



DB-280

Desktop Perfect Binder

Duplo USA Corporation proudly introduces the DB-280 Perfect Binder.

Inside:

- Introduction
- Features & Benefits
- Operation
- Specifications & Competitive Comparison
- FAQ's & Product Codes



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Duplo USA Corporation has experienced much success with its popular perfect binding line of equipment. When its entry-level DB-250 perfect binding solution was first introduced, its automation was the key to its success. As the market changed, we found that customer's needs in terms of applications and paper requirements were changing as well. With that in mind, Duplo has decided to introduce a new and improved version of the DB-250, which is the DB-280.

The DB-280 is priced and designed as a compact, entry-level single clamp perfect binder, but its fully featured capabilities, automation, and productivity levels extend far beyond expectations making it an extremely feature-rich, competitive binder. The DB-280 Perfect Binder offers new features such as tape and case binding and also comes equipped with a dust extractor which extracts paper dust from the notching area.

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PRODUCTIVITY

The DB-280 has a cycling speed of 360 cycles/hour which will in turn allow an experienced operator to produce up to 200 books per hour.

USER-FRIENDLY DISPLAY

The DB-280 is equipped with a simple operating panel and LED, for single operator use. This control panel is extremely easy to understand and operate. The menu guides the operator through the entire binding process.



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MULTIPLE BINDING METHODS

The DB-280 offers four types of binding methods:

- Perfect Binding - Binding loose sheets with a cover wrapped around the spine.
- Padding - Binding loose sheets together with or without a front and/or back cover. *In this case, the notching function is automatically turned off but can be activated.*
- Tape Binding - Binding loose sheets with a strip of tape (spine thickness 30 mm max).
- Case Binding - Binding loose sheets directly onto the hard cover. *In these cases, the DB-280 notches the sheets before applying the glue along the spine. Then, a hard cover is added.*



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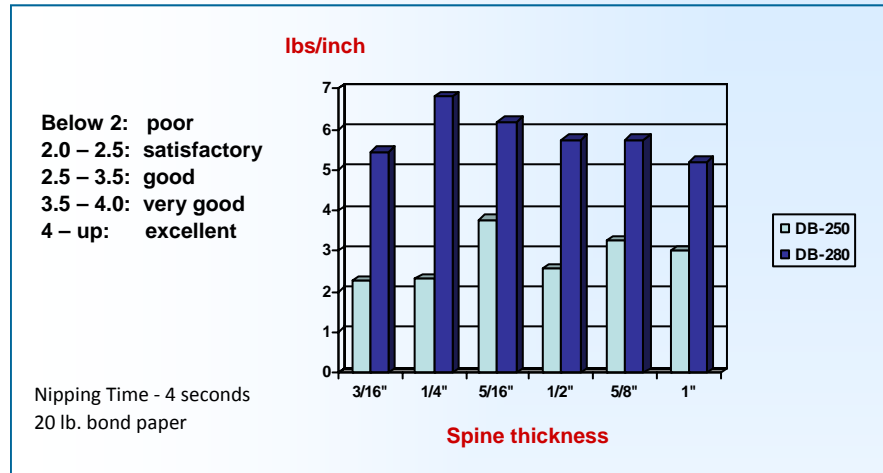
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INCREASED PERFORMANCE

The notching, nipping, and clamping process of the DB-280 combined with the newly formulated glue, provides a tough, square, long lasting bind that would satisfy any customer's needs.

Spine Strength DB-250 vs. DB-280



Notching The binding process includes a double pass over the unique notching system to ensure excellent glue penetration. The DB-280 now uses a thicker notching blade that will cut deeper and wider notches into the book block to enable the glue to seep deeper into the grooves which will in turn create a stronger bind.



Dust Extraction During the notching process, paper dust is created and immediately removed by the unique dust extraction system. This ensures that the machine will remain clean at all times.

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INCREASED PERFORMANCE *continued*

Glue The DB-280 Perfect Binder uses a specially formulated EVA glue that will create a stronger bind and allow the binding of a wider range of paper types and weights. This glue has been tested on some coated papers and has proven to have a stronger bind than that of the previously used DB-250 glue. By using this new type of glue and with the addition of the second glue applicator drum, the DB-280 ensures a stronger bind and a quality finish.



Nipping The DB-280 uses a uniquely designed nipping mechanism that applies powerful nipping pressure and produces a square and precise book spine of professional quality. The nipping table presses the wrap-around cover or tape on all three sides of the spine to ensure perfectly square spines every time.



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**WARM-UP, STAND-BY, AND SELF TEST**

The DB-280 has a quick warm-up time of about 20-25 minutes, with a display on the LED indicating the status of the glue warm-up time.

Should the DB-280 need to be left idle for a period of time, simply select the stand-by option to lower the glue temperature and avoid burning and deteriorating the glue. When ready to use again, simply release it from stand-by mode at the touch of a button and within five to eight minutes, the machine will be ready to bind again.

During the initial warm-up or after stand-by, once the glue temperature has reached the ideal operating temperature, the DB-280 automatically performs a self test, stirring the glue in preparation for operation, at which point the display will indicate "Ready."

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EASE OF OPERATION

The DB-280 can be set to run automatically or manually. When in Auto mode, the full benefits of the DB-280 can be realized through the automation of the clamping, release, nipping and binding functions with minimal user intervention and maximum productivity.

Manual Binding (recommended for the first bind)

Ensure "*Manual*" is selected (this is the default setting).

Press *Open*. Place the pages in the clamp.

Press *Close*.

Press *Start*. The clamp moves to the left and is notched once across the spine. Place and center the cover in the nipping station.

Press *Start*. The clamp begins to return to the nipping station and is notched a second time. The glue is then applied. At the nipping station, the cover is pressed onto the book block.

Press *Open*. When "Ready" is displayed, the operator presses "Open" to open the clamp and remove the book.



Either soft or hard covers can be loaded onto the nipping station. Once the cover is centered, the clamp holding the book block returns to the nipping station, the cover is applied, and the spine is formed.

2-Step Automatic Binding (for automatic binding of books of equal thickness)

Assuming the first bind has been processed manually as above.

Ensure "*Automatic*" is selected. (Notching will automatically be turned ON.)

Place the pages in the clamp.

The clamp closes automatically and moves left and is notched once in the process.

Place and center the cover in the nipping station. (Note: The clamp station remains on the left side until the cover is in place. This is determined by the cover sensor being covered.)

The clamp then begins to move back to the right and is notched a second time. Then the glue is applied to the spine and the cover is then pressed onto the block in the nipping station.

The DB-280 clamp opens automatically for the removal of the book and waits for the insertion of the next unbound book block.

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EASE OF OPERATION *continued*

4-Step Padding (for binding without a cover sheet)

1. Press *Pad*. The “Notch” LED is normally un-activated when “PAD” is pressed but can be activated if required.
2. Press *Open*. Place the pages in the clamp. Press *Close*.
3. Press *Start*. The clamp moves to the left and back to the right. Glue is ONLY applied as the clamp is traveling to the right back to the nipping station.
4. Press *Open*. The DB-280 will indicate “Ready” at which point the user presses the “Open” button to open the clamp and release the padded book.

Tape Binding

Install tape binding brackets onto the nipping station.



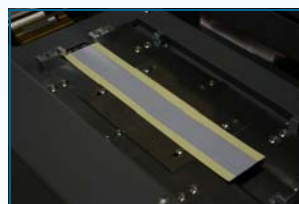
Select “Tape” on the control panel. “Tape Mode” is displayed.

Press *Open*. Place the pages in the clamp.

Press *Close*.

Press *Start*. The clamp moves to the left and is notched once across the spine.

Load a tape and center it in between the attached tape guides.



Press *Start*. The clamp begins to return to the nipping station and is notched a second time. The glue is then applied. At the nipping station, the tape is pressed onto the book block.

Press *Open*. When “Ready” is displayed, the operator presses “Open” to open the clamp and remove the book.

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EASE OF OPERATION *continued*

Case Binding (for creating hard cover books)

The DB-280 has the capability to bind both soft and hard cover books with little adjustment. A few things are needed:

1. Hard Covers — Duplo does not supply hard covers.
2. Adhesive End Sheets — Duplo will only offer sheets to make LTR-size finished books.

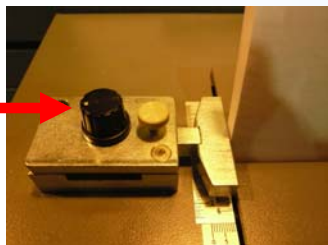
Step 1: Load paper into the clamp section as usual.



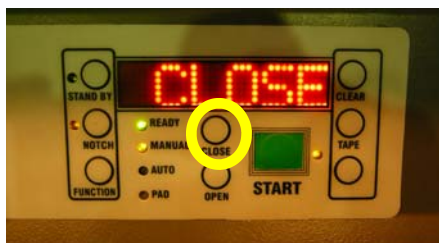
Step 2: Adjust the block position in order to center the book using the adjustment dial.

Home position is at 9 o' clock—this setting is used when making regular **soft cover books**.

Set position to around 12 o' clock—this adjustment is used to center the book block onto the **hard cover**.



Step 3: Close the clamp to lock the book block into place by pressing the close button.



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EASE OF OPERATION case binding continued

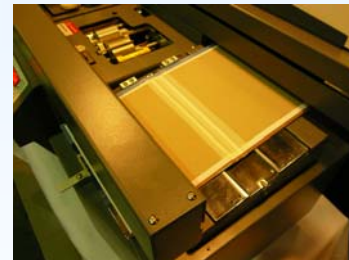
Step 4: Press the Start button to start the bookmaking process.



Step 5: Load the hard cover onto the nipping station. The book block will not return until the cover is loaded.



Load the hard cover



Press Start to return the clamp and bind the block to the cover.



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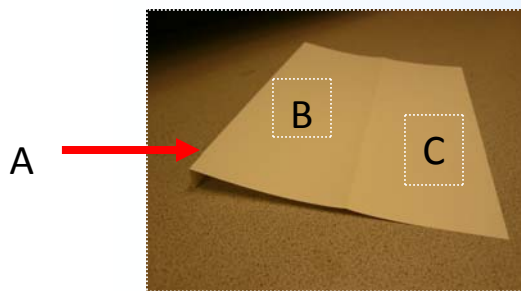
EASE OF OPERATION case binding continued

Step 6: Apply the adhesive end sheets to the front and back covers.

Book after binding but without adhesive end sheets.



Adhesive 8.72" x 11" end sheet — item number: AAB-DB280LABEL



Please note that each adhesive end sheet is divided into three sides (A, B, C) The actual lining is split into three in order to make the sheet easier to apply.

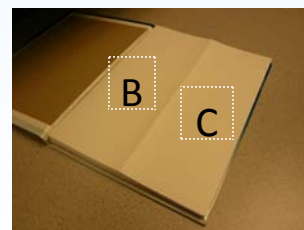
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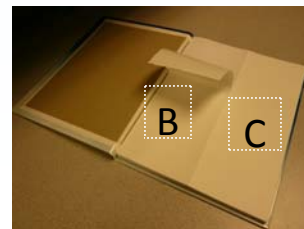
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Lay the end sheet down onto the book. Note that side A is folded down. At this point, the side A lining should be removed and side A should be carefully placed along the spine of the book.



Peel back the lining for side B. Close the cover so that the adhesive sheet is evenly applied to the hard cover.



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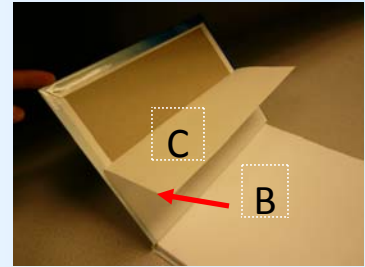
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EASE OF OPERATION *case binding continued*

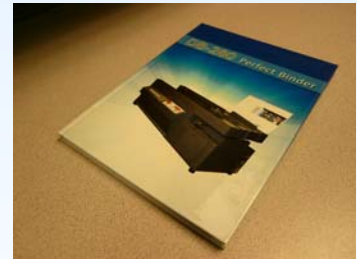
Open the cover and peel the Side C lining. At this point, side B is already applied on the hard cover.



Press down Side C and repeat the process for the back cover.



Finished book.



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	Duplo USA DB-280	Horizon BQ-150	Comments
Type	Automatic Single Clamp, Tabletop	Electrical Single Clamp, Floor model	
Max Book Size (Spine L x H)	12.6" x 15.75"	15.7" x 11.8"	
Min Book Size (Spine L x H)	3.15" x 1.97"	2.7" x 5"	
Max Cover Size (L x W)	12.6" x 33"	15.7" x 24.4"	
Cover Insertion	Manual	Manual	
Max Bind Thickness	1.6"	1.1"	The DB-280 can bind a book that is 30% thicker than that of the Horizon.
Glue Warm-up Time	25 minutes	20 minutes	Even though the Horizon binder warms up five minutes faster, the additional applicator drum provides better bind quality.
Cycle Speed	360 cycles/hr	N/A	
Production Speed	200 books/hr	180 books/hour	The DB-280 can operate at speeds up to 200 books/hr when operating in auto mode. This will allow maximum productivity.
Adhesive Type	EVA	EVA	The NEW DB-280 glue has been tested using a wide range of paper types including a variety of digital papers.

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	Duplo USA DB-280	Horizon BQ-150	Comments
Operation Modes	Pad Mode Tape Mode Cover Mode	Pad Mode Tape Mode Cover Mode	
Glue Applicator	2 glue applicator drums	1 applicator drum	The DB-280 has a second glue applicator drum that ensures deep glue penetration for maximum cover adhesion.
Dust Extraction	Standard	Standard	
Stand-by Mode	Standard	N/A	When in Stand-by mode, the glue temperature lowers to avoid the burning and deterioration of the glue.
LED Display	Standard	N/A	The DB-280 display is easy to read and user friendly, advising the operator of the machine status at every stage.
Error Detection Display	Standard	N/A	
Power Requirements	110v, 60Hz, 15A	120v, 60Hz, 11.4A	
Machine Dimensions W x D x H	49.2" x 22" x 18.5"	54" x 20" x 40"	The DB-280 is a tabletop model and is ideal for locations where space is limited.
Machine Weight	262.3 lbs	441 lbs	

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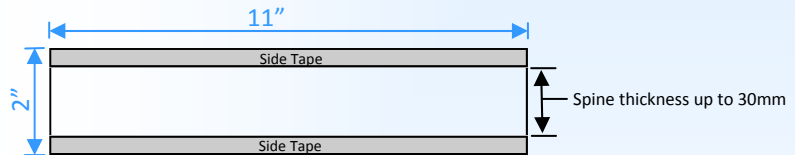
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Frequently Asked Questions

- 1) What are the main differences between the DB-250 and the DB-280?
The new DB-280 has several added features. The DB-280 has the ability to case bind, perfect bind, pad bind, and tape bind. Also, with the addition of the extra glue applicator drum and the wider notching blade, the bind quality is improved.
- 2) Has the DB-250 been discontinued?
Yes, the DB-250 has been discontinued
- 3) Will Duplo supply the glue, adhesive sheets, tape, and hard covers for the perfect binder?
Duplo will only supply the glue, tape, and adhesive sheets. Below is a diagram that shows the recommended tape specifications. The customer will have to find their own source for hard covers.

Duplo USA Spine Tape Specifications — Part # AAB-DB280TAPE



Note: The 30mm glue represents the maximum book thickness.

- 4) Does the DB-280 come with a dust extraction system?
Yes, a dust extraction system is included in the selling price.

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Product Code	Description
DB-280	Tabletop Perfect Binder
AAG-DB280GLUE	Cool bind glue for DB-280 Perfect Binder
AAB-DB280LABEL	Self-adhesive 8.72" x 11" label end sheets (100 sheets, good for 50 books)
AAB-DB280TAPE	Spine Strip Tapes for DB-280 (100 strips)

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