

## Daco DCR

## Die Cut to register Rotary Die Cutter



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 (0.010") at a constant running speed.

An 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 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 widths 330mm (13") or 410mm (16")
- Single rotary die station
  - Die cut to register servo drive system with a +/- 0.25mm (0.010") accuracy at a constant speed.
  - Removable anvil
  - 10-24" die repeats
  - Gearing: 1/8cp 20 degree pressure angle
  - Lateral die adjustment
  - Matrix stripping tower

- 76mm (3") mechanical mandrel for matrix removal
- Maximum unwind diameter: 762mm (30")
  - 76mm (3") diameter airshaft
  - Merobel electronic brake
  - Taper tension control
  - Programmable end of roll function
    - The user is able to program the roll end diameter slowdown and/or stop - The system does not use any roll followers or external sensors that can be damaged at roll changes. The diameter is programmed from the touch screen operator interface.
- 700mm (27.5") Inspection / Splice table with adjustable splicing facility & pneumatic web clamps
- Air operated silicone nip against a driven draw roller
  - Fully adjustable with independent regulator and gauge
  - On / off feature to allow for easy threading of the web
  - Interlocked so that the machine can not be started with the nip roller off
- Electronic web guide
  - Ultrasonic sensor enables guiding of opaque and clear materials
  - Adjustable web guide sensor
- 1 Product rewind
  - Max rewind diameter: 457mm (18")
  - 76mm (3") diameter with quick change air shaft
  - Taper tension control
  - Merobel electronic clutch
  - Labels in / labels out rewinding
  - Programmable web advance system
    - The web advance delay time is programmable from the touch screen
  - The mandrels are quick change.

The mandrel size is selected on the touch screen and is electronically compensated for, so there are no gears to change.

- Maximum speed: 100 metres (328ft) per minute
- Counting units: labels / feet / metres with programmable slowdown & stop
- Rotary scissor slitting
  - Knife separation
    - Allows for easy setting of the knife and anvil with the web in place. Does not require costly off machine setting tools.
    - Minimum slit width: 13mm (0.51")
    - Lateral knife adjustment: +/- 5mm (0.196")
- Colour touch screen HMI operator interface
  - Shows machine status and system messages (interlocks not met etc)
  - Counting options
  - Tension settings
  - Allows for easy and quick jobs set ups

### Optional Equipment

- Modular unwind 762mm (30")
- Additional rotary die station (not including waste rewind) for perforating
- Matrix stripping bar (for use with a difficult to strip matrix)
- Rotometrics RD Scorer (enables edge trim to be wound with the matrix)
- Missing label detection (post die cutting includes a second web guide & splicing area) - 6 lane or 12 lane
- Laminating station self wound laminate
- Laminating station - laminate with carrier - carrier rewind
- Full range of air mandrels from 25mm - 76mm (1" - 3")



## Daco DTD250R



The Daco DTD 250R is the perfect re-register die cut unit for utilisation with smaller digital label printing presses. The DTD 250R re-register die cut machine allows digitally printed webs to be finished quickly and economically. The machine offers the flexibility and high performance often found in much larger and more expensive systems. Its design includes a quick make ready shear knife slitting box and touch screen control that makes any job quick and easy.

The Daco DTD 250R table top die cut to register rotary die cutter is the cost effective solution to the finishing of digitally printed webs. The re-register rotary die cutter is available with either one or two rotary die stations and laminating station.

### Standard Specification

- Web width: 250mm (10")
- Maximum unwind diameter: 450mm (18")
  - Merobel electromagnetic particle brake
  - Taper tension control
  - 76mm (3") air mandrel
- BST electronic web guide with an ultrasonic sensor
- Splicing table

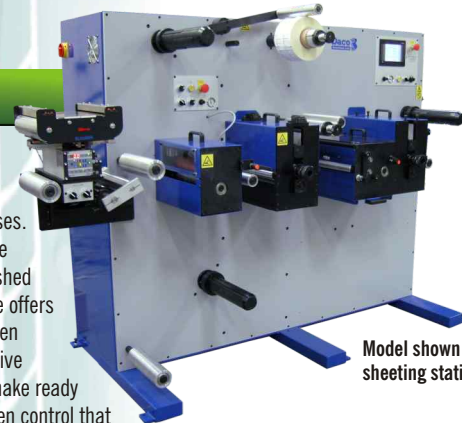
- 1 Rotary die station with matrix rewind
  - Die cut to register servo drive systems with a +/- 0.25mm (0.010") accuracy at a constant speed
  - Cutter repeat lengths: 153-406mm (6"-16")
  - 76mm (3") mechanical mandrel: For matrix rewind
  - Maximum matrix rewind diameter: 400mm (15.75")
  - Gearing 1/8cp 20 degree pressure angle
  - Lateral die adjustment
- Maximum product rewind diameter: 360mm (14")
  - Merobel electronic clutch
  - Taper tension control
  - 76mm (3") air mandrel
  - Labels in / labels out rewinding
- Maximum web Speed: 100 metres / minute (328 feet/minute) dependent on material
- Count Facility:-
  - Labels
  - Length - meters / feet
- Rotary scissor slitting unit
  - 3 slitting knives
  - Minimum slit width 13mm (0.51")
  - Lateral knife adjustment +/- 8mm (0.31")
  - Removable interlocked cutter guard

- Fully adjustable silicone nip roller
- Colour touch screen HMI operator interface
  - Shows machine status & error messages
  - Counting options
  - Tension settings
  - Allows for easy & quick job set ups

### Optional Equipment

- Lateral knife separation
- Addition rotary die station (no waste rewind or stripping) - servo driven
- Laminating station - self wound laminate
- Laminating station - laminate with a carrier rewind
- Matrix stripping bar (for use with difficult to strip matrix)
- Upgrade BST electronic web guide with a integral splice table & web pneumatic web clamps
- Razor slitting: minimum slit width 10mm (0.39") and lateral adjustment
- DBS250 Back scorer - 2 knife holders (for edge trimming & winding with waste)
- Dual product rewinds
- Re-register sensor for holographic materials
- Full range of 25mm - 76mm (1" - 3") air mandrels
- 700mm (27.5") diameter unwind and floor standing cabinet (Daco D250R)

## Daco D250R



The Daco D 250R is the perfect re-register die cut unit for utilisation with smaller digital label printing presses. The D 250R re-register die cut machine allows digitally printed webs to be finished quickly and economically. The machine offers the flexibility and high performance often found in much larger and more expensive systems. Its design includes a quick make ready shear knife slitting box and touch screen control that makes any job quick and easy.

### Standard Specification

- Web width: 250mm (10")
- Maximum unwind diameter: 700mm (27.5")
  - Merobel electromagnetic particle brake
  - Taper tension control
  - 76mm (3") air mandrel
- BST electronic web guide with an ultrasonic sensor
- Splicing table
- 1 Rotary die station with matrix rewind
  - Die cut to register servo drive systems with a +/- 0.25mm (0.010") accuracy at a constant speed
  - Cutter repeat lengths: 153-406mm (6"-16")
- Precision ground 16mm (0.62") thick die plates
  - Gearing 1/8cp 20 degree pressure angle
  - Lateral die adjustment
  - 76mm (3") mechanical mandrel: For matrix rewind
  - Maximum matrix rewind diameter: 400mm (15.75")

Model shown with optional sheeting station

- Maximum product rewind diameter: 360mm (14")
  - Merobel electronic clutch
  - Taper tension control
  - 76mm (3") air mandrel
  - Labels in / labels out rewinding
- Maximum web Speed: 100 metres / minute (328 feet/minute) dependent on material
- Count Facility:-
  - Labels
  - Length - meters / feet
- Rotary scissor slitting unit
  - 3 slitting knives
  - Minimum slit width 13mm (0.51")
  - Lateral knife adjustment +/- 8mm (0.31")
  - Removable interlocked cutter guard
- Fully adjustable silicone nip roller
- Colour touch screen HMI operator interface
  - Shows machine status & error messages
  - Counting options
  - Tension settings
  - Allows for easy & quick job set ups

### Optional Equipment

- Lateral knife separation
- Addition rotary die station (no waste rewind or stripping) - servo driven
- Sheeting station with shingle conveyor
- Laminating station - self wound laminate
- Laminating station - laminate with a carrier rewind
- Servo driven re-register flexographic print/coating station, IR and UV drying options
- Matrix stripping bar (for use with difficult to strip matrix)
- Upgrade electronic web guide with a integral splice table and pneumatic web clamps
- Razor slitting: minimum slit width 10mm (0.39") and lateral adjustment
- DBS250 Back scorer - 2 knife holders (for edge trimming & winding with waste)
- Dual product rewinds
- Full range of 25mm - 76mm (1" - 3") air mandrels

Daco D330R



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