

Specifications

Maximum Book Size	320 mm (spine length) x 400 mm
Minimum Book Size	120 mm (spine length) x 50 mm
Maximum Cover Size	320 mm (spine length) x 750 mm (using ruler guides for cover alignment) 320 mm x 840 mm (using centre marks for cover alignment)
Maximum Binding Thickness	40 mm
Glue Warm-up	30 minutes
Glue Warm-up in Stand-by Mode	5 minutes

Cycle Speed	Up to 360 cycles per hour
Production Speed	Up to 200 books per hour
Notching & Roughing	Double pass
Operation Modes	Pad, tape, cover
Standard Features	Stand-by mode, LED display, error detection display
Power Source	220/240V, 50Hz/10A
Dimensions (WxDxH)	1,300 mm x 560 mm x 470 mm
Weight	143 kg

Duplo[®]
from print to documents

DB-290 PERFECT BINDER

PROFESSIONAL PERFECT BINDING IN A COMPACT UNIT

Single operator machine
Up to 200 books per hour
User-friendly control panel
Two separate glue tanks

Soft cover books, Tape bound books, Note pads



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Duplo has a policy of continuous improvement
and reserves the right to amend the above specification
without prior notice

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.



Ref: DB290/08/17

The user-friendly automatic perfect binder DB-290 brings professional perfect binding to your desktop. This compact machine is the ideal solution for short-run and on-demand printing applications.



Easy to Operate

Achieve a book-bound quality without the need of a skilled operator, the LED display panel guides the operator through the entire binding process.



Control Panel

The DB-290 provides an ergonomic control panel for single-operator efficiency. Electronic operation and a clearly marked LED display ensure more precise settings, while a quick push of a button converts the machine for padding jobs.



Strong Bind

The DB-290 features two separate glue tanks, one for the main drum and one for the separate side gluing feature. Combination tooling allows effective spine preparation, resulting in a more durable bind.



Stand-by Mode

Avoid lengthy start-up times by selecting Stand-by mode, this feature lowers the temperature of the glue, preventing it from burning and deteriorating. This feature provides real peace of mind should there be any interruptions in production. The DB-290 also maintains the quality of the glue by performing a self-test, stirring the glue in preparation for operation.



Notching - Roughing

The binding process includes a double pass over the unique notching system to ensure excellent glue penetration. The DB-290 uses a spine preparation disk fitted with a combination of wide notching blades and smaller cutting tools. The notching blades cut deep and wide notches into the book block, enabling the glue to penetrate further into the paper, while the smaller roughing blades break up the surface fibres across the surface of the spine. The combined effect is to create a strong bind. In addition, dust extraction is included as standard (collection not provided).



NEW Side Gluing

This is an advantageous feature compared to other binders with only a drum for spine gluing, or with wires to apply side glue. The side gluing is performed by wheels with their own dedicated glue tank, allowing the operator to use a formula of adhesive that dries quickly and firmly supports the shape of the book. The glue in the main tank can then be a formula that takes longer to cure, giving more time for the adhesive to thoroughly penetrate into the spine. This combination creates improved glue application and adhesion, resulting in a better bind and squarer books.



Nipping Station

The DB-290 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 on all three sides of the spine to ensure perfectly square spines every time.



Multiple Applications

The DB-290 is able to produce an array of applications. Soft cover binding, tape binding and padding can all be created with a quick push of a button.



Automated Operation

The DB-290 can be set to run automatically or manually. When in Auto mode, the full benefits of the DB-290 are shown through the automation of the clamping, release, nipping and binding functions with minimal user intervention and maximum productivity.



Convenience

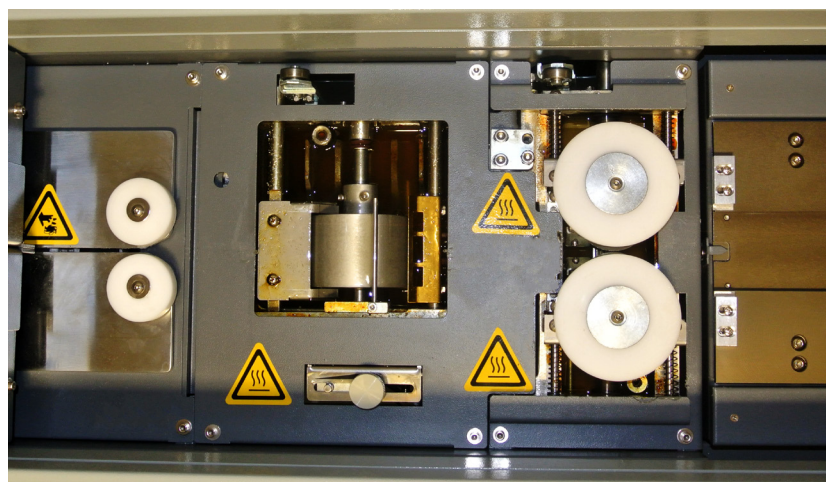
For maximum efficiency, the DB-290 features a cover detection sensor at the nipping station, this ensures that the clamp will not travel back to the nipping position until the cover stock is in position. For added convenience the operator has the option to preset the nipping and clamping time.



Perfect Binding
Binds loose sheets with a cover wrapped around the spine

Tape Binding
Binds loose sheets with a strip of tape

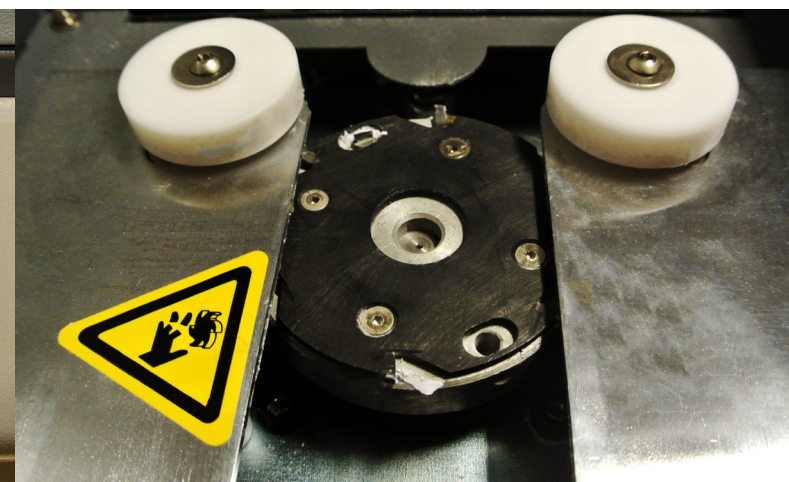
Padding
Binds loose sheets together on the spine without notching



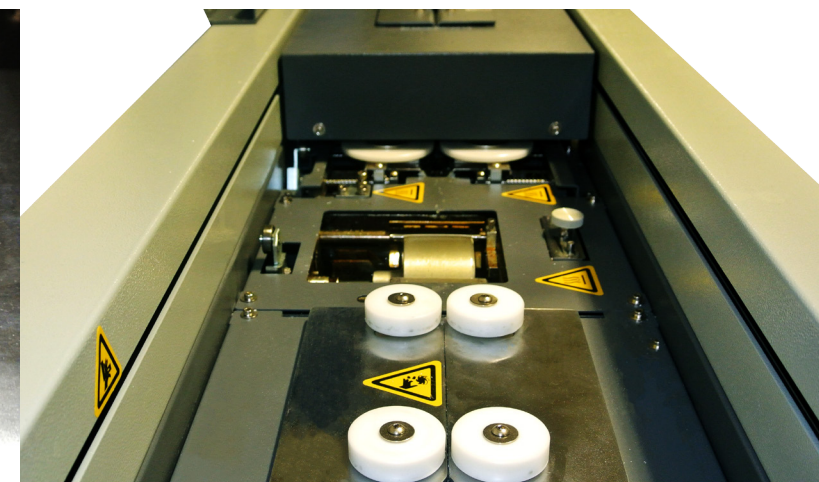
Two different glue tanks for a stronger bind



User-friendly control panel



Notching/ roughing



DB-290