

Specifications

iSaddle

Max Booklet 1-up Production Speed	4,500 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 9,000 booklets/hr (when connected with DKT-200 Trimmer)
Max Booklet Thickness	6 mm (30 sheets of 80 gsm, 120 pages booklet)
Flat Sheet Size <i>Max Flat Sheet Size over 500 mm in length</i>	Max 356 mm (W) x 508 mm (L) Max 210 mm (W) x 610 mm (L) Min 120 mm (W) x 210 mm (L)
Finished Untrimmed Booklet size	Max 356 mm (W) x 254 mm (L) Min 120 mm (W) x 105 mm (L)
Finished Booklet Size 1-up Production <i>Max Booklet size over 500 mm in length</i>	Max 350 mm (W) x 250 mm (L) Min 120 mm (W) x 75 mm (L) Max 210 mm (W) x 305 mm (L)
Finished Booklet Size 2-up Production <i>1 stitch in each booklet</i>	Max 174 mm (W) x 254 mm (L) Min 90 mm (W) x 75 mm (L)
Paper Weight Fine quality paper <i>Cover:</i> Art/Coated paper: <i>Cover:</i>	from 64 gsm to 157 gsm from 64 gsm to 300 gsm from 84.9 gsm to 157 gsm from 84.9 gsm to 300 gsm
DBMS-T Trimmer Front Knives <i>Max Trimming Thickness</i>	Max/Min Trim 2-25 mm Up to 75 mm with 12 pages or less 6 mm
DKT-200 Head and Foot Knives <i>DKT-200 Options</i>	Max/Min trim 2-60 mm 30 mm Max trim for each knife 6 mm Gutter Cut knives Offset Trim with manual control (from 1 to 21 mm) 6.4 mm Diameter 2 Hole Punch Kicker/Batching Unit
Max Thickness of 1 sub-set	Up to 1.0 mm x 80 gsm
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	60 mm (55 mm in fine adjustment mode)
Stitching Heads	Standard Fitting: 2x Hohner 43/65 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	200 - 240V 50/60Hz 950 W
Dimensions - Net weights:	<i>DBMS-F Folder</i> 1411mm(W) x 920mm(D) x 898mm(H) - 343kg <i>DBMS-S Stitcher</i> 1845mm(W) x 935mm(D) x 1162mm(H) - 427kg <i>DBMS-T Trimmer</i> 718mm(W) x 700mm(D) x 1187mm(H) - 275kg <i>DKT-200 &amp; DKT-LS</i> 2302mm(W) x 700mm(D) x 1169mm(H) - 472kg
Connecting Devices	up to 4 DSC-10/60i Collating Towers DSF-2200 Sheet Feeder DKT-200 Head and Foot Trimmer DCR-ST Stacker (Criss Cross) 400STR Stacker (Straight & Offset Stacking)
Options	3 or 4 Hohner Flat/Loop heads 6 Page Cover Insert Kit (for DSC10/60i only) Sheet by Sheet Air Kit

Duplo®

from print to documents

iSADDLE FAMILY  
SADDLE STITCHER

PRECISE INTELLIGENCE

PC Controller  
A4 Landscape booklets  
Fully automatic setup

Brochures, Catalogues, Car/boat and luxury sales brochures (A4 landscape), Instruction manuals- mobile phones/ games, cameras  
Educational course work – Schools and universities, CD and CD Rom books, Tourist industry - Travel brochures and guides

DSC10-/60i Suction Tower Collator

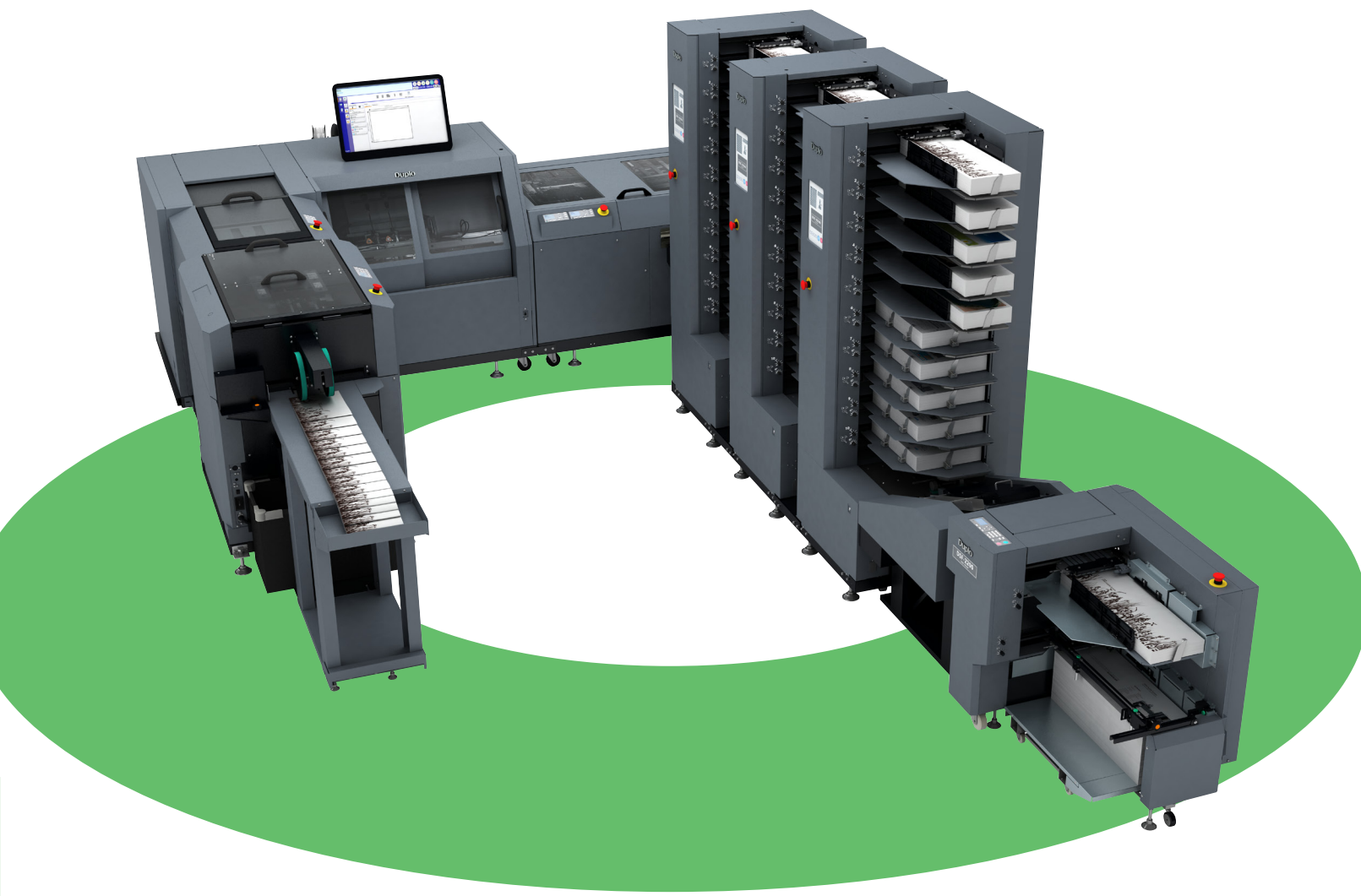
Configurations	iSaddle and iSaddle Duetto
Bin Capacity	65 mm
Paper Size	Max 356 mm (W) x 508 mm (L) Min 105 mm (W) x 148 mm (L)
Paper Size Over 508 mm in Length	Max 230 mm (W) x 610 mm (L)
Paper Weight	from MIN 52 gsm to MAX 300 gsm
Max Booklet Processing Speed	4,500 A5 Booklets into iSaddle System Up 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

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)

DSF-2200 Sheet Feeder

Configurations	iSaddle Digital or iSaddle Duetto
Paper Capacity	Main feed tray: 200 mm media stack height Auxiliary feed tray: 65 mm media stack height
Paper Size	Max 356 mm (W) x 508 mm (L)
Paper Size Over 508 mm in Length (optional)	Max 230 mm (W) x 610 mm (L) Min 105 mm (W) x 200 mm (L)
Paper Weight	from 60 gsm to 300 gsm
Controls	PC Controlled Job programming, save and recall, atutomated set-up Microsoft Windows-Based GUI (Graphical User Interface)
Standard Features	OMR (Optical Mark Reader) end-of-set mark reader Ultrasonic Double Sheet Detection Hand Feeding Active Anti-Static bar

Optional Barcode Reader Kit	1D & 2D Barcode recognition on both trays Codes Supported: Code 39, 93, 128, 2of5, Datamatrix
Options	Trail Edge Air Kit (Extra air for long sheet sizes up to 610 mm in Length) Pre-loading Tray kit (Pre-loading stack of sheets on trolley)
Power supply	220 - 240V 50/60Hz 1.1 A 260W
Net Weights	115 Kg
Dimensions	920 mm (W) x 750 mm (D) x 843.5 mm (H)



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Ref: iSaddle/07/14

Duplo's iSaddle Family is the only relevant Saddle stitching option in today's market. The iSaddle family offers a wealth of features that allows commercial and digital printers to grow and improve probability of their business. The iSaddle Family brings the best of both worlds, the flatter publications similar to the old generation saddle stitches and automation like the modern bookletmakers. The iSaddle is a future proof investment because of its new revolutionary saddle stitching technology and A4 landscape capabilities.

Ergonomically designed

The iSaddle is the most compact saddle stitcher available in the market today. The "U shaped" ergonomic configuration and visible paper path, allows the operator to be in control of the complete production process. The whole system can be managed by a single operator.

Automated Precision

The iSaddle is equipped with the latest technology in saddle stitching allowing the automatic set-up of all book parameters to be accurately and precisely registered in approximately 60 seconds. The entire system is managed from the user friendly touch screen PC controller and the operator can create and save an unlimited number of jobs with ease for future instant recall. The job changeover is done without the use of any tools, any extra parts and without operator's intervention.



Productivity

The iSaddle has been engineered to provide the latest technology to allow for the built-in features to maximise output. It can finish up to 4,500 books per hour without operator intervention or any wastage. Adding the optional DKT-200, 3 knife trimmer, increases this up to 9,000 books per hour. The DSC-10/60i has a large bin capacity of 65mm and up to 4 towers can be connected allowing the feeding of multiple subsets or complete sets in various configurations. Intelligent Multi-Bin Feeding software allows the feeding of either pre-collated or collated sections in order to offer a fully flexible and highly productive system.



Superior Feeding

The high speed and intelligent DSC-10/60i suction towers deliver superior performance whilst maintaining complete accuracy. Each tower of 10 bins comes with A.M.S.+ (Air Management System Plus) as standard. Controlled from the PC Controller, this unique feeding system manages the high power fans that create air flow and vacuum independently for each bin, enabling reliable feeding regardless of paper weight or size.



Intelligent Feed system

The DSC-10/60i includes I.M.B.F. (Intelligent Multi Bin Feeding) which allows the operator to select each bin individually, as a block, a tower or link multiple independent bins together to best suit each application. Each tower is completely independent and can be optimised to feed single or multiple sheets from each bin, a huge benefit when producing variable data publications.

Scoring and 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 insure accuracy.



Saddle Stitching

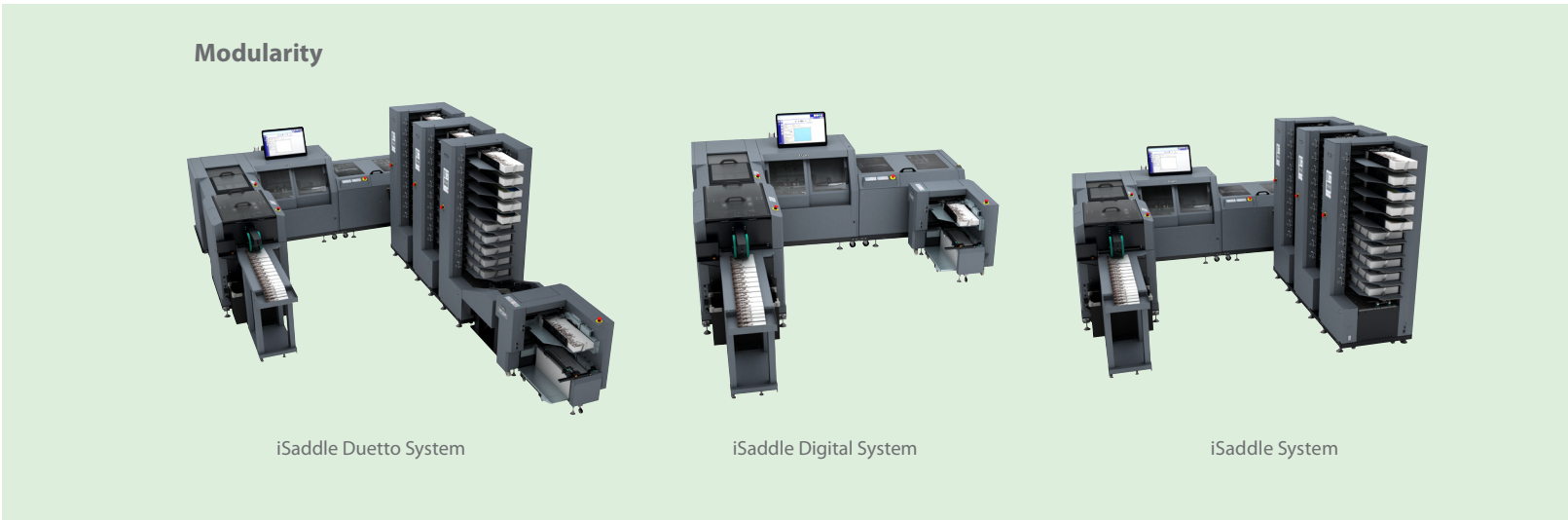
The iSaddle offers the printer a choice of 2, 3 or 4 heavy duty Hohner wire stitching heads in both flat and loop stitch configurations. Precise control of the book is maintained along the spine using motor driven stops and twin drive belts.

3 Knife Trimming

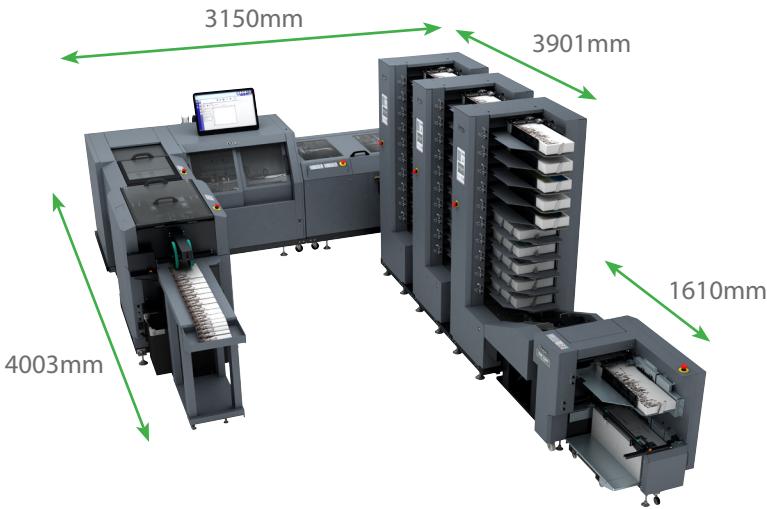
The iSaddle when connected with the optional DKT-200 trimmer provides a completely automatic 3 knife trimming operation. With the optional gutter knife, the printer can finish 2-up printed books at the speed of 9000 per hour.

Modularity

The iSaddle is highly versatile and modular saddle system that can be re-configured and expanded as needs and demands change.



iSaddle paper path



iSaddle Duetto System footprint



Applications