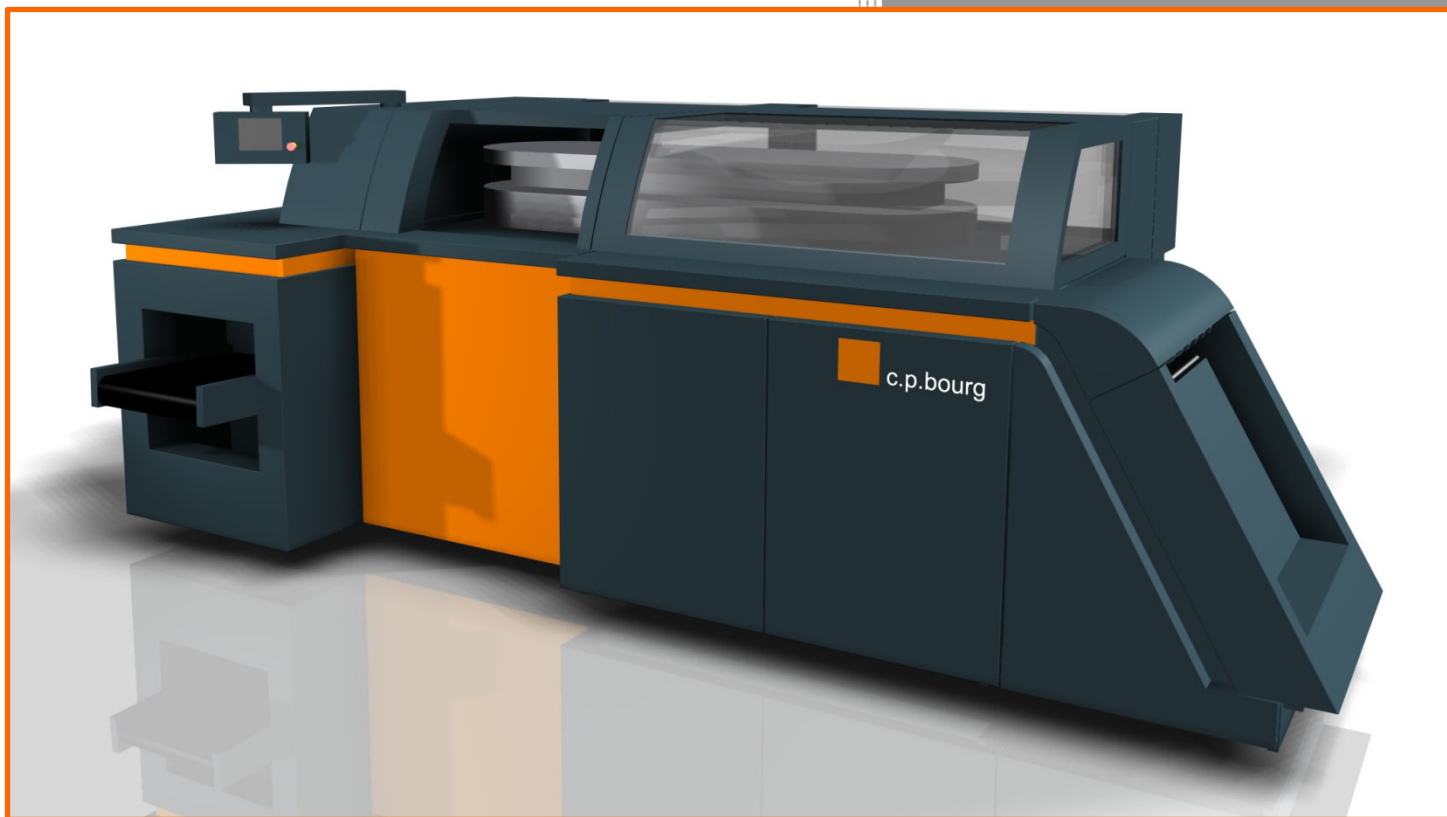




BB4040A

CP BOURG – BB4040 AUTOMATIC



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CP BOURG - 4040 AUTOMATIC – Overview

Fast format changes and make-ready - The professional four clamp adhesive binder for producing booklets in editions up to 10,000 copies.

Product Profile

- Extensive automation for fast make-ready.
- Combination tool (milling, notching, roughening, brushing) for optimum spine preparation.
- Optional Innovative PUR nozzle system for maximum binding quality.
- Vertical cover feeder with integrated scoring unit and on-the-fly loading.
- Fully automated cover pressing station with settable pressing time.
- Lift-type delivery with integrated grippers for gently conveying products to the downstream belt delivery.



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CP BOURG BB4040 AUTOMATIC - Features

The CP BOURG BB4040 AUTO enables speeds up to 1,300 cycles per hour. Its highlights include a spine preparation station that is unique in this class, powerful suction removal of dust and debris, automatic spine and side gluing length control, a driven disk-type side gluer, a vertical cover feeder with integrated double scoring unit, and a high-quality lift-type delivery with grippers.

The innovative design ensures outstanding ergonomics. All of the guard hoods permit easy access to the machine. The CP BOURG BB4040 AUTO runs continuously and the pressing time is flexible and can be varied to suit each product, and consistent top-quality adhesive binding with precise shaped spines is guaranteed.

The hotmelt and PUR versions can both be extended to create a CP BOURG BB4040 AUTO line by adding a custom-assembled cooling section and a TRIM4040. This inline concept also lets you efficiently produce small editions of adhesive-bound booklets, including trimming on three sides.

1. **Clamps and Block Infeed** - The clamp opening width of the CP BOURG BB4040 AUTO is automatically set to the appropriate value.
2. **Central Touchscreen** - All required format and production parameters are entered using the touchscreen.
3. **Spine Preparation** - The outstanding spine preparation station consists of a newly developed combination tool with exchangeable dust cutters.
4. **Glue Application** - The hotmelt adhesive tank of the CP BOURG BB4040 AUTO is equipped with two spine gluing rollers.
5. **Vertical Cover Feeder with Scoring Station** - The cover feeder can be loaded on-the-fly to a maximum pile height of about 150 millimetres
6. **Cover Nipping Station** - The format set up of the cover nipping station works completely automatically.
7. **Delivery** - Integrated grippers with adjustable clamping pressure make sure that the books are gently conveyed.

CP BOURG BB4040 AUTOMATIC - Clamps and Block Infeed

The clamp opening width of the CP BOURG BB4040 AUTO is automatically set to the appropriate value. Sensors at the book feed station ensure reliable operation as each book is fed to the clamp. A jogger (settable via the touchscreen) precisely aligns the book before the clamp is pneumatically closed.

CP BOURG BB4040 AUTOMATIC - Central Touchscreen

All required format and production parameters are entered using the touchscreen. All values that depend on the book's thickness are automatically calculated and set. Complete automatic setting of the cover pressing station is also possible.

The graphical touchscreen display uses symbols to facilitate entering all required data and seamlessly monitor production. It also integrates additional functions such as pre-heating timer for the gluing unit, a copy counter and other production and error information.

CP BOURG BB4040 AUTOMATIC - Spine Preparation

The outstanding spine preparation station consists of a newly developed combination tool with exchangeable dust cutters, height-adjustable roughening and notching teeth and a ring brush. The counterblade features adjustable and easily exchangeable individual inserts. Dust is optimally suctioned out of the milling housing.

The height-adjustable roughening teeth ensure effective exposure of the paper fibers. Especially with critical papers, for instance highly coated substrates, this translates into significantly better-quality binding. The height adjustable notching tools enlarge the surface area for the hotmelt adhesive. This optimally prepares the sheet edges and strengthens the resulting bond.



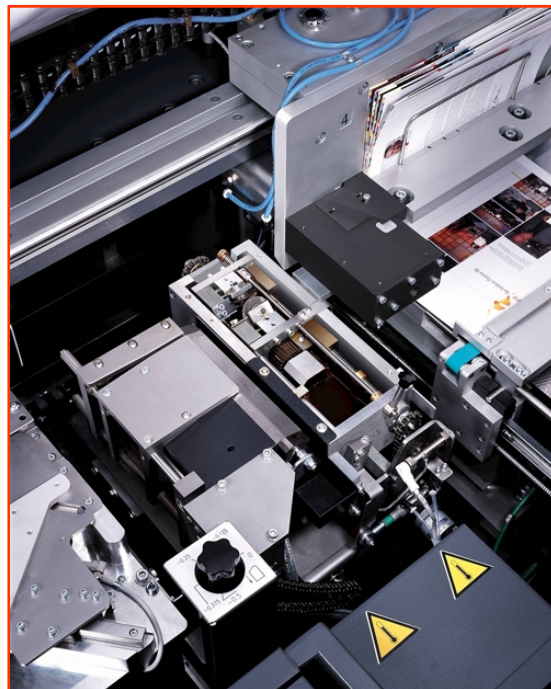
CP BOURG BB4040 AUTOMATIC - Glue Application

Glue Application - Two Optional Technologies, Hotmelt or PUR

The hotmelt adhesive tank of the CP BOURG BB4040 AUTO is equipped with two spine gluing rollers and a counter-rotating height-adjustable and separately heated spinner roller for smoothing the adhesive. Side gluing is done by oblique disks. The spine and side gluing lengths can be precisely controlled. Pre-melters can be optionally added to additionally boost productivity.

The innovative PUR application system of the CP BOURG BB4040 AUTO PUR works by the volumetric principle, i.e. independently of the adhesive's viscosity, temperature and pressure. Its special nozzle supports the application of an extremely even, low-viscosity film of adhesive - thus ensuring that exactly the same amount of adhesive is applied to each book.

The system of the CP BOURG BB4040 AUTO PUR is easy to set up and boasts efficient adhesive use, precise stopping and starting, and a separate hotmelt side gluer. The Pre-melter and nozzle are easy to clean. There's no need to halt production to melt down a fresh stick of PUR. The temperatures on the melting plate, in the tank, in the supply and return hoses, and in the nozzle head are separately controllable.



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CP BOURG BB4040 AUTOMATIC - Vertical Cover Feeder with Scoring Station

The cover feeder can be loaded on-the-fly to a maximum pile height of about 150mm. High-quality scoring is ensured by separately driven, one-piece shafts and easy setting of the scoring depth on the left and right. Wide rubber wheels precisely and reliably advance the covers. The magazine stops can be set to the cover format.

Options

- Miss and Double sheet detection.
- Scoring wheels with different geometries.
- Disengageable scoring wheels.

CP BOURG BB4040 AUTOMATIC - Cover Nipping Station

The format set up of the cover nipping station works completely automatically. The nipping time length is also adjustable via touchscreen. Book blocks thickness from 2mm to 45mm are processable. The nipping station runs automatically during production.

CP BOURG BB4040 AUTOMATIC - Delivery

Lift-type Delivery with Integrated Grippers

Integrated grippers with adjustable clamping pressure make sure that the books are gently conveyed - an important aspect, especially with soft, PUR-bound products. Even difficult product combinations, e.g. with thin paper for the inside pages and a stiff cover, are dependably and gently carried to the belt delivery.



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CP BOURG BB4040 AUTOMATIC - Technical Specifications

Performance

Mechanical 1300 cycles/hour

Clamps

Number of clamps 4

Opening and closing Automatic

Binding

Book block width 120-300 mm

Book block height 145-360 mm

Book block paper weight 60-170 gsm

Book block thickness 2-45 mm

Cover

Cover width 242-680 mm

Cover height 145-370 mm

Cover weight 120-300 gsm

Milling attachment

Milling depth 0 to -3mm

CP BOURG BB4040 AUTO hotmelt gluing unit

Hotmelt tank for spine adhesive

Two application rollers for spine gluing

1st application roller, height-adjustable.

Glue temperature Adjustable up to 210°C

Side gluing - By oblique disks.

Electronically controlled starting and stopping of spine gluing - Settable on touchscreen.

CP BOURG BB4040 AUTO PUR nozzle application system

Adhesive temperature Zonally controllable

Electronically controlled starting and stopping of spine and side gluing Settable on touchscreen

Height adjustment of PUR nozzle 0-0.5 mm

Disk-type side gluer Separate

Cover feeder

Vertical

Continual loading

With 2- or 4-way scoring

Pile height depending on material Up to 150 mm

Cover nipping station

Automatic during production

Pressing time settable at control console

Central Touch Screen

Error indication

Production information

Copy counter

Job management

Delivery

Lift-type delivery with grippers

Belt delivery with single stacker

Power supply in Europe and Africa

400 V, 50 Hz, 3 Phase + N +PE / 18 A (20 A) / 9.9 KVA

Power supply in USA

220 V, 60 Hz, 3 Phase + PE / 25 A (25 A) / 7.6 KVA

Compressed air supply

Working pressure 6 bars

Compressed air consumption 510 NI/min (free of oil and water)

Machine dimensions of CP BOURG BB4040 AUTO

Length × width × height 4,085 x 2,565 x 1,455 mm

Machine weight approx. 2,500 kg

Machine dimensions of CP BOURG BB4040 AUTO PUR

Length × width × height 4,085 x 2,565 x 1,455 mm

Machine weight approx. 2,500 kg (5,512 lbs)

Dimensions of PUR Pre-melter 830 x 360 x 883 mm

Weight of PUR Pre-Melter ca. 250 kg