IFS Integrated Folder System

SYSTEM CONFIGURATIONS

DC SERIES	DC-445 CREASER	DC-615 SLITTER/CUTTER/CREASER	DC-645 SLITTER/CUTTER/CREASER	DC-745 SLITTER/CUTTER/CREASER
FEEDING CAPACITY	3.9" (100 mm)			5.9" (150 mm)
INPUT PAPER SIZE	5.5" x 5.9" to 12.6" x 25.6" (140 x 150 mm to 320 x 650 mm)	8.26" x 8.26" to 12.6" x 18.1" (210 x 210 mm to 320 x 460 mm)	8.26" x 8.26" to 14.56" x 25.59" (210 x 210 mm to 370 x 650 mm)	8.26" x 8.26" to 14.56" x 26.37" (210 x 210 mm to 370 x 670 mm)
PAPER WEIGHTS	110 – 350 gsm (80 lb. text – 130 lb. cover)	110 – 300 gsm (80 lb. text – 110 lb. cover)	110 – 350 gsm (80 lb. text – 130 lb. cover)	110 – 350 gsm (80 lb. text – 130 lb. cover)
PAPER TYPES	Uncoated, coated, laminated[1]			
SPEED	Up to 50 ppm (LTR SEF 1 crease)	Up to 11 ppm	Up to 26 ppm (LTR size 2 cuts, 1 crease)	Up to 50 ppm
SLIT/CUT/CREASE TOLERANCE	Crease only: ±0.3 mm	Slit/Cut/Crease: ±0.3 mm	Slit/Cut/Crease: ±0.2 mm (±0.2 mm for business cards)	Slit/Cut/Crease: ±0.2 mm (±0.2 mm for business cards)
CREASES	15	10	10	20
SLITTERS	N/A	6 slitters (2 margin, 4 center)		Up to 10 slitters (2 margin, 8 center)
POWER REQUIREMENTS	115V 60Hz 1.7A; 230V 50/60Hz 0.8A	120V 50/60Hz 1.5A	120V 50/60Hz 3.3A	120V 50/60Hz 5.5A
DIMENSIONS	50" x 25" x 23"	63" x 25" x 42"	30" x 90" x 45"	34" x 90" x 44"
WEIGHT	175 lbs.	291 lbs.	793 lbs.	992 lbs.
OPTIONS	Air Knife; Double-feed detection; Slitter/perforator tools; IFS Integrated Folding System	Double-feed detection; CCD/ BCR; long paper trays; PC with Job Creator software; IFS Integrated Folding System	Business card; Perforator; Score; Trading Card; IFS Integrated Folding System	Rotary tool; Strike perf; Cross perf; Slitter module; IFS Integrated Folding System

FOLDER SPECIFICATIONS WITH CONNECTING DEVICES

DC SERIES	DC-445 CREASER	DC-615 SLITTER/CUTTER/CREASER	DC-645 SLITTER/CUTTER/CREASER	DC-745 SLITTER/CUTTER/CREASER
FOLDER	DC-F1 FOLDER			DC-F2 FOLDER
FOLD TYPES	Single, letter, Z, gate, double parallel, none			
INPUT PAPER SIZE[2]				
NO FOLD	5.5" x 5.9" to 12.6" x 25.6" (140 x 150 mm to 320 x 650 mm)	1.89" x 3.35" to 14.57" x 25.6" (48 x 85 mm to 370 x 650 mm)		1.89" x 3.35" to 14.57" x 26.37" (48 x 85 mm to 370 x 670 mm)
FOLD	5.5" x 6.7" to 12.6" x 25.6" (140 x 170 mm to 320 x 650 mm)	1.89" x 6.69" to 14.57" x 25.6" (48 x 170 mm to 370 x 650 mm)		1.89" x 6.69" to 14.57" x 26.37" (48 x 170 mm to 370 x 670 mm)
FINISHED PAPER SIZE				
NO FOLD	5.5" x 5.9" to 12.6" x 25.6" (140 x 150 mm to 320 x 650 mm)	1.89" x 3.35" to 14.57" x 25.6" (48 x 85 mm to 370 x 650 mm)		1.89" x 3.35" to 14.57" x 26.37" (48 x 85 mm to 370 x 670 mm)
FOLD	5.5" x 3.35" to 12.6" x 25.6" (140 x 85 mm to 320 x 650 mm)			
1-FOLD		1.89" x 3.35" to 14.57" x (25.6"- 1.67") (48 x 85 mm to 370 x (650 - 42.5 mm))		1.89" x 3.35" to 14.57" x (25.6"-1.67") (48 x 85 mm to 370 x (650-42.5 mm))
2-FOLD		1.89" x 3.35" to 14.57" x (25.6"- 1.67" x 2) (48 x 85 mm to 370 x (650 - 42.5 mm x2))		1.89" x 3.35" to 14.57" x (22.83"-1.67" x 2) (48 x 85 mm to 370 x (580-42.5 mm x2))
PAPER WEIGHTS	110 – 350 gsm[3] (80 lb. text – 130 lb. cover) Maximum paper weight for double parallel fold is 230 gsm (80 lb. cover)			
PAPER TYPES	Text, coated, uncoated, laminated ~ paper + film must be within specifications listed above			
SPEED	50 ppm[4] (LTR + 1 center crease + 1 fold using knife 1)			
FOLD LENGTH	Minimum 3.34" (85 mm)	Minimum 3.35" (85 mm)		
DISTANCE BETWEEN FOLDS	Minimum 1.67" (42.5 mm)			
POWER REQUIREMENTS	100 - 240V AC + 6% - 10% 50/60 Hz 1.9 - 0.9A			
DIMENSIONS (WxDxH)	30.31" x 15.74" x 59" (770 x 400 x 1,500 mm)			
WEIGHT	210 lbs. (95 kg)			
OPTIONS	SC1 Straight Conveyor; ST1 Long Stacker; ST2 Short Stacker	SC1 Straight Conveyor; CC1 Cross Conveyor; ST1 Long Stacker; ST2 Short Stacker		STANDARD: SC2 Straight Conveyor; ST1 Long Stacker

[1] Varies upon paper weight, size, and laminated coating
[2] Varies upon connecting devices
[3] Varies upon upstream unit
[4] Varies upon upstream unit and configuration

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Duplo
from print to documents

IFS
Integrated Folding System
Incorporating an In-line Knife Folder with a DC-Series Finisher

- DC-745 Slitter/Cutter/Creaser
- DC-645 Slitter/Cutter/Creaser
- DC-615 Slitter/Cutter/Creaser
- DC-445 Creaser

IFS *Integrated*

Folding System

|DC-645 IFS|

The Integrated Folding System incorporates an in-line knife folder with a DC-series finishing device, folding applications in one pass using a single finishing system.

Adding to an already versatile line of digital print finishing solutions, Duplo's Integrated Folding System (IFS) achieves the next level in automation. Incorporating an in-line knife folder with a DC-series finishing unit, the IFS eliminates the need for a separate folding device and enables users to not only slit/cut/crease with the DC-745/645/615, or slit/perforate/crease with the DC-445, but also fold digitally printed applications in a single pass using one system. By performing the functions of multiple machines, the system removes the bottleneck of the finishing process that occurs when setting up jobs separately. With a speed of up to 50 sheets per minute, the IFS can carry on the automation and capabilities of the integrated DC-series unit.

EASY SETUP

The Integrated Folding System has been designed to be easily set up using a centrally located control panel. Regardless of how complex the job requirements may be, the operator is guided throughout the complete programming process making it easy for inexperienced operators to set up and run the system with confidence. The Job Creator software can also be used to program new jobs onto the DC-645/615 IFS. With the DC-745 IFS, jobs are only programmed via the PC Controller software.

MULTIPLE-UP PROCESSING

The DC-745/645/615 IFS has a unique capability that no other system has which is to slit, cut, crease, and fold multiple-up pieces simultaneously in one pass. This means that when pieces are laid out in rows (see Fig. X), the cutter, creaser, and folder can perform their functions on more than one piece at a time.

EFFICIENT FOLDING TECHNOLOGY

Using two knife blades, the IFS can perform the most common folds including single, letter, Z, gate, and double parallel along with an infinite number of custom folds. The combination of the knife folding mechanism and the spring-loaded folding rollers make it possible to fold a wider range of paper stocks with greater accuracy and no adjustments. Even when switching between paper thicknesses, the spring-loaded folding rollers will automatically adjust to compensate for the thickness.

POPULAR FOLD TYPES FOR IFS FOLDER

INCREASED STACKING CAPACITY

The DC-745 IFS can be configured with a long vertical stacker (15.75") where the finished pieces, both folded and unfolded, are collected. The DC-645/615/445 IFS have the option to be configured with either the long stacker or a shorter vertical stacker (8"). The vertical stacking method accommodates twice as many pieces than shingle conveyors, enabling more pieces to be stacked before filling the receiving tray and requiring unloading. In addition, this method provides the ability to stack in rows, keeping the finished pieces neatly stacked. The vertical stacker can be added to the DC unit independently without the folder.

CUSTOMIZABLE CONFIGURATIONS

The Integrated Folding System is made up of several modules and can be configured to meet individual needs. For example, if space is limited, a customer can choose to add a short vertical stacker which is half the size of the larger, high capacity stacker.

Users who already have a DC unit can upgrade by adding a configuration kit and updating their software.

IFS FEATURES

- *All-in-one slit/cut/crease/fold finishing solution*
- *Folds sheets up to 350 gsm (130 lb. cover)*
- *Completely automated set-up*
- *Unmanned operation*
- *Increased stacking capacity*

DC-745 IFS

The high production DC-745 IFS can slit/cut/crease and fold documents at faster speeds. And with the range of optional modules available for scoring and perforating, users have the ability to create a wider range of unique applications using a single system. The DC-745 IFS can only be configured with the DC-F2 Folder, DC-SC2 Straight Conveyor, and DC-ST1 Long Stacker.

DC-645/615 IFS

Ideal for medium to short-volume runs, the DC-645 IFS and DC-615 IFS enable users to slit, cut, crease, and fold applications in one pass. These models can be configured with a DC-ST1 Long Stacker or DC-ST2 Short Stacker and the DC-SC1 Straight Conveyor or DC-CC1 Cross Conveyor.

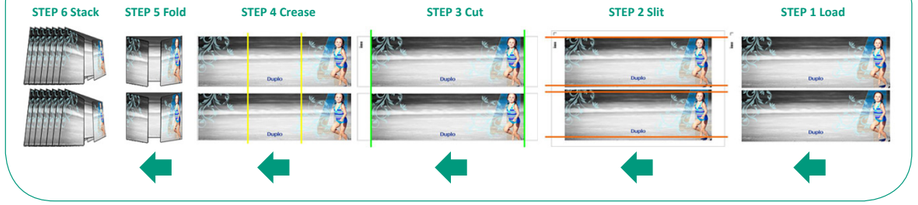
DC-445 IFS

The DC-445 IFS can slit, perforate, crease, and fold (slitting and perforating tools optional) applications in one pass with up to 15 creases and 3 perforations per sheet. The DC-445 IFS can be configured with either the DC-ST1 Long Stacker or DC-ST2 Short Stacker and the DC-SC1 Straight Conveyor.

|DC-615 IFS|

|DC-445 IFS|

DC-745/645/615 IFS WORKFLOW (Figure X)



DC-445 IFS WORKFLOW