

# DC-646i

## SLITTER/CUTTER/CREASER

THE FOUNDATION FOR SMARTER FINISHING

Speed of up to 30 sheets per minute  
Automatically positioned tooling  
8 slits, 25 cuts and 20 creases in a single pass

*Direct mail, Menus, Business cards, Post cards, Greeting cards, Photo-books*



One look at the powerful, heavy duty build of the DC-646i is enough to reveal its innovative design and efficient dynamics. Together with its high-quality and motorised tooling, it is the foundation of the most versatile finishing system available in the market today.

The result of analysing the current market trends and anticipating future demands of digital printers, the DC-646i is the perfect solution for a mid to high volume digital printer.



**Intelligently designed. Intelligently integrated.**

The DC-646i starts as a guillotine and creaser but can be configured to be the most advanced finisher in its class and all in one highly efficient and compact footprint. Not only does it save on labour, time, space and the cost of purchasing 3 machines, it also dramatically reduces the multiple handling of printed sheets from one machine to another.



**Exhilarating experience. Ease of operation.**

The DC-646i comes equipped with PC controller software that enables users to set up new jobs and manage all functions. It also stores an unlimited number of jobs for quick and easy recall.



**Advanced Feeding Mechanism. Superior Air Management System.**

The DC-646i has a unique feeding mechanism for precise and accurate feeding. This reduces the risk of damaging the printed sheet by using a combination of multiple air vents to lift and separate the sheets from the top of the 100mm high capacity unit. The top sheet is picked up and fed by vacuum using a super wide feed head and registers to a side lay that is adjustable for image skew.



**Automated Precision. Redefined to the point of perfection.**

Some strive to achieve perfection; the DC-646iPRO simply makes it look easy. The DC-646iPRO uses a single CCD camera to read the barcode and registration mark. With 5 settings and suitable for any digital press, the system automatically identifies jobs and sets up the tooling to the printed registration mark. This compensates for image drift and ensures the processed sheet is finished perfectly every time.

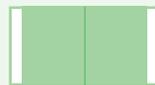
**Finishing Process**



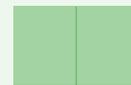
Feeding



Slit



Crease



Cut



Stack





### Brilliant Design. Open Architecture

When designing the DC-646i Duplo wanted to ensure that it minimizes operator intervention and system downtime. The DC-646i therefore has an open architecture to prevent any clogging. The waste from the sheet passes through to the large bin to allow longer runs between unloading. Additional modules are neatly stored on hangers on the outer body of the DC-646i. This will not only increase the life of the modules but also keep your finishing room organised and tidy.



### Applications have never been so easy to create. And of course finished.

It is easier than ever to set up new jobs on the DC-646iPRO and export the PDF template for your pre-press or designer to use. Duplo have included a library of recommended templates as an Adobe Acrobat interactive catalogue. This library contains the templates, pre-programmed for the most common and also some more complex jobs.



### Packed with advanced technology.

The DC-646i comes equipped with a marginal slitter module, 2 centre slitter modules, a creaser tool and a cross knife tool, as standard. Add further optional modules and it can perf, slit-score, micro-perf/score in both directions and skip perf multiple times, all in a single pass. This enables operator to produce up to 8 slits through the length of the sheet, 25 cross-cuts and 20 creases in a single pass.



### Easy Upgrade Path

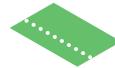
As your business grows and adapts to your meet the demands of your customers, so will the DC-646i. There are a range of options available to build on the flexibility of this unique multi-finishing device.

For more complex and advanced finishing there are a number of option modules:



### Slitting Modules

Each slitting module comes with a pair of independently controlled slitting tools. A total of 4 slitters can be installed, providing 8 cuts in a single pass.



### Rotary Tool Module (RTM)

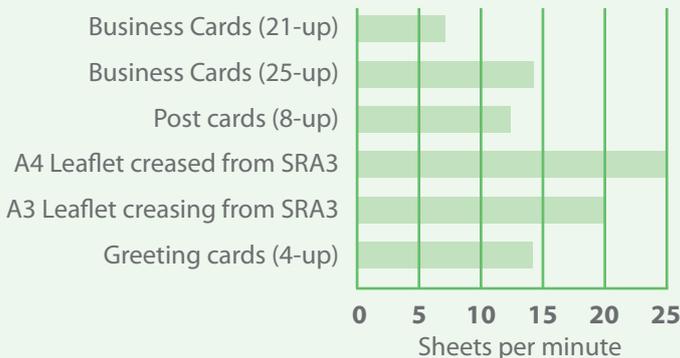
The RTM offers two independently controlled tools which allow users to easily switch between combinations of scoring, perforating, micro-perforating and slit-scoring. In addition, the RTM has the ability to automatically raise and lower the tools, creating a non-continuous strike or skip perforations along the sheet.



### Cross-Tool Module (CTM)

The CPM can perforate across the width of the sheet. It can automatically raise or lower the tools creating variable cross-perf along the sheet. Users can also switch between micro-perforation, perforation and slit-score. The CPM can be programmed to create a wide variety of perforation patterns without ever changing the tool.

### Speed Chart



Large waste bin



PC Controller software

# Specifications

<b>Speed:</b>	25ppm ( A4 LEF 2 cut & 1 crease)
<b>Operation:</b>	Multi-language windows based PC controller software and control panel
<b>Job Memories:</b>	250 Unlimited memories on PC Controller
<b>Feeder:</b>	Capacity 100mm Air knife plus vacuum separation, skew adjustment
<b>In-feed paper size:</b>	Width 210-370mm Length 210-670mm (999mm*)
<b>Minimum finished size:</b>	Width 48mm Length 50mm**
<b>Paper weight:</b>	110-350gsm
<b>Tolerance:</b>	+/-0.2mm
<b>Slits (length of sheet):</b>	Six (standard) Eight (with the optional module)
<b>Slitter details:</b>	Side margin slit width: 3.2-55mm Gutter slit width: 5-15mm > 15mm delivers to stacker
<b>Creases:</b>	Max. 20 per sheet
<b>Cutter (cross knife):</b>	Max. 25 per sheet
<b>Cutter details:</b>	Lead edge margin: 3mm (0.1mm*) Gutter cut between cards: 3mm (0.1mm*) Trail edge margin: 5.0mm (0.1mm*)
<b>Receiving stacker:</b>	140mm
<b>Card stacker capacity:</b>	60mm
<b>Noise level:</b>	Less than 80db during a continuous operation
<b>Power:</b>	230 VAC 50/60Hz 1.9A 400W
<b>Weight:</b>	285kg

\* Extended specification

\*\* 28mm minimum length is possible but may affect accuracy.

# Optional Modules

<b>Rotary Tool:</b>	Minimum distance between tools 48mm Accuracy +/- 0.2mm
<b>Slitting:</b>	Minimum distance between tools 48mm Accuracy +/- 0.2mm
<b>Cross Perforation:</b>	Max. 20 per sheet Minimum distance between perforations 0.1mm

# Rotary Tool Module

<b>Document weight:</b>	Perforation tool 15tpi: 110-350 gsm Micro perforation tool 25tpi: 110-180 gsm Score tool: 110-350 gsm Slit-score tool: 270-350 gsm
<b>Module weight:</b>	8.0kg

# Cross Perforation Module

<b>Document weight:</b>	Perforation tool 15tpi: 110-350 gsm Micro perforation tool 25tpi: 110-180 gsm Slit-score tool: 270-350 gsm
<b>Module weight:</b>	7.0 kg



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