

# DuBINDER

## DPB-500

PERFECT BINDING ON-DEMAND

Fully automatic set up  
Tool less operation  
Fully programmable  
Quality cost efficient book production



**The high speed and precision engineering of the DuBinder DPB-500 makes it the most productive and cost-efficient perfect binder in its class. The fully automatic and single clamp design allows a cycling speed of 525 books per hour.**



#### **Suction Cover Feed**

The A.M.S (Air Management System) ensures that each cover is accurately fed without marking. The cover is then presented automatically onto the nipping table. An illuminated line indicates to the operator the correct crease position on each cover.



#### **Creasing**

The 4 creasing tools are accurately positioned automatically from the touch screen. The optional 'Wing' creasing tool provides for flaps to both the front and the back of the cover.



#### **Secure Book Production**

The Dubinder DPB-500 includes sensors within the book clamp that measure each book thickness and compare the number of pages with the correct version. Incorrect books are then presented back to the operator to be corrected before binding can recommence. This feature provides huge savings on labour and expensive re-printing costs.

#### **Milling / Notching**

A heavy duty motor and high speed steel milling and notching tool ensure that an accurate and flat spine is prepared prior to gluing. Up to 4mm can be removed from the spine when folded sections are being produced.

#### **Glue application**

The 3 glue cylinders offer pre-gluing, coating and surplus glue removal. Variable glue length is automatically controlled via the touch screen. The 2 side gluing discs automatically adjust for each book thickness, whilst a low level warning indicates to the operator when the tank needs replenishing.

## **User friendly operation**

One of the DuBinder's key attributes is its easy-to-use integrated controls, which allow the device to achieve a book-bound quality without the need of a skilled operator.

A simple and easy to use touch screen allows the operator to select from one of the 20 job memories. The system's range of inbuilt features such as the double cover detector and the book thickness sensor ensure it operates with utmost precision and accuracy at all times, which ultimately reduces wastage.

## **Reduced make-ready**

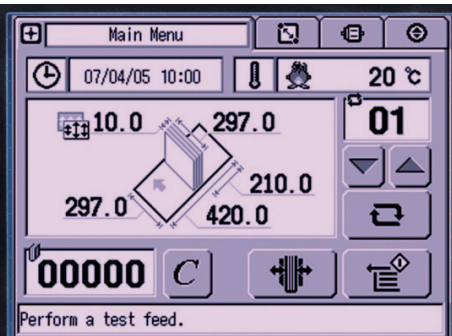
Installing and accessing information can be done simply via the touch screen monitor, from which the machine can process a stored job within thirty seconds, significantly reducing makeready times.

## **Accurate cover feeding**

The DuBinder's suction belt cover-feed provides a smooth and accurate delivery of the cover to each book every time. Four scoring accessories move in pairs according to the spine width so that the hinge is always in the correct location on the front and rear covers. Cover sheet sizes range from 360 x 696mm and 120 x 250mm. The optional wing crease tool is available for the production of flaps to both the front and back of the cover.

## **Professional results**

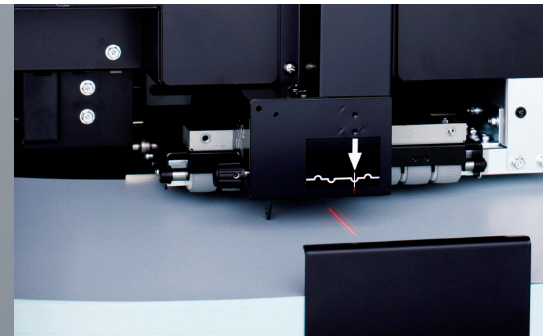
Duplo's DuBinder is a simple to use, single-clamp system that produces a strong bind and quality results. It creates a sleek and professional look on a range of applications including books, directories, manuals and magazines, and can successfully handle output from both offset and digital devices.



Touch screen display



Integral book stacker



AMS suction cover feed with score indicator



### Delivery

The built-in stacker ensures that a neat and unmarked book is perfectly presented onto its spine. A 200mm capacity allows for continuous production, and a 'Stack Full' sensor indicates to the operator when the books need to be removed.



### Touch screen display

A user friendly and simple to operate touch screen control panel allows the operator to program each job and store them in one of the 20 job memories. Each job can then be simply recalled for future use.



### Daily and weekly timer

A daily/weekly timer function is provided to allow the operator to simply program the start of each shift. This operation provides for a time saving of 30-40mins which in turn leads to an increase in productivity.

## Extensive range of book sizes

The DuBinder is capable of binding a wide range of materials with a maximum booklet size of 360 x 320mm and minimum size of 120 x 120mm.

## Productivity through full automation

The DuBinder offers state-of-the-art automation, which in turn leads to a reduction in set-up times and costs, making it perfect for short run and variable print. The DuBinder can be programmed automatically to accommodate a range of specifications, including book thickness, side gluing and creasing, cover guides and press position.

As well as offering economical and efficient short runs, the DuBinder's highly productive cycle speed of up to 525 books per hour makes it suitable for longer run lengths.

## Optimised ergonomics

Finished material is presented back at the operator's loading table, allowing greater productivity, efficiency and optimised ergonomics.



### Paper dust

All paper dust is safely and cleanly removed by an external heavy duty motor and collection bag. When full the bag can simply be removed and all waste paper emptied into a suitable container.



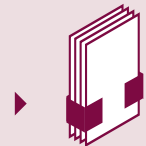
### Options

A range of options include Wing scoring tools, Long conveyor (Model DPB-LS) and Bar code readers for both the book block and covers.

### Binding process



Book blocks are loaded into the clamp



Books are clamped and automatically measured for thickness



Each cover is automatically positioned and delivered and scored in 4 positions or 6 positions with the optional wing score tool.



Milling and Notching



Glue is accurately applied to both the sides and spine of the book



Books are presented into the nipping table



Covers are centre registered or using a pre entered measurement.



Finished Product



Covers are automatically scored and presented onto the nipping table



Glue drums with automatic side gluing and glue cut off control



Optional long delivery conveyor

|                                       |                                                                   |
|---------------------------------------|-------------------------------------------------------------------|
| <b>Book thickness:</b>                | Min 1 mm Max 51 mm<br>+ cover thickness                           |
| <b>Book size (spine × fore-edge):</b> | Max 360 mm × 320 mm<br>Min 120 × 120 mm                           |
| <b>Cover size:</b>                    | Max 360 × 696 mm<br>Min 120 × 250 mm                              |
| <b>Cover weight:</b>                  | 80-302 gsm                                                        |
| <b>Cover Pile height:</b>             | 70 mm                                                             |
| <b>Cycling speed:</b>                 | 525 books/hr *                                                    |
| <b>Delivery:</b>                      | Internal vertical stacking tray                                   |
| <b>Stacker capacity:</b>              | 200 mm                                                            |
| <b>Side gluing:</b>                   | Automatic side gluing wheels                                      |
| <b>Book clamps:</b>                   | 1                                                                 |
| <b>Programs:</b>                      | 20                                                                |
| <b>Score tools:</b>                   | 4 ( 2 inverted) **                                                |
| <b>Screen:</b>                        | Touch screen control                                              |
| <b>Waste extraction:</b>              | External motor & dust<br>collection bag                           |
| <b>Counters:</b>                      | Total                                                             |
| <b>Warm up time:</b>                  | 30 - 40 mins                                                      |
| <b>Glue operating temperature:</b>    | 120- 200°C                                                        |
| <b>Milling depth:</b>                 | Max 4mm Min 0.5mm<br>6 manual steps 0, 0.5, 1.0, 2, 3,<br>4mm *** |
| <b>Notching tools:</b>                | 2                                                                 |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Book accuracy:</b>    | +/- 0.1 mm on cover and nipping stations                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Features include:</b> | Automatic set up of:-<br>1 Book thickness<br>2 Side gluing discs<br>3 Nipping guides<br>4 Cover registration guides<br>5 Scoring tools (4)<br>6 Glue cut off<br>(back /front of the book) <ul style="list-style-type: none"><li>- Double cover detector</li><li>- Light beam score position</li><li>- Programmable Pre- melter</li><li>- Out of cover detector</li><li>- Automatic page detection sensor</li><li>- Automatic Cycle</li></ul> |
| <b>Dimensions:</b>       | 928(D) × 2790 (W) × 1343(H)mm                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Weight:</b>           | 695Kg                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Noise emissions:</b>  | 90db or less                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Power supply:</b>     | 3 phase 415v 50-60Hz + earth + neutral                                                                                                                                                                                                                                                                                                                                                                                                       |

\* Cycling speeds. The cycle speed of 525 books/hr is not a true indication of productivity. Various factors will affect productivity . Carriage speed; Nipping times; Loading/Off loading and Curing times.

\*\* Scoring tools. The minimum book thickness with scoring is 3mm

\*\*\*Milling Depth. The Milling/Notching tool cannot be lowered to below the "0" position. The motor cannot be switch off or lowered and therefore the milling wheel will always be in contact with the book block.

## Options

## Wing crease tools

DPB-LS long delivery conveyor for increased productivity

2 bar code readers providing total book security

(1) For the cover

(2) For the book block

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



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