

ISADDLE 5.0

FEATURES

With the ongoing trend towards shorter runs with faster delivery times, there's never been a greater need to invest in solutions that deliver high-quality results and adapt to different formats and requirements. Evolved from Duplo's flagship iSaddle system, the iSaddle 5.0 does just that, ultimately allowing the user to produce a wide range of profitable applications, differentiating themselves from the competition.

- Complete automation and intuitive programming make it possible for a single operator to perform change-over in minimal time
- In addition to simple booklets, the iSaddle 5.0 can handle covers with pockets and flaps, as well as produce stepped format pages made from up to six different-sized sheets within the booklet.
- Production is constantly recorded, allowing users to collect the data and analyse for improving products, services, and operational performance.

SPECIFICATIONS	
Max Booklet 1-up Production Speed	5050 A5-booklets/hr (1 subset) up to 10 sheets Booklet production can vary depending upon the number of pages and subsets
Max Booklet 2-up Production Speed	Up to 10100 booklets/hr (A6 @ 2-up)
Max Booklet Thickness	6mm (30 sheets of 80gsm, 120 page booklet)
Flat Sheet Size	Max: W 356mm x L 610mm *1 Min: W 120mm x L 210mm
Finished Trimmed Booklet Size 1-up Production	Max: W 354mm x L 304mm *2 Min: W 120mm x L 75mm
Finished Booklet Size 2-up Production	Max: W 174mm x L 254mm Min: W 90mm x L 75mm (with 6mm gutter)
1 Stitch in Smallest Booklet	Min: W 89mm x L 75mm (with 8mm gutter)
Paper Weight <i>Fine Quality Paper</i>	64gsm to 157gsm when L < 508mm 81gsm to 157gsm when L > 508mm Cover 300gsm
<i>Art/ Coated Paper</i>	85gsm to 157gsm when L < 508mm 105gsm to 157gsm when L > 508mm Cover 300gsm
DBMS-T5 Trimmer Front Knives	Fore edge trim 1mm to 25mm Max: 75mm with 12 pages or less Max thickness: 6mm (120 page booklet of 80gsm)
DKTS-200 Head and Foot Knives	Trim 1mm to 30mm each side 6mm Gutter Cut Max thickness: 2.4mm 8mm Gutter Cut Max thickness: 4mm
DKTS-200 Options	Kicker/Batching Unit Compressed Air supply required

Folding Capacity	2 to 10 sheets
Max Scoring Thickness	1mm
Stitching Capacity	3mm (30 Sheets of 80gsm)
Stitching Head Distance (1-up)	55mm to 196mm
Stitching Heads	Standard Fitting: 2x Hohner 43/6S Optional: Up to 4 Heads
Control Panel	PC Control
Job Memories	Infinite from PC Controller
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	220V - 240V 50/60Hz With 2 x DSC-10/60i = 3270W
Dimensions	With 2 x DSC-10/60i = D 4250mm x W 3340mm x H 1970 mm
Net Weight	Approx 2430kg + options
Connecting Devices	Up to 6 x DSC-10/60i Collating Towers DCR-ST Stacker (Criss Cross) DBM-400STR Stacker (Straight & Offset Stacking)
Options	3 or 4 Hohner Flat/Loop heads 6 Page Cover Insert Kit Sheet by Sheet Air Kit Network connection for production data

*1 Some media may be limited to W 356mm x L 508mm or W 230mm x L 610mm

*2 Some media may be limited to W 356mm x L 254mm or W 230mm x L 305mm

CONFIGURATION TABLE

	SHEET FEEDERS		COLLATOR TOWERS	SADDLE STITCHER		TRIMMER UNITS	STACKER	
	DSF-2200	DSF-6000	DSC-10/60i Collator	DBMS-F5 Folding Unit	DBMS-S5 Stitcher	DBMS-T5 Trimmer	DKTS-200	DBM Long Stacker Wide
iSaddle 5.0 Booklet System			Y	Y	Y	Y	Option	Y
iSaddle 5.0 Digital Booklet System	Y			Y	Y	Y	Option	Y
iSaddle 5.0 PRO Digital Booklet System		Y		Y	Y	Y	Option	Y
iSaddle 5.0 Duetto Booklet System	Y		Y	Y	Y	Y	Option	Y
iSaddle 5.0 PRO Duetto Booklet System		Y	Y	Y	Y	Y	Option	Y



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DSF-2200 SHEET FEEDER

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iSaddle 5.0 Saddle Stitcher combined with the DSF-2200 Sheet Feeder is the ideal saddle stitching solution for digitally printed sheets. The system is configured to meet the ever-changing demands of today's digital printer and is designed to take printed output from multiple sources.

- Equipped with the Duplo AMS+ (Air Management System Plus) consisting of an 8 belt feeding mechanism which enables the feed head to make contact with a large area of the sheet.
- Both bins come with three separate high-power fans, one to provide suction for feeding, another to provide front air to separate the lead edge of the sheets and a final one to provide side air to separate the sides of the sheets allowing air to flow through the entire length of the sheet for optimal paper separation.
- The operator can easily manage and control the amount of suction, air and separation to accommodate difficult stocks.
- Both bins can be used to feed the cover, contents or sets with self-covers and can feed a variety of paper types and weights up to 300gsm.

SPECIFICATIONS	
Paper Capacity	Main feed tray: 200mm media stack height Auxiliary feed tray: 65mm media stack height
Paper Size	Max W 356mm x L 508mm Max W 230mm x L 610mm Min W 105mm x L 200mm
Paper Weight	From 60gsm to 300gsm
Features	OMR (Optical Mark Reader) end-of-set mark reader, Ultrasonic double sheet detection, Hand feeding, Active anti-static bar & Trail edge air kit (extra air for long sheet sizes up to 610mm in length)

AMS+ Feeding System	Ability to increase the flow of air and vacuum on each bin Ability to adjust the feed timing
Optional Barcode Reader Kit	Fits two trays 1D & 2D Barcode recognition Codes supported: Code 39, 93, 128, 2 of 5, Datamatrix
Options	Pre-loading tray kit (Pre-loading stack of sheets on trolley)
Power Supply	220V - 240V 50Hz/60Hz 1.1A 260W
Dimensions	D 750mm x W 920mm x H 843.5mm
Net Weight	115kg

DSF-6000 SHEET FEEDER

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Duplo's persistent pursuit of the ultimate digital feeding and saddle stitching technology culminates in the iSaddle 5.0 Pro Digital Booklet System. The DSF-6000 Sheet Feeder offers an 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.

- Three-sided air separation and integrated static eliminator effectively handle the common static challenges of digitally printed media.
- 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.
- 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 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 near-line to the press.

SPECIFICATIONS	
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 W 364mm x L 525mm Min W 120mm x L 210mm
Paper Weight	From 64gsm to 300gsm
Buffer Capacity	Integrated buffer section with adjustable air separation. 10 sheets or less (1.5mm thickness or less)
Sheet Feed Speed	Up to 600 sheets per minute (A4 SEF)

Features	PC Controller, Windows based Graphical User Interface, job programminf, save and recall, automated set-up. Job audit logging when used with barcode control. Infinte 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	Extra paper adaptor tray to suit different digital printing presses Printers Supported:
Power Supply	220V - 240V 50Hz/60Hz 2.7A 250W - I/F box 1.9A 180W
Dimensions	D 797mm x W 1519mm x H 1148mm
Net Weights	302kg 0.8A

DSF-TWIN FEEDER

SPECIFICATIONS	
AMS+ Feeding System	8 belt suction, top feeding. Air seperation 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 60mm media stack height, top and bottom trays
Paper Sizes	Max W 356mm x L 610mm Min W 120mm x L 210mm
Paper Weight	From 64gsm to 300gsm
Sheet Feed Speed	109 A4 Landscape per minute in sheet feed mode

DSC-10/60i SUCTION TOWER COLLATOR

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The high-speed intelligent DSC-10/60i Suction Collator Towers and the easy-to-use iSaddle 5.0 Saddle Stitcher provide the operator with the ability to finish booklets of all sizes including A4 landscape.

- Each 10-bin tower comes with AMS+ (Air Management System Plus) as standard.
- Controlled from the PC Controller and the towers, AMS+ manages the high-power fans to create airflow and vacuum independently for each bin, enabling reliable feeding regardless of paper weight or size.
- The DSC-10/60i includes IMBF (Intelligent Multi Bin Feeding) allowing the operator to select each bin individually and feed more than one sheet from one bin.
- Each bin is independent and can be optimised to feed single or multiple sheets, a huge benefit for variable data publications.
- Additional Collating Towers, Straight, Offset or Criss Cross Stacking and Jogging devices can be added at any time.

SPECIFICATIONS	
Bin Capacity	65mm
Paper Size	Max: W 356mm x L 508mm Min: W 105mm x L 148mm Max: W 230mm x L 610mm (max paper size over 508mm in length)
Paper Weight	50gsm - 300gsm from each bin
Max Booklet Processing Speed	Up to 10,000 A5 sets/hr into Jogger or Stacker
Max No of Connectable Towers in Duetto Configuration	Up to 6 x DSC-10/60i Collating Towers
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 (1/2, 1/4, 1/3), Programmable Intelligent Multiple Bin Feeding, Possibility to increase bin feeding capacity to 130mm, 195mm or more, Non-stop production, A4 Landscape, Hand Marry Mode & Hand Feeding Mode
AMS+ Feeding System	Ability to increase the flow 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	220V - 240V 50Hz/60Hz 5.3A 980W
Dimensions	D 756mm x W 830mm x H 1972mm
Net Weight	297kg
Options	Ultrasonic Double Sheet Detection

DKTS-200

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The DKTS-200 is a two-knife trimmer that removes the head and foot of the booklet, working together with a single knife trimmer as part of the DBM-600 Booklet Maker or iSaddle Saddle Stitcher. With optional 6mm and 8mm gutter cutters, five knives enable two-up production of small format booklets, increasing the range of sizes that are possible while also doubling the production speed.

- Servo motors are used throughout for precise movement of the book, ensuring careful handling and minimised risk of scratching sensitive print.
- High-pressure air clears away waste and trim into chutes that lead to a waste bin or optional conveyor.
- The need to lift the heavy gutter cutter unit out of the top of the machine is avoided by incorporating a convenient access door, where the operator needs to simply slide out the assembly.

SPECIFICATIONS	
Minimum Booklet	W 105mm x L 75mm
Maximum Booklet	W 350mm x L 305 mm
Trimming Width	1mm to 30 mm
Processing Speeds	A5 finish 5,050 sets/hr A4 finish 4,000 sets/hr A4 short side finish 3,900 sets/hr A6 finish 4,500 sets/hr
Power Supply	220V - 240V 50Hz/60Hz 3A 383W
Dimensions	D 1367mm x W 2384mm x H 1617mm

Net Weight	598kg
Options	DBM-LSW2/ Belt Stacker DKT-K Kicker for DKTS-200/ Kicker (Minimum booklet: W 120mm x L 120 mm Maximum booklet: W 350mm x L 250 mm) DKT-G Gutter Cutter 6mm for DKTS-200/ Gutter Cutter DKT-G Gutter Cutter 8mm for DKTS-200/ Gutter Cutter