

Duplo Near-line Systems

Duplo®



**Solutions for a
Professional
Finish**

GBC

What is “near-line”?

Near-line is a concept initiated by Duplo and implies that whilst the equipment is not connected directly to the print engine, it is talking to it or is aware of the job criteria through marking on the sheets themselves, such as optical mark recognition (OMR) or bar codes. Duplo near-line systems provide ideal finishing solutions for variable data or personalized work which is one of the many advantages of digital printing.

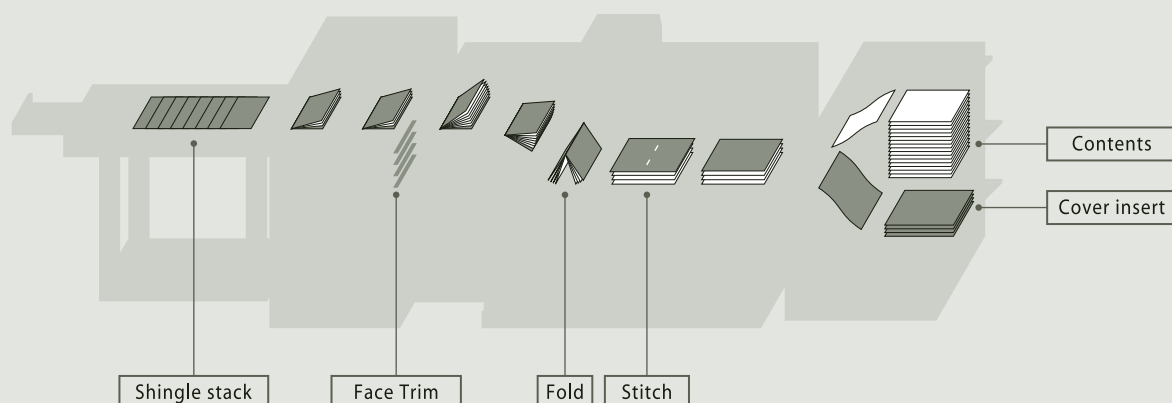
DBM-500

Near-Line System

Bookletmaking solution for pre-collated digital output
(Mid-high volume)



DBM-500 Process Workflow



DSF-2000 Sheet Feeder feeds pre-collated sets sheet by sheet to accumulate sheets in the right sequence to make a complete set. The DSF-2000 Sheet Feeder has a cover insertion tray. After the sheets are accumulated, set is stitched, folded and face-trimmed to make a complete booklet.

Features & Benefits

- The DSF-2000 is equipped with two feed trays, so that one can be loaded with black and white content media from one digital press and the other with color covers from a digital or offset press.



Two feed trays

- The DSF-2000 can read the end-mark on the last sheet of the set to check the set has the desired number of sheets, ensuring the set-sheet integrity. When the end-mark is seen, a cover can be fed (or not) from the cover feed tray.

- Optional bar code reader for the DSF-2000 reads the bar code which instructs the DSF-2000 from which tray to feed and when to send the end-of-set signal to the booklet maker. It can be used for the sets of fixed and variable number of sheets. It helps not only to ensure sheet- and set-integrity but also brings the variable printing into the finishing area.



Bar code reader

- The DSF-2000 is equipped with invert function in case the sheets are printed out face-down.

- System 5000 is fully automatic and needs no manual intervention for job set-ups.

- Changes between jobs are done at a touch of a button, helping to reduce the downtime and greatly reduce wasted booklets during set-up.

- User-friendly GUI on the DBM-500 control panel helps to set up procedure and operations, which means less training on the operator is needed.



User-friendly GUI

Basic Specifications		DBM-500 Near-line System	
Paper Size (WxL)		Max:320x450mm / 12.6x17.7" Min:148x200mm / 5.8x7.9"	
Paper Type		Cover:Bond 64-250gsm, Art/Coated 85-157gsm Contents:Bond 64-128gsm, Art/Coated 85-128gsm	
Process Speed		Max:120sheets/min. (A4 SEF)	
Finished Size	Booklet	Max:320x225mm / 12.6x8.9" Min:148x75mm / 5.8x2.9"	
	Side/Corner stitch	Max:B4 Min:B5LEF	
Number of bins		2 bin (DSF-2000 Sheet Feeder)	
Bin Capacity		Top tray (Contents):200mm / 7.9" Lower tray (Cover):60mm / 2.4"	
Staple/Stitch type		Wire stitch	
Number of stitcher heads		2 (4 optional)	
Stitch Capacity	Saddle stitch	25sheets (250gsm x 1sheet + 81.4gsm x 24sheets)	
	Side/Corner stitch	50sheets (81.4gsm)	
Trimming Size (DBM-500T Face Trimmer)	Fore-edge	Max:25mm / 1.0" Min:1mm / 0.04"	*Max up to 75mm / 2.9" depending on conditions
Power Supply		100-240V, 50/60Hz	
Dimensions (WxDxH)		4664x865x1300mm / 183.6x34.1x51.2"	
Weight		824kg / 1815lb	
System Configuration & Dimensions (WxDxH)		DSF-2000:1100x750x1015mm / 43.3x29.5x40.0"	
for each module		DBM-500:1610x865x1300mm / 63.4x34.1x51.2"	
		DBM-500T:635x700x1095mm / 25.0x27.6x43.1"	
		DBM-LS1:1360x384x816mm / 53.5x15.1x32.1"	
Options		Barcode kit (sheet/set integrity, variable), DCM-kit (anti static bar & air knife), 4 head kit (4 stitches), DBM-K Kicker (batch booklets)	
Other Functions		Optical mark recognition, Sheet invert, LCD center control panel, Jam clearance accessibility, Side/corner stitch catch tray, External skew adjustment	

DBM-120

Near-Line System

Bookletmaking solution for pre-collated digital output
(Low-mid volume)



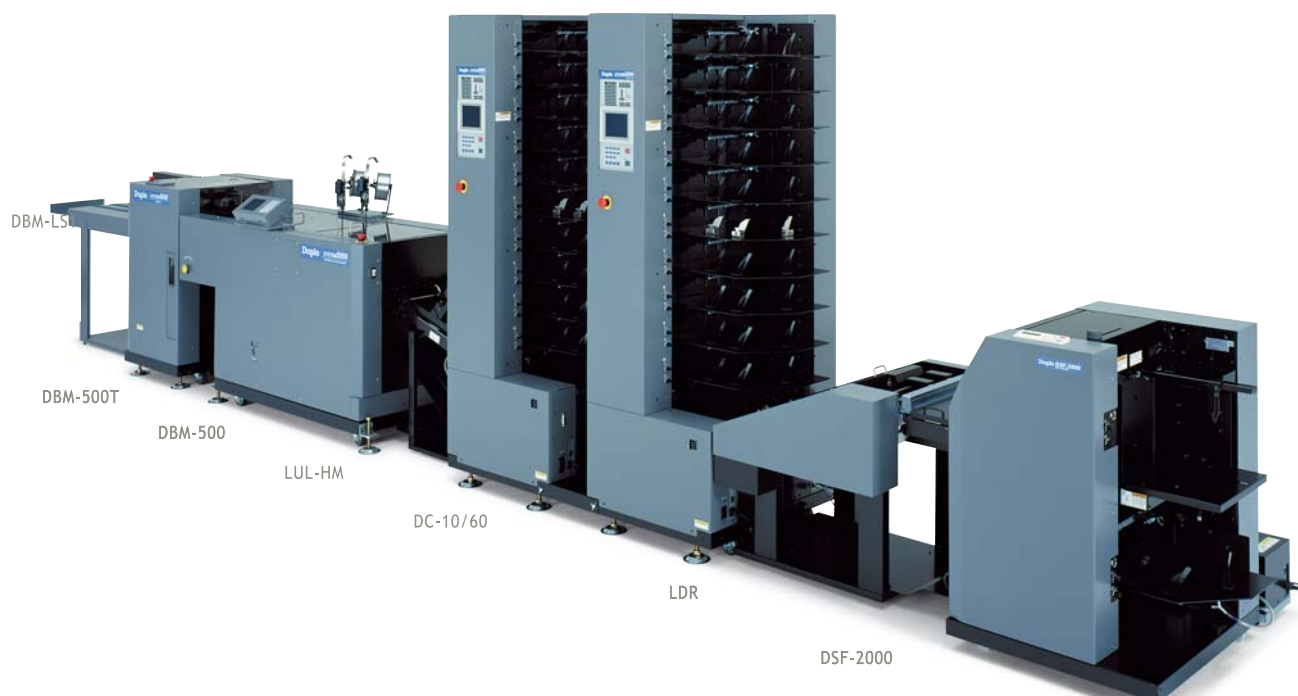
Features & Benefits

- ▶ The DSF-2000 Sheet Feeder can be connected with the DBM-120 S x S (Sheet by Sheet).
- ▶ DBM-120 Near-Line System is ideal for low to mid volume applications.
- ▶ The DBM-120 includes five staple head positions for maximum flexibility in automatic saddle, side or corner stapling.
- ▶ The DBM-120 is designed for simple set-up with the most common applications pre-programmed, bookletmaking is accessed at the touch of a button.
- ▶ A key difference between the DBM-500 and the DBM-120 is that the DBM-500 is mounted with the top quality Hohner stitching heads while a stapler is used for the DBM-120. For other differences, please refer to the specifications below.

Basic Specifications		DBM-120 Near-line System	
Paper Size (WxL)		Max:320x450mm / 12.6x17.7"	Min:210x279mm / 8.3x10.6"
Paper Type		Cover:Bond 80-200gsm, Art/Coated 79-157gsm	Contents:Bond 64-128gsm, Art/Coated 79-128gsm
Process Speed		Max:120sheets/min. (A4 SEF)	
Finished Size	Booklet	Max:320x225mm / 12.6x8.9"	Min:210x120mm / 8.3x4.7"
	Side/Corner stitch	Side staple: Max:A4LEF	Min:A5LEF Corner staple: A4LEF
Number of bins		2 bin(DSF-2000 Sheet Feeder)	
Bin Capacity		Top tray (Contents):200mm / 7.9"	Lower tray (Cover):60mm / 2.4"
Staple/Stitch type		Staple	
Number of stitcher heads		2	
Staple Capacity	Saddle Staple	25sheets (80gsm)	
	Side/Corner Staple	25sheets (80gsm)	
Trimming Size		Max:20.0 mm / 0.8"	
(DBM-500T Face Trimmer)		Min:1.0 mm / 0.04"	
Power Supply		100-240V, 50/60Hz	
Dimensions (WxDxH)		2750x750x1015mm / 108.3x29.5x40"	
Weight		284kg / 626lb	
System Configuration & Dimensions (WxDxH)		DSF-2000:1100x750x1015mm / 43.3x29.5x40.0"	
for each module		DBM-120:702x550x581mm / 27.6x21.7x22.9" (cabinet not included)	
		DBM-120T:375x550x576mm / 14.8x21.7x22.7" (cabinet not included)	
Options		Barcode kit(sheet/set integrity, variable),	
		DCM-kit(anti static bar & air knife)	
Other Functions		Optical mark recognition, Sheet invert, Jam clearance accessibility, Side/corner stitch catch tray	

Duetto Dual-Line System

Bookletmaking solution
both for offset & digital market



Features & Benefits

- An advanced hybrid solution based on the System 5000, the Duetto Dual-Line System incorporates up to three DC-10/60 collating towers, a DSF-2000 sheet feeder and DBM-500 bookletmaker. The first system of its kind to address both digital and offset requirements.
- The ability of the DBM-500 to handle set-by-set and sheet-by-sheet output with equal ease makes the system ideal for printers making transition from offset to digital, allowing them to incorporate color content and variable data into their finishing solutions.

Basic Specifications		Duetto System
Paper Size (WxL)		Bookletmaking from DC-10/60 collator: Max:350x450mm / 13.8x17.7" Min:210x170mm / 8.3x6.7"
		Bookletmaking from DSF-2000 sheetfeeder: Max:320x500mm / 12.6x19.7" Min:148x200mm / 5.8x7.9"
Paper Type		Bookletmaking from DC-10/60 collator: Bond 64-250gsm, Art/Coated 85-157gsm Bookletmaking from DSF-2000 sheetfeeder: Cover: Bond 64-250gsm, Art/Coated 85-157gsm Contents: Bond 64-128gsm, Art/Coated 85-128gsm
Process Speed		Bookletmaking from DC-10/60 collator: Max:5,000 booklets/h Bookletmaking from DSF-2000 sheetfeeder: Max:120sheets/min.
Finished Size	Booklet	Bookletmaking from DC-10/60 collator: Max:350x250mm / 13.8x9.8" Min:120x75mm / 4.7x2.9" Bookletmaking from DSF-2000 sheetfeeder: Max:320x225mm / 12.6x8.9" Min:148x75mm / 5.8x2.9"
	Side/Corner stitch	Side/corner stitching from DC-10/60 collator: Max:B4, Legal Min:B5LEF Side/corner stitching from DSF-2000 sheetfeeder: Max:B4 Min:B5LEF:
Number of bins		2 bin (DSF-2000 Sheet Feeder) 10 Bin (DC-10/60 Suction Collator)*Up to 20 bin (2 towers)
Bin Capacity		DC-10/60 bin:60mm / 2.4" DSF-2000 Top tray:200mm / 7.9" DSF-2000 Lower tray:60mm / 2.4"

Staple/Stitch type		Wire stitch
Number of stitcher heads		2 (4 optional)
Stitch Capacity	Saddle stitch	25sheets (250gsm x 1 sheet + 81.4gsm x 24sheets)
	Side/Corner stitch	50sheets (81.4gsm)
Trimming Size (DBM-500T Face Trimmer)	Fore-edge	Max:25mm / 1.0" Min:1mm / 0.04" *Max up to 75mm / 2.9" depending on conditions
Power Supply		100-240V, 50/60Hz
Dimensions (WxDxH)		7465x700x1972mm / 293.9x27.6x77.6" (System dimensions with 2 x DC-10/60 collators)
Weight		1479Kg / 3258lb (System weight with 2 x DC-10/60 collators)
System Configuration & Dimensions (WxDxH) for each module		DSF-2000:1100x750x1015mm / 43.3x29.5x40.0" LDR:690x625x725mm / 27.2x24.6x28.5" DC-10/60:725x780x1972mm / 28.5x30.7x77.6" LUL-HM:620x460x965mm / 24.4x18.1x38.0 DBM-500:1610x865x1300mm / 63.4x34.1x51.2" DBM-500T:635x700x1095mm / 25.0x27.6x43.1" DBM-LS1:1360x384x816mm / 53.5x15.1x32.1"
Options		4 head kit (4 stitches), DBM-K Kicker (batch booklets), Barcode kit (sheet/set integrity, variable), DCM-kit (anti static bar & air knife)
Other Functions		Optical mark recognition, Sheet invert, Miss/double feed detection, Insert mode, Block mode, Manual feed, Left or right exit selection, Paper rejection, LCD center control panel, Jam clearance accessibility, Side/corner stitch catch tray, External skew adjustment, Inserting loose sheet into booklet, Straight or offset stacking

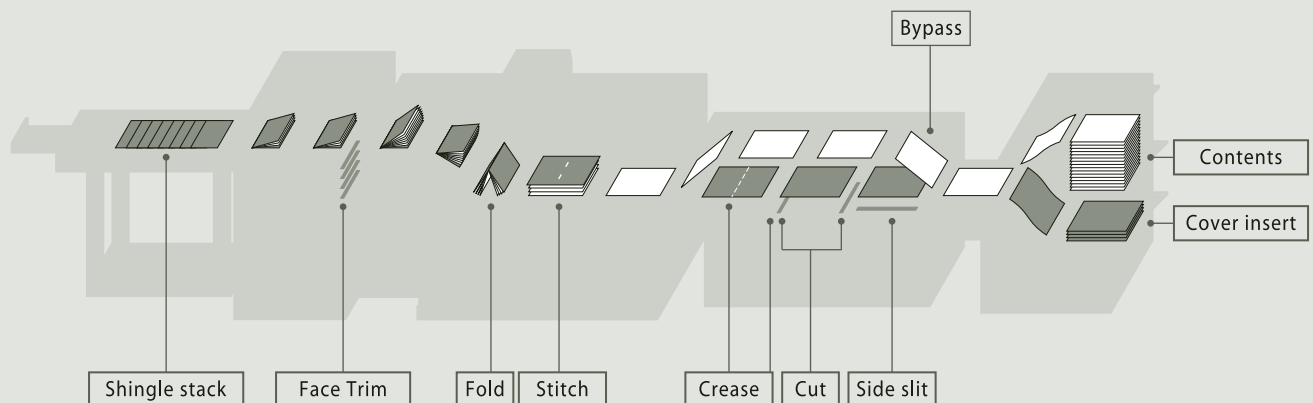
SCC [Slit/Cut/Crease] Bookletmaking System

Bookletmaking solution for pre-collated digital output
(Mid-high volume)

DBM-LS1, DBM-K



SCC Process Workflow



The oversized papers are fed through the slitting, cutting and creasing units, while the finished-size papers are transported via a by-pass section to the accumulation section of the bookletmaker. After the entire set is re-integrated there, with the oversized papers now the same format as the finished size papers, the set is stitched, folded and face trimmed to provide a full-bleed bookletmaking solution.

Features & Benefits

- Unique in bringing a slit/cut/crease function to the *near-line bookletmaking process.

*Near-line...refer to page 8 "What is near-line?"

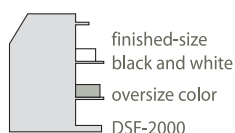
- The SCC (Slit/Cut/Crease) module side-slits and trims the top and trailing edge of each sheet, eliminating the need for guillotine cut.

- "Image drift" can be corrected by providing accurate full bleed trim which is registered by a CCD camera to the image.



CCD camera

- The SCC module can crease the cover, the cover and innermost sheet or all the sheets in the booklet so that image cracking on the fold-line is prevented.



- For jobs where color and black and white output is to be combined, the DSF-2000 sheetfeeder is equipped with two feed trays, so that one can be loaded with oversize color output from one digital press and the other with finished-size black and white output from a different digital device.

Please see the paper flow graphic on the left.

- Control from PC is possible with optional software.



PC controller

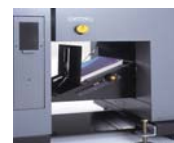
- The DSF-2000 can read the end-mark on the last sheet of the set to check the set has desired number of sheets, ensuring the set-sheet integrity. When the end-mark is seen, a cover can be fed (or not) from the cover feed tray.

- Optional bar code reader for the DSF-2000 reads the bar code which instructs the DSF-2000 from which tray to feed and when to send the end of set signal to the bookletmaker. It can be used for the sets of fixed and variable number of sheets. It helps not only to ensure sheet-and set-integrity but also brings the variable printing into the finishing area.



Bar code reader

- Changes between jobs are done at a touch of a button, helping to reduce the downtime and greatly reduce wasted booklets during set-up.



- Corner/Side stitching job is also possible.

Corner/Side Sticking job

- The whole system ensures easy access to papers in case of jam.

Basic Specifications		SCC System	
Paper Size (WxL)		Max:320x500mm / 12.6x19.7"	Min:148x200mm / 5.8x7.9"
Paper Type		Cover:Bond 64-250gsm,Art/Coated 85-157gsm Contents:Bond 64-128gsm,Art/Coated 85-128gsm	
Process Speed		Max: 60sheets/min. (Slit & Crease)	25sheets/min. (Slit, Cut & Crease)
Finished Size	Booklet	Max:320x250mm / 12.6x9.8"	Min:120x75mm / 4.7x2.9"
	Side/Corner stitch	Max:B4	Min:B5LEF
Number of bins		2 bin (DSF-2000 Sheet Feeder)	
Bin Capacity		Top tray (Contents):200mm (7.9")	Lower tray (Cover):60mm (2.4")
Staple/Stitch type		Wire stitch	
Number of stitcher heads		2 (4 optional)	
Stitch Capacity	Saddle stitch	25sheets (250gsm x 1sheet + 81.4gsm x 24sheets)	
	Side/Corner stitch	50sheets (81.4gsm)	
Trimming Size	Side Slit	4 - 25mm / 0.16 - 1.0"	
	Cross Cut	Top edge:4 - 25mm / 0.16 - 1.0"	Trailing edge:5 - 25mm / 0.2 - 1.0"
Power Supply		100-240V, 50/60Hz	
Dimensions (WxDxH)		5984x865x1300mm / 235.6x34.1x51.2"	
Weight		1011kg / 2227lb	
System Configuration & Dimensions (WxDxH) for each module		DSF-2000:1100x750x1015mm / 43.3x29.5x40.0"	
		SCC:1320x610x810mm / 52.0x24.0x31.9"	
		DBM-500:1610x865x1300mm / 63.4x34.1x51.2"	
		DBM-500T:635x700x1095mm / 25.0x27.6x43.1"	
		DBM-LS1:1360x384x816mm / 53.5x15.1x32.1"	
Options		PC control software, Barcode kit (sheet/set integrity, variable),	
		DCM-kit(anti static bar & air knife), 4 head kit (4 stitches),	
		DBM-K Kicker (batch booklets)	
Other Functions		Registration mark recognition, Optical mark recognition,	
		Sheet invert, LCD center control panel, Jam clearance accessibility,	
		Side/corner stitch catch tray, External skew adjustment	