



Duplo

SPECIFICATIONS

Paper size	Width: 279 to 364 mm Length: 210 to 750 mm
Paper quality	Coated paper: 160 to 450 g/m ² OPP corona treated** laminate or printable PET laminate. No film running off the edge on the registration (non-operator) side. Maximum with curl 2mm
Print head	Piezo method Resolution 600 x 600 dpi
Head cleaning	Automated cycles of purge and wipe during normal operation
Cleaning frequency	Maximum idle for 5 days before flush cleaning is required
Printing width	Maximum printing width: 322.5 mm Minimum margin 10 mm on all sides
Print data format	PDF, TIFF single layer
Print correction	Automatic camera correction by reading Image Register Marks. Image distortion in length, width, skew, scaling, twist @ max. ±2 mm in the horizontal and vertical directions. XY offset @ ±5 mm in the horizontal and vertical directions Correction in Real time, Lead & trail edge, Lead only, Fully manual
Print accuracy	± 0.2 mm or less (with correction)
Print thickness	15* to 80 µm ± 10 µm depending on paper quality
Gloss level	Typically 99 GU subject to media and print
Feed tray capacity	150 mm
Paper feeding	Belt suction from top of stack
Sheet separation	Front and side air separation
Cleaning	Dust removal cleaning roller
Sheet alignment	Side lay on non-operator's side plus sheet skew correction
Stacking capacity	150 mm

Noise	Equivalent continuous A-weighted sound pressure level : 72 dB , peak : 82 dB (both conditions reduced to less than 72 dB when air duct extraction is fitted)
Power	3 phase, 16Amp + Neutral and Earth supply, commando type socket (AC/380 to 415 V AC, 50/60 Hz) For PC : Single phase 208 to 240 V AC, 50/60 Hz
Power consumption	6000 W
Operating environment	Recommended Temperature 20 to 25 C, maximum range 15 to 30 C. Humidity 30 to 70% RH with No condensation. Out light 1,500lx or less
Ventilation extraction	Connection to 200mm diameter pipe 400cfm (680 m3/hr) rated booster fan required if extraction distance exceeds 4 metres
Dimensions	L x W x H 3,553 x 1519 x 1,909 mm
Weight	540.5 kg
Processing speed	Up to 60 sheets/minute (Paper length: 279mm, Varnish thickness: 15 – 20 µm) Up to 33 sheets/minute (Paper length: 279mm, Varnish thickness: 25 – 40 µm) Up to 16 sheets/minute (Paper length: 279mm, Varnish thickness: 50 – 80 µm) Up to 36 sheets/minute (Paper length: 480mm, Varnish thickness: 15 – 20 µm) Up to 18 sheets/minute (Paper length: 480mm, Varnish thickness: 25 – 40 µm) Up to 9 sheets/minute (Paper length: 480mm Varnish thickness: 50 – 80 µm) Up to 25 sheets/minute (Paper length: 740mm, Varnish thickness: 15 – 20 µm) Up to 12 sheets/minute (Paper length: 740mm, Varnish thickness: 25 – 40 µm) Up to 6 sheets/minute (Paper length: 740mm Varnish thickness: 50 – 80 µm)

* Results for 15 µm are subject to conditions

** Surface tension is within 40-44 dyne/cm

The information on this data sheet only applies to Duplo international sales regions

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Duplo has a policy of continuous improvement and reserves the right to amend the above specification without prior notice.
Production rates are based on optimal operating conditions and may vary depending on stock and environmental conditions.

Ref: DDC810Pro/V2/2024



Duplo

DUSENSE DDC-810 PRO

Power Your Future

DUSENSE DDC-810 PRO RAISED SPOT UV COATER

The Duplo DuSense DDC-810 PRO Raised Spot UV Coater is built for today's digital print market, where the demand for short-run, on-demand, and highly customised print is on the rise. Its compact size, instant UV curing, and automated job setup make the DDC-810 PRO a dynamic solution, enabling Print Service Providers of all sizes to easily bring spot UV finishing in-house.

As businesses seek to differentiate through personalisation and exclusivity, the DDC-810 PRO provides a practical solution for PSPs looking to add value with high-quality embellishments. With precise image registration, variable data capabilities, and an automated workflow, it allows you to create stand-out designs while maintaining flexibility and efficiency.

By incorporating premium finishing into your offerings, you can tap into new markets and offer clients bespoke, high-value options beyond your traditional print offering. The DDC-810 PRO is perfectly positioned for today's dynamic print environment, where its flexibility and quality open the door to new business opportunities, helping companies grow and evolve alongside shifting print demands.



COMPATIBLE WITH OFFSET AND DIGITAL PRESSES

The Surface treatment unit option for the Duplo DuSense DDC810 PRO enables operators to add embellishment without the need for the additional process of lamination, saving both time and money.

The STU option gives the added benefit of no longer having to stock different varnishes to embellish print from different print engines.

Corona Treatment is generated by applying a high frequency, high voltage signal to an electrode separated from an ether plane by an air gap, the substrate and a layer of dielectric material. This high voltage option increases the adhesion and wettability of a substrate.



PROFITABILITY IN A COMPACT SOLUTION

The DDC-810 PRO's compact footprint allows you to create high-margin jobs from your own print shop. Using our digital technology and the output from your digital presses, you can drive profit through short-run and customised applications for a rapid return on investment.

A raised logo on a business card or product packaging delivers the message with style. The textures on the leather seats of a luxury car piece or the ice cold drops on a beer advert generate more engagement and higher response rates.

Print embellishment amplifies perceptions of value and prestige, which brands are looking for.



VARIABLE IMAGE BARCODE KIT

Add variable capabilities for images and text with the Variable Image Barcode Kit. With this option, the DDC-810 PRO has the ability to read 1D or 2D barcodes on each sheet and automatically load the pre-ripped spot layer file. It also streamlines your operation with the ability to utilise hot folders, reducing the number of mouse clicks and touch-points required.



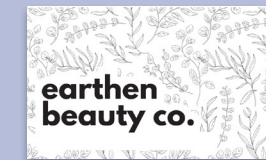
END-TO-END DIGITAL EMBELLISHMENT WORKFLOW

The DDC-810 PRO can be integrated with many workflow automation softwares to accomplish all the preparation steps in just one click. This makes job preparation more efficient through the creation of separate CMYK and spot UV files, page imposition, application of registration marks and barcodes, and submission of CMYK and spot UV files to a software driven printer and the DDC- 810 PRO, respectively.

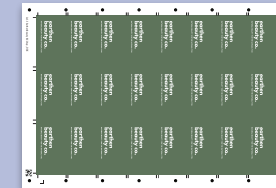


DDC-810 PRO WORKFLOW

1 Design your artwork in CMYK and the spot UV layer in Black and White.



2 Apply imposition and registration marks to both files or automate file preparation using a suitable workflow. Send the imposed CMYK file to your digital press then load the printed sheets on the DDC- 810 PRO feed tray.



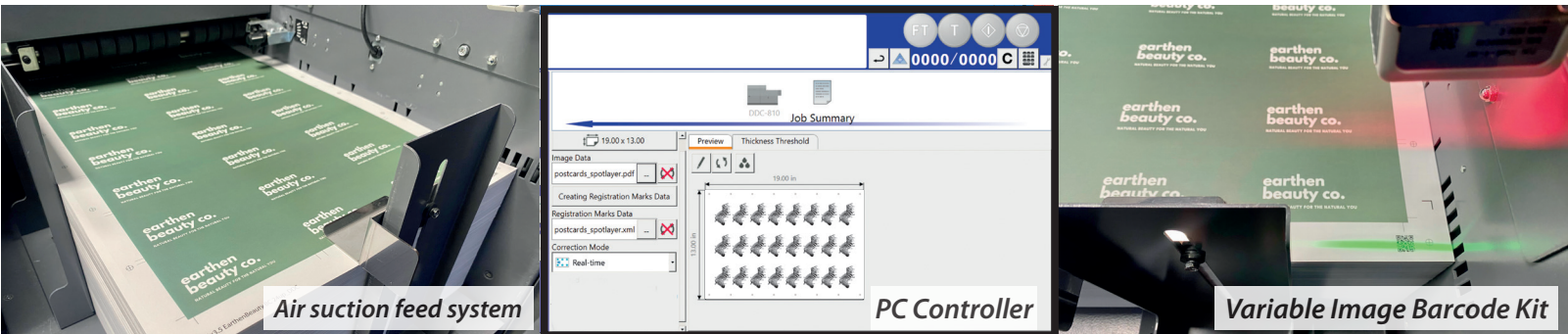
3 As the sheet is fed, the DDC-810 PRO will read the registration marks and accurately apply the varnish.



4 Ready for finishing. Output is cured and dried for immediate handling.



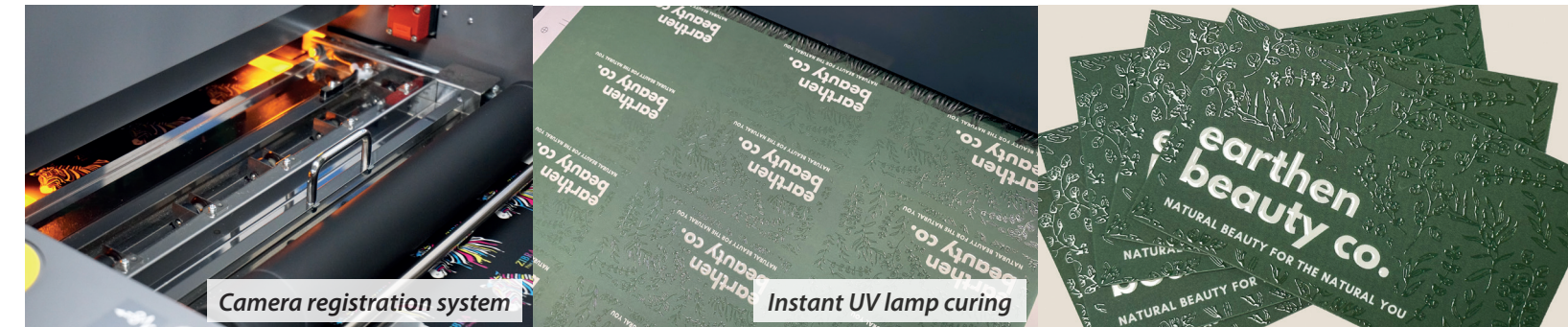
Explore our connectivity tools



Air suction feed system

PC Controller

Variable Image Barcode Kit



Camera registration system

Instant UV lamp curing



HIGH PRECISION ENHANCEMENTS

Add spot coating, texturised, and tactile enhancements with incredible precision without the use of dies or screens. Simply apply our unique registration marks to both CMYK and spot layer files during pre-press. As each sheet is fed, the CCD camera registration system will read the registration marks and automatically align the spot layer with the printed sheet. It will also compensate for any shrinkage, stretch, and skew to produce the most accurate sheet-to-sheet registration in the market.

The DDC-810 PRO utilizes Duplo's signature air suction belt feed system and a high capacity feed tray to keep production running without interruptions. Embellished sheets are instantly cured by the UV lamp for immediate handling and finishing.



PRINT EMBELLISHMENT MADE EASY

The DDC-810PRO provides a user-friendly, design-driven solution that allows you to bring print embellishment services in-house. Utilizing the PC Controller software and hot folder technology on a PC station, you can produce value-added jobs quickly and efficiently.

Simply drop the grayscale spot layer file in PDF or TIFF format into a hot folder. The file is automatically ripped and stored in the queue. Select the job, choose the varnish thickness, and hit the Start button. Use the job cost calculator to help you quote jobs by estimating the polymer cost for each sheet.

APPLICATIONS



Produce high margin embellishments and value-added products in-house that your customers can touch and feel!

- Business cards
- Custom packaging
- Invitations
- Direct mail pieces
- Book covers
- Greeting cards
- Bookmarks
- Magazine covers
- Labels
- Posters
- Brochures
- And much more!

Imagine the possibilities

FEATURES

- Utilises 600 x 600dpi inkjet technology
- Inline UV lamp curing
- Automatic camera registration system
- Processes offset and digitally printed output up to 750mm x 364mm and 450 gsm
- Applies variable height uv from 15 micron* - 80 micron in one pass
- Easy to use and a compact footprint that fits into limited spaces

* 15 micron used for small text and detail and not for solid areas of uv