



DUSENSE DDC-8000 SPECIFICATIONS						
Paper Size (WxL)	Maximum: 23" x 42" (585 x 1068 mm)		Minimum: 11" x 11" (279 x 279 mm)			
Feed Capacity	7.87" (200 mm)					
Paper Type	Art / Coated					
Paper Weight/Thickness	157 – 600 gsm / 0.00552" (0.14 mm) – 0.0314 (0.8 mm)					
Non-Print Margins	0.39" (10 mm) from each edge					
Print Accuracy	± 0.2 mm in both X and Y directions					
Coating Thickness	10 – 40µm (adjustable in 5µm increments); 20 – 80µm (adjustable in 10µm increments)					
Production Speed	Spot Coating: 25 sheets per minute (12.6" x 17.72" / 40µm), 12 sheets per minute (B2 / 40µm) Foiling: 12 sheets per minute (12.6 x 17.72"); 6 sheets per minute (B2)					
Dimensions (WxDxH)	213.7" x 75.6" x 78" (Includes: Spot UV Coater, Feeder Unit, Skew Correction Unit, Stacker)					
Weight	2,932.7 lb					
Power Requirements	Voltage	Phase	Hz	Amps	Watts	Circuit Breaker
Skew Correction Unit	208 – 240	Three Δ	50/60	13	4200	30A
UV Curing Unit	208 – 240	Single	50/60	30 – 35	7200	40A
Computer	115 – 120	N/A	60	N/A	N/A	15A
COLD FOIL UNIT (OPTIONAL)						
Foil Roll	Width: 1.96" to 21.57" (50 to 548mm) Paper tube inner diameter: 3" (76.2 mm)					
Maximum Foiling Area	Width: 21.18" (538 mm) Length: 41.33" (1,048 mm)					
Dimensions (WxDxH)	29.2" x 46.3" x 60.9" (741 x 1,176 x 1,546 mm)					
Weight	951.4 lb / 436 kg					
Power Requirements	Power supplied by Spot UV Coater					
Air Supply Requirements	Air supply 0.5 MPa – 10 bar (73 psi)					
SURFACE TREATMENT UNIT (OPTIONAL)						
Maximum Treatable Area	Width: 23" (585 mm) Length: 42" (1,068 mm)					
Corona Discharge Amount	Off, 200 – 1,000					
Power Requirements	Power supplied by the DDC-8000 Skew Correction Unit					
Other	Requires ozone eliminator					

Production rates are based on optimal conditions and may vary depending on stock and environmental conditions.

Duplo The leading provider of innovative precision finishing, print embellishment, and specialty finishing solutions. Contact us today to request samples or to get in touch with a finishing specialist.

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Duplo

DuSense DDC-8000

B2 Raised Spot UV Coater



Digital Spot Coating and Foiling for B2 Output

DuSense DDC-8000 B2 Raised Spot UV Coater

The Duplo DuSense DDC-8000 B2 Raised Spot UV Coater offers a high performance, digital spot UV solution with foil capabilities for an added dimension of shine. For press sheets up to 23" x 42", the DDC-8000 utilizes 600x600 inkjet technology, UV lamp curing, and precise camera image registration to create premium packaging, oversized marketing campaigns, and multiple-up applications on demand.

Raise the bar by giving brands a competitive advantage with texturized embellishments and foiled effects that stand out from the rest. Take them above and beyond CMYK.

B2 PRINT EMBELLISHMENT MADE EASIER

Produce highly profitable jobs in-house without the use of screens or dies. The process on the DDC-8000 is entirely digital, making it simpler to use without any experience required.

Utilizing the enhanced PC Controller software and hot folder technology on a PC station, you can quickly begin running jobs and producing samples to upsell. Drop the grayscale spot layer file into the hot folder to automatically rip the file and store it in the queue. Then select the job and hit Start to go.

Up to 7 levels of varnish thickness can be applied in a single pass to give your output more depth. The job cost calculator can be used to help quote jobs by estimating the polymer cost for each sheet.

MAKE IT SHINE WITH COLD FOIL

Make your customers and their print marketing shine with foiled enhancements. The Cold Foil Inline Unit is an optional module that can be configured to your DDC-8000 to highlight images and graphics with metallic, holographic, and matte foils without having to pre-laminate the printed sheets.

The Cold Foil Inline Unit skips the lamination step along with the labor and cost involved in the process. It also eliminates the waiting around for stamping dies. Cold foiling is a digital process that does not require heat, instead relying on UV lamp curing and polymer-based foil rolls. The foil utilizes the polymer as an adhesive and is automatically applied over any areas that have been spot coated - in a single pass.

Increase your profitability by adding premium embellishments to packaging, sleeves, book jackets, business cards, and so much more.

HIGH PRECISION ENHANCEMENTS

Apply spot UV and foil to highlight even the finest details with incredible precision. The process begins in prepress by adding registration marks to both CMYK and spot layer files.

As each sheet is fed, the camera registration system reads the registration marks and automatically aligns the spot layer to the printed sheet with pinpoint accuracy. It also compensates for any shrinkage, stretch, and skew to produce the most accurate sheet-to-sheet registration in the market.

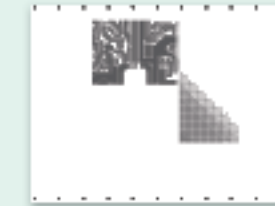
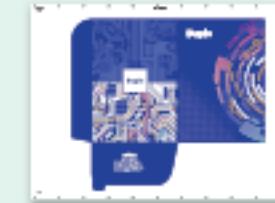
The DDC-8000 carries over Duplo's signature air suction belt feed system and features a higher feed capacity that accommodates larger and thicker paper sizes. The new Automatic Thickness Detection feature allows the inkjet heads to adjust automatically based on the thickness of the paper. Embellished sheets are instantly cured by the UV lamp for immediate handling and finishing.

DDC-8000 WORKFLOW

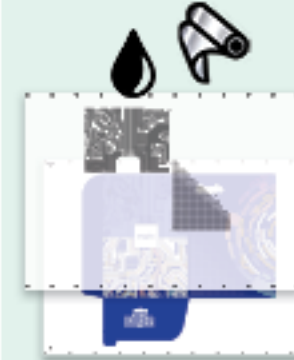
1 Design your artwork in CMYK and the spot layer in Black and White.



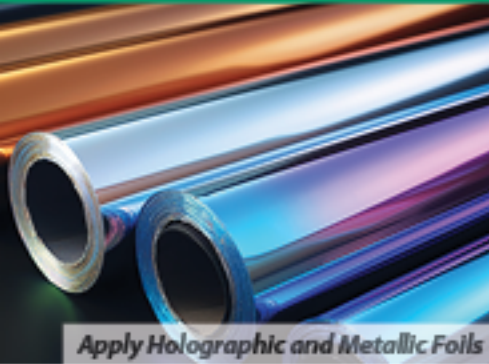
2 Apply imposition and registration marks to both files. Send the imposed CMYK file to your digital press then load the printed sheets on the DDC-8000 feed tray.



3 The DDC-8000 reads the registration marks and accurately applies the varnish. If the cold foil unit has been installed, foil can be applied to areas that have been spot UV coated.



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



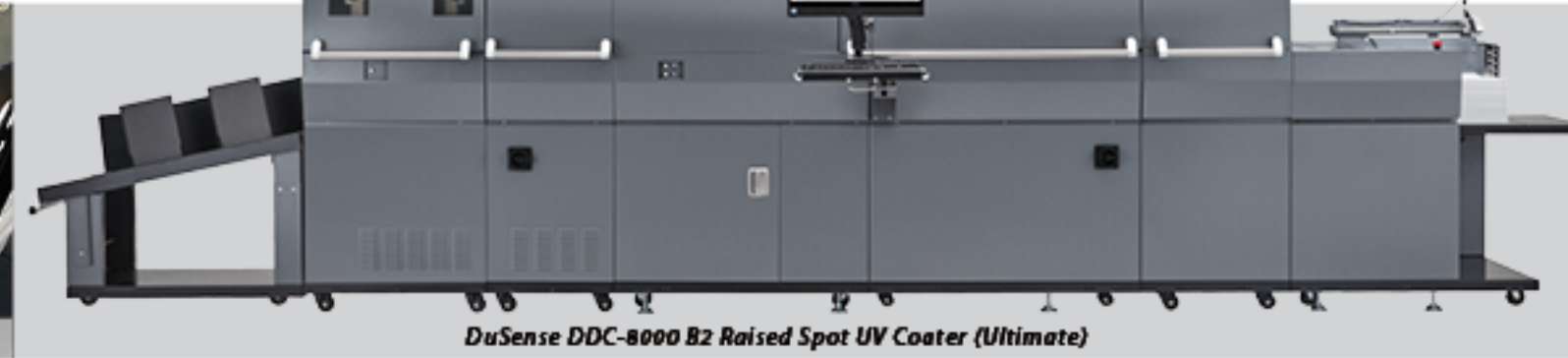
Apply Holographic and Metallic Foils



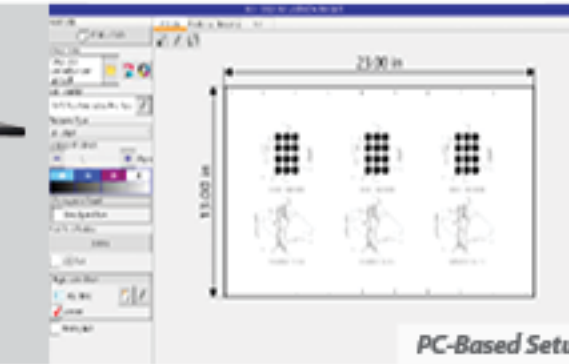
Perfect for Packaging



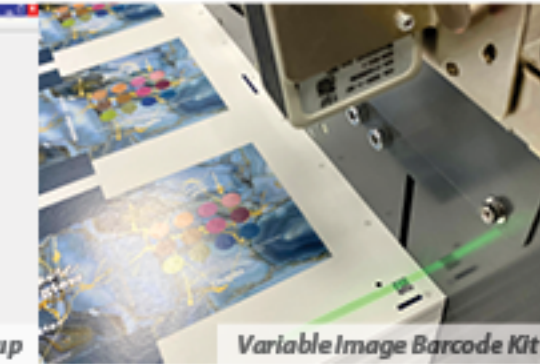
B2 Feeder



DuSense DDC-8000 B2 Raised Spot UV Coater (Ultimate)



PC-Based Setup



Variable Image Barcode Kit



Instant UV Lamp Curing

APPLICATIONS



ONE POLYMER FOR OFFSET AND DIGITAL PRESSES

Duplo polymers are compatible with output produced by B2 devices as well as offset and digital presses from Canon, HP, Konica Minolta, Ricoh, and Xerox. It also performs on laminated stock.

In addition, the DDC-8000 offers the Surface Treatment Unit option to optimize performance by modifying the surface tension of the paper and allowing you to work with a single polymer regardless of the press used. Once treated, a minimum of 10 microns can be applied. No lamination is required.



VARIABLE IMAGE BARCODE KIT

The DDC-8000 comes standard with the Variable Image Barcode Kit, providing variable capabilities for images and text.

The barcode kit reads the 1D or 2D barcode printed on each sheet and the PC Controller software automatically searches the list of stored jobs for the matching file. Within seconds, the pre-ripped spot layer file is loaded on the PC and begins to process without any operator intervention required.

MODULAR DESIGN

The DDC-8000's modular design provides the opportunity to upgrade as customer demands grow and your company evolves. Choose from 4 configurations available to suit your needs:



Essential - Raised Spot UV Coater



PRO - Raised Spot UV Coater with Surface Treatment Unit



Foil - Raised Spot UV Coater with Cold Foil Unit



Ultimate - Raised Spot UV Coater with Surface Treatment and Cold Foil Units

FEATURES

- Utilizes 600x600 inkjet technology, UV lamp curing and camera image registration
- Processes offset and digitally printed output up to 23" x 42" and 600 gsm
- Cold Foil option provides foiled enhancements without stamping dies or lamination
- Surface Treatment Unit option makes it possible to use one polymer with any printed output