

# Daco

## Label & Converting Machinery



### Daco SI Inspection / Slitter Rewinder

The Daco SI Inspection / Slitter rewinder offers both flexibility and high performance. Its unique design includes a quick make ready rotary scissor slitting box and a HMI operator interface for quick and easy job set-up.

Both rewind and unwind tensions are fully and independently adjustable. The unwind also has a programmable end of roll function via the HMI, which allows the operator to select the end of roll diameter. An electronic web guide ensures that the finished rolls are perfectly wound and an inspection table with

adjustable splicing facility (with pneumatic clamps) is fitted as standard, enabling splices to be made both neatly and easily.

Pneumatic airshafts for both the unwind and rewind means that changing rolls could not be simpler, and a web advance system makes it easy to attach the web to the core when starting a new roll.

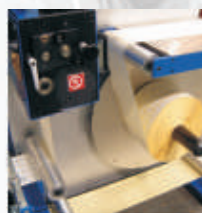
#### Standard Specification:

- Web width: 250mm (10"), 330 mm (13") or 410mm (16")
- Maximum unwind diameter: 700mm (27.5")
- Maximum rewind diameter: 360 mm (14")
- Rotary slitting unit with knife separation & lateral adjustment
- E&L electronic web guide with an ultrasonic sensor
- Maximum web speed 250 metres (820 ft) /minute
- Adjustable splicing table with pneumatic web clamps
- Count units - labels, feet and metres
- Programmable automatic web advance system
- Touch screen HMI operator interface

- Labels in / labels out rewinding
- Programmable end of roll function
- Quick check
- Taper tension control for (both unwind and rewind)

#### Optional Equipment:

- 100% web inspection
- Strobe light
- Full range of air mandrels from 25mm (1") to 76mm (3")
- Missing label detection 6 or 12 lane
- Flag detector
- Splice detector



700mm (27.5") unwind



Adjustable splice table



### Daco HSI Slitter/Inspection Rewinder

The Daco HSI has been developed to serve as a finishing machine for the growing number of label presses which are now available in 20" (510mm) web width and with 1000mm (39") diameter roll capacity.

The HSI offers the same user friendly features as the SI model, with touch screen interface, taper tension control, quick set rotary slitting unit, and web advance system all fitted as standard equipment.

The unwind unit incorporates a built in pneumatic roll lifting system, which lifts the master roll of up to 1000mm (40") diameter, without the need of any

additional roll lifting equipment. An electronic web guide, and adjustable splicing table with pneumatic web clamps, ensures perfect roll quality every time.

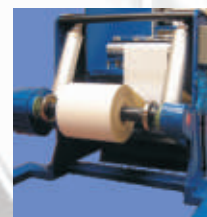
#### Standard Specification

- Web width: 432mm (17") or 508 mm (20")
- Maximum unwind diameter: 1000mm (40") with roll lift and taper tension control
- Maximum rewind diameter: 360 mm (14")
- Maximum speed: 250 metres (820 ft) per minute
- Counting units - labels / metres with programmable slowdown and stop
- Rotary scissor slitting device: Complete with 3 slitting knives, knife separation and cross adjustment.
- Minimum slit width: 16mm (0.62")
- Lateral knife adjustment: +/- 8mm (0.31")
- Magnetic particle clutch and brake
- Electronic web guide with ultrasonic sensor
- Air mandrels: 76mm for both unwind & rewind
- Touch screen HMI operator interface for quick and easy job setup
- Programmable automatic web advance system

- Programmable end of roll function
- Inspection table with adjustable splicing facility and pneumatic web clamps
- Air operated silicon nip roller with independent regulator and gauge
- Labels in / labels out rewinding
- Quick check
- Taper tension control for the unwind & rewind

#### Optional Equipment

- Twin product rewinds with independent tension control (this option removes web advance system)
- Missing label detection 6 or 12 lane
- Strobe light
- 100% web inspection
- Additional slitting knives



1000mm (40") Unwind



### Daco S Slitter Rewinder

The Daco 'S' slitter rewinder is a cost effective and simple to use label slitting machine.

The machines compact size and short web path keeps wastage to a minimum, the silicon covered nip drive

roller helps to keep down time to a minimum as labels can not attach themselves to the roller. The Daco 'S' slitter rewinder as independent control of both the unwind and rewind tensions. Rotary slitting with on the run lateral adjustment is fitted as standard and a splice table makes web splices both simple and quick.

An E & L electronic web guide ensures that the finished rolls are perfectly wound.

Pneumatic airshafts for both unwind and rewind means that changing the rolls could not be simpler.

#### Standard Specification

- Web widths 250mm (10") & 330mm (13")
- Maximum unwind diameter: 700mm (27.5")
- Maximum rewind diameter: 360 mm (14")

- 710mm (28") Inspection Table
- Mandrels - 76mm (3") air operated mandrels for both the unwind and rewind.
- E&L electronic web guide with an ultrasonic sensor.
- Rotary scissor slitting with 3 knives and lateral adjustment.
- Labels in / Labels out rewinding.
- Counting - Labels and Metres with programmable slowdown and stop.
- Nip roller - Fully adjustable silicon covered.
- Magnetic particle clutch and brake.
- No roll-followers or external sensors to be adjusted or maintained.



## Daco DT250 Table Top Slitter Rewinder



Daco Solutions prides itself in providing practical and reliable machines, which are easy to use.

The Daco DT 250 Table Top Slitter rewriter was introduced to the product range, because customers were asking on a regular basis for a cost effective, simple to use slitter rewriter.

Daco firmly believes the DT 250 fulfils this role, offering both high performance and reliability, with all the features you need.

Standard equipment includes, quick make ready rotary scissor slitting box, splice table, label / length counter, and both unwind / rewind tensions are fully and independently adjustable.

### Standard Specification:

- Maximum web width 254mm (10")
- Maximum unwind diameter 450mm (17¾")
- Maximum rewind diameter 360mm (14")
- Mandrels - 76mm (3") mechanical mandrels for both unwind and rewind
- Unwind - pneumatic unwind brake with independent regulator and gauge
- Splice table
- Slitting - 3 rotary scissor slitting knives
- Rewind - pneumatic rewind clutch with independent regulator and gauge



DT250 with electronic web guide

- Count units - labels and metres
- Maximum web speed 175 metres/minute (574 ft/minute)
- Minimum slit width 16mm (0.62")
- Lateral knife adjustment +/- 8mm (0.31")

### Optional Equipment:

- E&L electronic web guide with an ultrasonic sensor
- Twin product rewinds
- Unwind backing disc
- Air mandrel upgrade
- Full range of air mandrels from 25mm (1") to 76mm (3")
- Mechanical rewind mandrels 38mm-102mm (1½"-4")
- Labels in / labels out rewinding
- Razor slitting: minimum slit width 10mm (0.39")
- Lateral knife separation
- Web separators



Twin rewinds (air shafts)



Razor slitting

## Daco 3 Combi Turret Rewinder



The Daco 3 Combi Turret Rewinder offers the most flexible converting machine available today. Its unique design allows both inline and offline operation without modification. The 3 spindle turret offers quick change over times,

which coupled with a touch screen HMI operator interface makes the machine both interactive and user friendly.

When used inline the machine can be simply positioned on the end of any rotary printing press, (no inter-linking is required), and with just an electrical and pneumatic supply it is ready for production.

Inline only version also available.

### Standard Specification:

- Web width 330mm (13") or 410mm (16")
- Maximum unwind diameter 700mm (27½")
- Maximum rewind roll diameter 350mm (13¾")
- Taper tension control for unwind and rewind
- Maximum web speed - Offline mode up to 220 metres/minute (721ft) - Inline mode up to 150 metres/minute (492ft)
- Count units - labels and metres
- Hotmelt core gluing system, complete with 5 glue transfer wheels
- Rotary slitting unit with knife separation
- E&L electronic web guide with an ultrasonic sensor
- Automatic roll eject system with roll collection chute
- Adjustable core positioning stop
- Adjustable splicing table with pneumatic web clamps
- Vertical inspection table

### Optional Equipment:

- Hotmelt tail gluing device

- Inter-label cutting
- Full range of air mandrels from 25mm (1") to 76mm (3")
- Additional glue transfer wheels
- Air assisted turn bar
- Strobe light
- Rotary die cutting module (1 or 2 die stations)



Converting module



Auto roll eject



Core and tail gluing

## Die Cutting

## Daco DTD250 Table Top Rotary Diecutter



After consulting clients, Daco Solutions identified a need for a table top rotary die cutter. Clients indicated that they were either producing on old label presses which did not have sufficient speed or they were producing on new multi colour presses. Neither situation is ideal, as the cost of the label is very high, due to machine speeds or the high cost of using a multi colour press.

Daco Solutions have built the Daco DTD, a high-speed bench top machine capable of 150 metres a minute, which is available with one or two die stations. We firmly believe that the machine is more efficient than producing blanks on an old label press and definitely more cost effective than using a higher speed multi colour press.

### Standard Specification

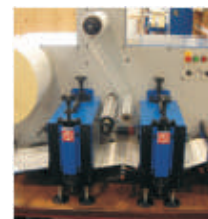
- Web width: 254mm (10")
- 1 Rotary die station with matrix rewind
- Cutter repeat lengths: 6" - 16" Repeat
- 76mm mechanical mandrel: For matrix rewind
- 76mm mechanical mandrel for the unwind and rewind
- Maximum rewind diameter: 360mm (14")
- Maximum unwind diameter: 450mm (18")
- Maximum waste rewind diameter: 400mm (15.75")
- Maximum web speed: 150 Metres/Minute (492ft) (dependent on stock)
- Count units: Labels / Metres
- Rotary scissor slitting unit: Complete with 3 slitting knives
- Minimum slit width 16mm (0.62")
- Lateral knife adjustment +/- 8mm (0.31")
- Pneumatic rewind clutch with independent regulator and gauge
- Pneumatic unwind brake with independent regulator and gauge

### Optional Equipment:

- Labels in / labels out rewinding
- Lateral knife separation
- Additional rotary die station for perforating (does not include stripping and matrix rewind)
- Matrix stripping bar
- E&L electronic web guide with an ultrasonic sensor
- Twin product rewinds
- Upgrade to air mandrel for rewind
- Full range of air mandrels from 25mm (1") to 76mm (3")
- Mechanical rewind mandrels 38-102mm 1½"-4")
- Die adaptors: KDO, Mark Andy, Edale, Allied Gear & Focus, others available subject to specification
- Razor slitting: minimum slit width 10mm (0.39")
- Rotometrics RD Scorer (enables edge trim to be wound with the matrix)



Twin mechanical rewinds



Twin rotary die stations





## Daco D250 Rotary Die Cutter

The machine is the ideal solution to clients wishing to produce plain labels for the growing thermal transfer market.

### Standard Specification

- Web width: 250mm (10")
- Maximum unwind diameter: 700mm (27.5") with taper tension control
- Electro magnetic particle unwind brake
- Splicing table with mechanical web clamps
- 1 Rotary die station with matrix rewind with cutter repeat lengths: 153-406mm (6" -16")
- 76mm (3") mechanical mandrel for the matrix rewind
- Maximum matrix rewind diameter: 400mm (15.75")
- Maximum product rewind diameter: 360mm (14")
- Pneumatic rewind clutch with independent regulator and gauge
- Labels in / labels out rewinding
- 76mm (3") air mandrel for the unwind and rewind
- Maximum web speed: 150 metres / minute (492 feet / minute) dependent on stock

The Daco D250 was developed following the success of the award winning Daco DTD250 and is aimed at clients that have medium to long runs. The machine has a 700mm (27.5") diameter unwind with taper tension control reducing the need for frequent roll changes and operator input. The machine is available with either one or two rotary die stations and single or twin product rewinds.

The machines compact size and short web path keeps wastage to a minimum, the silicon covered nip drive roller helps to keep down time to a minimum as labels cannot attach themselves to the roller. The Daco D250 has independent control of both the unwind and rewind tensions. Rotary slitting with on the run lateral adjustment is fitted as standard and a splice table makes web splices both simple and quick.



## Daco DSI Plain Label Converter

perfectly wound, and an inspection table with adjustable splicing table (with pneumatic web clamps) is also fitted as standard, enabling splices to be made both neatly and easily.

Airshafts for both the unwind and rewind means that changing the rolls could not be simpler, and a programmable web advance system makes it easy to attach the web to the core when starting a new roll.

### Standard Specification (same as Daco SI):

- Matrix stripping tower with adjustable tension on both matrix rewind mandrel and matrix stripping roller
- A driven matrix stripping roller with adjustable tension control ensures reliable matrix stripping, enabling high speed running even when the matrix rewind becomes unstable
- 76mm (3") Mechanical mandrel for matrix rewind
- Cross adjustment mechanism for top die cylinder

The Daco DSI rotary die cutter is a high speed plain label converter offers both flexibility and ease of use. Its design includes a quick make ready rotary scissor slitting box and touch screen HMI operator interface for quick and easy job setups.

Both the rewind and unwind tensions are fully and independently adjustable and has taper tension control as standard. The unwind also has a programmable end of roll function, which allows the operator to select an end of roll diameter.

The Daco DSI is equipped with a single rotary die cutting station with removable anvil and an optional second rotary die cutting station can be fitted to allow perforating and sprocket punching.

An E & L electronic web guide ensures that the finished rolls are



Matrix rewind



Waste stripping



Lateral die adjustment

Daco Solutions now have a total solution to plain label production. For the small production runs, we have the tabletop Daco DTD250 and the Daco D250 for the medium to long runs. For the longer run and high volume we have the Daco DSI 330 / 410 and with non-stop full automation we have the Daco TD – a Daco turret rewinder with a 1m (40") unwind, either one or two rotary die stations, core and tail gluing with automatic roll ejection.



## Daco DCR Die cut to register

standard, enabling splices to be made both neatly and easily.

Airshafts for both the unwind and rewind means that changing the rolls could not be simpler, and a programmable web advance system makes it easy to attach the web to the core when starting a new roll.

### Standard Specification

- Web width: 330mm (13") or 410 (16")
- Single rotary die cutter with removable anvil and matrix stripping tower: 10-24" repeats
- Die cut to register servo drive system with a +/- 0.25mm accuracy at a constant speed.
- 76mm (3") mechanical mandrel for matrix removal
- Maximum unwind diameter: 700mm (27.5")
- Maximum rewind diameter: 360 mm (14")
- Maximum speed: 100 metres per minute (328ft)
- Counting units: labels / feet / metres with programmable slowdown and stop
- Rotary scissor slitting device: Complete with 3 slitting knives, knife separation and cross adjustment.
- Minimum slit width: 16mm (0.62")
- Lateral knife adjustment: +/- 8mm (0.31")
- Magnetic particle clutch and brake
- E&L electronic web guide with an ultrasonic sensor
- Air mandrels: Standard 76mm for both unwind & rewind
- Touch screen HMI operator interface for quick and easy job setup
- Programmable automatic web advance system

The Daco DCR die cut to register machines allows pre-printed material to be die cut in register. The DCR offers both flexibility and high performance. Its design includes a quick make ready rotary scissor slitting box and touch screen HMI operator interface for quick and easy job setups.

Both the rewind and unwind tensions are fully and independently adjustable and have taper tension control as standard. The unwind also has a programmable end of roll function, which allows the operator to select an end of roll diameter.

The Daco DCR is equipped with a single rotary die station using the latest in servo drive technology enabling a cutting accuracy of 0.25mm at a constant running speed.

An E&L electronic web guide ensures that the finished rolls are perfectly wound, and an inspection table with adjustable splicing table (with pneumatic web clamps) is also fitted as

- Count units: Labels / Metres with programmable slow down and stop
- Rotary scissor slitting unit: Complete with 3 slitting knives
- Minimum slit width 16mm (0.62")
- Lateral knife adjustment +/- 8mm (0.31")
- Adjustable spring loaded silicon nip
- Gearing: 1/8cp 20 degree pressure angle

### Optional Equipment

- Removable anvil
- Additional rotary die station for perforating (does not include stripping and matrix rewind)
- Matrix stripping bar (for use with difficult to strip matrix)
- E&L electronic web guide with an ultrasonic sensor
- Rotometrics RD scorer - 2 knife holders (for edge trimming and winding with waste)
- Electro magnetic particle rewind clutch
- Lateral knife separation for rotary slitting
- Razor slitting with lateral knife adjustment
- Web separator roller with 5 web separators
- Twin product rewinds
- Full range of air mandrels from 25mm (1") to 76mm (3")
- Pneumatic web clamps for splice table
- Die adaptors: KDO, Mark Andy, Edale, Allied Gear & Focus others available subject to specification

- Can accommodate tooling repeats 10" - 24"

- Removable cutter guard for easy access and quick webbing up

### Optional Equipment:

- Rotometrics RD scorer - 2 knife holders (for edge trimming and winding with waste)
- Matrix stripping bar (for use with difficult to strip matrix)
- Hydraulic die jacks with pressure gauge for accurate setting of cutter pressure
- Additional rotary die station for perforating (does not include stripping and matrix rewind)
- Die adaptors to utilise existing tooling



Waste stripping



Lateral die adjustment

- Programmable end of roll function
- 710mm (28") Inspection table with adjustable splicing facility and pneumatic web clamps
- Air operated silicon nip roller with independent regulator and gauge
- Labels in / labels out rewinding
- Quick check
- Taper tension control for the unwind & rewind
- Gearing: 1/8cp 20 degree pressure angle
- Electrics: 415 Volts 3 phase Neutral & Earth, 16 amps

### Optional Equipment

- Matrix stripping bar (for use with a difficult to strip matrix)
- Rotometrics RD scorer (enables edge trim to be wound with the matrix)
- Strobe light
- Full range of air mandrels from 25mm (1") to 76mm (3")
- Hydraulic die jacks with pressure gauge for accurate setting of cutting pressure
- 1460mm (57.4") Inspection table with adjustable splicing facility and pneumatic web clamps
- Laminating with or without a carrier



Laminating

**Daco Solutions - would you like to know ...**



# **Daco Solutions Ltd**



Are one of Europe's leading manufacturers of slitter rewinders, inspection rewinders, turret rewinders, rotary die cutters and bespoke equipment for the label printing, narrow web and converting industry. Daco Solutions Ltd have been successfully installing their equipment into companies of all sizes from SME's (Small Medium Enterprises) to Blue Chip companies throughout the World.

#### **Where Are We ?**

Located in the old market town of Beverley, East Yorkshire, England, yet just minutes from the motorway network, Daco Solutions Ltd operates from modern premises incorporating their manufacturing, servicing and sales departments together with extensive warehousing facilities.

#### **Why Use Daco Solutions Ltd ?**

With many years experience in the manufacture and sales of rewinding and rotary die cutting equipment, Daco Solutions Ltd skilled team of friendly personnel can provide fast responses and technical expertise, whilst our World-wide network provides on site product demonstrations and competent advice in order to achieve the best, most cost effective solution to your needs.

- All machinery is CE-Marked and issued with Test Certification and Declaration of Conformity.
- Full installation, training, servicing and maintenance back-up.
- 90% of all components are manufactured in house enabling us to keep control of quality.
- Component parts for all models are kept in stock for quick despatch.
- Some models ex-stock for immediate delivery.
- Numerous options are available for all of our models enabling you to configure a machine to suit your particular requirements.
- Equipment can be custom-built to suit your particular application.

#### **Product Range**

Daco Solutions Ltd product range includes cost effective entry level machinery to high speed high volume equipment. Our range of equipment is designed in modules so that the machinery purchased can be upgraded at a later date. This enables clients to keep pace with any future developments within the industry or to add additional features to their existing machine.

#### **Technical Services**

Daco Solutions Ltd products are designed to provide a long trouble free working life. However, in the unlikely event that a fault should occur, Daco Solutions personnel are always on hand to offer assistance. All our service personnel are highly qualified with many years experience of working with our products.

#### **Our Technical Services Include:-**

- A team of highly professional, fully equipped Daco Solutions Ltd trained service engineers providing prompt national breakdown coverage identifying faults and acting without delay in rectifying any problems.
- In addition to our mobile network, our in-house technicians can often diagnose the causes of faults without a site visit being required, thus preventing downtime. Common component parts for all models are kept in stock and are available for immediate dispatch.
- Technical data covering all models and all individual projects is held in our offices to enable this information to be drawn upon when required.

# **DACO**

**[www.daco-solutions.com](http://www.daco-solutions.com)**

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The Products are under continuous development and The Manufacturer reserves the right to make changes at any time, without notice, to colour, materials, specifications and models.