator, which can be on either the face or backing of the web.

# Modules for Off-Line Operation

## Unwind & slitting modules

The versatility of the Vectra range ensures that it is possible for customers to maximize their production by specifying modules that exactly match their requirements.



To allow for off-line operation, an unwind module can be specified and is available with the options of a roll lifter, web guide or slitting. For in-line operation a stand alone slitting unit is available and this can be ordered with a web guide and a turn bar.



## Stamp Rewinder

Vectra's expertise in winding a wide variety of materials has allowed them to custom build equipment specifically for the rewinding of postage stamps. These stamp rewinders can be equipped as a full converting line if required, including unwind units, festoons, die cutters, ink jet marking systems, with 4 spindle multi-lane turret rewinding, with a variety of options for roll closure including banding, and adhesive label closure.

© **Notes**

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