Duplo®

from print to documents

600 PRO
DIGITAL BOOKLET SYSTEM

HIGH SPEED BOOKLETMAKING SOLUTION FOR HIGHLY CONFIDENTIAL AND PERSONALISED BOOKLETS

High paper capacity feeder
A4 Landscape Twin Feeder
Unique integrated buffer section for high speed feeding
Full set integrity check with barcode reading

Brochures · Manuals · Personalised Documents
Pension & Financial Investment Reports · Price lists · Leaflets

600 PRO Digital Booklet System DSF-6000
and DSF-Twin Feeder

Duplo's persistent pursuit of the ultimate feeding and bookletmaking technology is now revealed with the 600 PRO Digital system. Configurable with the DBM-600, the DSF-6000 Sheet Feeder offers the unparalleled solution for converting pre-collated digital or offset printed media into high quality booklets, enabling longer and faster print runs from the latest digital presses.

Advanced Sheet Feeding

Equipped with a technologically-advanced Air Management System, the DSF-6000 provides an unsurpassed level of high speed performance that ensures consistent feeding of a wide variety of paper types and weights, from 64 gsm to 300 gsm, at a speed of up to 600 sheets per minute. The main tray offers a loading capacity of 610mm, which minimizes reloading by supporting longer run times. Three-side air separation and integrated static eliminator effectively handle the common static challenges of digitally printed media. Also, should they occur, Optical and Ultrasonic sensors will accurately eliminate the risk of feed errors.

A4 Landscape Twin Feeder

The multi-function DSF-Twin Feeder can be used as a cover feeder to add a cover and/or an insert to the sets fed from the main tray. It is also able to handle a wide variety of paper types and weights and support paper sizes up to 610 mm long, enabling it to process high value A4 landscape booklet applications.Near-Line Finishing

Nearline Finishing

The DSF-6000 and DSF-Twin Feeder allows you to support the printed output of the top of the range most advanced digital and offset presses available today, even extra-long paper sizes, (the XL format). It will merge together digital and offset sheets, insert sheets, produce simple brochures or complex personalised documents - all without compromising print production and offering high speed reliable feeding for a wide variety of media.

PC Based Job Programming

Using Duplo's PC Controller software, the system can easily be managed and controlled by a single operator via a PC. This intuitive programming automatically calculates the stitch, fold, fore-edge and head and foot trim positions. User-friendly interface elements such as the drop down list, check boxes, buttons, and sliders make it extremely easy for an operator to select or change settings and to make fine adjustments if needed. The PC Controller can save an unlimited number of jobs that can be instantly recalled to change from one job to another within 60 seconds.

Wide visibility and open bookletmaking architecture

The DBM-600 stitcher folder and the DBM-600T offers printers a choice of finished applications: booklets, corner or side stitched documents, 2 or 4 heavy duty Hohner wire stitching heads, in both flat and loop stitch configurations. It is always precise, as the operator is able to permanently control and adjust the booklet production.Pallet-Style Paper Tray
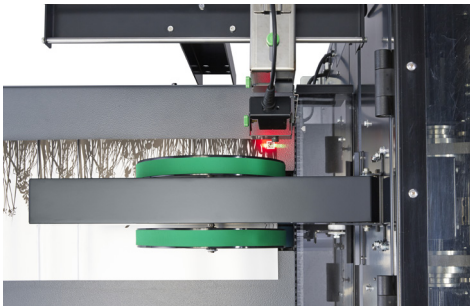
Pallet-Style Tray Paper

The standard rolling pallet supplied with the DSF-6000 allows advance loading outside the machine. The pallet loads onto a fork lift inside the feeder and an integral

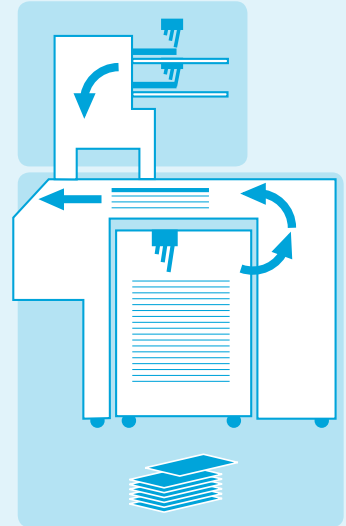600 PRO Digital Booklet System with DKT-200

Barcode reader processes personal and sensitive data with confidence

A barcode reader located at the exit verifies which booklets have or have not made it completely through the entire process

DSF-Twin Feeder
(covers and A4 landscape)

DSF-6000 with integrated buffer

air bed provides easy movement of the paper stack to the correct position. An adaptor enables the pallet tray to fit inside a digital press and be loaded automatically. Once full, it is rolled out into the DSF-6000 making the system an ideal solution for finishing production nearline to the press.
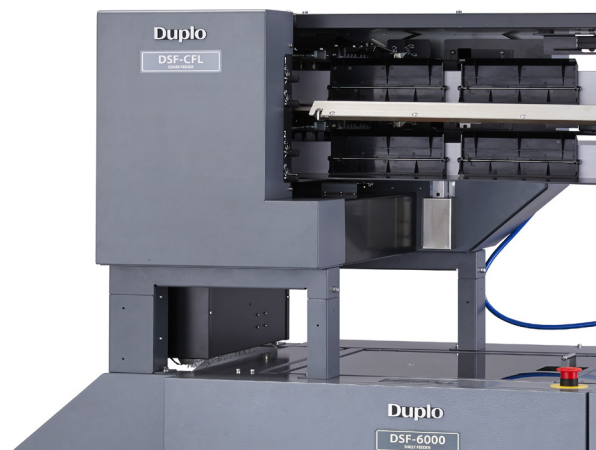
SCC Module
An optional SCC (Slit/Cut/Crease module) is available as a unique product designed to (1) trim at the head and foot for a full bleed finish, (2) crease covers to prevent cracking and (3) cut with a cross knife to remove transverse borders. The SCC simplifys and enhances productivity by enabling the system to accept sheets directly from a press and output a complete finished booklet. Additionally, the CCD scanner can correct the sheet-by-sheet image shift to ensure accuracy.
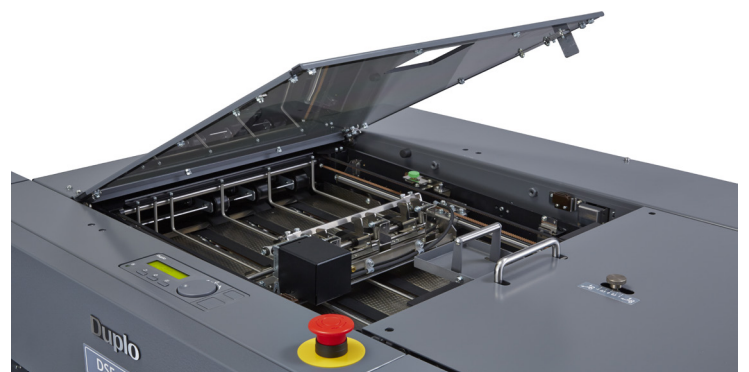
Permanent integrity and security
For complete confidence that the system will recognise sheets that are missing, duplicate, turned, or out of sequence, the DSF-6000 and DSF-Twin Feeder provides the answer through use of integrated cameras such as OMR (Optical Mark Readers) as standard. Additionally, optional barcode reader kits can be added to ensure the integrity of each booklet. It can also process documents with variable, personal and sensitive information with confidence by utilising common 1D or 2D barcodes. The barcode reader can identify each set and verify that each sheet in the set is fed in the correct sequence. A barcode kit is also situated at the exit of the trimmer to monitor and verify that each booklet has been successfully processed. Production is managed, merged and checked with all data recorded in the PC controller, creating a historical audit trail and allowing customer analysis to determine any reporting or reprinting needs.

A4 Landscape and 356x610mm Photo album formats

Integrated buffer section

Specifications

600 PRO Digital Booklet System

System Configuration	DSF-6000 Sheet Feeder DSF-Twin Feeder (Option) DBM-600 Stitcher/Folder & DBM-600T Fore Edge Trimmer DKT-200 2 Knives Head & Foot Trimmer LSW Long Conveyor	**Power Supply**	220 - 240V 50/60Hz, 8 A, 2145 W
		Configuration Dimensions -Net Weights including DKT-200	5600 mm (W) x 823 mm (D) x 1776 mm (H) - 1,032 kg 6547 mm (W) x 848 mm (D) x 1776 mm (H) - 1,504 kg Minimum access at rear: 600 mm

DBM-600 (Stitching, Folding), DBM-600T (Fore-Edge Trimming), DKT-200 (Head & Foot Trimming)

Max Booklet Thickness	6 mm (30 sheets of 80 gsm, 120 pages book)	**Fine Adjustment**	From 0.1 mm
Flat Sheet Size	Max 364(*) mm (W) x 525 mm (L)	**Max Stitching Capacity**	3 mm (30 Sheets of 80 gsm)
DSF-6000 only	Max 356 mm (W) x 525 mm (L)	**Min/Max Stitching Head Distance (1-up)**	58.5 - 328 mm
DSF-6000 and DSF-Twin feeder	Max 356 mm (W) x 610 mm (L)	**Stitching Head Distance (2-up)**	60 mm (55 mm in fine adjustment mode)
DSF-Twin Feeder only	Min 120 mm (W) x 210 mm (L)	**Stitching Heads**	Standard Fitting: 2x Hohner 43/6S, wire size #25 to #27 Optional: 3 to 4 Heads (flat & loop)
Finished Untrimmed Booklet size	Max 364(*) mm (W) x 262.5 mm (L)		
DSF-6000 only	Max 356 mm (W) x 262.5 mm (L)		
DSF-6000 and DSF-Twin feeder	Max 354 mm (W) x 305 mm (L)	**Control Panel**	PC Controller & indivual screens for fine adjustment
DSF-Twin Feeder only	Min 120 mm (W) x 105 mm (L)		
Finished Booklet size 1-up Production	Max 364(*) mm (W) x 261.5 mm (L)	**Folding Rollers**	Automatic Mechanism
DSF-6000 only	Max 354 mm (W) x 261.5 mm (L)	**Error Detect Sensors**	Stitching Wire (on the Saddle); Paper Feed; Paper Jam, Safety Guards
DSF-6000 and DSF-Twin feeder	Max 354 mm (W) x 305 mm (L)		
DSF-Twin Feeder only	Min 120 mm (W) x 75 mm (L)		
Finished Booklet Size 2-up production	Max 172 mm (W) x 256 mm (L)	**Dimensions - Net Weights** DBM-600 Stitcher/ Folder	1,848 mm (W) x 928.5 mm (D) x 1,227 mm (H) - 377 kg, 2.5 A
1 stitch in each booklet	Min 90 mm (W) x 75 mm (L)	DBM-600T	716 mm (W) x 717 mm (D) x 1124 mm (H) - 233 kg, 3.4 A
DBM-600T Trimmer Front Knives	Min/Max Trim 2-25 mm	DKT-200 & DKT-LSW	2302 mm (W) x 700 mm (D) x 1169 mm (H) - 472 kg, 4.4 A
Max Trimming Thickness	Trim up to 75 mm with 12 pages or less 6 mm		
DKT-200 Head and Foot Knives	Min/Max trim 2-60 mm 30 mm Max trim for each knife		
DKT-200 Options	6 mm Gutter Cut knives (4-8 mm on special request) Offset Trim with manual control (from 1-21mm) 6.4 mm Diameter 2 Hole Punch Kicker/Batching Unit	(*) 364 mm Width is possible when the DKT200 is not used.	

DSF-6000 Feeder (Deep-pile stack)

AMS+ Feeding System	8 belt suction, top feed from pallet on elevator. Air separation from turbines and pump on 3 sides. Ability to increase the flow and strength of air and vacuum Side air, trail edge air and front air adjustment	**Features**	PC Controller, Windows based Graphical User Interface: job programming, save and recall, automated set-up. Job audit logging when used with barcode control. Infinite job memories from PC Controller OMR (Optical Mark Reader) end-of-set mark reader Optical & Ultrasonic double sheet detection Hand feeding (max 30 sheets or 3 mm) Built-in active anti-static bar Air-bed rolling pallet paper tray (pump inluded)
Paper Capacity	610 mm media stack height		
Paper Sizes	Max 364(*) mm (W) x 525 mm (L) Min 120 mm (W) x 210 mm (L)		
Paper Weight	From 64 to 300 gsm	**Options** Printers Supported	Extra paper adaptor tray to suit different digital printing presses Xerox IGEN3/4
Buffer Capacity	Integrated buffer section with adjustable air separation 10 sheets or less (1.5mm thickness or less)	**Power Supply**	220 - 240V 50/60Hz, 2.7 A, 250W - I/F box 1.9 A, 180W
Sheet Feed Speed	up to 600 sheets per minute (A4 SEF)	**Dimensions - Net Weights**	1519 mm (W) x 797 mm (D) x 1148 mm (H) - 302 kg, 0.8 A

DSF-TWIN Feeder (Covers, inserts, A4-Landscape format)

AMS+ Feeding System	8 belt suction, top feeding. Air separation from turbines and pump on 3 sides Ability to increase the flow and strength of air and vacuum on each bin Side air, trail edge air and front air adjustment	**Paper Weight**	From 64 to 300 gsm
		Sheet Feed Speed	109 A4 Landscape per minute in sheet feed mode
		Features	Ultrasonic double sheet detection
Paper Capacity	2 x 60 mm media stack height, top and bottom trays	**Optional Anti-Static Bar**	Anti-static bar kit for sheet by sheet mode
		Power Supply	Supply from DSF-6000
Paper Sizes	Max 356 mm (W) x 610 mm (L) Min 120 mm (W) x 210 mm (L)	**Dimensions - Net Weights** (Stand Alone) DSF-6000 and Twin feeder together	867 mm (W) x 743 mm (D) x 662 mm (H) - 75 kg 1519 mm (W) x 797 mm (D) x 1776 mm (H) - 377 kg

Optional Barcode Readers

Bacode Types	1D & 2D Barcode recognition, 1D codes supported: Code 39, 93, 128 (incl. EAN28), Codabar (NW-7), Interleaved 2 of 5, 2D codes supported: QR-Code, Datamatrix, PDF417, MicoPDF417
DSF-6000 Sheet Feeder	1x barcode scanner for deep pile tray
DSF-Twin Feeder	2x barcode scanners for tray A & B, alternate mode
DBM-LSW Long Stacker Wide	1x barcode scanner (exit of trimmer), read above and below

Optional SCC Module

Processing Modes	**Slitting head & foot**: cover only or all sheets, **Creasing:** cover only or all sheets, **Cutting:** lead & tail, cover only, By-pass all sheets
Papper Grammage	Upper unit (By-pass) up to 157 gsm Lower unit (Slit/Cut/Crease) up to 300 gsm
Flat Sheet Sizes	Max 356mm (W) x 500mm (L) Min 120mm (W) x 200mm (L)
Slitting (Head & Foot)	**Head edge**: 4 to 25mm, **Foot edge:** 4 to 25mm
Cutting (Lead & Tail)	**Lead edge**: 4 to 25mm, **Tail edge:** 5 to 25mm
Crease Positions	Greater than 80mm from lead or trail edge 1 crease per sheet

CE

Ref: iSADDLEPRODIGISYS/01/17