

Duplo

DPC-400 Digital Die Cutter

DOCUCUTTER DPC-400 SPECIFICATIONS

AUTO FEED

Feeder Capacity	Up to 3.9" (10 cm)
Sheet Separation	Air powered, variable jet stream separation
Feeding System	Vacuum feed with clamps mounted on gantry
Sheet Size	Min. 8.5" x 11" / Max. 14" x 20"
Paper Weight	200 - 400 gsm

MANUAL FEED

Sheet Size	Min. 8.5" x 11" / Max. 15" x 23"
Paper Weight	75 - 600 gsm

CUTTING CONTROL

Tools	Cut through knife, kiss cut knife, scoring wheel
Cutting System	Digital signal platform
Blade	Tungsten steel
Productivity	30 - 45 seconds per 14"x 20" sheet (depending on design complexity)
Max. Cutting Speed	1,000 mm/second
Cutting Thickness	Up to 1.5 mm
Cutting Tolerance	±0.1 mm

SOFTWARE AND CONNECTION

Software (platform)	DPC Controller (Requires PC with Windows 10 or 7, i3 Processor or higher, 4GB Ram or more, 1 Ethernet port, 1 available PCIe 1X or 16X)
File Format	PLT, DXF, XML, HPG
Network	LAN

GENERAL

Standard Features	CCD camera registration system, 5 tools (J201 cutting knife, J202 cutting knife, J206 cutting knife, J208 cutting knife, and J380 scoring wheel), DPC Controller software (PC sold separately), and air compressor
Power Requirements	220V 50/60Hz 20A, 4KW
Air Compressor Requirements	0.7 HP, Tank Capacity 2.9 Gallons, 101 PSI, 1.41 CFM, 110 VAC
Dimensions (LxWxH)	Machine: 101.2" x 32.6" x 49.2" (2570.5 mm x 828 mm x 1249.7 mm) Shipping: 86.6" x 39.8" x 56.3" (2199.6 mm x 1010.9 mm x 1430 mm)
Weight	Net 915 lb/415 kg (Gross 997 lb/452 kg)

Production rates are based on optimal conditions and may vary depending on stock and enviromental 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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Custom-Shaped Jobs without Dies

DocuCutter DPC-400 Digital Die Cutter

Utilizing a flatbed table and digital cutting technology, the DocuCutter DPC-400 Digital Die Cutter produces short-run packaging, custom-shaped cards and labels without physical dies required. The DPC-400 cuts, kiss cuts, scores and perforates a range of substrates including paper, laminates, adhesives and synthetic stocks up to 400 gsm. It's an affordable and versatile solution for prototyping your designs and sample productions.

NO DIES REQUIRED

Utilizing the DPC Controller software, the triple tooling head follows the lines sketched on the cut file to finish applications into any shape desired. Media is held in place on the flatbed through a suction zone below the conveyor belt as the tooling head moves throughout the sheet.

The DPC-400 comes included with four cutting tools and a scoring wheel, and up to 3 tools can be added in the tooling head. Set them to cut intricate shapes, kiss cut labels and stickers, and score fold lines to avoid toner cracking on packaging and folded pieces.

EASY JOB PREPARATION

Create the cut file in vector programs such as Adobe Illustrator and CorelDRAW to define the cuts, kiss cuts, scores and perforations desired. Export the cut file in DXF, PLT or HPG format then upload and save it on the DPC Controller software (PC sold separately). Prepare the printed artwork file by adding registration marks on each corner of the sheet for accuracy as well as a QR code to instantly retrieve the cut file when scanned.

Job preparation functions, including the application of registration marks and QR code, can be automatically performed using Fiery JobFlow. This EFI integration enables you to create a timesaving workflow that reduces errors and downtime.

AUTOMATED OPERATION

Initiate operation with a touch of a button. As each sheet is transported onto the flatbed, the CCD registration system will read the QR code and pull up the matching cut file on the DPC Controller. Job changeovers are automatic, increasing turnaround times. The CCD will also read all four registration marks to ensure accurate finishing while compensating for any image shifting that may have occurred.

With a stack height of 3.9", the DPC-400 maintains its productivity. Each sheet is vacuum fed with the air knife aiding in separation. The feed tray elevates as sheets are fed and it can be reloaded without interrupting operation.



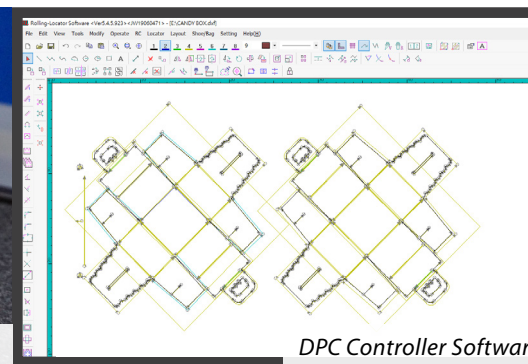
DocuCutter DPC-400 Digital Die Cutter



Triple Tooling Head



CCD Registration System

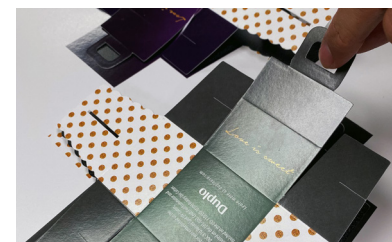


DPC Controller Software

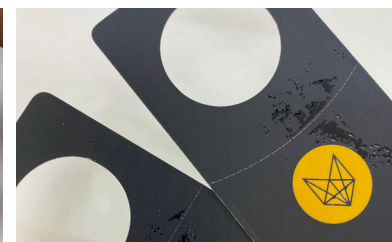


Feed Tray with Sheet Separation

APPLICATIONS



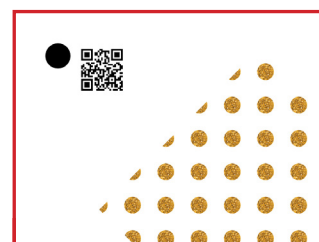
Cut and Score Boxes



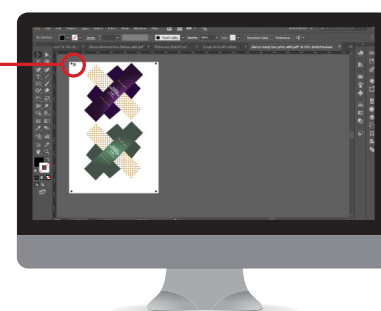
Perforate Fold Lines and Tear Offs








Kiss Cut Adhesives



For accuracy, the print file (portrait) requires four registration marks (3 mm dot) on each corner and QR code (10 mm) on top left corner next to the first dot.



STANDARD TOOLS

TOOLS		DESCRIPTION
J201 CUTTING KNIFE		For 120 – 300 gsm paper
J202 CUTTING KNIFE		For 150 – 400 gsm paper
J206 CUTTING KNIFE		For stickers, labels
J208 CUTTING KNIFE		For stickers, labels and 120-300 gsm paper
J380 SCORING WHEEL		0.63 mm scoring wheel



Scan to watch the video

- Delivers customized, short-run jobs on demand
- Digitally cuts, kiss cuts, scores and perforates in one pass
- Performs changeovers automatically to reduce downtime
- Processes paper, laminates, adhesives and synthetic stocks
- Triple tooling head offers more versatility