



Duplo

DC-646

Slitter/Cutter/Creaser

DC-646 SPECIFICATIONS

Speed	Up to 30 sheets per minute (8.5" x 11" 2 cuts, 1 crease and CCD scanner off)
Input Paper Size	8.26" x 8.26" to 14.56" x 26.37" (210 mm x 210 mm to 370 mm x 670 mm)
Min. Finished Size	1.89" x 1.97" (48 mm x 50 mm)
Tolerance	±0.2 mm. When running sheets heavier than 350 gsm, the tolerance for slitting and creasing is ±0.3 mm (±0.4 mm for business cards).
Feeder Capacity	3.9" (100 mm)
Paper Weight	110-400 gsm (up to 350 gsm when creasing)
Slits	Up to 8 per sheet (6 standard slitter tools with 2 margin slitters and 4 center slitters. Optional slitter module with a set of 2 slitters can be added.)
Cuts	Up to 25 per sheet
Creases	Up to 20 per sheet
Memory	250 jobs using the control panel
Standard Features	Air knife, side air kit, card stacker, fan registration, automatic gutter slit deflectors, crease depth adjustment, ultrasonic double feed detection sensor, feed skew adjustment, batch separation, waste box, emergency stop switch, on-the-fly rejection, CCD scanner, PC Controller software, PC pole mount, long paper tray, LCD control panel
Options	PC and PC Arm, CRM-12 Lightweight Paper Creaser Module, 48" long conveyor stacker, and Integrated Folding System (IFS) RTM-02 Rotary Tool Module includes 2 each of perforation, micro-perforation, scoring, and slit-scoring tools. Up to 2 RTM-02s can be installed in the unit at one time, replacing slitter modules. CPM-02 Cross Perforation Module includes 1 each of perforation, micro-perforation, and slit-scoring tools. OSM-02 Slitter Module includes 2 sets of slitter heads. The OPK-02 PCB kit must be installed when using any of the optional modules but only one kit is needed to use multiple modules.
Power Requirements	115V: 4.0A, 60Hz
Dimensions (W x D x H)	91" x 40" x 44" (2,311 mm x 1,016 mm x 1,118 mm)
Net Weight	617 lb. (280 kg)

* The DC-646 can be adjusted to process banner sheets up to 39" in length. Length is 31" (787 mm) when using standard long paper feed tray. 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.

Duplo USA Corporation

3050 S. Daimler St.
 Santa Ana, California 92705
 Toll Free: 1-800-255-1933
 Telephone: 1-949-852-8222
 Email: sales@duplousa.com

Find Us Online

-  duplousa.com
-  [linkedin.com/company/duplo-usa-corporation](https://www.linkedin.com/company/duplo-usa-corporation)
-  [facebook.com/duplousa](https://www.facebook.com/duplousa)
-  twitter.com/duplousa
-  [youtube.com/duplousa](https://www.youtube.com/duplousa)

Automated, Precision Finishing for Mid-Range Production

EXPERIENCE AUTOMATION AND
 PRECISION IN DIGITAL COLOR FINISHING

DC-646 Slitter/Cutter/Creaser

The fully automated DC-646 Slitter/Cutter/Creaser is Duplo's mid-range, precision finisher. With its ability to slit/cut/crease, perforate and fold in one pass, the DC-646 delivers professionally-finished applications up to 30 sheets per minute.

Eliminate touchpoints and increase productivity. Finish digital print jobs in faster turnarounds. Ideal for short to mid-production runs, the DC-646 produces a variety of applications such as 24-up business cards, postcards, coupons and tickets, book covers, and much more. Bring precision finishing in-house!

NO MANUAL SET UPS

Cut job costs by doing away with time-consuming set ups and make-ready times. With the DC-646, you can efficiently operate the system from a PC station (sold separately). The PC Controller software features a newly enhanced interface and makes it easy to program jobs for multiple-up finishing with up to 8 slits, 25 cuts and 20 creases. Save time by storing virtually an unlimited number of jobs on the hard drive and recall them when needed. Use the job template library and sample PDFs to ensure margins and gutters are set correctly for optimal finishing.

Alternatively, the LCD control panel can be utilized to program and store up to 250 jobs in memory.

AUTOMATED REGISTRATION & CHANGEOVERS

Reduce downtime between jobs by adding a barcode and registration marks. When reading the barcode, the built-in CCD scanner can automatically recall and change over the job in an instant without any intervention required. The CCD scanner can also read the registration marks on every sheet to compensate for any shrinkage and image shift, in both horizontal and vertical directions, on the fly.

The DC-646 utilizes Duplo's signature air suction belt feed system, which feeds from the top of the stack to minimize scuffing and reduces static between the sheets. The ultrasonic double feed sensor detects when two or more sheets have been fed with rejects sent to a reject tray. In addition, its soft sponge rollers allow you to finish raised spot UV coated applications with confidence.

PRECISION FINISHING SECOND TO NONE

Automating the finishing process allows your operator to focus on other tasks. Equipped with rotary slitters, a guillotine cutter, and a depth-adjustable creaser – the DC-646 offers the versatility of multiple devices in one. Margins and gutters are trimmed horizontally by the slitter and vertically by the cutter then deposited into the waste bin. Only the finished pieces are delivered on the exit tray.

Creasing digitally-printed jobs such as greeting cards, book covers, and brochures prior to folding prevents toner cracking and unattractive fold lines. The creaser utilizes male and female matrix channels to create a hinge along the sheet to be folded with ease. Use the adjustable 3-step crease depth or add the new lightweight paper creaser module to optimize performance when processing thinner stock.



Air Suction Feed System

Barcode and Registration Mark Scanner



DC-646 shown with optional PC and PC arm.



Modular Finishing



Card Stacker



DC-646 with Integrated Folding System

AUTOMATE PREPRESS & FINISHING WITH FIERY IMPOSE

Save up to 70% in set up time by automating job preparation and eliminating manual data entry with Fiery Impose® in Fiery Driven™ print environments. For common jobs, such as business cards, Duplo provides imposition templates to use in Fiery Impose that match the finishing templates. For custom layout jobs, create a new layout file on the PC Controller, import it into Fiery Impose and see a preview of the finishing lines to verify job designs before printing.

This integration allows you to easily input the barcodes and registration marks for the DC-646 to read. Create a timesaving workflow that reduces errors and accelerates turnaround times. Download the how-to guides and templates at fiery.efi.com/htg-impose-duplo.

PERFORATING & IN-LINE FOLDING OPTIONS

Extend the versatility of your DC-646 by adding up to three perforating and slitting modules. Combine the Rotary Tool and Cross Perforation modules to produce tickets, coupons, and reply cards with T- or L-shape perforations.

- Rotary Tool Module performs perforations, micro-perforations, scores and slit-scores across the length of the sheet. Tools are positioned automatically and can perform strike perforations.
- Cross Perforation Module performs perforations, micro-perforations and slit-scores across the width of the sheet. Tools are positioned automatically and can perform strike perforations.
- Slitting Module adds a set of two slitters to process up to 8 slits per sheet.

In addition, you can eliminate an extra set-up by adding an in-line knife folder with the Integrated Folding System (IFS). Go from flat sheets to finished pieces that are cut, creased, perforated, and folded in one pass.

APPLICATIONS

2-up Coupons on 13" x 19" with T- and L-shape Offset Perforated Cards



finished pieces

1-up Flyer on 12" x 18" with One Fold and L-shape Perforated Card



fold with IFS in one pass finished pieces



Scan to watch the video

- All-in-one finishing for small to mid-size runs
- Eliminates touchpoints and reduces downtime
- Integrates with Fiery Impose® in Fiery Driven™ environments
- Removes margins/gutters and prevents toner cracking
- Creates custom T- and L-shape perforations