

# DC-646i

## SLITTER/CUTTER/CREASER

THE FOUNDATION FOR SMARTER FINISHING

Speed of up to 30 sheets per minute  
Automatically positioned tooling  
8 slits, 30 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 separate 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-646i simply makes it look easy. The DC-646i 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. While the machine looks after automated set-up and running, the operator can use his time more efficiently with other manual tasks. Unloading on the run is made convenient with pause functions and batch separation, allowing minimal interruptions to production.

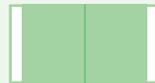
**Finishing Process**



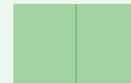
Feeding



Slit



Crease



Cut



Stack





### Brilliant Design. Open Architecture

When designing the DC-646i Duplo wanted to ensure that it minimises operator intervention and system downtime. The waste from the sheet passes through to the large bin below 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 avoid the modules being accidentally damaged when not in use, 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-646i 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 as standard with a margin slitter module, 2 centre slitter modules, a creaser tool and a cross knife tool. Add further optional modules and you can create more features such as perforation, slit-scoring, micro-perforation, and scoring in both directions and also skip perforation multiple times on the sheet, all in a single pass. This enables the operator to produce up to 8 slits through the length of the sheet, 30 cross-cuts and 20 creases in a single pass.



### Easy Upgrade Path

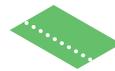
As your business grows and adapts to meet the demands of your customers, so will the DC-646i. There are a range of options available to build on the flexibility of this unique multi-finishing device.

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)

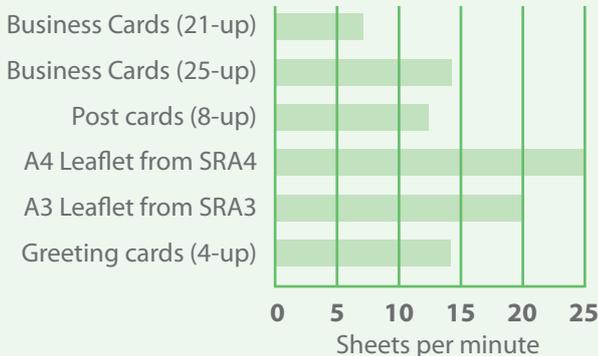
The RTM offers two independently controlled tools that allow users to easily switch between combinations of scoring, perforating, micro-perforating and slit-scoring. In addition, the RTM has the ability to automatically raise and lower the tools, creating a non-continuous strike or skip perforations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



### Cross-Tool Module (CPM)

The CPM can perforate, micro-perf or slit-score across the width of the sheet. This can be the full width, or by automatically raising and lowering the tools, skip-perforations can be made. Up to 4 different sequences can be programmed to allow various patterns in different locations along the sheet. This design allows great flexibility without the need for changing a rule cut to a specific size.

### 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, Side air blower
<b>In-feed paper size:</b>	Width 210-370mm Length 210-670mm (999mm*)
<b>Minimum finished size:</b>	Width 48mm Length 50mm (28mm*)
<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. 30 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 capacity:</b>	140mm
<b>Card stacker capacity:</b>	60mm
<b>Job separation:</b>	Manual or time interval for batch separation
<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

# 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 16tpi: 110-350 gsm Micro perforation tool 50tpi: 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 16tpi: 110-350 gsm Micro perforation tool 50tpi: 110-180 gsm Slit-score tool: 270-350 gsm
<b>Module weight:</b>	7.0 kg



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