500i Booklet System

SPECIFICATIONS

DSC-10/60i COLLATOR

Number of Bins*	10, 20, 30, 40, 50, 60 (10 bins per tower)*
Paper Size	Width: 4.1" - 14"
	Length: 5.8" - 24" (width of paper must be within 7.88" - 9.05" when paper length is greater than 20")
Paper Weight	Fine quality paper: 52 - 157gsm (Cover: 52 - 300 gsm)
	Art coated paper: 79 - 157gsm (Cover: 79 - 300 gsm)
Bin Capacity	2.6"
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 Controller w/IMBF or Color Touch Screen LCD panel (IMBF feature not available with LCD Panel)
Power	120V 60Hz 7.9 - 8.4A 910 - 960W
Dimensions (WxDxH)	34" x 33" x 78"
Weight	674 lbs.
Options	DSC-10/60D Bridge; LUR Lift Unit Right, D-Port Converter (required); DBM-400STR Right Exit Deep Pile Stacker, DCR-ST Left Exit Cross Stacker; DCR-BP Bypass Bridge, DSC1060ENVLP Envelop Kit

Currently configurable with up to 40 bins (4 towers), 50 and 60 bins TBA
[1] *Dependent upon connected devices and number of bins in use*

DBM-500 PRO BOOKLETMAKER (Requires D-Port Converter)

CORNER/SIDE/TOP STITCHING APPLICATION

Sheet Size (Min./Max.)	4.72" x 5.52" to 13.82" x 14.33"
Paper Capacity	Up to 30 sheets***

SIGNATURE BOOKLETMAKING APPLICATION

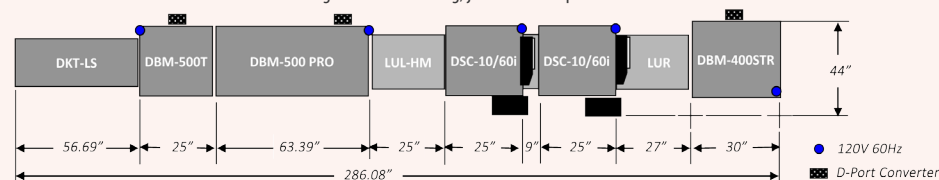|	
Sheet Size (Min./Max.)	4.72" x 6.7" to 14" x 20"
Paper Capacity	Up to 25 sheets***

GENERAL

Speed	Up to 5,000 sets per hour**
Detections	Wire draw detection
Number of Stitcher Heads	2 standard or 4 optional. Type: Hohner 43/6S
Stitch Positions	Saddle, corner, side, none (fold only)
Programmable Memory Settings	12
Automatic Functions	Stitcher heads, back jogger, side guides, stitch stopper, fold stopper, fold-back stopper positions, small booklet adjustments, fold roller gap, conveyance roller position, center reference, disengage the operator side stitching head when corner stitching
Power Requirements	120V 60Hz 6.5A
Dimensions (LxWxH)	64" x 28" x 40"
Weight	908 lbs.
Other Features	LCD touch panel and ten-key pad; DBM-500T settings adjustable from DBM-500 Pro control panel; accepts set-by-set and sheet-by-sheet; jam clearance accessibility; side and corner stitch catch tray; knife folder with four adjustable fold rollers and insert attachment for inserting loose sheets into booklets; adjustable control panel, external fold skew adjustment
Connecting Devices	DSC-10/60i Intelligent Air Suction Feed Collator, DSC-10/20 Air Suction Feed Collator, DSF-2200 Document Sheet Feeder, DSF-5000 Document Sheet Feeder, DBM-500T Trimmer, DCR-ST Cross Stacker

DBM-400STR STACKER (Requires D-Port Converter)

Sheet Capacity (Min./Max.)	8.25" x 5.5" to 13.77" x 19.68"
Paper Capacity	17"
Speed	Up to 9,800 sets per hour**
Power Consumption	120V 60Hz 2.2A
Dimensions (LxWxH)	30" x 35" x 35"
Weight	325 lbs.
Other Features	Automatic size change; 13 programmable memory settings; straight or offset stacking; jam and door open detectors

DBM-500T TRIMMER (Requires D-Port Converter)

Trimming Mechanism	Upper and lower shearing action
Booklet Size (Min./Max.)	4.72" x 3.35" to 14" x 10"
Trimmed Booklet Size (Min./Max.)	4.72" x 3" to 14" x 10"
Trim Margin	Up to 1"***
Speed	Up to 5,000 sets per hour**
Power Consumption	120V 60Hz 10A
Dimensions (LxWxH)	23" x 27.5" x 43"
Weight	532 lbs.
Other Features	Jam detectors; adjustable belt in-feed timing; inter-locking safety covers; automatic setting exit rollers; auto knife up/down; bypass for documents that do not need a face trim; trim/no trim; resettable output counter; compressed air to trimmings tray; trim scrap-box-full sensor; drop-away flap for trimmings; full-width head stop; spine compression; automatically adjustable in-feed roller gap
Connecting Devices	DBM-LS1 Extended Conveyor with DBM-K Batch Kicker, DBM-SS1 Short Stacker, DKT-200 Two-Knife Trimmer

DKT-200 TWO-KNIFE TRIMMER (Requires D-Port Converter)

Booklet Size (Min./Max.)	4.72" x 2.95" to 14.02" x 10"
	When gutter cutter option used:
	7.87" x 2.95" to 14.02" x 10" (gutter)
Finished Size (Min./Max.)	4.72" x 2.95" to 13.9" x 10"
	When gutter cutter option used: 3.54" x 2.95" to 6.85" x 10"
Trimming Width	0.04 - 1.18"
	Gutter: 0.24"
Trimming Method	2 upper blades, 2 lower blades
Trimming Thickness	Within 5 mm (no gutter): fine 81.4 gsm/ 22 lb. 50 sheets
	Within 2.4 mm (gutter): fine 81.4 gsm/ 22 lb. 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 Consumption	220 - 240 V 60Hz 4.1A 640W
Dimensions (LxWxH)	37" x 32" x 46"
	91" x 32" x 47" (including stacker)
Weight	1,040 lbs.

DCR-ST CROSS STACKER (Requires D-Port Converter)

Paper Size (Min./Max.)	Tray L - 8.46" x 12.60" to 13.98" x 17.72"
	Tray S - 8.27" x 12.80" to 5.83" x 9.84"
Stack Height	Tray L - 3.94"
	Tray S - 7.87"
Speed	Tray L - 3,000 sets/hour 11" x 17"***
	Tray S - 4,000 sets/hour 8.5" x 11"***
Other Features	Cross and straight stacking, adjustable set interval
Power Consumption	120V 60Hz 1.0A
Dimensions (LxWxH)	28" x 27" x 25"
Weight	Main unit - 97 lbs.
	Tray L - 18 lbs.
	Tray S - 18 lbs.

Note: Requires DCR-BP Bypass Conveyor when using in-line with bookletmaker

COMMON SYSTEM CONFIGURATIONS (Additional components may be required)

- DBM-LS1 + DBM-500T + DBM-500 Pro + PC Controller + DSC-10/60i
- DBM-LS1 + DBM-500T + DBM-500 Pro + PC Controller + DSC-10/60i + DBM-400STR
- DKT-LS + DKT-200 + DBM-500T + DBM-500 Pro + PC Controller + DSC-10/60i

** *Dependent upon connected devices and number of bins in use*
*** *Dependent upon paper weight and size*

Production rates are based on optimal operating conditions and may vary depending on stock and environmental conditions. As part of our continuous product improvement program, specifications are subject to change without notice.

Duplo
from print to documents

500i
Booklet System
Intelligent, High Production Bookletmaking

Diagram components (left to right): DKT-LS | DBM-500T | DBM-500 PRO | LUL-HM | DSC-10/60i | DSC-10/60i | LUR | DBM-400STR

44"

56.69" | 25" | 63.39" | 25" | 25" | 9" | 25" | 27" | 30"

286.08"

● 120V 60Hz
▨ D-Port Converter

0613AO

Intelligent, *H*igh Production Bookletmaking

The 500i Booklet System is Duplo's high production collating and bookletmaking system. Integrating the DSC-10/60i Suction Collators with the DBM-500 Pro Bookletmaker, the 500i Booklet System produces saddle, side, or corner-stitched applications at a production rate of up to 5,000 booklets per hour.
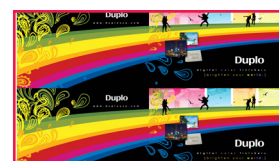
Ideal for both offset and digitally printed applications, the 500i Booklet System offers enhanced features for optimum efficiency and productivity. And by adding the optional 4-stitch head kit along with the DKT-200 Two-Knife Trimmer and gutter cutter, users can produce booklets with a full-bleed finish and process 2-up applications, increasing production up to 9,000 booklets per hour!

PC CONTROLLER: 60-SECOND CHANGEOVERS
Automatically change over from a catalog to a CD-size booklet in under a minute using the PC Controller software. The PC Controller makes it incredibly simple for operators of any skill level to operate, program new jobs, and manage the settings of the entire system. 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 stitch, fold, and trim positions. And with the ability to store virtually an unlimited number of jobs in the hard drive, users can instantly recall and change over jobs in less than 60 seconds!

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, link bins, select the bins to feed from, and specify how many sheets to feed from each bin. With the IMBF, documents can also be delivered set-by-set or sheet-by-sheet into the bookletmaker.

DSC-10/60i SUCTION COLLATORS: SUPERIOR FEEDING SYSTEM
The 500i Booklet System utilizes Duplo's DSC-10/60i Suction Collators. The unique 8-belt air suction feed system along with an Air Management System 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 separation and the other to generate consistent suction for feeding. With adjustments conveniently located beside each bin, the Air Management System enables operators to easily fine-tune the amount and strength of air, if necessary.

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 marry station. Optional ultrasonic sensors can be added for feeding sheets with heavy coverage. Ultrasonic sensors use sound waves instead of light, making them impervious to paper thickness, variations in ink, toner and coverage.

The 500i Booklet System will be configurable with up to 6 towers for a total of 60 bins. The DSC-10/60i Collator offers flexibility for various application needs including Interleaf Modes to insert single or double sheets when stacking. 1/2, 1/3 and 1/4 block modes are provided for non-stop productivity.

DBM-500 PRO BOOKLETMAKER: HIGH PRODUCTION BOOKLETMAKING
After sheets are collated by the DSC-10/60i Collator, sets are delivered into the DBM-500 Pro Bookletmaker for stitching, folding, and trimming. Booklets can be saddle, side, or corner-stitched without additional tools required. The bookletmaker utilizes heavy-duty Hohner stitch heads and can switch from 2 (standard) or 4 (optional) stitches as the job requires. Sheet sizes of 14" x 20" down to 4.75" x 7.01" can be processed with equal ease. Up to 25-sheet booklets can be processed for signature bookletmaking or up to 30 sheets can be processed for side or corner-stitching.

With the 500i Booklet System, a wide range of applications can be produced and a number of options can be added to meet customer demands. Booklets can be face trimmed only with the DBM-500T Trimmer or for three-side trimming capabilities, the DKT-200 Two-Knife Trimmer can be added. With the DKT-200, booklets 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 booklets per hour.

Deliver booklets with a flatter, square spine finish by adding the ASM-500 SpineMaster option in-line with the 500i Booklet System or to enhance the quality off-line, use the DSS-350 Square Spine.

COLLATING AND STACKING
The DSC-10/60i Collators have the ability to feed to the left into the DBM-500 Pro Bookletmaker or to the right into a stacker. The DSC-10/60i collates up to 10,000 sets per hour depending upon connected devices and users can choose from two optional stackers:

- **DBM-400STR High Capacity Stacker** – Ideal for high volume stacking jobs, the DBM-400STR Stacker can straight or offset stacks up to 17". The DBM-400STR is attached to the right of the collator, opposite side of the bookletmaker, to allow for quick change over from bookletmaking to stacking without having to remove any devices.
- **DCR-ST Cross Stacker** – The DCR-ST can cross or straight stack up to 7.87". It connects between the collator and the bookletmaker. When the stacker is not being used, a bypass bridge redirects the paper to the bookletmaker for bookletmaking without having to remove any devices.

DCR-ST Cross Stacker

Process 2-up applications with the DKT-200 and gutter cutter option.

Lower Stack Tray makes switching from saddle stitch to corner or side stitch quick and simple.

Create and save jobs as well as manage and control the entire system from a PC or laptop using the intuitive PC Controller software.

The integrated reject tray automatically diverts and collects sets that have missing or double fed sheets.

The 2.6" bin capacity supports a variety of paper stocks 52–300 gsm and paper sizes ranging from 4.1" x 5.8" to 14" x 24".
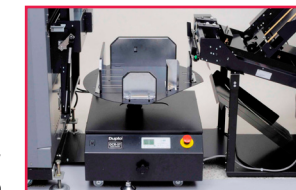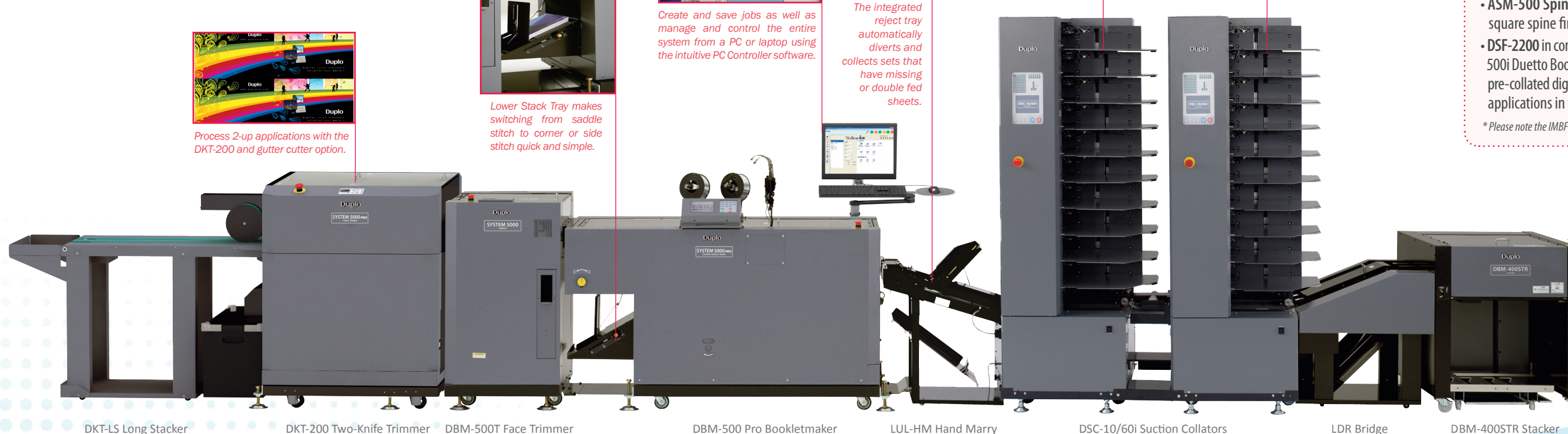
8-belt air suction feed system and Air Management System ensure reliable feeding.

DKT-LS Long Stacker   DKT-200 Two-Knife Trimmer   DBM-500T Face Trimmer   DBM-500 Pro Bookletmaker   LUL-HM Hand Marry   DSC-10/60i Suction Collators   LDR Bridge   DBM-400STR Stacker