

The Daco DF350SR is a compact versatile semi-rotary die cutter / converting line for digital labels, semi-rotary for short runs and full rotary for high-speed longer runs. The machine is available for flexographic printing applications or for the converting of media from pre-printed digital, inkjet, and flexo printing presses.



The Daco DF350SR has seen a major upgrade to both its mechanics and software recently and now has an increased maximum production speed of 65m/min (213 ft/minute). This coupled with the ability to easily remove the 22" magnetic die cylinder and replace it with our standard full rotary dies allows the die cutting of labels to a maximum speed of 175m/min (575 ft/minute) in register.

Easily apply spot or flood coat UV varnishes, the DF350SR can also be configured with an optional laminating station to give ultimate flexibility for digital finishing applications.

The flexographic print/coating station utilises the latest in servo drive technology and with software written by Daco Solutions allows for quick and easy setup. With the environment and paper costs in mind, the print to die register is accomplished with the use of very little substrate.

The flexibility of the DF350SR platform enables a converting line to be configured for most digital finishing applications. The platform also allows for the fitting an inkjet module and we can fit both mono and CMYK systems allowing for labels to be printed and finished in one pass.

Full servo mode:

- Standard flood coating
- Print & die cut in register to a pre-printed web
- Optional: Spot varnish

With the servo print / coating station turned off:

- Die cut to register pre-print webs
- Slitting and rewinding
- Plain label production



Servo driven flexographic print/coating station



GEW E2C UV dryer

DF

350SR
Converting
Line

DF

Standard Specification

- Max web width: 350mm (13.75")
- Minimum web width 200mm (8")
- Maximum unwind diameter: 600mm (23.6")
76mm (3") air mandrel
Merobel electromagnetic particle brake
Automatic taper tension control
Programmable end of roll function
The user can program the roll end diameter - slowdown and / or stop from the touch screen operator interface. The system does not use any roll followers or external sensors that can be damaged at roll changes.
- Web up - the operator can, at the touch of a button on the touch screen operator interface, release the unwind brake to allow for easier webbing up of the machine.
- BST electronic web guide
Ultrasonic sensor - enables guiding of opaque and clear materials
Adjustable web guide sensor +/- 25mm (1") correction
Integral splice table with pneumatic web clamps
Tape dispenser for the splice table
- Servo driven infeed nip roller
Fully adjustable with regulator and gauge
On / off feature to allow for easy threading of the machine
Interlocked so that the machine cannot be started with the nip roller off.
- 1 Full Rotary Flexographic print / coating station
Servo driven
Print repeat lengths: - 203-457mm (8"-18")
Maximum print width 340mm (13.38")
Constant turning anilox roller (Screen count to client specification)
Auto throw off
Doctor blade
GEW E2C UV dryer
Maximum drying width: 340mm
Lamp power: Up to 140W/cm
- Rotary die station with matrix rewind (full rotary & semi-rotary)
Die cut to register servo drive system with a +/- 0.25mm (0.010") accuracy at a constant speed
Full rotary cutter repeat lengths: 203-558mm (8"-22")
Semi rotary cutter repeat length: 50-457mm (2"-18")
Fixed through hardened anvil - 105T - 13.125" repeat.



20mm (0.78") thick die plates
Gearing 1/8cp 20 degree pressure angle
Lateral die adjustment +/- 10mm (+/- 0.39")

Matrix stripping tower

A driven capstan roller with adjustable tension control ensures reliable matrix stripping, enabling high speed running even if the matrix rewind becomes unstable.

76mm (3") mechanical mandrel for the matrix rewind

Maximum matrix rewind diameter: 600mm (23.6")

Matrix stripping roller (for use with difficult to strip matrix)

Magnetic die cylinder - 176T 22" repeat

Air operated silicone nip rollers

Fully adjustable with regulator and gauge

On / off feature to allow for easy threading of the machine

Interlocked so that the machine cannot be started with the nip roller off.

• Product Rewind

Maximum product rewind diameter: 600mm (23.6")

Servo driven

Automatic taper tension control

76mm (3") air mandrel

Labels in / labels out rewinding

• Maximum web speed: 175 metres / minute (574 feet/minute) dependent on material - Full rotary

• Maximum web speed: 65 metres / minute (213 feet/minute) dependent on material - Semi rotary

Note: The actual running speed is dependent on the die cut plate repeat length

• Count Facility:-

Labels

Length - metres / feet

Total count

Batch count

TLC - Total length count until reset by the operator

Auto calculation of slowdown and stop irrelevant of web speed

• Rotary scissor slitting unit

3 slitting knives

Minimum slit width 13mm (0.51")

Lateral knife adjustment +/- 8mm (0.31")

Removable interlocked cutter guard

Dual knife box configuration to allow for razor slitting to be also fitted

• Colour touch screen HMI operator interface

Highlights machine status & error messages

Counting options

Tension settings

Allows for easy & quick job set ups

Job storage

• Modern connection for machine diagnostics & software upgrades

Air requirements

80 psi, 1cfm

Electrics

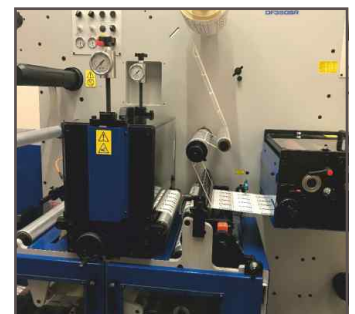
380-415 volts, 3 phase, neutral & earth, 50/60 Hz, 25 amps

Conformity

Conforms to CE regulations, and all safety circuits use dual channel safety switches, which are continuously monitored using a certified safety relay.

DF Optional equipment

- Ozone Filter - Fits to outlet fan and eliminates the needs to duct exhaust air out of the building. Also allows recovery of heat from the UV lamps in the winter months
- IR cassette for GEW E2C UV case
- Matrix stripping bar (for use with a difficult to strip matrix)
- Daco DBS-ES back scorer with lateral adjustment enabling the edge trim to be wound with the waste matrix.
- RotoMetrics die pressure gauges
- Razor slitting
Full range or air mandrels: 25mm - 76mm (1" - 3")
- Self-wound laminating station:
Maximum unwind diameter: 400mm (15.75")
Merobel electromagnetic brake
Taper tension control
76mm (3") air mandrel
- Second 600mm (23.6") rewind



Servo driven re-register die station

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