Duplo

DBM-700

Booklet Making System

DISCOVER A WORLD OF POSSIBILITIES.

DBM-700, DBM-700S & DBM-700T

FEATURES

The DBM-700 Bookletmaker and DBM-700T Trimmer combine to offer high productivity suitable for taking print from multiple presses, whether offset or digital. The DBM-700 has the versatility to take on a wide range of jobs offering printers a choice of finished applications: booklets, corner or side stitched documents. 2 or 4 heavy duty Hohner wire stitching heads, in both flat and loop stitch configurations. The optional DBM-700S adds a square spine to deliver a quality perfect-bound book appearance, while also enabling the system to produce extra thick books of 50 sheets.

- Using Duplo's PC Controller software, the system can easily be managed and controlled by a single operator via a PC.
- Automatic calculation of stitch, fold, fore-edge and head and foot trim positions.
- PC Controller can recall and change between jobs within 60 seconds.
- The DBM-700 system is a modular system and can be customised according to the end users need.
- Clear paper path allows the operator to be in full control of the production process.
- The whole system can be managed by a single operator and requires virtually no operator intervention.

SPECIFICATIONS

Max Booklet 1-up Production Speed	4600 A5 booklets up to 10 sheets 5200 105mm x 200mm booklets up to 5 sheets
Max Booklet 2-up Production Speed	Up to 9,000 booklets/hr 2-up booklets (when connected with DKTS-200 Trimmer)
Max Booklet Thickness	6mm (30 sheets of 80gsm, 120 page book) 10mm (50 sheets of 80gsm, 200 page book) when using DBM-700S
Flat Sheet Size	Max: W 356mm x L 610mm Min: W 105mm x L 170mm
Finished Untrimmed Booklet Size 1-up Production	Max: W 356mm x L 305mm Min: W 105mm x L 85mm
Finished Booklet Size 1-up Production	Max: W 354mm x L 304mm Min: W 105mm x L 75*mm *(needs kit)*
Finished Booklet Size 2-up Production	Max: W 171mm x L 254mm *(254 is max gutter cut length)* 2 Stitches in Each Booklet (Centered) Min: W 114mm x L 75mm 2 Stitches in Each Booklet (Non-Centred) Min: W 105mm x L 75mm (12 pages max) 1 Stitch in Each Booklet Min: W 90mm x L 75mm (12 pages max)
DBM-700T Trimmer Front Knives	1mm to 25mm 85mm standard. With kit up to 75mm with 12 pages or less within 6 mm (max trimming thickness)
Folding Capacity	2 - 30 sheets 50 sheets with DBM-700S
Fine Adjustment	From 0.1mm
Max Stitching Capacity	5mm (50 sheets of 80gsm)
Min/Max Stitching Head Distance (1-up)	60mm - 320mm
Stitching Head Distance (2-up)	58.5mm (55mm is fine adjustment mode)
Stitching Heads	Standard Fitting: 2x Hohner 43/6S 2x2 stitch Optional 4 Hohner Flat/Loop Heads

Controls (DBM-700/700S/700T, DSC10/60i, DSF-2200)	PC Controled Job Programming, save and recall Automated set-up Microsoft Windows base GUI (Graphical User Interface) Individual control panel for fine adjustment
Job Memories	Infinite from PC Controller
Folding Rollers	Automatic Mechanism
Error Detect Sensors	Paper Feed; Paper Jam, Safety Guards
Features	Quick and automatic job changeover Straight paper path with LED lighting Centre registered system Clear visibility, wide and easy access within each module
DBM-700 Options	DBM-700S Square spine 4 Hohner Flat/Loop Heads DBM-700 Sheet by Sheet Air Kit (multiple sheet feeding)
DBM-700T Options	75mm Trim Kit 50 Sheet Booklet Trim Kit DKT Kicker for LSW
Power Supply	220V - 240V 50/60Hz (DBM-700: 3.5A/DBM-700T:4A) DBM-700 supplies DBM-700S
Power Consumption	DBM-700: 550W DBM-700T: 600W
Dimensions - Net Weights	DBM-700 W 1976mm x D 929mm x H 1507mm 366kg DBM-700S Square spine W 259mm x D 934mm x H 1140mm 118kg DBM-700T Trimmer W 719mm x D 790mm x H 1150mm 241kg DKTS-200 & LSW2 W 2302mm x D 700mm x H 1169mm 472kg

CONFIGURATION TABLE

	SHEET FEEDERS		COLLATOR TOWER	BOOKLET MAKER	SQUARE SPINE	TRIMMERS		STACKERS	
	DSF-2200	DSF-6000	DSC-10/60i Collator	DBM-700	DBM-700S	DBM-700T	DKTS-200	DBM-400STR	DC-12JR
DBM-700i Booklet System			Y	Y	Option	Y	Option	Option	Option
DBM-700 Digital Booklet System	Y			Y	Option	Y	Option		
DBM-700 PRO Digital Booklet System		Y		Y	Option	Y	Option		
DBM-700i PRO Duetto Booklet System		Y	Y	Y	Option	Y	Option		

DSF-2200 SHEET FEEDER

FEATURES

Duplo's revolutionary DBM-700 & DBM-700T combined with the DSF-2200 Sheet Feeder is the ideal bookletmaking 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 Auxilary feed tray: 65mm media stack height	**AMS⁺ Feeding System**	Ability to increase the flow of air and vacuum on each ben Ability to adjust the feed timing
Paper Size	Max W 356mm x L 508mm Max W 230mm x L 610mm Min W 105mm x L 200mm	**Optional Barcode Reader Kit**	Fits two trays 1D & 2D Barcode recognition Codes supported: Code 39, 93, 128, 2 of 5, Datamatrix
Paper Weight	From 60gsm to 300gsm	**Options**	Pre-loading tray kit (Pre-loading stack of sheets on trolley)
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)	**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

FEATURES

Duplo's persistent pursuit of the ultimate digital feeding and booklet-making technology culminates in the DBM-700 PRO Digital Booklet System. Configurable with the DBM-700, 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.	**Features**	PC Controller, Windows based Graphicial 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 inlcuded).
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	**Options** Printers Supported:	Extra paper adaptor tray to suit different digital printing presses Xerox IGEN3/4
Buffer Capacity	Integrated buffer section with adjustable air separation. 10 sheets or less (1.5mm thickness or less)	**Power Supply**	220V - 240V 50Hz/60Hz 2.7A 250W - I/F box 1.9A 180W
Sheet Feed Speed	Up to 600 sheets per minute (A4 SEF)	**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

SPECIFICATIONS

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: D 743mm x W 867mm x H 662mm 75kg DSF-6000 and Twin Feeder together: D 797mm x W 1519mm x H 1776mm 377kg

DSC-10/60i SUCTION TOWER COLLATOR

FEATURES

The high speed intelligent DSC-10/60i Suction Collator Towers and the easy to use DBM-700 Bookletmaker and Trimmer provides 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

FEATURES

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-700 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
Trim Thickness	30 sheets (80gsm 3mm)
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

DBM-400 STR STACKER

SPECIFICATIONS	
Flat Sheet Size	Max W350 x L500mm Min W210 x L139mm
Maximum set thickness	6mm
Stacking methods	Straight or offset
Maximum stack capacity	430mm or 200mm switchable
Processing Speed (based on sets of 10 sheets or less)	Offset 3/600 sets/hour Straight 9,000 sets/hour High speed mode 4,500 sets/hour

SPECIFICATIONS	
Features	Auto descending stacker
Noise	74 dB
Power Supply	220V - 240V 50Hz/60Hz 1.2A
Dimensions - Net Weights	D 750mm x W 915mm x H 890mm 170kg

DC-12JR JOGGER

SPECIFICATIONS	
Flat Sheet Size	Max W350 x L500mm Min W200 x L140mm
Stacking methods	Straight
Maximum stack capacity	80 mm
Features	Jogging
Power Supply	220V - 240V 50Hz/60Hz 0.4A