IFS Integrated Folder System

SYSTEM CONFIGURATIONS

DC SERIES	DC-446CREASER	DC-646 SLITTER/CUTTER/CREASER	DC-746 SLITTER/CUTTER/CREASER
FEEDING CAPACITY	3.9" (100 mm)		5.9" (150 mm)
INPUT PAPER SIZE	5.5" x 5.9" to 13" x 26.4" (140 x 150 mm to 330.5 x 670 mm)	8.26" x 8.26" to 14.56" x 26.37" (210 x 210 mm to 370 x 670 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 – 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 60 ppm (LTR SEF 1 crease)	Up to 30 ppm	Up to 50 ppm
SLIT/CUT/CREASE TOLERANCE	Crease only: ±0.3 mm	Slit/Cut/Crease: ±0.2 mm (±0.2 mm for business cards)	
CREASES	20	20	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	115V 50/60Hz 5.5A	115V 60Hz 5.5A; 230V 50/60Hz 3.2A
DIMENSIONS	50" x 25" x 23"	34" x 90" x 44"	34" x 90" x 44"
WEIGHT	175 lbs.	760 lbs.	992 lbs.
OPTIONS	Air Knife; Double-feed detection; Slitter/ perforator tools; IFS Integrated Folding System	Rotary tool; Slitter module; Cross perf; IFS Integrated Folding System	Rotary tool; Cross perf; Slitter module; IFS Integrated Folding System

DC-F2 FOLDER SPECIFICATION WITH CONNECTING DEVICES

DC SERIES	DC-446 CREASER	DC-646 SLITTER/CUTTER/CREASER	DC-746 SLITTER/CUTTER/CREASER
FOLDER	DC-F2 FOLDER		
FOLD TYPES	Single, letter, Z, gate, double parallel, none		
INPUT PAPER SIZE[2] NO FOLD 1-FOLD 2-FOLD	Width: 1.89" x 14.57" (48 - 370 mm); Length: 3.35" x 26.37" (85 - 670 mm) Width: 1.89" x 14.57" (48 - 370 mm); Length: 6.69" x 26.37" (170 - 670 mm) Width: 1.89" x 14.57" (48 - 370 mm); Length: 10.03" x 26.37" (255 - 670 mm)		
OUTPUT PAPER SIZE NO FOLD 1-FOLD 2-FOLD	Width: 1.89" x 14.57" (48 - 370 mm); Length: 3.35" x 26.37" (85 - 670 mm) Width: 1.89" x 14.57" (48 - 370 mm); Length: 3.35" x 22.83" (85 - 580 mm) Width: 1.89" x 14.57" (48 - 370 mm); Length: 3.35" x 19.69" (85 - 500 mm)		
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)		
DISTANCE BETWEEN FOLDS	Minimum 1.67" (42.5 mm); Gatefold 3.35" (85 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)		
REQUIRED COMPONENTS	SC2 Straight Conveyor; ST1 Long Stacker or ST2 Short Stacker	SC2 Straight Conveyor; ST1 Long Stacker or 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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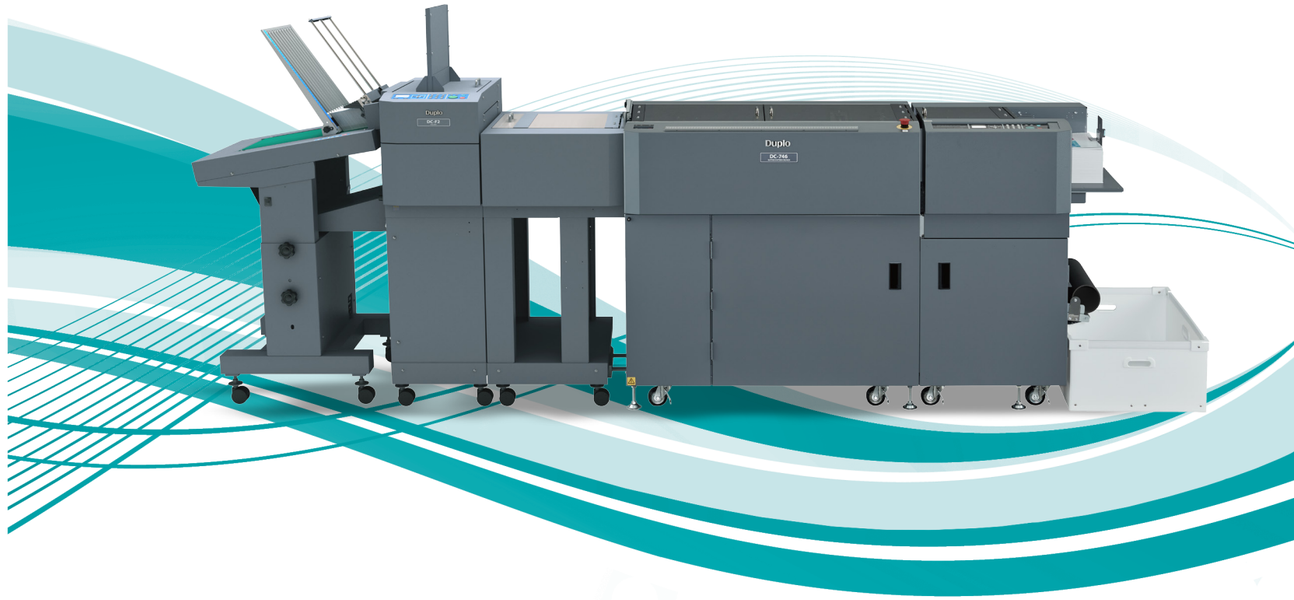
from print to documents

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

- DC-746 Slitter/Cutter/Creaser
- DC-646 Slitter/Cutter/Creaser
- DC-446 Creaser



IFS *Integrated*

Folding System

DC-746 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-746/646, or slit/perforate/crease with the DC-446, 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. With the DC-746 IFS and DC-646 IFS, jobs are programmed via the PC Controller software.

MULTIPLE-UP PROCESSING

The DC-746/646 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-746 IFS can be configured with a long vertical stacker (15.75") where the finished pieces, both folded and unfolded, are collected. The DC-646/446 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 with a DC-646/446 IFS 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-746 IFS

The high production DC-746 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-746 IFS can only be configured with DC-SC2 Straight Conveyor and DC-ST1 Long Stacker.

DC-646 IFS

The mid-range DC-646 IFS can slit/cut/crease and fold a variety of documents with increased versatility. By adding the optional rotary tool and cross perforating modules, users can also create a wider range of unique digital applications. The DC-646 IFS can only be configured with the DC-SC2 Straight Conveyor. The DC-ST1 Long Stacker or DC-ST2 Short Stacker can also be added.

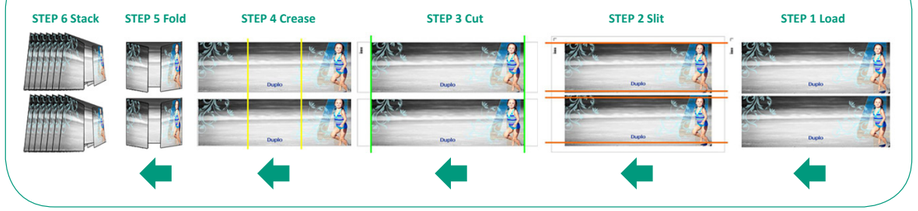
DC-446 IFS

The DC-446 IFS can slit, perforate, crease, and fold (slitting and perforating tools optional) applications in one pass with up to 20 creases and 3 perforations per sheet. The DC-446 IFS can be configured with either the DC-ST1 Long Stacker or DC-ST2 Short Stacker and the DC-SC2 Straight Conveyor.

DC-646 IFS

DC-446 IFS

DC-746/646 IFS WORKFLOW (Figure X)



DC-446 IFS WORKFLOW