

Duplo

UD-310

Rotary Die Cutter

UD - 310 SPECIFICATIONS	
Paper Size	Minimum: 8.267" x 11.693" (219 x 297 mm) Maximum: 15.35" x 20.47" (390 x 520 mm)
Paper Weight	Minimum: 106 gsm/ 28lb. bond/ 6 point/ 0.0058" / 0.15mm Maximum: 400 gsm/ 130 lb. cover/ 18 point/ 0.015" / 0.4mm With Separator: Minimum 200 gsm
Speed	3-Step Speed Adjustment: High: 8,000 rotations - up to 4,000 sheets/hr Medium: 5,400 rotations - up to 2,700 sheets/hr Low: 2,700 rotations - up to 1,350 sheets/hr
Tolerance	±0.2 mm
Feed System	Air Suction, Top Belt Feeder
Feeder Capacity	Up to 8.7" (220 mm)
Substrates	Paper, laminates, adhesives and synthetic stocks up to 400 gsm
Power	AC 110-115V 50/60 Hz. 5 Amps
Dimensions (LxWxH)	81.10" x 27.17" x 46.85" (2,060 mm x 690 mm x 1,190 mm) with conveyor: 127" x 27.17" x 46.85" (3,226 mm x 690 mm x 1,190 mm)
Weight	882 lbs. (400 kg)

*Production rates are based on optimal conditions and may vary depending on stock and enviromental conditions.
As part of our continuous product improvement program, specifications are subject to change without notice.*

Duplo USA Corporation

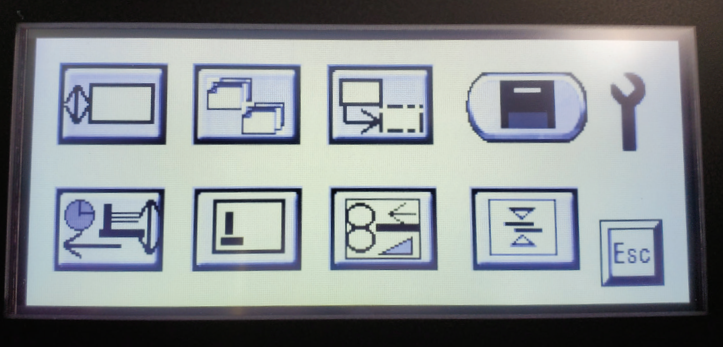
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Versatile, Cost Effective Solution for Die Cut Business Cards,
Packaging and Everything in Between

UD-310 Rotary Die Cutter

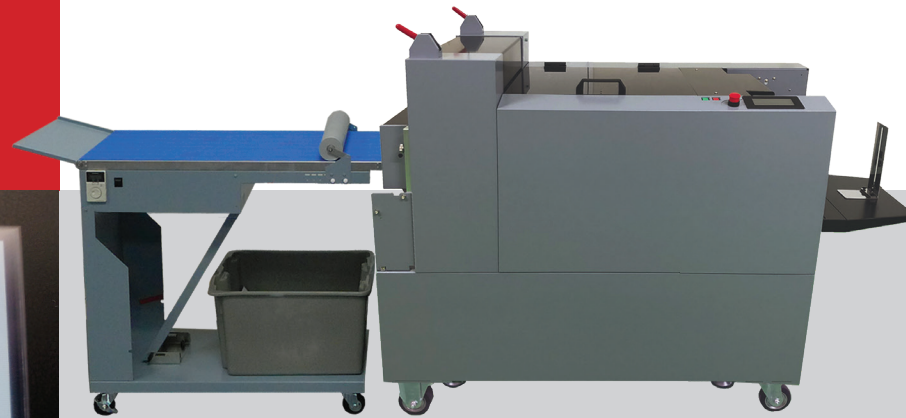
The high-speed UD-310 Rotary Die Cutter delivers on demand packaging and marketing pieces in distinctive shapes and sizes. With an increased processing speed of up to 4,000 sheets per hour, the UD-310 utilizes a magnetic cylinder and interchangeable flexible dies that affix to it to cut paper, laminates, adhesives and synthetic stocks up to 400 gsm. It's a versatile, cost-efficient solution designed to maximize productivity with minimal job setups and fast turnarounds.



FLEXIBLE DIES

Flexible dies are custom-made according to customer specifications using engraved, magnetic steel. They are more economical and faster to manufacture, easier to ship and store, and offer a high degree of cutting accuracy compared to steel rule and solid dies. Flexible dies are also easy to mount, with alignment marks on the cylinder for easy adjustments, and can be switched out in less than a minute – reducing setup times with less make readies.

Flexible dies can be designed to perform a range of finishing capabilities including die cutting intricate shapes, kiss cutting labels and stickers, perforations with specified teeth, and three-knife creasing to prevent toner cracking on packaging applications.



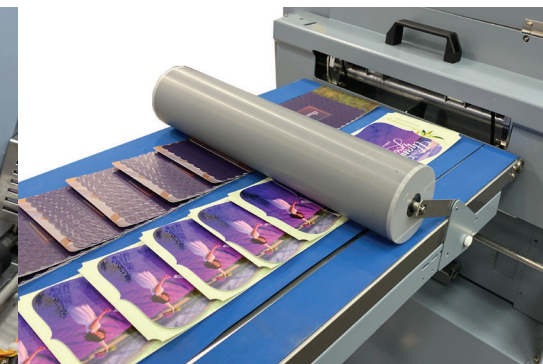
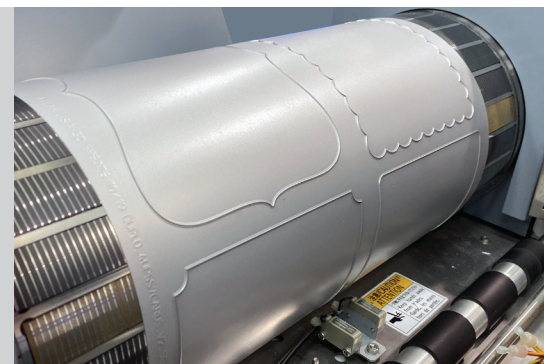
UD-310 Rotary Die Cutter with standard long conveyor stacker



JOB SETUP AND OPERATION

Setup, changeovers and operation are a simple process. Once the die is mounted over the magnetic cylinder and sheets are loaded on the feed tray, job programming and adjustments are made through the intuitive touchscreen panel with individual buttons to start and stop operation. Adjustments can be made in 0.1mm increments along the width and length of the sheet to ensure proper sheet alignment with the fixed die position. Operators can use the three-step speed adjustment to slow down or speed up the rotational speed of the cylinder for consistent cutting and separation of both thicker and thinner stocks.

The UD-310 utilizes an improved six-belt air suction feed system with fans and air blowers to aid in the separation of double-sided laminated and synthetic stocks as well as reduce static on digitally-printed sheets. The feed system features an increased stack capacity of 8.7" (220 mm) for continuous operation of longer runs and an ultrasonic double feed sensor to detect when two or more sheets have been fed.



SEPARATION STATION

The UD-310 comes standard with a revamped separation station and long conveyor stacker. The built-in separation station removes the skeleton from the finished application, deflecting it down into the waste bin. The station utilizes a cassette module with deflectors and pressure rollers to perform separation and can be easily changed over for different types of jobs. Only the finished pieces are delivered onto the long conveyor stacker. Offering various speed adjustments, the conveyor stacker allows finished pieces to be neatly stacked for easy removal and productivity.



FROM BUSINESS CARDS TO PACKAGING

Produce business cards and brochures with decorative edges, retail packages with window punches, and unique product labels for impactful presentations. Offer event invitations, flyers and direct mailers in precise shapes that boost response rates. Create a new revenue stream by offering customized boxes such as sleeve, tuck end, gable, pillow and so much more. Easy to operate, the UD-310 Rotary Die Cutter brings value, opportunity and profitability to the business of print.



X AND Y REGISTRATION COMPENSATION

The UD-310 comes standard with X and Y registration sensors that can read the registration mark on either side of the sheet to compensate for image shifting in both horizontal and vertical directions. Operators can process sheets face up or down depending on the application. When the mark is read, registration guides adjust automatically and maintain sheet alignment throughout the job to ensure each sheet is accurately cut every time.

- Up to 4,000 sheets per hour
- 8.7" (220 mm) feed capacity stacker
- 15.35" x 20.47" maximum sheet size
- Paper, laminates, adhesives, and synthetic stocks up to 400 gsm
- Standard separation station with long conveyor stacker
- * Future in-line capability with a digital press, UV coater or high pile feeder