Duplo

from print to documents

DBMi SADDLE SYSTEM

INTELLIGENT, FULLY AUTOMATIC, PRECISE SADDLE STITCHER
FOR OFFSET AND DIGITAL BOOK PRODUCTION

DBMi Saddle System

The First Saddle Stitcher in Its Class to Produce Letter Landscape Books

The **DBMi Saddle System** is Duplo's heaviest-duty, high volume collating and saddle stitching system. With its ability to process 24" length sheets, the DBMi is the first in its class to deliver the increasingly popular, letter landscape booklet. Designed to handle both traditional offset work as well as shorter-run digital jobs with equal ease and efficiency, the DBMi combines PC-based programming and intelligent feeding with state-of-the art scoring and folding to produce high quality, thicker, flatter books up to 4,500 booklets an hour.

What's more, its modular design enables users to add three-knife trimming capabilities with the optional DKT-200 Two-Knife Trimmer, which can also process 2-up applications, boosting its production up to 9,000 booklets an hour! Whatever your book production requirements are, the DBMi Saddle System delivers the automation and precision needed, all on demand.

PC-CONTROLLER: 60-SECOND CHANGEOVERS

Equipped with Duplo's user-friendly PC Controller software, the DBMi becomes incredibly simple for operators of any skill level to operate, program new jobs, and manage the settings of both the collators and saddle stitcher. The intuitive software guides operators step-by-step throughout the process and gives them complete control over the job parameters and adjustments to allow them to precisely set the scoring, folding, stitching and trimming positions. Additionally, operators can use the hard-drive to store a virtually unlimited number of jobs, which can be instantly recalled to quickly and easily change over and set up the entire system within 60 seconds without any manual adjustments!
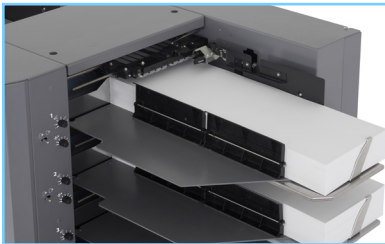

DSF-2200 Sheet Feeder

Go Duetto. Add high capacity sheet feeding capabilities by adding the DSF-2200 Sheet Feeder.

DSC-10/60i SUCTION FEED COLLATORS: MAXIMUM PRODUCTIVITY

The DBMi Saddle System utilizes the new DSC-10/60i Suction Collators. The unique 8-belt air suction feed system along with Air Management System (AMS) make these collators the most reliable in the industry. Incorporating Duplo's patented dual fan technology, each bin comes equipped with two individual fans – one to produce a stable flow of air for paper separation and the other to generate consistent suction for feeding. With adjustments conveniently located beside each bin, the Air Management System (AMS) enables operators to easily fine-tune the amount and strength of air, if necessary. The DSC-10/60i Collators feeds a wide range of paper weights and stocks up to 300 gsm with consistency and precision.
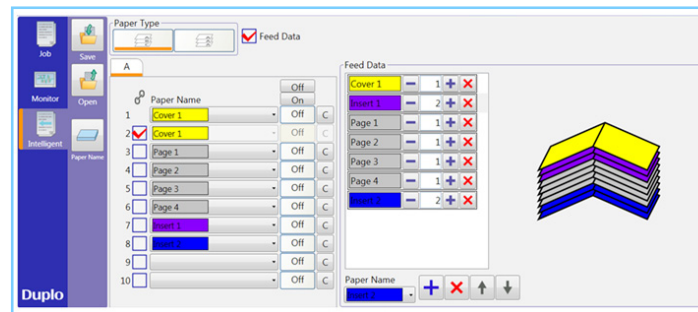
The high resolution optical sensors add an extra level of reliability by ensuring miss or double feed errors are identified. Faulty sets are diverted into a reject tray to allow continuous operation and can easily be recovered by simply correcting and inserting them into the hand feed station. Maximize productivity by connecting up to 6 towers for a total of 60 bins. Link bins together, using the Intelligent Multi-Bin Feeding feature, for non-stop productivity.

Extension trays conveniently support sheets up to 24" in length.

INTELLIGENT MULTI-BIN FEEDING

Perform custom feed applications and fulfill a variety of unique job requirements by using the IMBF (Intelligent Multi-Bin Feeding) feature that comes standard with the PC Controller software. Seamlessly merge black and white documents with color media, combine un-collated offset with collated digital output, and create one-to-one marketing booklets by inserting variable data material. Take full control of the feeding sequence, select the bins to feed from, and specify how many sheets to feed from each bin. Saddle stitch these sets using the DBMS or stack them using the optional DBM-400STR high capacity stacker.

Customize the feeding process.
Merge digital with offset, black and white with color,
and link bins for higher capacity and productivity.

POPULAR APPLICATIONS

CD

2-UP

LETTER LANDSCAPE

DBMS SADDLE STITCHER: THICKER, FLATTER BOOKS

The DSC-10/60i Collators deliver subsets of up to 10 sheets directly into the DBMS Saddle Stitcher, feeding them first into the Scoring and Folding Unit (DBMS-F) where each subset is aligned, jogged, scored, and plough folded. Two side guides jog each subset to accurately align them prior to scoring and folding.
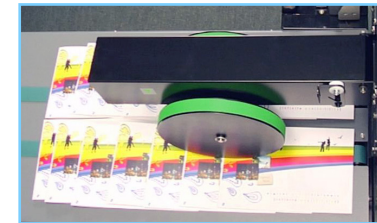
Sheets can be delivered set-by-set or sheet-by-sheet, when processing custom feed jobs using the IMBF. Once scored and plough folded, all subsets are accumulated in the buffer area and compiled into a complete set. Breaking the sets into subsets allows for superior scoring and folding – resulting in thicker, flatter books.

Complete booklets are then transported into the Stitching Unit (DBMS-S) where 2 (standard), 3 or 4 stitches can be utilized for different job applications. The system utilizes heavy-duty Hohner stitch heads and can switch from 2 to 4 stitches as the job requires. When four stitch heads are installed, the two outer heads are driven separately from the two inner heads. Twin drive belts maintain the registration of each book during the process to ensure accurate stitching along the spine.

In the Tucker Unit (DBMS-T), stitched booklets are moved up for final trimming. Books can be face trimmed only or for three-side trimming capabilities, the optional DKT-200 Two-Knife Trimmer can be added. With the DKT-200, books are trimmed at the head and foot for a full-bleed finish and with the gutter cutter, users can process 2-up applications, producing up to 9,000 books an hour.

Finished books are neatly delivered on the long stacker. A stitch detection sensor records incorrectly stitched books, which are then separated on the conveyor for easy removal. Additionally, the optional batch kicker can be used to separate batches on the stacker at a predetermined count.
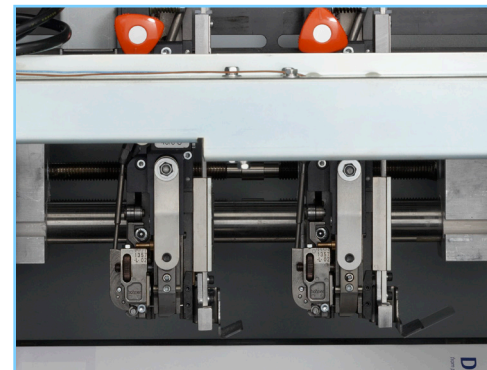
The DSS-350 Square Spine module can also be added in off-line mode to produce booklets with a square spine finish.

Process 2-up applications up to 9,000 booklets per hour with the optional DKT-200 Two-Knife Trimmer and gutter cutter.

Two jogging areas jog each subset prior to scoring and folding to ensure the precise alignment of the sheets.
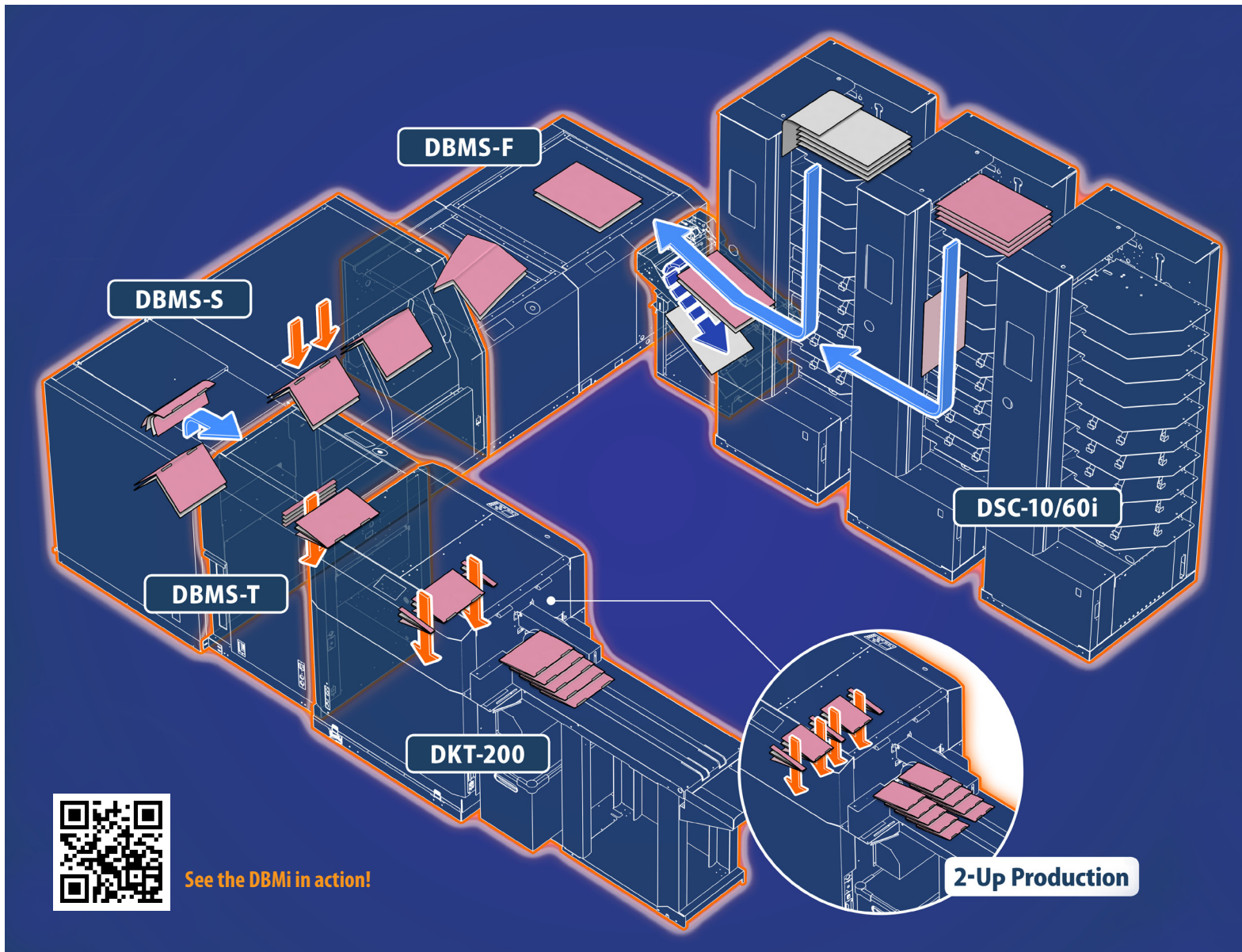

The Hohner stitch heads automatically move into position when the job is recalled on the PC Controller. Optional 3-stitch and 4-stitch head kits are also available.

For a square spine finish, the DSS-350 module can be added in off-line mode for booklets up to 20 sheets.

SADDLE STITCHING AT A GLANCE

Take an inside look of the powerful and versatile DBMi as booklets are easily collated, scored, stitched, trimmed, and delivered.

DBMS-F

DBMS-S

DBMS-T

DKT-200

DSC-10/60i

2-Up Production

See the DBMi in action!

DSF-2200 SHEET FEEDER: COMPLETE SET INTEGRITY

The DBMi Saddle System can be configured with the DSF-2200 Sheet Feeder, extending its versatility even further. Configurable with the DBMS Saddle Stitcher, with or without the DSC-10/60i Collators, the DSF-2200 makes it possible for operators to feed pre-collated digital jobs up to 200 sheets per minute. The DSF-2200 feeds a wider range of paper sizes as large as 14" x 24" down to 4.13" x 7.87" and features an air management system, ultrasonic feed detection, and anti-static device. The standard Optical Mark Reader (OMR) ensures variable data sets are processed accurately. Optional 1D or 2D barcode reader kits can be added to ensure full set integrity.

PRECISION ON DEMAND

Duplo has engineered the revolutionary DBMi Saddle System to meet the demands of offset and digital printers. Its efficiency, productivity, and wider specifications to accommodate larger sheet sizes enable print providers to cut labor costs and reduce downtime all while increasing their profits and product offerings. As with most Duplo products, the modular design of the DBMi makes it possible to increase its versatility, if and when you need to, making the most out of your investment.

Deliver thicker and flatter books on demand with the DBMi Saddle System – the first saddle stitcher in its class to bring you letter landscape books!

DSF-2200 Sheet Feeder.

Digital Finishing. The DBMS Saddle Stitcher can be configured with the DSF-2200 Sheet Feeder, with or without collators.

SPECIFICATIONS

DBMS SADDLE STITCHER & TRIMMER

TYPE	Automatic saddle stitcher and trimmer
PAPER SIZE	Width: 4.72"- 14.01"/120 - 356 mm Length: 8.27"- 24.01"/210 - 610 mm
FINISHED SIZE NO TRIM	Width: 4.72"- 14.01"/120 - 356 mm Length: 4.14"- 12"/105 - 305 mm (max length subject to DSC-10/60i specifications)
FINISHED SIZE WITH TRIM	Width: 4.72"- 13.78"/120 - 350 mm Length: 2.95"- 11.96"/ 75 - 304 mm
SPEED	Up to 4,500 sets/hour[1]
PAPER CAPACITY (STITCH/FOLD)	Up to 30 sheets[2]
PAPER TYPES	Bond, coated
FACE TRIM	0.04"- 1" (1 - 25 mm) (2.95"/75 mm when trimming 12 sheets or less)
TRIM THICKNESS	0.24"/6 mm (30 sheets folded, equivalent to 60 sheets)
NUMBER OF STITCHER HEADS	2 standard, 3 or 4 optional
CONTROLLER	PC-based, MS Windows Operating System
JOB MEMORIES	Unlimited (determined by hard-drive capacity)
POWER	200 - 240V 50/60Hz, 3 outlets, 2.4A

DIMENSIONS (WxDxH) & WEIGHT	Dimensions	Weight
DBMS-F TURN/FOLD SECTION	64" x 37" x 32"/1627 x 941 x 805 mm	693 lbs./314 kg
DBMS STITCH SECTION	73" x 37" x 46"/1846 x 935 x 1662 mm	942 lbs./427 kg
DBMS-T FACE-TRIM SECTION	29" x 28" x 47"/719 x 700 x 1187 mm	606 lbs./275 kg

OPTIONS	3 Stitch Head Kit; 4 Stitch Head Kit; DKT-200 (requires D-Port Converter)

[1] Dependent upon connected devices and number of bins in use
[2] Dependent upon paper weight and size

Some configurations shown may not be immediately available.
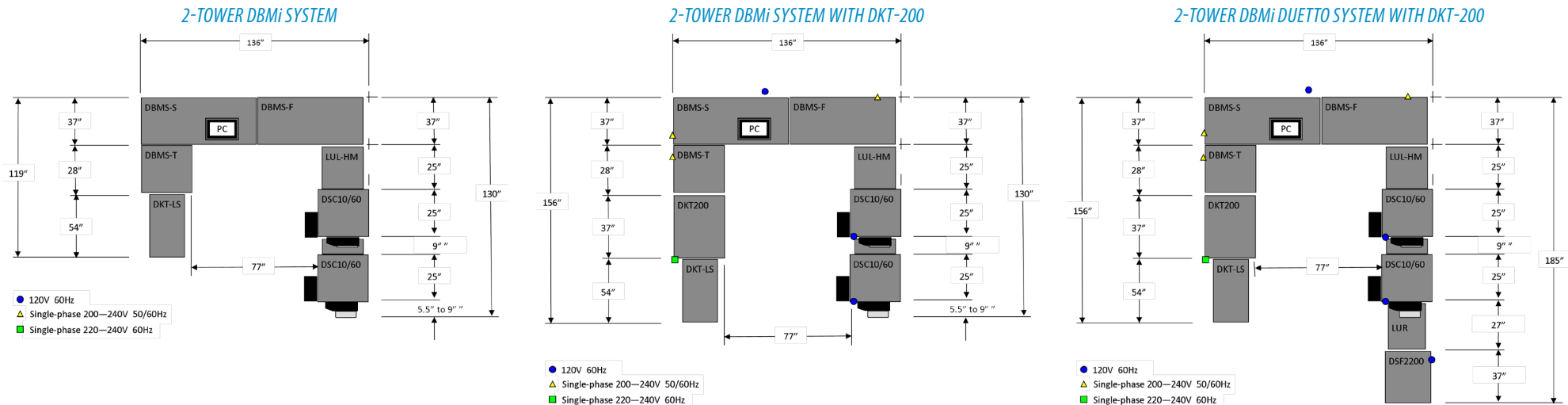
DSC-10/60i COLLATOR

NUMBER OF BINS	10, 20, 30, 40, 50, 60 (10 bins per tower)
PAPER SIZE	Width: 4.1"- 14"/105 - 356 mm Length: 5.8"- 24"/148 - 610 mm Maximum paper length is 24"/610 mm only when the width is 7.88"- 9.05"/200 - 230 mm. If the width is more than 9.05"/230 mm, the maximum paper length is 20"/508 mm.
PAPER WEIGHT	52 - 300 gsm
BIN CAPACITY	2.6"/66 mm
SPEED	Bookletmaking: Up to 5,000 sets/hour[1] Collating: Up to 10,000 sets per hour[1]
FEED SYSTEM	Patented dual fan feed system for each bin
CONTROLLER	PC-based, MS Windows Operating Systems
POWER	120V 60Hz 8.4A
DIMENSIONS (WxDxH)	34" x 33" x 78"/855 x 830 x 1972 mm
WEIGHT	674 lbs./306 kg
OPTIONS	Extension Tray Kit; DSC-10/60 Bridge; LUR (requires D-Port Converter) DBM-400STR

[1] Dependent upon connected devices and number of bins in use

DKT-200 2-KNIFE TRIMMER (optional)

BOOKLET SIZE	Width: 4.13"- 4.80"/105 - 356 mm (no trimming); 4.81"- 14.02"/122 - 356 mm (2 side trim no gutter cut); 7.96"- 14.02"/202 - 356 mm (2 side trim with gutter cut) Length: 2.95"- 12"/75 -305 mm
FINISHED SIZE	Width: 4.72"- 13.94"/120 - 354 mm Width when using gutter cut option, 1 stitch on each book: 3.54"- 6.85"/90 - 174 mm Width when using gutter cut option, 2 stitches on each book: 4.02"- 6.85"/102 - 174 mm Length: 2.95"- 12"/75 - 305 mm
TRIM WIDTH	0.04"- 1.18"/1 - 30 mm, gutter: 0.24"/6 mm
TRIM METHOD	2 upper blades, 2 lower blades
TRIM THICKNESS	Within 5 mm (no gutter): fine 81.4 gsm/22 lb. 25 sheets folded (equivalent to 50 sheets) Within 2.4 mm (gutter): fine 81.4 gsm/22 lb. 12 sheets folded (equivalent to 24 sheets)
SPEED	Up to 9,000 sets/hour with gutter cutter Up to 4,500 sets/hour (fine 81.4 gsm/22 lb. within 20 sheets A5 finished) Up to 3,900 sets/hour (fine 81.4 gsm/22 lb. within 20 sheets A4 finished)
POWER	220 - 240V 60Hz 4.4A 640W
DIMENSIONS (WxDxH)	37" x 32" x 46"/940 x 813 x 1169 mm 91" x 32" x 47"/2312 x 813 x 1194 mm (with stacker)
WEIGHT	1,040 lbs./472 kg
OPTIONS	DKT-G 6 mm Gutter Cutter; DKT-K Batch Kicker

DKT-200 specifications are subject to DBMS specifications.

2-TOWER DBMi SYSTEM

2-TOWER DBMi SYSTEM WITH DKT-200

2-TOWER DBMi DUETTO SYSTEM WITH DKT-200

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