

iSADDLE 2 PRO RANGE SADDLE STITCHER

HIGH SPEED SADDLE STITCHER FOR
PERSONALISED BOOKLETS FROM DIGITAL PRINT

High production collating and high capacity sheet feeding
A4 landscape (Suction collator and 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*



Duplo has once again succeeded in moving traditional saddle stitching technology into the highly challenging personalised digital printing environment.

The iSaddle 2 PRO Digital System offers enhanced features and greater productivity for professional finishing. By combining the iSaddle with the DSF-6000 Sheet Feeder, this easy-to-use system offers the ultimate solution for converting pre-collated digital or offset printed media into high quality booklets.

AMS
air management
system

Superior Sheet Feeding

Equipped with a technologically advanced Air Management System, the DSF-6000 provides an unsurpassed level of high speed performance. This consistently feeds a wide variety of digital or offset paper types and weights, at a speed of up to 600 sheets per minute.

Three-side air separation and the integrated static eliminator effectively handles the common feeding challenges associated with digitally printed media. The additional Ultrasonic sensors eliminate the risk of double feeds and ensure every book is sellable.



A4 Landscape Twin Feeder

The flexibility of the DSF-6000 can be further enhanced by adding the multifunction DSF-Twin Feeder. Used as a cover feeder, to insert pages into the sets, the Twin Feeder can work with the main feeding tray or completely independently.



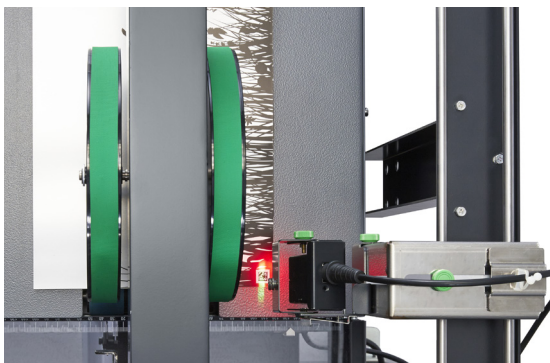
Saddle Stitching

The iSaddle 2 offers the printer a choice of 2, 3 or 4 heavy duty Hohner wire stitching heads, in both flat and loop stitch configurations. Precise control of the book is maintained along the spine using motor driven stops and twin drive belts.



Automated Precision

Duplo's PC Controller software, allows a single operator to easily manage and control the entire system. The iSaddle 2 PRO Digital System is equipped with the latest technology in saddle stitching. The PC Controller automatically sets up all book parameters accurately and precisely, in approximately 60 seconds and enables the operator to make fine adjustments, if needed. The job changeover between an unlimited number of jobs can be done without the use of any tools, any extra parts and without the operator's intervention.



Barcode reader for personal & sensitive data



A Barcode reader located at the exit



Near-Line Finishing

Merge together digital and offset sheets from any press, insert sheets, produce simple brochures and complex personalised documents - all without compromising print production and benefitting from high speed, reliable feeding.

Pallet-Style Paper Tray

The DSF-6000 standard rolling pallet has a loading capacity of 610mm and allows pre-loading outside the machine. An adaptor enables the pallet tray to fit inside a digital press, making the system an ideal solution for finishing production, in the same area as the presses are located.



Scoring & Folding Unit

The scoring wheels on the iSaddle are automatically positioned to create the correct height according to the number of pages programmed in a set. Then the set is transferred to the plough fold unit. The folding wheels are automatically positioned to provide flatter books from 2-120 pages. Additionally, the booklet squareness and skewing can be easily and rapidly adjusted to ensure accuracy.



Document Verification

The iSaddle 2 PRO Digital System has integrated OMR (Optical Mark Readers) as standard, allowing the machine to manage separate documents.

In addition, optional barcode reader kits can ensure the integrity of each booklet with variable, personal and sensitive information by verifying that each sheet is fed in the correct sequence. An additional barcode kit can be installed at the exit of the trimmer, to verify that each booklet has been successfully processed.

All data is recorded in the PC controller, creating a historical audit trail, allowing reporting and analysis to determine if any reprints are required.

Modular and expandable system

The iSaddle 2 PRO Duetto Booklet System consists of the best of both world: it consists of the DSC-10/60i suction collating towers for offset and multi-bin feeding applications combined with the DSF-6000 for high value personalised booklets from digital print.



iSaddle 2 Pro Digital Booklet System



iSaddle 2 Pro Duetto Booklet System



iSaddle 2 Pro Digital Booklet System Dimensions



Applications

Specifications

iSaddle 2 (Scoring, Plough-Folding, Stitching, Trimming)

Max Booklet Thickness Flat Sheet Size	6mm (30 sheets of 80gsm, 120 page book)
DSF-6000 and DSF-Twin Feeder DSF Twin Feeder Only	Max 356mm (W) x 525mm (L) Max 356mm (W) x 610mm (L) Min 120mm (W) x 210mm (L)
Finished Untrimmed Booklet Size DSF-6000 and DSF-Twin Feeder	Max 356mm (W) x 262.5mm (L) Min 120mm (W) x 105mm (L)
Finished Booklet Size 1-up Production DSF-6000 and DSF-Twin Feeder DSF-Twin Feeder Only	Max 354mm (W) x 261.5mm (L) Min 120mm (W) 75mm (L) Max 354mm (W) x 305mm (L)
Finished Booklet Size 2-up Production 1 stitch in each booklet	Max 174mm (W) x 254mm (L) Min 90mm (W) x 75mm (L)
DBMS-T Trimmer Front Knives Max trimming thickness	Min/ Max Trim 2-25mm Trim up to 75mm with 12 pages or less 6mm
DKT-200 Head and Foot Knives DKT-200 Options	Min/ Max trim 2-60mm 30mm Max Trim for each knife 6mm Gutter Cut Knives (4mm - 8mm on special request) Offset Trim with manual control (From 1 to 21mm) 6.4mm Diameter 2 Hole Punch Kicker/ Batching Unit
Max Thickness of 1 Sub-Set	Up to 1.0mm x 80 gsm

DSC-10/60i Suction Tower Collator

Configurations	iSaddle and iSaddle Duetto
Bin Capacity	65 mm
Paper Size	Max 356 mm (W) x 508 mm (L) Min 105 mm (W) x 148 mm (L)
Paper Size Over 508 mm in Length	Max 230 mm (W) x 610 mm (L)
Paper Weight	Min 52 gsm to Max 300 gsm
Max Booklet Processing Speed	5,000 A5 Booklets into iSaddle System Up to 10,000 A5 sets/hr into Jogger or Stacker
Detection	Miss, Double, Paper Jam and Empty Bin Sensors
Counters	Total, Batch, Set Reject
Controls	PC Controlled Job programming, save and recall, automated set-up Microsoft Windows-based GUI (Graphical User Interface)
Features	Block Mode Programmable Intelligent Bin Feeding A4 landscape Hand Marry Mode Hand Feeding Mode

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
Paper Capacity	610mm media stack height
Paper Sizes	Max 364 mm (W) x 525 mm (L) Min 120 mm (W) x 210mm (L)
Paper Weight	from 64 gsm to 300 gsm
Buffer Capacity	Integrated buffer section with adjustable air separation, huaranteeing full speed production 10 sheets or less (1.5mm thickness or less)
Sheet Feed Speed	Up to 600 sheets per minute (A4 SEF)

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 Capacity	2 x 60 mm media stack height, top and bottom trays
Paper Sizes	Max 356 mm (W) x 610 mm (L) Min 120 mm (W) x 210mm (L)
Paper Weight	from 64 gsm to 300 gsm

Optional Barcode Readers

Barcode 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, MicroPDF417
DSF-6000 Sheet Feeder	1x barcode scanner for deep pile tray

Plough Folding Capacity	2-10 Sheets
Max Scoring Thickness	1.0 mm
Fine Adjustment	Front 0.1 mm
Max Stitching Capacity	3 mm (30 Sheets of 80 gsm)
Min/Max Stitching Head Distance (1-up)	60 - 306 mm
Stitching Head Distance (2-up)	60 mm (55 mm in fine adjustment mode)
Stitching Heads	Standard Fitting: 2x Hohner 43/6S, wire size #25 to #27 Optional: 3 to 4 Heads (flat & loop)
Control Panel	PC Control & individual screens for fine adjustments
Folding Rollers	Automatic Mechanism
Scoring Wheels (Double)	Springloaded with Manual Height Adjustment
Error Detect Sensors	Stitching Wire (on the Saddle); Paper Feed; Paper Jam, Safety Guards
Power Supply	200 - 240V 50/60Hz 950 W
Dimensions - Net weights:	DBMS-F Folder 1411mm (W) x 920mm (D) x 898mm(H) - 343kg, 0.8 A DBMS-S Stitcher 1845mm (W) x 935mm (D) x 1162mm(H) - 427kg, 2.8 A DBMS-T Trimmer 718mm (W) x 700mm (D) x 1187mm(H) - 275kg, 2.4 A DKT-200 & DKT-LSW 2302mm (W) x 700mm (D) x 1169mm(H) - 472kg, 4.4 A

AMS+ Feeding System <i>Total Feed Control on Each Bin</i>	Ability to increase the flow of air and vacuum on each bin Ability to increase the Strength of air and vacuum on each bin Ability to adjust the feed timing Twin belt drive on conveyor Ability to adjust the sheet overlap Automatic ejection of faulty sets Stand-by or waiting mode
Power Supply	220 - 240V 50/60Hz 5.3A 980W
Net Weight	303.5 Kg
Dimensions	855 mm (D) x 830 mm (W) x 1972 mm (H)
Connecting devices	iSaddle (up to 4x DSC10/60i Towers) DBM-500 & DBM-350 DSF-2200 Sheet Feeder (also in Duetto configuration) DCR-ST Stacker (Criss Cross) 400STR Stacker (Straight & Offset Stacking)
Options	Ultrasonic Double Sheet Detection Barcode Reader Kit (not available at launch) Bi-directional Feeding

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 3mm) Built-in active anti-static bar Air-bed rolling pallet paper tray (pump included)
Options Printers Supported	Extra paper adaptor tray to suit different digital printing presses HP Indigo 5XXX/ 7XXX, Xerox IGEN3/ 4
Power supply	220 - 240V 50/60Hz, 2.7 A, 250W - I/F box 1.9 A, 180W
Dimensions - Net Weights	1519 mm (W) x 797 mm (D) x 1148 mm (H) 302 Kg

Sheet Feed Speed	90 - 145 sheet sper minute depending on paper size; in sheet feed mode
Features	Ultrasonic double sheet detection
Optional Anti-static Bar	Anti-static bar kit for sheet by sheet mode
Power supply	Supply from DSF-6000
Dimensions - Net Weights	Stand Alone 867 mm (W) x 743 mm (D) x 662 mm (H) - 75kg DSF-6000 and Twin Feeder together 1519 mm (W) x 797 mm (D) x 1776 mm (H) - 377kg

DSF-Twin Feeder	2x barcode scanners for tray A & B, alternate mode
DBM-LSW Long Stacker Wide	1x barcode scanner (exit of trimmer), read aboce and below