

PERFECT BINDING MADE EASY

DPB-500 PERFECT BINDER



- Quick and easy setup and changeover
- Single operator design for greater productivity
- Automatic book thickness detection for side glue & cover scoring
- Designed specifically for short to medium runs & variable data productions

The high speed and precision engineering of the DPB-500 Perfect Binder makes it the most productive and cost-efficient perfect binder in its class. The fully automatic and single clamp design allows output of up to an impressive 525 cycles per hour.

AUTOMATION AND INTEGRATED CONTROLS

The user-friendly touchscreen control panel simplifies operation and provides many useful features to augment production. An easy-to-use touchscreen monitor allows the operator to quickly adjust, program, and save up to 20 different jobs. Such state-of-the-art automation reduces set-up time and cost and requires minimal operator skills, making the DPB-500 ideal for short run and variable data productions.

VERSATILE PERFORMANCE

The DPB-500's flexible performance accommodates a variety of different print environments, including medium volume offset printers, digital and hybrid print environments, the print-on-demand sector, high volume in-plant facilities, government agencies, and specialty finishing houses.

Changing from one size to another is as quick and easy as a push of a button. Simply select one of the stored memories, load the book into the clamp, and press the Size Change key to initiate the size change process. The side glue wheels, scoring wheels, and cover positioning guide will automatically move into the desired position, according to the thickness of the loaded book.

EXCEPTIONAL COVER FEEDING

Once the size change is completed, covers can be loaded into the Cover Feed section which has controls that give the operator the ability to make and verify any fine adjustments

aligning it with the Nipping section. Equipped with the most technologically-advanced, reliable, and proven vacuum belt feeding system in the industry, the DPB-500 Cover Feed section is incorporated with a sensor to detect miss- and double-feeds and various cover types.

SIMPLE, DEPENDABLE OPERATION

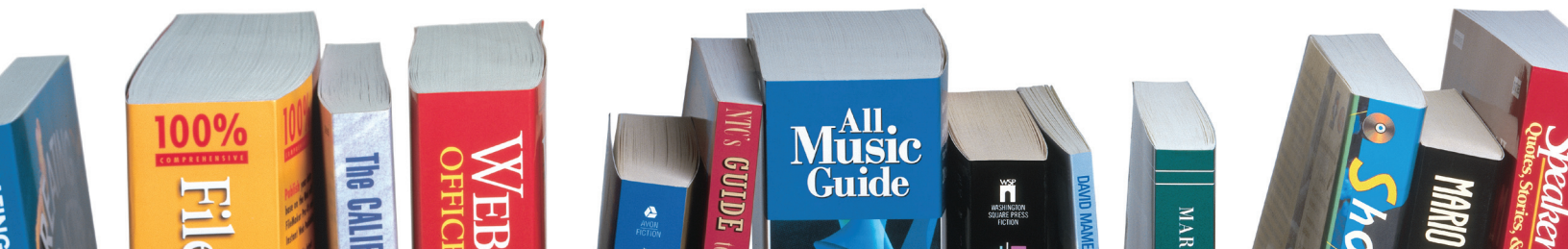
The DPB-500 is ready for operation once the size change occurs, covers are loaded, and the Cover Feed section is adjusted. The DPB-500 can operate in two modes. The Normal Mode is utilized to bind books of the same thickness; the Variable Mode is designed for jobs requiring the ability to run various book thicknesses, as the scoring and side glue wheels are automatically adjusted. The DPB-500 can bind books of various thicknesses as easily as books of the same thickness by simply loading the clamp and pressing the start button.

With its unique automation, the DPB-500 is ideal for the on demand market because it can accommodate book thicknesses from 0.04" to 2.01" (plus cover thickness) automatically.

SAFE AND CLEANLY OPERATION

The design of the DPB-500 provides the user with the safest and cleanest working space possible. Interlocked covers guard against the possibility of injuries caused by contact with internal parts. A powerful dust extractor is included to remove paper waste keeping the system clean. A built-in exhaust fan assists in removal of fumes. The book loading area is protected by a safety light curtain.

Solid construction and state-of-the-art automation make the DPB-500 built to last through all your perfect binding demands.



DPB-500 PERFECT BINDER



COVER FEEDER

The operator can make fine adjustments directly from the cover feeder controller without having to access the main control panel.



COVER FEEDER SENSOR

The automatic vacuum cover feeder is equipped with sensors to detect miss- and double-feeds.



CONTROL PANEL

The touchscreen control panel allows for quick adjustments and programming.



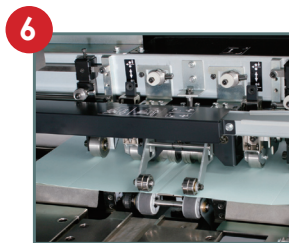
BOOK CARRIAGE

The clamp is automatically and accurately adjusted to the inputted book thickness. The mechanical clamping system secures clamping of the book block for accurate milling and binding on books up to 2.01" thick. The book block information also automatically sets the nipping and hinge scoring station accurately to the size of the book.



GLUE POT

The DPB-500 features a large glue tank with two heated glue drums, two side gluing wheels, and a scraper that evens the glue layer. The gluing cut off can also be controlled to avoid glue overflow at the end of the spine.



IN-LINE SCORING

Standard, hinge, and optional wing scoring capabilities allow for versatile applications.



MILLING STATION

Accurate spine preparation is ensured by a strong mill and two notching tools that can handle cut sheet and signature folded blocks.



DELIVERY STATION

Books are stacked vertically to keep book spines neatly square.

SPECIFICATIONS

Book Size

Book Block	
Binding Thickness	1 to 51 mm (0.04" to 2.01") + cover thickness
Size	120 mm x 120 mm (4.72" x 4.72") to 360 mm x 320 mm (14.17" x 12.6")
Type	Single- and double-folded sheets
Paper Type	Fine: 52 to 157 gsm Art/coated: 79 to 157 gsm

Cover

Feed Method	Belt suction
Size	120 mm x 250 mm (4.72" x 9.84") to 360 mm x 696 mm (14.17" x 27.4")
Paper Curl	5 mm (0.2") or less R60 or more
Paper Type	Fine: 81.4 to 302 gsm Art/coated: 104.7 to 302 gsm
Stack Height	70 mm (2.76")

Speed

525 cycles per hour*

Milling

Up to 4 mm (0.16")

Roughening

2 pieces

Gluing

Thickness	0.5 to 2.25 mm (0.02" to 0.09")
Drum	2 + spine meter roller
Side Glue	Roller method
Glue Cutting	Solenoid-driven
Warm-up Time	Approximately 30 minutes

Scoring

Number of Scores	4 (up to 6 with optional wing)
Depth Adjustment	Manual non-stop adjustment
Ream Weight	157 gsm or more

Nipping

Manual non-stop height adjustment

Stacker Capacity

Up to 200 mm (7.87")

Noise Emission

90 dB or less

Ratings

3.2 kw 8A/single-phase

Dimensions (LxWxH)

109.84" x 36.54" x 52.87"

Weight

1,529 lbs.

Power Requirements

Three-phase 208V, 240V 60Hz

Option

Wing scoring

* Varies upon book thickness 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®

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