Specifications

SC1 Straight Conveyor

Paper Weight:	110 - 350 gsm
Power:	From Folder
Dimensions (LxWxD mm):	550 x 610 x 1070
Weight:	46 kg
Notes:	Optional for DC-445 Compulsory for DC-645

CC1 Cross Conveyor

Paper Weight:	110 - 350 gsm
Power:	From Stacker , 0.4 A
Dimensions (LxWxD mm):	790 x 730 x 1040 -1160
Weight:	76 kg
Notes:	

F1 Folder

Paper Weight:	110 - 350 gsm
Power:	230 VAC , 0.9 A
Dimensions (LxWxD mm):	550 x 610 x 1070
Weight:	95 kg
With DC-445:	30 job memories up to 50 sheets per minute
With DC-645:	80 job memories up to 18 sheets per minute
Notes:	Minimum Fold 42.5mm Dbl. Parallel Fold max. 230gsm

ST1 Long Stacker

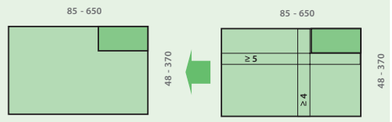
Paper Weight:	110 - 350 gsm
Power:	230 VAC , 0.4 A
Dimensions (LxWxD mm):	710 x 710 x 1330 - 1450
Weight:	54 kg
Notes:	Stack Capacity 400mm

ST2 Short Stacker

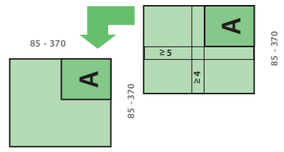
Paper Weight:	110 - 350 gsm
Power:	230 VAC , 0.4 A
Dimensions (LxWxD mm):	650 x 410 x 1230 - 1350
Weight:	21 kg
Notes:	Stack Capacity 200mm

Gutter dimensions relevant for connection to DC-645

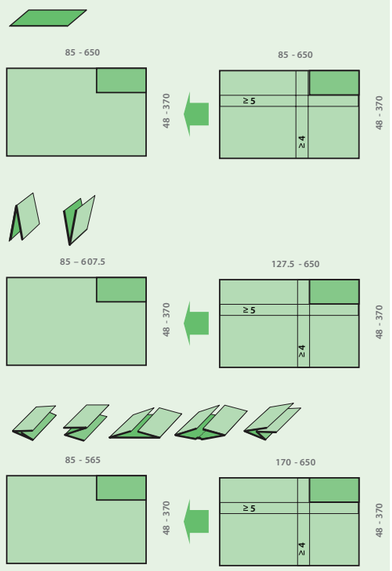
SC1 Straight Conveyor



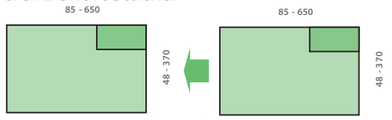
CC1 Cross Conveyor



F1 Folder



ST1 Long Stacker & ST2 Short Stacker



*Stacker 2 extension (STE-01) : Allows items longer than 475mm to be stacked neatly

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Duplo®
from print to documents

INTEGRATED FOLDING SYSTEM

FULLY AUTOMATED FOLDER ENHANCES DUPLO SYSTEMS FOR DIGITAL COLOUR PRINT

Finish in one pass with one operator
Automated set-up and operation
Purpose built for digital print

Greeting Cards · CD Covers · Leaflets · Photo Applications · Direct Mail

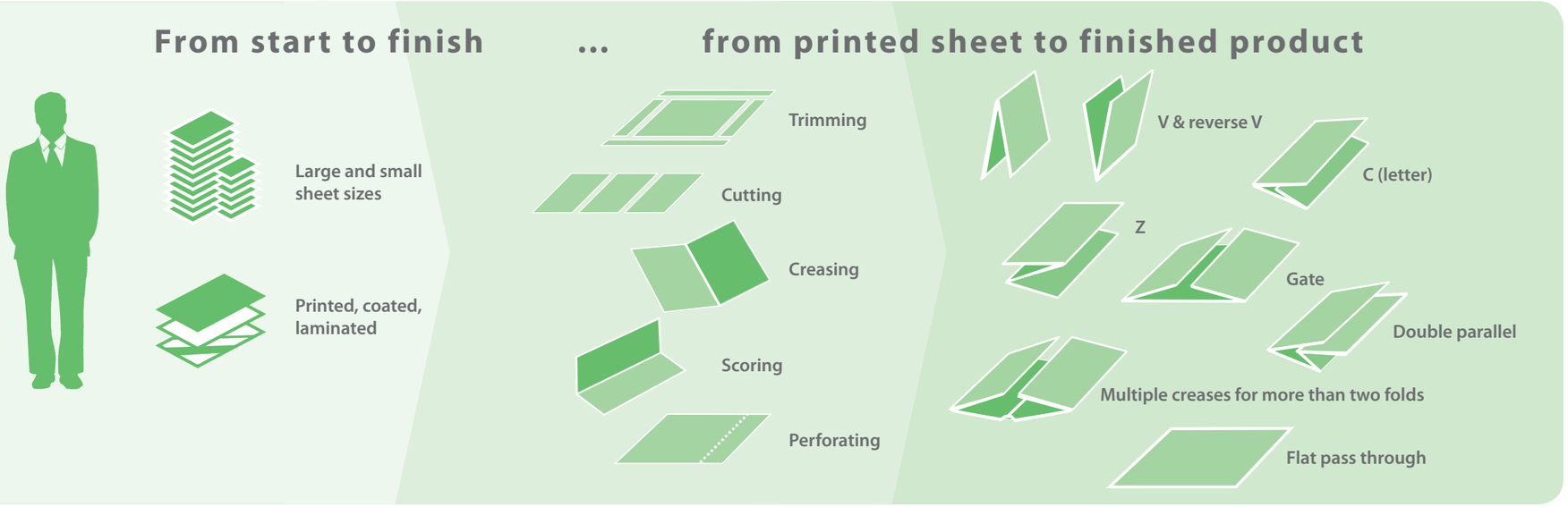
The Integrated Folding System is a range of 5 modules purpose built to extend the inline capabilities of the DC-445 and DC-645 finishing systems for digital colour print. In addition to the existing features of cutting, creasing and perforating, one operator can now fully finish different applications from offset or digital presses such as greeting cards, CD covers, small format 'tent' cards, brochures and leaflets.

From START to FINISH

ONE operator

ONE point of control

ONE pass



Your business model

When using digital print to produce small jobs quickly, it's vital that the time and margins gained during the printing process will not be lost in the finishing department. Waste and errors must be reduced at every opportunity. Removing repetitive tasks and utilising automation to make your in-plant operation as efficient as possible – is a must!

Flexibility and adaptability are vital as customer jobs and schedules change. Making a business from providing short-run print can be hectic with little margin for errors. Producing lots of overs for setting up finishing kit is not relevant to your business and jobs must be finished in-house to ensure you retain control, profits and deliver what you committed to. On time.

Your finishing process today

Printed sheets typically need to be taken to a guillotine, then a creaser and then a folder. Not only does this require multiple machines, with the paper handled and processed over and again by man and machine, but overs need to be printed to allow set-up at each stage. The procedure is further complicated by needing to schedule work on each device, or suffer delays when work has to wait while one operator is busy on another job. Finally, different machines need different operators and skills, frequently more than one, leading to increased staff costs.

The multi-function solution

How much better to add folding, sorting and stacking functions to a Duplo finishing system designed specifically for digital print, creating an economical and efficient multi-function system.

The flexible Integrated Folding System allows printers to automate the complete job set-up from one point, reducing handling, errors and waste. Finishing work in one pass with only one operator results in considerable cost savings in equipment, time and labour.

Modular Finishing – Optimised to your requirements

These modules allow as many as 18 different configurations to be assembled, complementing the huge flexibility of these systems for finishing digital colour print and providing the best possible solution for the customer. Start with a stand-alone creaser and add modules as your demands change with your business.

Upgrade from DC-445 to DC-645 and reuse the same finishing modules. The combination of automated set-up and enabling flat items to bypass folding functions means the systems can change from one job to another in seconds. One operator can swap out a module and change to another system configuration in about 10 minutes.

Leaflets

Direct Mail

Greeting cards

Photo gift products

DC-445 DuCreaser
Ideal for the short run digital colour print market, the DC-445 contains a male rule and female matrix that creates a crease in the paper in such a way that when folded, the common problem of toner cracking is eliminated.

Capable of applying up to 15 creases in one pass and with a speed of up 50 sheets per minute from a "Load & Go" vacuum feed system to reduce the potential for image damage, it can handle the output of most digital presses.

Options include slitting and perforating tools.

Programming of up to 30 jobs can be performed through the easy to use control panel.

Folder
The core module of the IFS range complements the creasing rule of the DC-445 and DC-645 by featuring two knives to fold the paper between rollers, avoiding crushing of the crease typically found in conventional buckle type sheet folders. This allows 7 common fold patterns and jobs that do not require folding can pass through to the high capacity stacker or into a divert tray beneath

The **Straight Conveyor** synchronises the transport of paper through the system, optimising production speeds between the various elements, making the system more efficient and creating greater flexibility and options for the user. (Optional for DC-445, Mandatory for DC-645)

For example, the simplest configuration possible is with the DC-445 DuCreaser and basic Short Stacker. This system creates an economical and fast solution, processing 35ppm (A4, half fold). Flat items can be collected in the stacker or to the receiving tray below. The addition of the Straight Conveyor module increases speed further to 50ppm

Hand Feed
For the Straight Conveyor, enabling the finishing of short runs creased elsewhere.

Stacker
Output from the system is collected in one of two alternative versions of high capacity stackers; both of which can collect folded and flat items.

The **Long Stacker** is a floor standing model allowing easy reconfiguration of the system and accepts the highest capacity (up to 400mm) allowing the system to run uninterrupted for the longest possible period.

A smaller economical model is the **Short Stacker** which provides the same features, but at half the capacity also saves floorspace.

Both Stackers can be used independently of the folder system, attached directly to the host machine to provide increased output capacity.

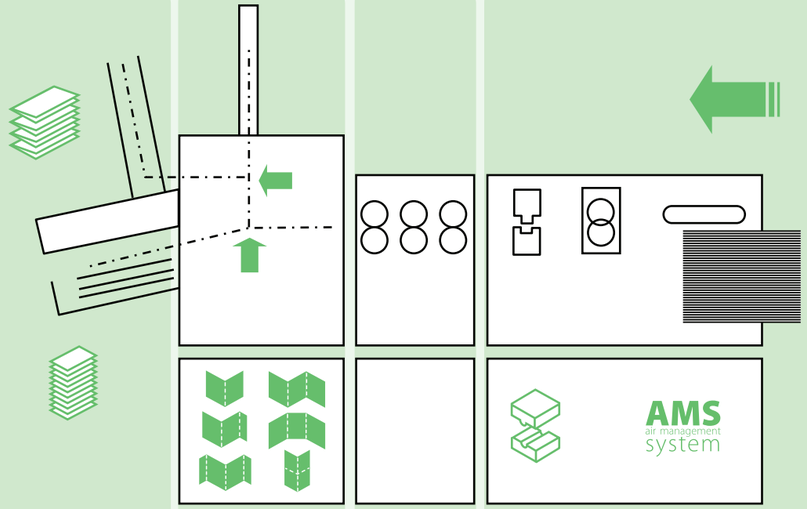
Process workflow

Stacker
short or long

Folder

Conveyor
(option)

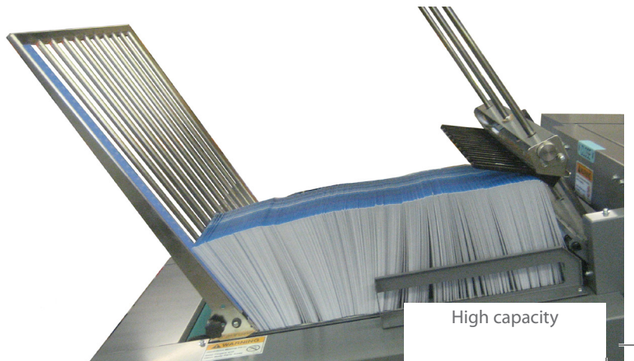
Creaser
DC-445




Folded cards

Leaflets


Hand feed


High capacity

DC-645 Production Colour Finisher
The DC-645 offers high quality slitting, cutting and creasing in a single machine, making it an ideal device to meet any requirements for short run and fast turnaround print production. Like the DC-445 it uses a vacuum feed system, but can also automatically set up the tooling to a printed registration mark by using its built-in camera, compensating for the common problem of image drift. This ensures that each processed sheet is finished accurately and that it slits, cuts, creases and perforates in precisely the right place, reducing waste and ensuring high quality and optimum output.

The heavy duty DC-645 is capable of handling up to 26 sheets per minute and can accommodate paper weights ranging from 110 to 350gsm.

Standard components:
A wide range of products can be made by combining up to 6 x slitters along the sheet, with cutter and creaser across the sheet. Stack postcards and photobook pages, or convey to the side in one sequenced pile in page order ready for posting

Options:
Business Card Module converts a sheet of full-colour business cards in one pass with increased productivity and accuracy.
Perforator applies up to two perforations along the sheet. Ideal for tear off coupons, return slips, payment cheques, then cross-fold to C-format ready for posting.
Rotary Scorer applies up to two scores along the sheet (90 degrees to crease). Provides greater flexibility in producing tri-fold leaflets, booklet covers etc in one pass. Fold ready for packing.

The **Cross Conveyor** is used for changing the direction of items between other modules. When used before the Folder, jobs that have been scored with the optional DC-645 Rotary Score Module are turned sideways and oriented correctly for folding. When used after the folder, jobs that have been creased with the standard Creaser Module are turned sideways and collected in one stack in ordered sequence.

Systems can be configured that do not include the Folder; for example a Cross-Conveyor and Stacker for merging items into one ordered sequence, is useful for photobook pages or direct mail, making prepress imposition easier, reducing labour to sort work and earning huge discounts from postal discounts.

Central Control
Although the Folder features a control panel, the set-up, programming and management comes from the host machine. The DC-445 DuCreaser has 30 user-defined job memories and the DC-645 has 80.

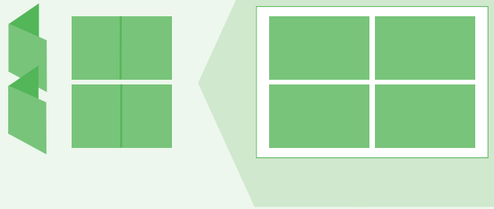
For the DC-645, programming can also be achieved through the ' Job Creator' software which runs on PC and Mac and provides a user-friendly graphical interface to create, edit and save jobs in a format that is very popular with operators. Jobs can be programmed while the system is running, or prepared remotely by the pre-press operator then copied over a network onto the local computer, ready for the finishing operator to upload and use. In this way, a virtually infinite range of jobs can be stored and recalled at a moments notice.

Long Stacker

Card stacking

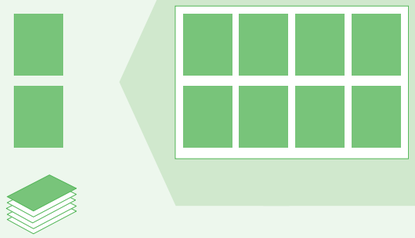
Conveyor / Folder / Long Stacker

Multiple folded cards



Cross Conveyor / Long Stacker

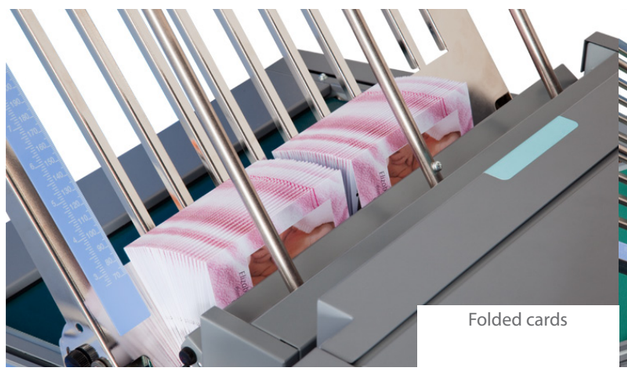
Sequential stacking



Cross Conveyor / Conveyor / Folder / Long Stacker

Cross folding (with perforating or scoring)

Business cards



Folded cards

Cross conveyor

PC interface