

150C BOOKLET SYSTEM

UNIQUELY COMPACT AND HIGHLY PRODUCTIVE

Fully automated bookletmaking system

Quick and simple set-up

Speed up to 2400 books per hour

Bi-directional running

Modular

*Menus, Brochures, Catalogues, Newsletters, Corporate Reports,
Hymn Books, Order of Service, CD Booklets, collated work for binders
i.e.: wire; coil; ring binding, Loop stitched brochures for ring binders, NCR set collating*



Duplo's 150C Booklet System is a uniquely compact and highly productive system. It is the perfect solution for fully automatic collating and booklet making. The 150C Booklet System can incorporate up to 2 DSC-10/20 towers in-line with the 150 bookletmaker and trimmer. This system is extremely user-friendly and is ideal for processing low to mid volume jobs effectively and efficiently. It is designed to meet the challenges of today's offset and digital printer.



Compact footprint

The 150C Booklet System is 13% smaller than its predecessor the 120C Suction Booklet System. Moreover, the DSC-10/20 collator is Duplo's heavy duty yet compact suction collator. The small footprint of the 150C Booklet System makes it easy to install in places with limited space. The 150C Booklet System is an ideal companion for low to mid volume users such as Quick printers, Copy shops, In-plants, Digital printers and Commercial printers. Despite its small size, this system can finish a wide range of applications.

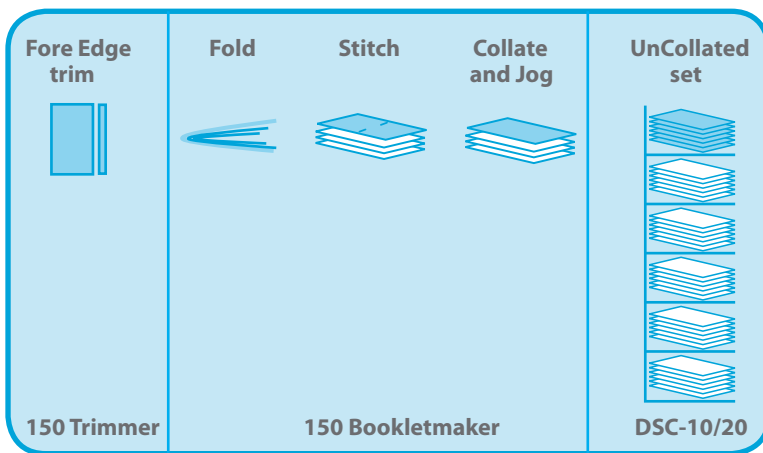
Superior Feeding

The DSC-10/20 collator has a dual fan technology with 2 independently adjustable fans in each bin. The first fan provides even air separation through 3 nozzles located at the front of the stack, while the second fan generates a vacuum for the belt suction feeder. The Air Management System enables the operator to easily fine tune the amount of air desired for each independent bin. The DSC-10/20 dual fan technology provides resilience in the unlikely event of a fan malfunctioning. If a fan does fail, the other 9 bins remain completely unaffected, allowing the user to continue working.

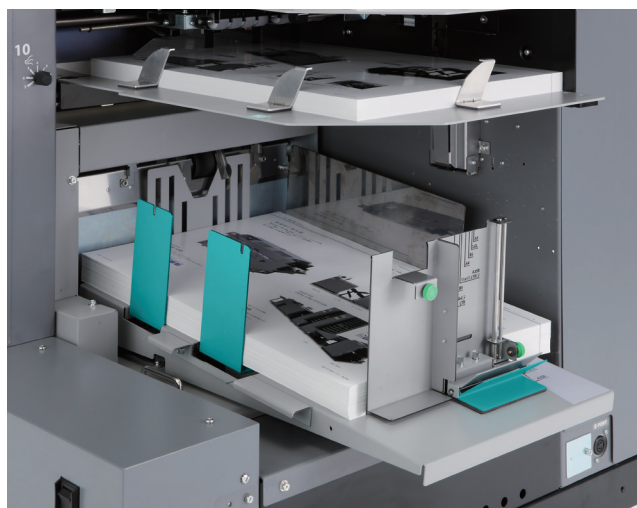
Double Feed Detection

The DSC-10/20 is equipped with high resolution optical sensors that ensure a miss or a double feed error is identified. The software utilises light emitting sensors to accurately detect when two or more sheets are being fed. The faulty sets are automatically diverted to the reject tray enabling continuous operation. Faulty sets once corrected can be simply reused or can be inserted by hand.

Booklet Making Process



Colour touch screen



Optional stacker



Optional bridge unit



Media

The 150C Booklet System can finish a wide range of applications. It can handle sheet sizes from 139mm x 210mm to 320mm x 450mm and paper weights from 64gsm to 300gsm.



User-friendly

The DSC-10/20 collator features a touch screen control panel, whereas the DBM-150 & DBM-150T features a state of the art control panel which is very simple and easy to use. The operator can set up a job in four simple steps. Overall the 150C Booklet System is an extremely user-friendly bookletmaker which requires very little training.

Automatic set-up

The booklet size on the 150C Booklet System can be changed without any tools and takes only a few seconds. Simply select the required size and the guides and trimming position adjust automatically. If required, the operator can adjust the stapling position manually.

Finishing modes

The 150C Booklet System can finish side stapling, corner stapling and fold saddle stapling applications. It is also possible to produce fold only applications.

Bi-directional Running

The DSC-10/20 collator can run to the left into the bookletmaker or to the right into the stacker. For NCR or a perfect binding job the user has a choice of two either the DCR-ST Criss cross stacker, which is suitable for high volume stacking job, or the DSC-10/20 stacker which can be integrated into the collator for straight or offset stacking.



Speed

The 150C Booklet System can produce up to 2400 books per hour. The DSC-10/20 can also collate up to 7200 sets per hour.

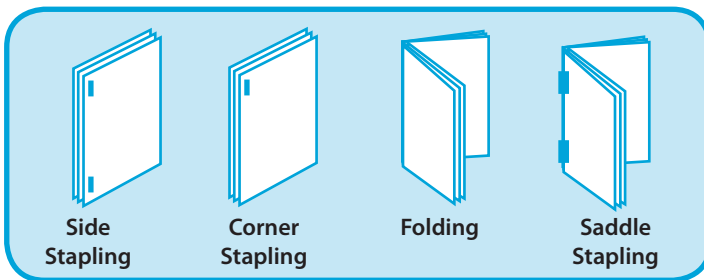
Trimmer

The DBM-150 T is fully automatic and is programmed from the DBM-150. The operator can adjust the trimming position from 1 to 20mm.

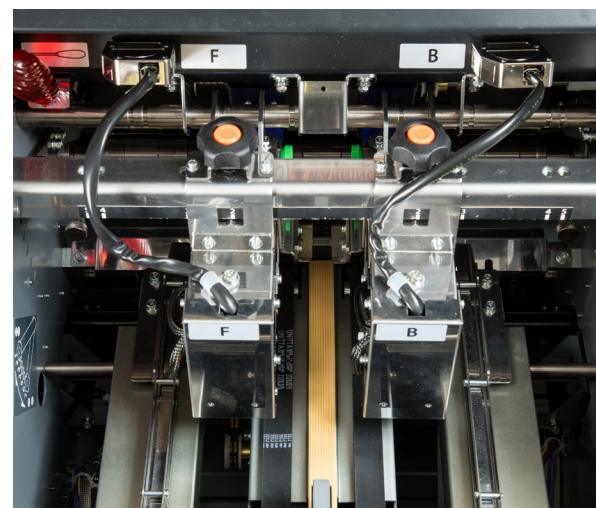


Modularity

This highly modular system can be customised according to the end users needs, allowing them to configure and expand as their demands change. The 150 Bookletmaker and Trimmer can be configured to the DSC-10/20, DSF-2200 and DFC-100.



DBM-150 Hand feed



DBM-150 Staple Heads

Specifications

DBM-150, DBM-150T

| | | |
|---|--|----------------------|
| Booklet size | Saddle stapling and folding | Length 210 to 450 mm |
| | Side stapling (option) | Length 180 to 231 mm |
| Paper type | Fine quality: 64 to 127.9gsm, Art/Coated: 104.7 to 127.9gsm Cover: Fine quality, Art/Coated within 300gsm | |
| Stapling Thickness | Fine Quality: within 2.5mm (Maximum of 25 sheets) Art/Coated: within 2.0mm (Maximum of 20 sheets) | |
| Max processing speed | 2400 sets/hour | |
| Stapler | ISABERG RAPID R952 | |
| Stapling width | 70, 108, 160, 258, and 276mm | |
| Trimming waste width | 1 to 20 mm | |
| Number of sheets that can be trimmed | 4 to 50 sheets | |
| Staple capacity | 5,000 staples per cartridge | |
| Detecting function | Paper jam (in-feed section, stopper section, ejecting section), Staple near empty, Corner and Side Staple Kit detection, Cover open/close, Knife stop position error, Motor overload detection, Folding roller gap | |
| Operation panel | LCD control panel (DBM-150) | |
| Noise emission | Equivalent continuous A-Weighted sound pressure level: 75.2 Sound Pressure level: 92.5 (measured at 1m away from the control panel, 1.5m from the floor) | |
| Power supply | 120 to 240 V 50/60 Hz | |
| Current consumption | DBM-150: 130W 1.2-0.7A DBM-150 + DBM-150T: 230W 2.2-1.1A | |
| Net Weight | 137kg | |

DSC-10/20 Suction Collator

| | |
|---------------------------|--|
| Number of Bins | 10, 20 |
| Bin Capacity | 35 mm |
| Detection | Double-feed, Miss feed, Paper jam, Bin empty |
| Speed | Collating - up to 7,200 sets per hour*1 |
| Feed System | Vacuum belt with air sheet separation |
| Other Features | Colour touch screen control panel; Block mode; Waiting mode; Interleaving sheet insertion; Hand-marry unit |
| Dimensions (LxWxH) | 745(W) x 780(D) x 1708(H) mm |
| Power Consumption | 230V 50Hz 4.5A |
| Net Weight | 293 kg |

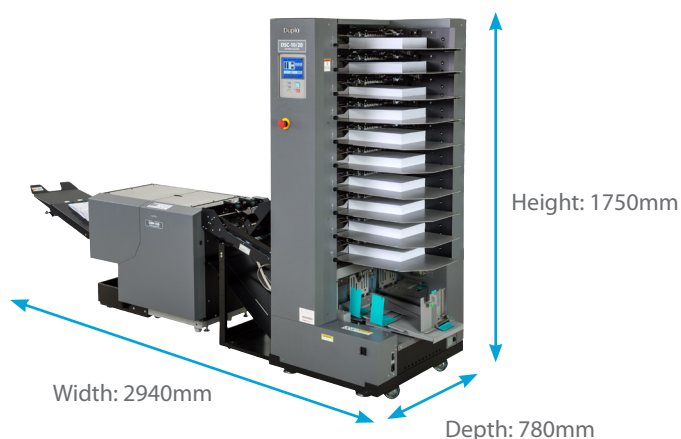
Corner and Side Staple Kit

| | |
|-------------------------------------|---|
| Paper Size | 200x180 - 320x231mm |
| Number of sheets | Fine quality 2 - 25 sheets (81.4gsm, A4SEF or LTR) Art, Coated 2 - 20 sheets (127.9gsm, A4SEF or LTR) *2 |
| Maximum thickness of booklet | Fine quality 2.5mm *3 Art, Coated 2.0mm *3 |
| Processing speed | 2,400set/h (A4 or LTR, 81.4gsm, 10 sheets) |

*1 Dependent upon connected devices and number of bins in use

*2 There are restrictions for quantity of stitch when using cartridge by paper with regards to weight and number of sheet.

*3 There are restrictions by paper weight. The maximum number of sheets must not be exceeded. With optional small booklet kit



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