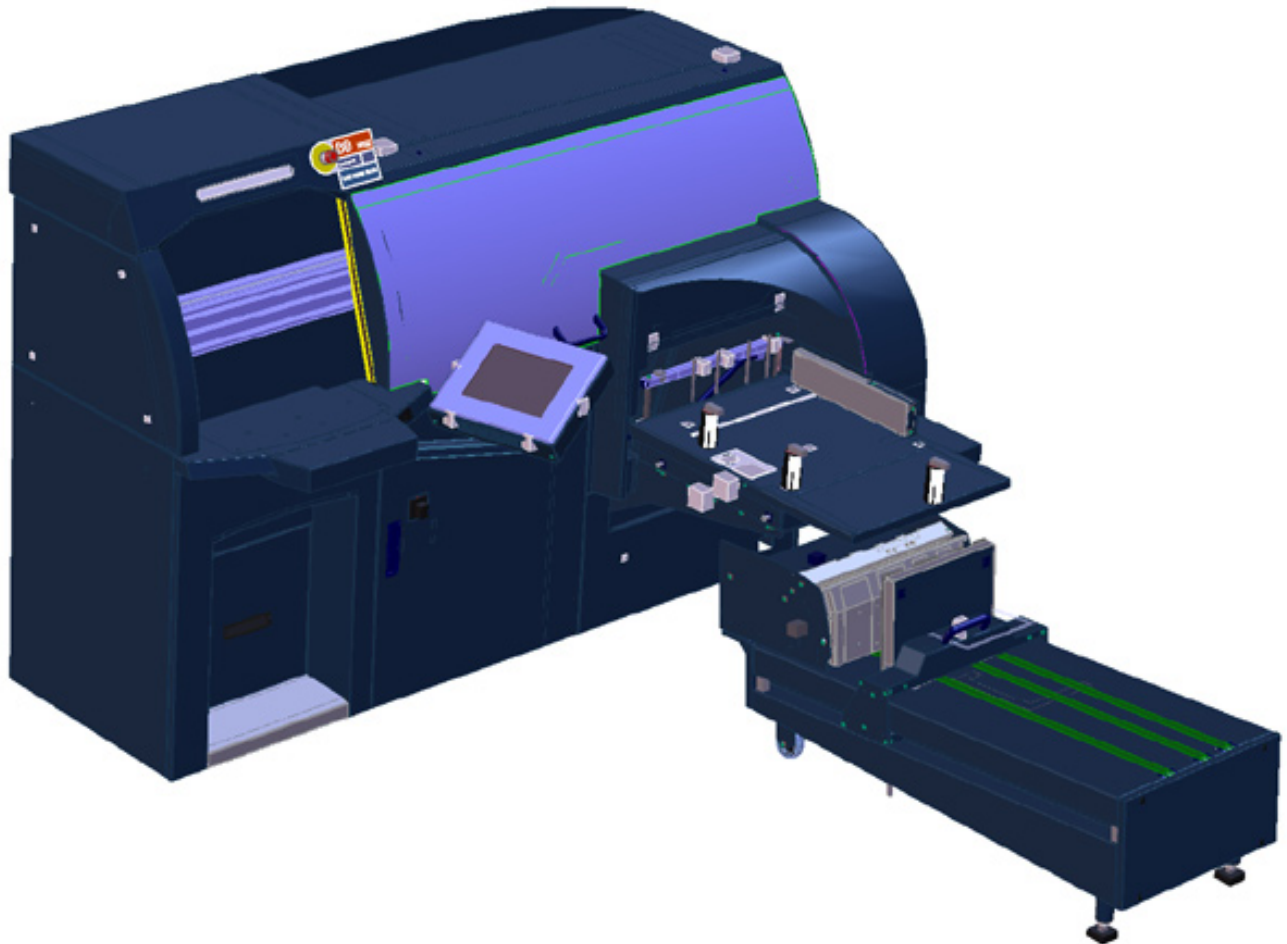


BOURG BINDER 3002



OPERATOR MANUAL

 **c.p. bourg** S.A.
is
EURO-QUALITY SYSTEM



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1. INTRODUCTION

1.1 Foreword

On behalf of everyone at CP Bourg, we would like to thank you for choosing a BOURG product and to congratulate you on your choice.

The **BOURG Binder 3002** is a single-clamp thermal binder designed to produce glued books.

This manual is a guide to the use of the BB3002 binder.

Follow the instructions carefully, and you should obtain years of excellent service from your book finishing system.

If you have any difficulty using your equipment, please contact us at the addresses given at the end of the manual to ask for technical assistance. We will be delighted to help.

1.2 Safety information

Read the safety instructions carefully before using your equipment.

This manual contains all the information you need to use your thermal binder safely.

Pay particular attention to the warning notices on the machine. They indicate places presenting particular risks, and advise you to take the appropriate precautions.

All the details contained in this publication are based on the most recently available information at the time of going to press.

We reserve the right to modify the content of this publication.

1.3 Warning pictograms

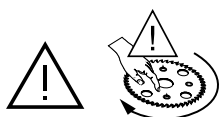
Please pay special attention to the description of the following pictograms :



This label is located near the wheel-work of the chain. It indicates a high risk of injury to your fingers if they get stuck between the wheel-work and the chain.



This label is located near the glue tank and near the valve for the draining of the glue tank.
It indicates a high burning risk if you touch the hot glue.

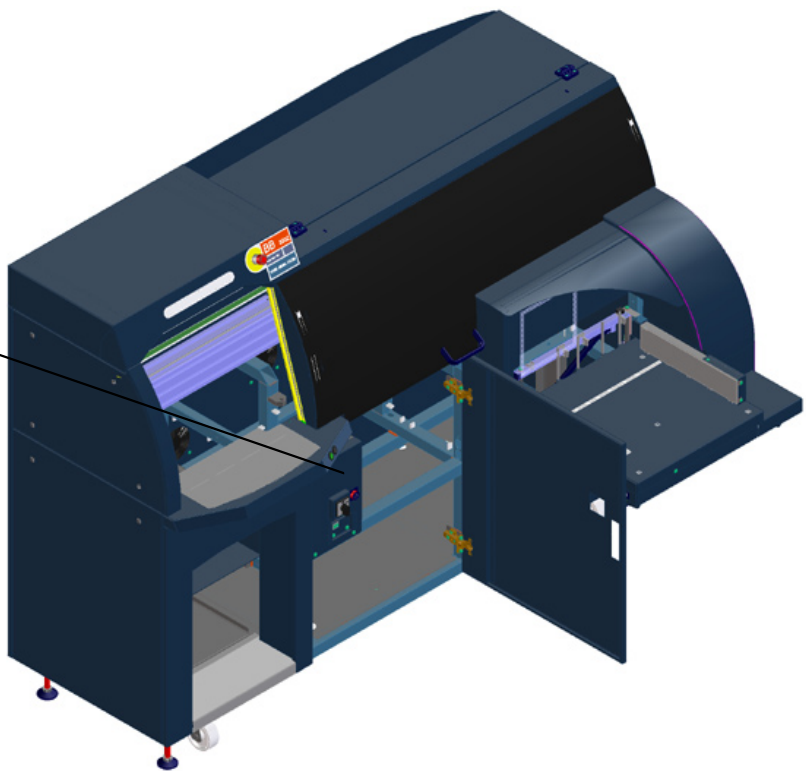
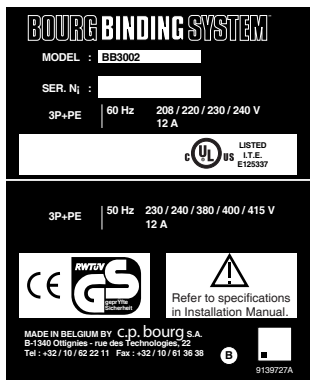


This label is located near the milling blade. It a high risk of injury to your hands if you touch indicates the rotating tools

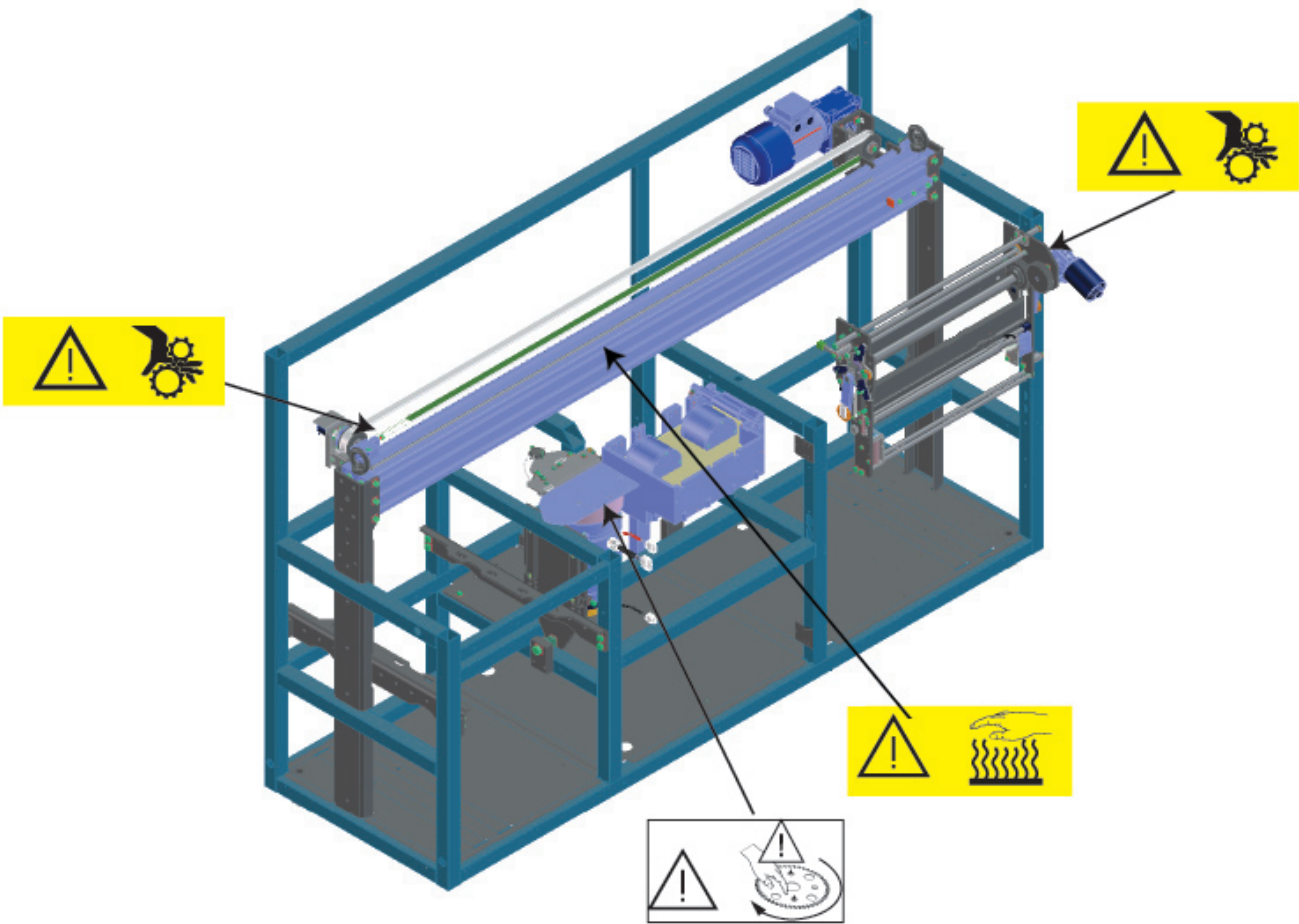
ATTENTION : These safety alert symbols are for your personnal safety. Never operate without all safety covers in place.

An emergency stop switch (red) located on the top cover allows the operator to stop the machine at any time or any incident.

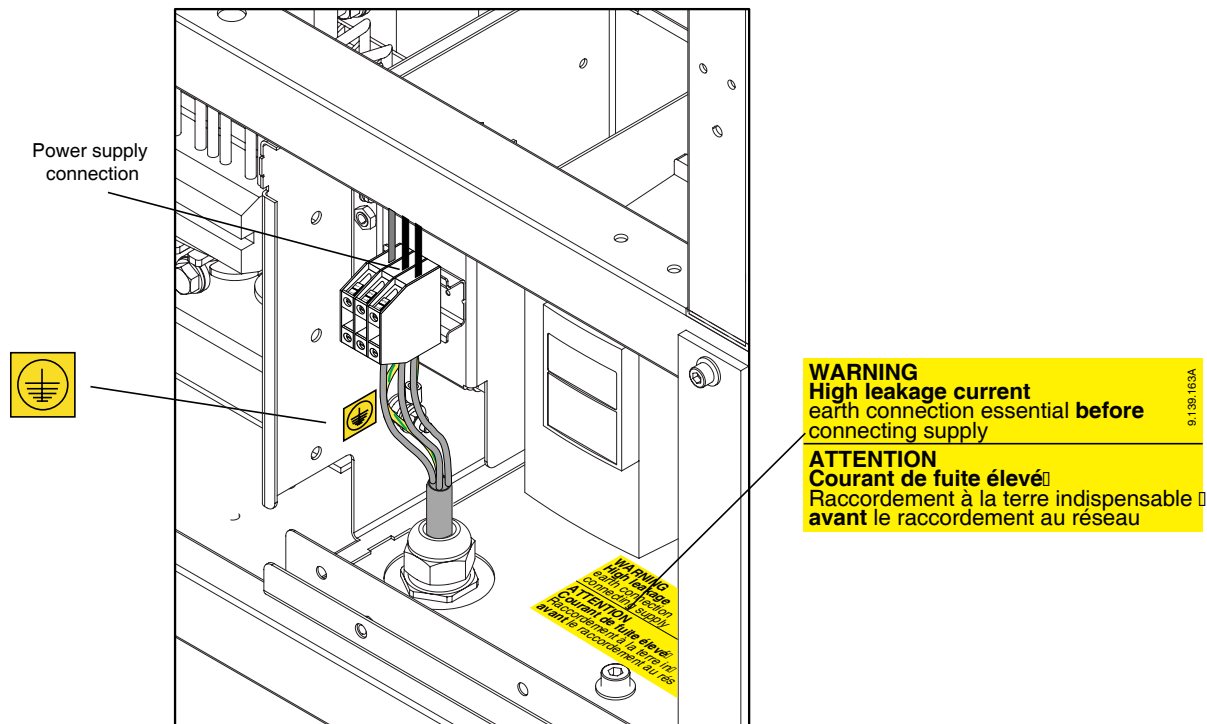
On the cover:



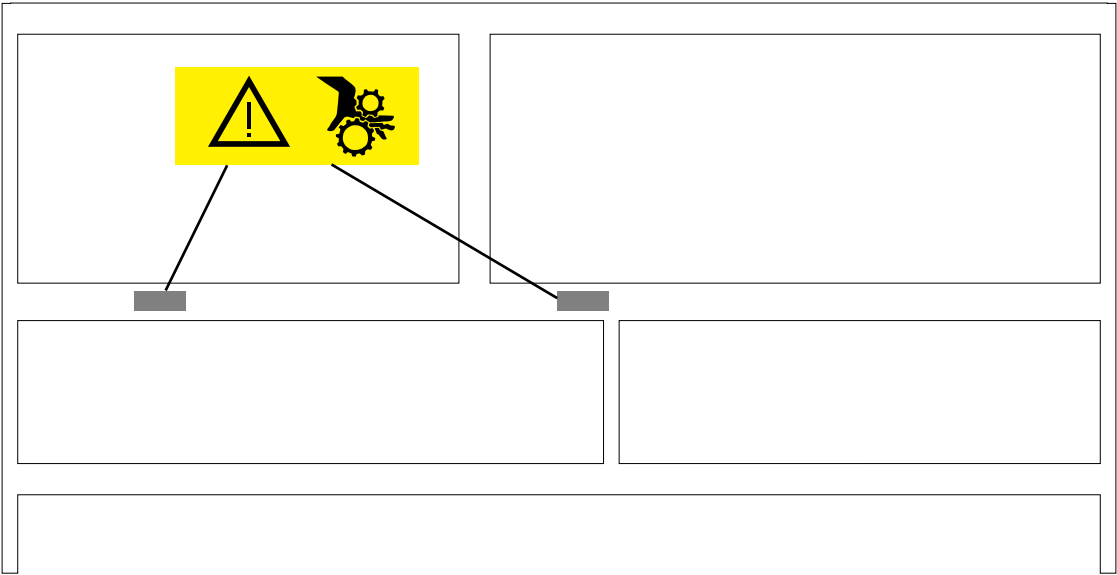
Inside the Binder:



Inside the power rack:



On the back (inside):



1.4 Instructions for safe use

All Bourg products are tested according to the strictest safety standards in compliance with international law. To ensure that your work is carried out under the safest possible conditions, please observe the following instructions:

Installation and movement:

- Do not move the machine yourself - contact our technical team.
- The machine should only be connected to the electricity supply by qualified personnel in accordance with the installation manual.
- Do not locate the machine in a room which is too small or insufficiently ventilated. See the technical specifications for full information about the space and ventilation required.
- Do not obstruct the machine's air vents.
- Ensure that the machine is placed on a level horizontal surface of sufficient strength. See the machine's specifications for full details of its weight.

Precautions:

- Do not remove any screws from the fixed panels.
- Do not attempt any maintenance activities yourself except for those described in this manual, and use only the appropriate materials.
- Do not place any liquids on the machine.
- To avoid any risk of creating potential hazards, no Bourg equipment should be modified except by qualified technical personnel.
- Always use materials recommended by C.P.Bourg and developed for Bourg machines. Unsuitable materials may damage the equipment.
- Do not use the machine if it makes unusual noises. Disconnect the machine from the electricity supply and contact the Maintenance Service.

WARNING: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC* Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

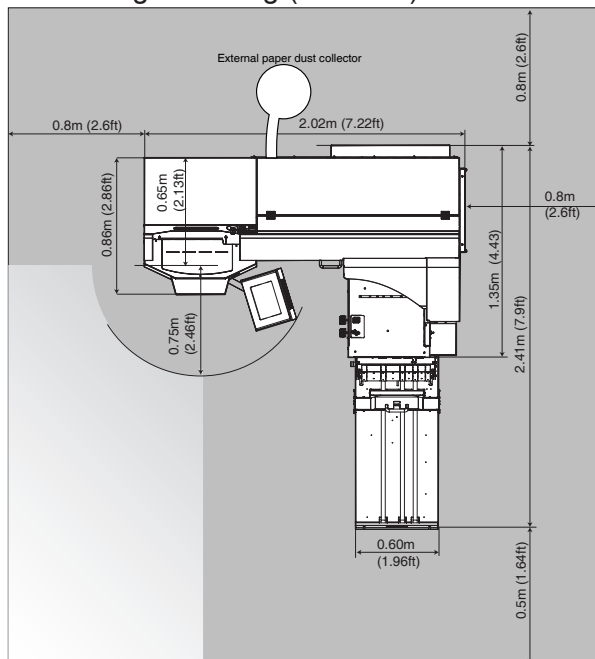
*F.C.C. = Federal Communications Commission.

Canadian Department of Communications Compliance Statement

This equipment does not exceed Class A limits for radio noise emissions for digital apparatus, set out in Radio Interference Regulation of the Canadian Department of Communications.

1.5 Technical specifications

Model	BB3002
Description	Glue binder
Dimensions	Length: 2.00 m (6.56 ft)
	Width: 2.400m (7.87 ft)
	Height: 1.50 m (4.92 ft)
	Weight: 650 kg (1430 lbs)



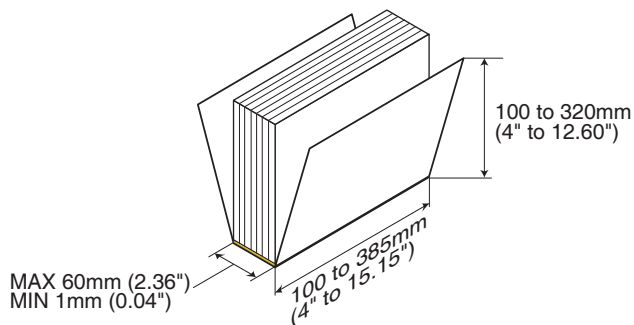
Power required	- 208/220 V, 60Hz, 3 phases delta, 12A - 220/230 or 240V, 50 Hz, 3 phases delta 12A - 380/400 or 415V, 50Hz, 3 phase star, no neutral needed, 12A
Power consumption, stand by	1500W
Power consumption, operation	4000 W
Power consumption, maximum	5500W
Mains connection	Field-wiring 3 phases connection
Safety class	I (IEC 536) Protective earth connection
Protection class	IP 20 (IEC 529)
Noise level (Lpa)	Maximum 76 dB (A) (at operator position)
Radio interference	Complies with Directive 93 / 68 / EEC
Radiation	Not applicable
Radiant heat	13648 BTU/h
Ozone emission	Not applicable
Room volume	Recommendation: 95 m ³ (7 x 4,5 x 3 m) 3336 ft ³ (23x14.8x9.8 ft)
Room ventilation	Recommendation: min. 47,5 m ³ /h (natural ventilation) For heat evacuation at continuous binding extra ventilation may be necessary.
Dust concentration	0,04 mg/m ³ at continuous operation (TLV for nuisance dust = 10 mg/m ³)
Additional safety information	To avoid higher sound pressure levels than given above, the machine should be installed in a room with at least minimum room volume (see above) and favourable acoustical properties.

2. GENERAL DESCRIPTION

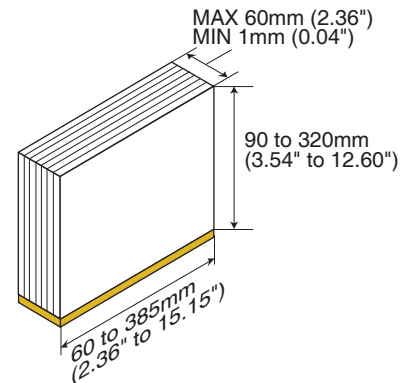
2.1 Specifications

Binding:

Perfect Binding mode



Padding mode



Dimensions (max - min):

Cover types:

Cover weight:

Paper weight:

Features:

Max. operating speed:

Cover pile height:

Cover dimensions:

Missing cover detection:

Glue temperature range:

Binding maximum thickness:

Notching and milling:

Milling depth:

External waste paper collection:

Book counter:

Creasing and lateral gluing:

Electrical adjustment of milling depth:

Adjustable jogger vibration:

Detection of min/max glue levels:

Start-up timer:

Fume extractor with condensation filter:

Book reception module (BBR):

Double cover detection:

See illustrations above

Glossy paper, with cutouts,
with transparent front etc.

80-300 gsm

20-110 lb

Lamination, grain and thickness of
covers may disturb the clamping/
nipping of books.

60-160 gsm

15-40 lb bond

Up to 600 cycles/hour (operator
dependent and based on A4 format)

80 mm

from 200x100 to 710x395 mm

Standard

from 130°C to 180°C
(266°F to 356°F)

60 mm

Standard

from 0 to 3mm (3mm only for thin
books)

Standard

Standard

Standard

Standard

Standard

Standard

Standard

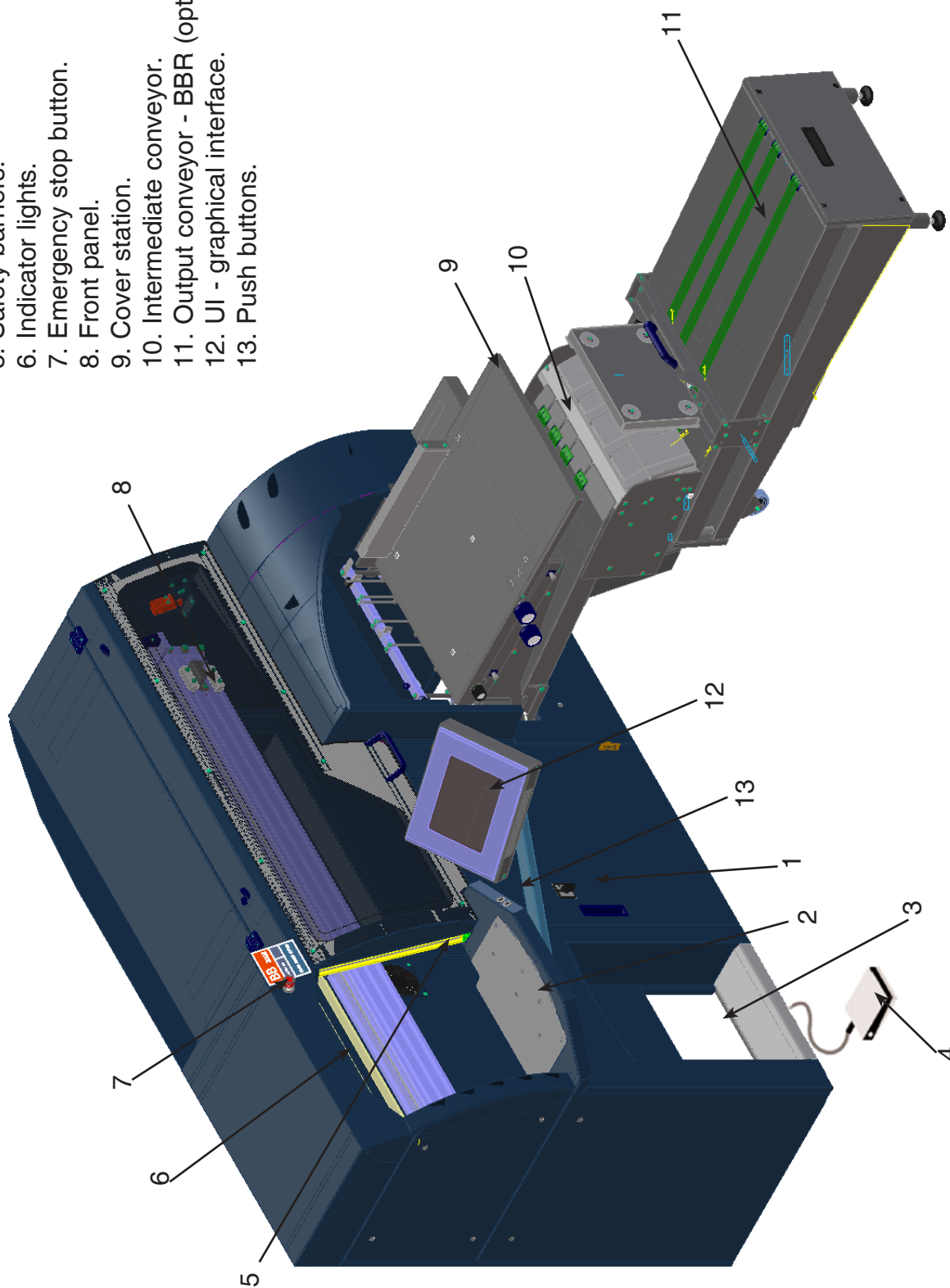
Standard

Optional

Optional

2.2 General description of the binder

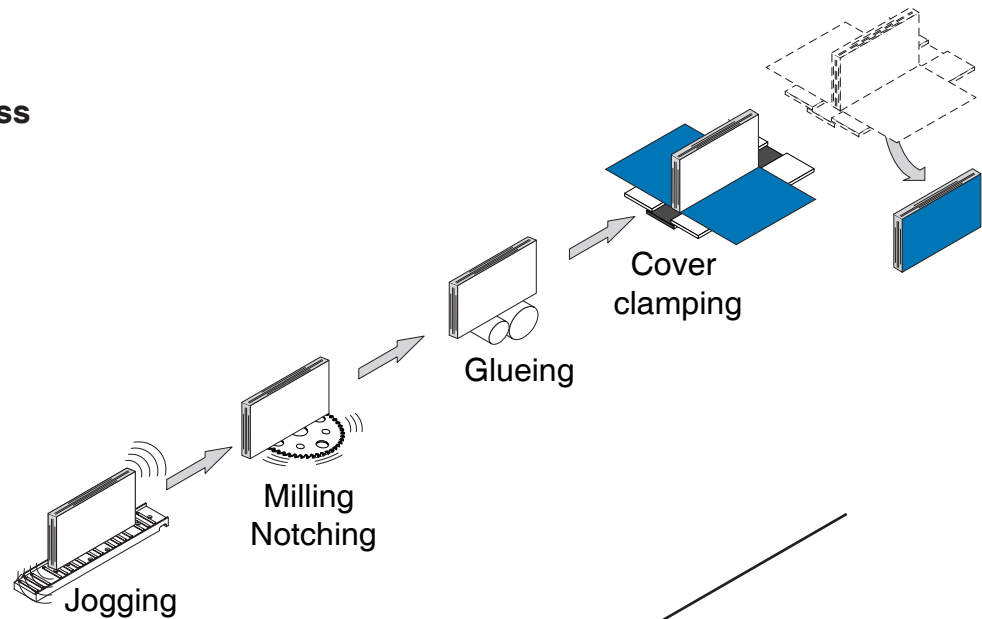
1. Main power switch.
2. Manual loading area.
3. Internal waste bin.
4. Pedal.
5. Safety barriers.
6. Indicator lights.
7. Emergency stop button.
8. Front panel.
9. Cover station.
10. Intermediate conveyor.
11. Output conveyor - BBR (optional).
12. UI - graphical interface.
13. Push buttons.



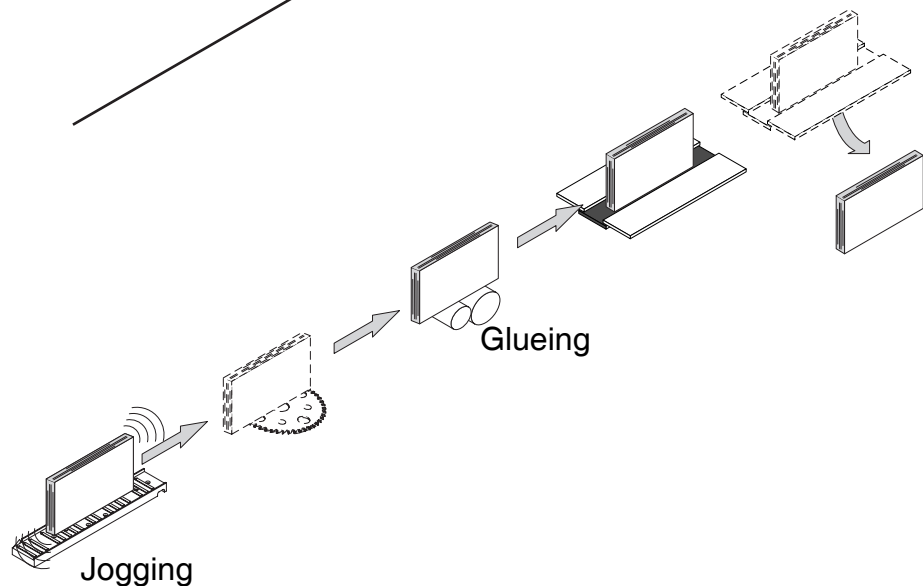
2.3 Description of the gluing process

- Place a set of pages in the carriage jaws.
- Start a gluing cycle, withdrawing your hands outside the loading area.

Automatic process with cover

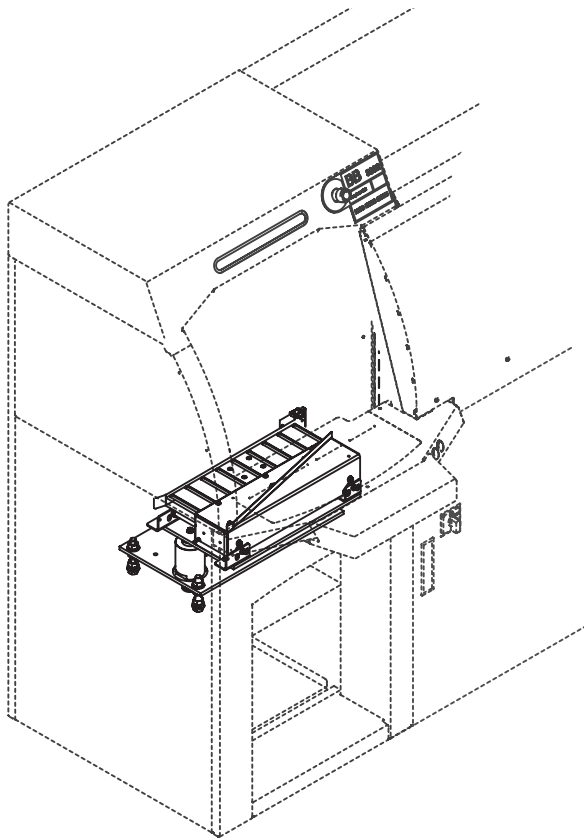


Automatic process without cover



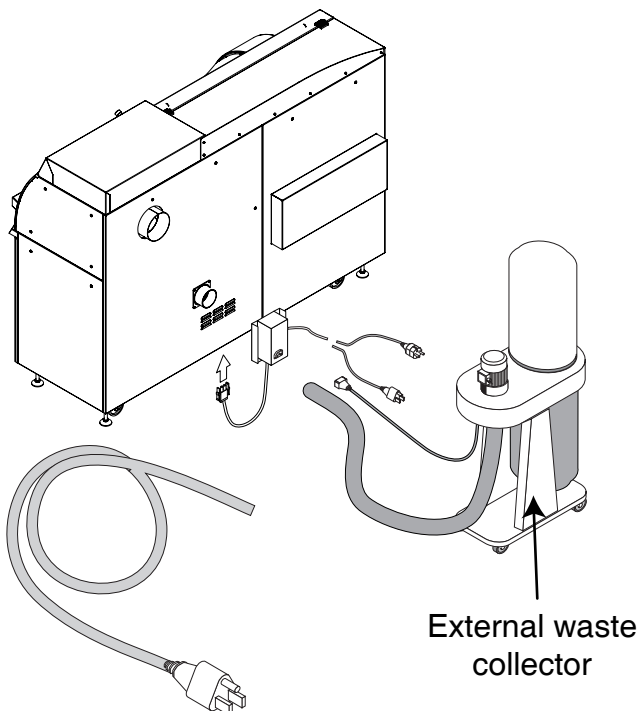
2.4 Description of various parts of the binder

2.4.1 "Vibrating" module (jogger):



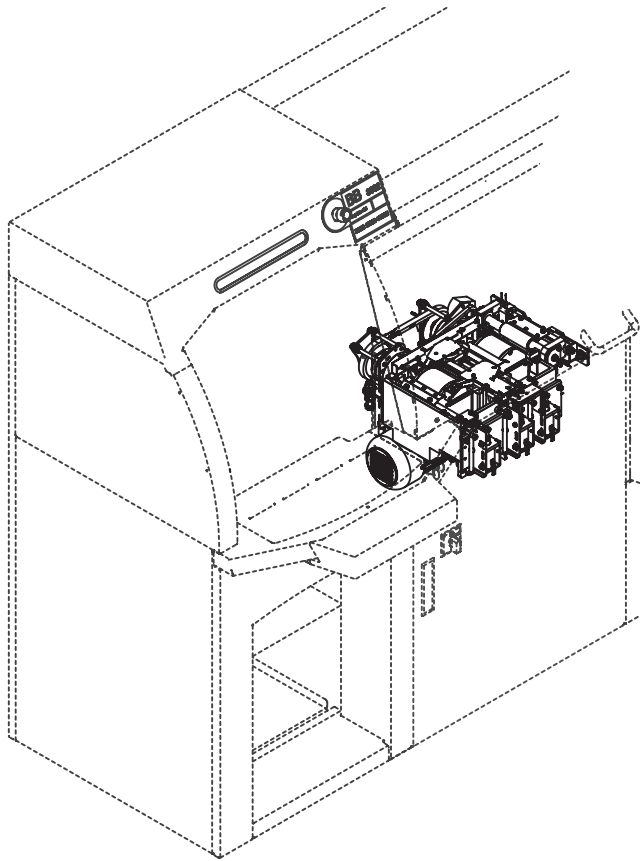
The vibration of the jogger plate re-aligns the block of paper to be bound.

2.4.2 Milling module:



The milling module notches the edge of the bundle of paper to be bound. This helps the glue adhere to the paper better. The waste is vacuum and collected in an external high-capacity collection bin.

2.4.3 Glue tank:



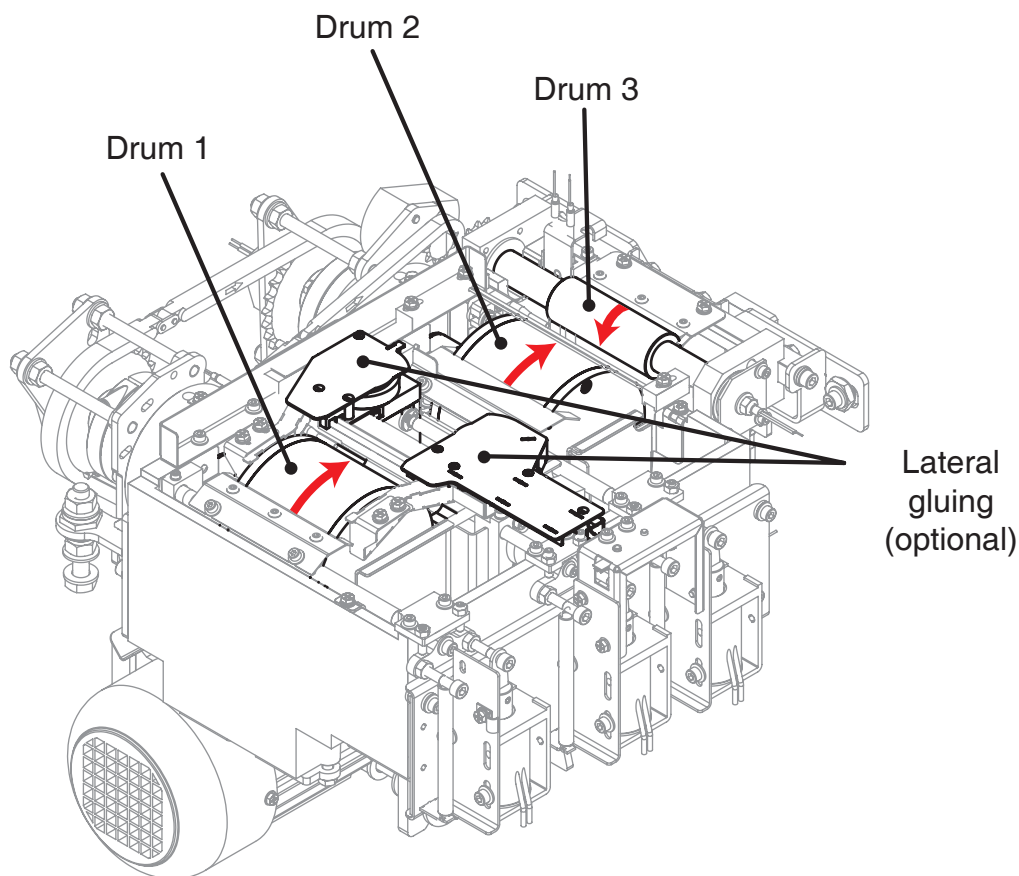
The glue tank contains the glue to be applied in a film to the spine of the book.

The glue tank consists of 2 gluing cylinders: The first cylinder causes the glue to penetrate the notches made in notching and milling, while the second cylinder applies a larger quantity of glue to fix the cover.

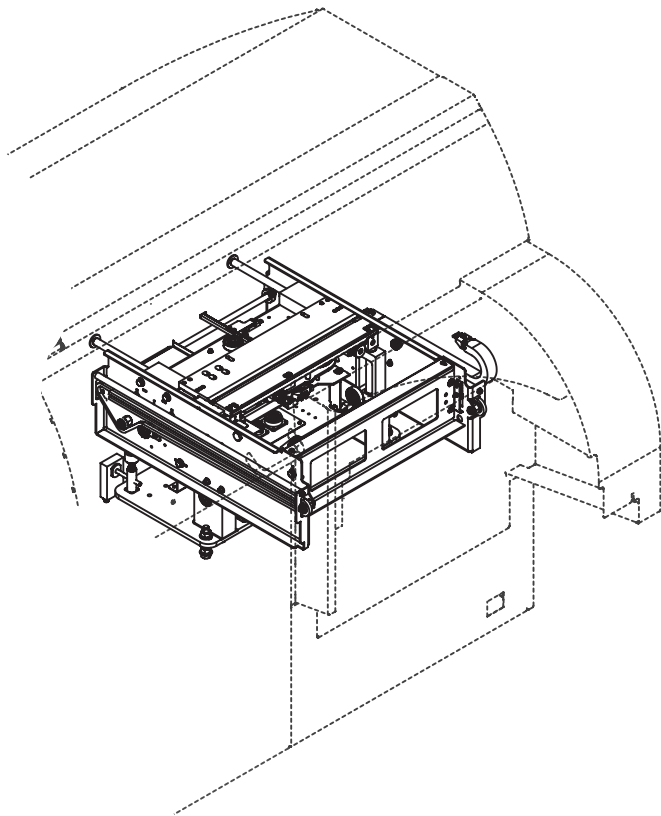
In "BLOCK" mode (no cover), the first cylinder is deactivated so that the pages are easily detached.

A third cylinder, turning in the other direction, spreads the glue over the spine of the book to ensure that the thickness of the glue film is even.

The tank may optionally be supplied with 2 supplementary cylinders enabling the cover to be glued laterally on to the book.



2.4.4 Cover clamp:

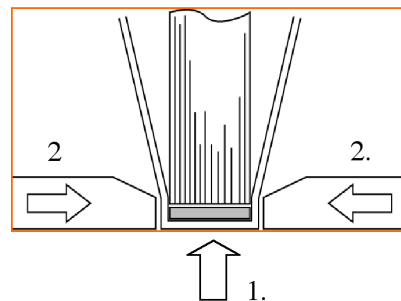


The cover clamp module places the cover over the book's spine.

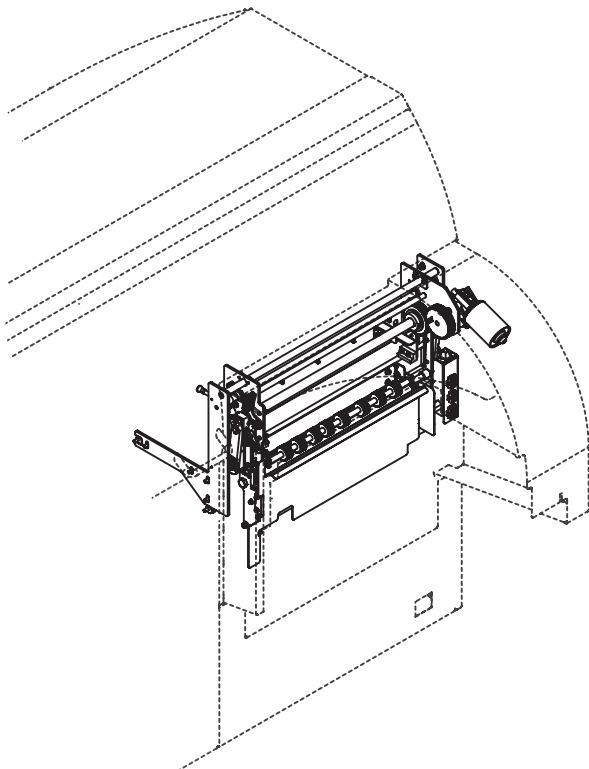
The cover clamp jaws apply the cover centrally in relation to the book so as to obtain a straight book with a square spine.

Procedure:

1. The cover is first applied to the spine of the book (pressure along the spine).
2. The cover is then pressed to the side, folding it around the edges of the book (lateral pressure).



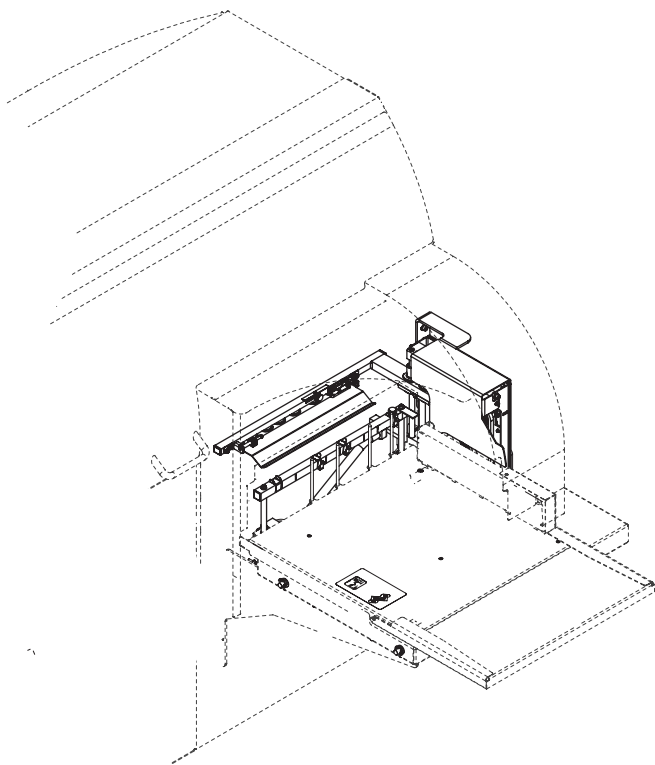
2.4.5 Creasing module (optional):



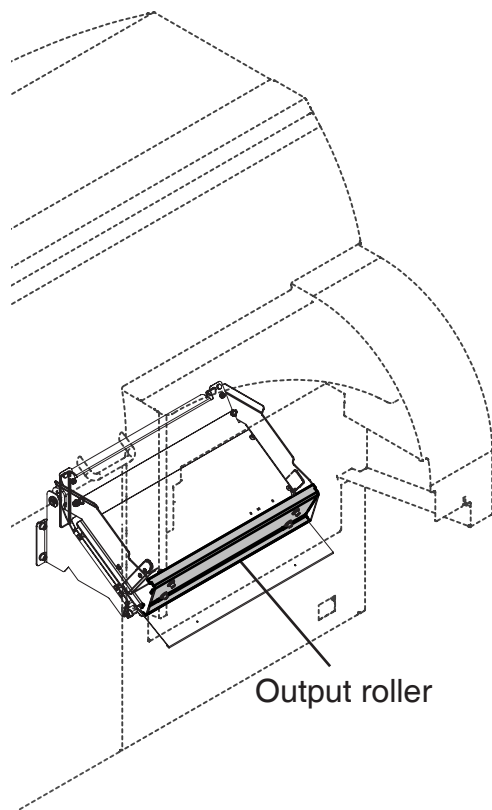
The creasing module can create folds in the cover to make it easier to open the book. It also makes it possible to obtain bindings with folding wings.

2.4.6 Cover loading:

The cover station suction bar picks up the cover and transfers it to the cover clamp module.



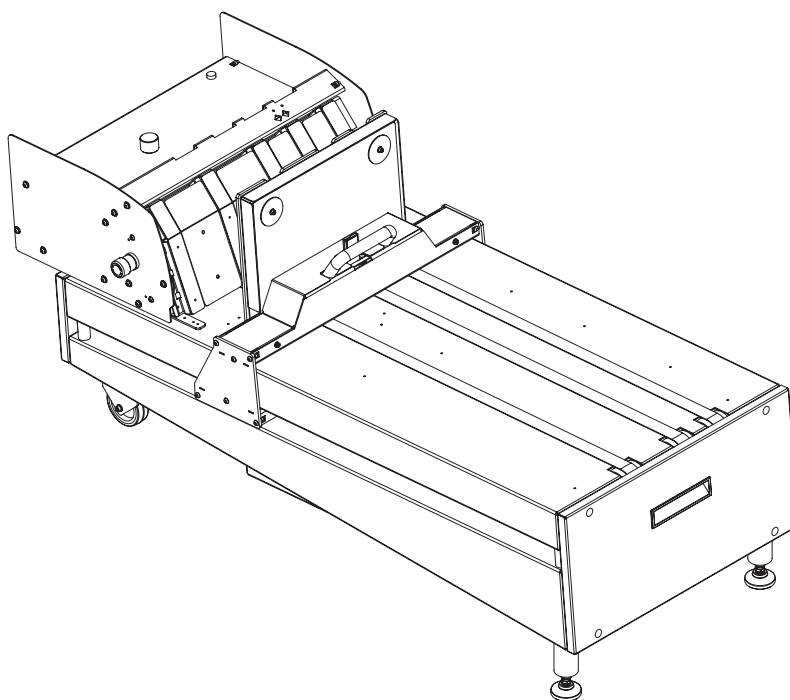
2.4.7 Binder output:



The output baffle plate has a movable roller which aligns and slows down the book before its output.

2.4.8 Reception of books in the BBR module (optional):

The bound books are finally received and stored in a high-capacity module, the BBR.



3. USING THE BINDER

3.1 Operating procedure

1. Powering up the binder:

- The first operation is to power up the machine by turning the on/off switch to the ON1 position.
- Next press the  icon at the bottom of the graphical interface screen to begin warming the glue tank.
- Wait for the glue to reach the correct temperature.

For further details about **powering up the machine and heating the tank**, see section 3.2.

2. Configuring the binder:

The first time the machine is used, it must be configured according to the operator's preferences - the configuration can be revised at any time.

Options such as the language and units of measurement used can be defined.

These settings are described in detail in section 4.2: **“Preference” menu**.

3. Preparing the binder:

Before binding, you must first:

- Program the job using the graphical interface - see section 4: **Graphical Interface (UI)**.
- If necessary, place the covers in the cover station - see section 5.1: **Loading the cover station**.

The machine is now ready to use. You can begin a gluing cycle.

4. Binding a book:

- Place the paper to be glued in the carriage jaws, and allow it to vibrate, closing the jaws gradually using the pedal or the green button.
- Begin a gluing cycle: - withdraw your hands outside the loading area,
- press the green button in the loading area twice.

For further details about beginning the gluing process, see the preferences menu (section 4.2: **“Preference” menu**).

5. Switching the binder off:

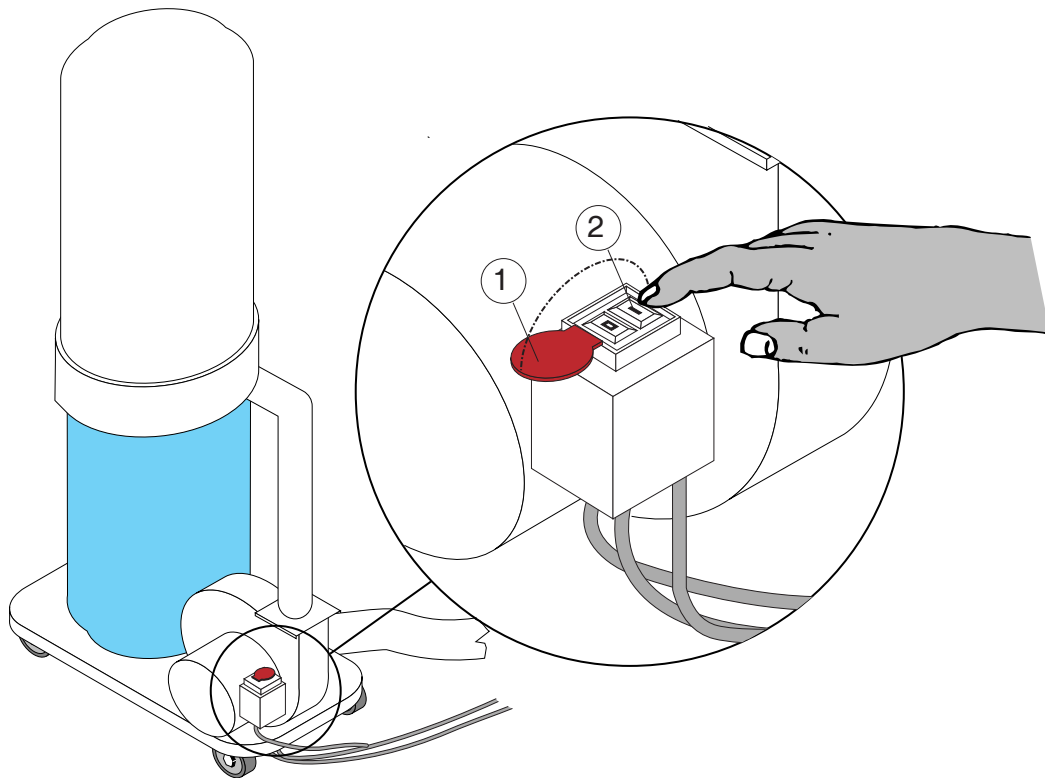
- To switch off the machine, turn the on/off switch to the 0 position: "power off".

The glue tank heater can be programmed to switch on or off automatically with no input from the operator. To enter this mode, turn the binder's main switch to the ON2 position.

For further details about placing the machine on stand-by, see section 3.2 **Powering up the binder and heating the glue tank**.

6. To start the Dust Collator

- Open the cover (1).
- Push on the button I (2).
- Do not close the cover (1) (close the cover = stop emergency).
After a stop emergency, push the button "I" (2) again.

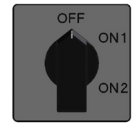


3.2 Powering up the binder and heating the glue tank

On the front of the binder is a main switch with 3 positions:

1- Binder OFF.

The first position of the switch cuts off all power to the machine:
"POWER OFF".



2- Powering up the binder - ON1.

The second position provides power to the machine: "POWER ON".

3- Placing the binder on stand-by - ON2.

The third position corresponds to the "TIMER" mode.

In this mode, the binder is on stand-by.

The glue tank heater can be started and stopped automatically at the times programmed using the **"timer" menu** (see section 4.10).

3.2.1 Heating the glue tank - main switch at ON1:

Preliminary notes:

- The tank temperature is close to the gluing temperature. It is however slightly less, to avoid the glue oxidising too quickly.

This temperature can be adjusted by a qualified technician to low or high temperature.

- The operator can vary this temperature by $\pm 15^{\circ}\text{C}$ using the graphical interface.

Procedure for starting heating:

- 1) Turn the main switch to the second position (ON1) to power up the machine.
The glue tank starts to heat up automatically when the machine is switched on, until the required tank temperature is reached.
 - 2) Press the green button on the loading console to restart the binder. All the initialisation operations take place except those involving the glue tank, which require the glue to be hot.
 - 3) Press the  icon to heat the cylinders. The temperature of the glue on the cylinders is initially set to 40°C below the gluing temperature.
 - 4) 55 minutes after power-up, if the cylinder heating has been activated (step 3), two actions are carried out:
 - Cylinder rotation is activated.
 - The cylinder temperature is brought up to the gluing temperature.
- A count-down next to the tank heater icon indicates the time remaining.
- 5) When the cylinders have reached the gluing temperature (adjusted on the screen), the glue tank will be initialised automatically.
 - 6) A further heating period, which can be configured by a qualified technician, may be activated at this point in order to make sure the glue is heated uniformly throughout the tank (optional).
 - 7) The green indicator lights up to show that the machine is ready to begin.

3.2.2 Starting the *TIMER* - main switch in *ON2* position:

The "TIMER" menu can be programmed to start and stop the glue tank heater automatically with no input from the operator.

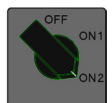
In this way, the glue tank can begin to heat up before the operator arrives and the glue will be at the right temperature when the operator starts work.

Here is a sample timetable:

			
✓ Monday	08 h 00	17 h 00	Saturday
✓ Tuesday	08 h 00	17 h 00	01:31:56
✓ Wednesday	08 h 00	17 h 00	01/01/2000
✓ Thursday	08 h 00	17 h 00	MM/DD/YYYY
✓ Friday	08 h 00	17 h 00	
✗ Saturday			100 °C
✗ Sunday			

To access the "TIMER" menu:

- Turn the binder's main switch to the ON2 position.
- Following the timetable programmed using the "TIMER" menu, the glue tank heater will start automatically and the 55 minute timer will begin.
The glue temperature is brought up to the tank temperature (Low or high temperature).
The tank and cylinders are then heated according to the usual procedure.



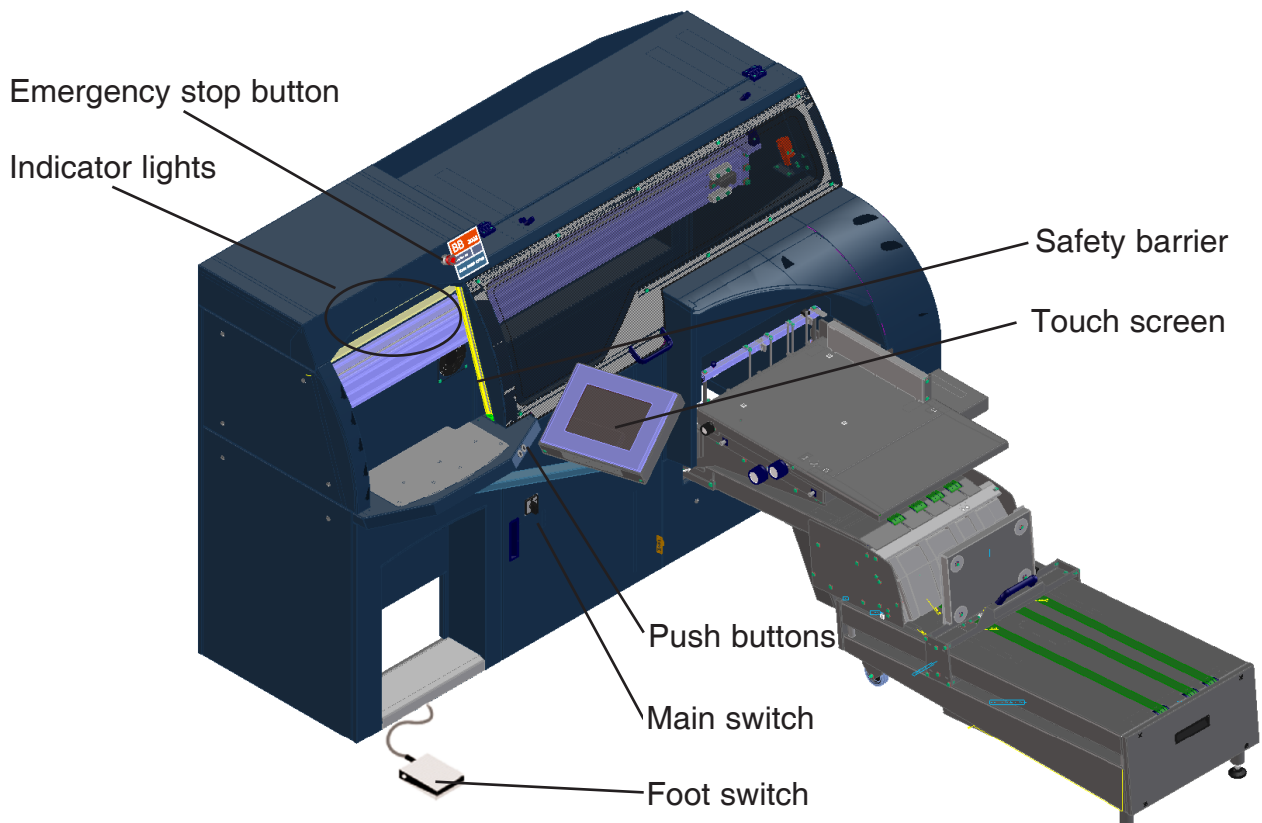
For more details about the "**TIMER**" mode, see section 4.10.

3.3 The binder controls

The binder's controls are as follows:

1. A colour touch-screen used to program jobs (UI).
2. Black and green buttons on the loading console.
3. Pedal.
4. Emergency stop button.
5. Indicator lights.
6. Safety barriers.

Function of the buttons on the loading console:



Black button - opening the carriage jaws:

1. This button opens the carriage jaws so that the space where the book to be bound is inserted can be adjusted.

Green button:

- This button has 3 functions:
1. Closing the carriage jaws so that the space where the book to be bound is inserted can be adjusted.
 2. Beginning the binding process by pressing the button twice, as long as the operator's hands have been withdrawn from the loading area and the "manual start" mode has been selected in the **"Preferences" menu** (see section 4.2).
 3. Reinitialising the machine, on power-up, after an emergency stop or after a panel has been opened.

Function of the pedal:

The pedal closes the carriage jaws so that the space where the book to be bound is inserted can be adjusted.

Indicator light above the loading area:

Above the loading area is a strip of indicator lights.

The operator can see at a glance the status of the binder from the indicator's various colours:

- Green light: A green light indicates that the machine is ready for use and that the glue has reached the required temperature.

The operator can now place the paper in the carriage jaws and begin a gluing cycle.

- Red light: A red light indicates that the machine is in operation.
A document is being bound.
During this time, if the operator crosses the beam of the light barrier, the machine will carry out an emergency stop.
- Orange light: An orange light indicates that the glue has not yet reached the required temperature.
The glue is either too hot or too cold.
- Flashing red light: The flashing red light denotes a binding error.
To reinitialise the binder, the operator must press the green button on the loading console.

Safety barriers:

The safety barriers fulfil two roles:

- They enable the machine to start up in automatic mode, once paper has been inserted in the carriage jaws and the operator's hands have been withdrawn from the loading area (see section 4.2 : "**PREFERENCES**" menu - automatic start-up).
- During the binding process, if the operator crosses the safety barrier beam, the machine stops to prevent any risk of accident. This is an emergency stop.
To restart the binder, the machine must be reinitialised by pressing the green button from the loading console.

Emergency stop button:

To stop the machine quickly (if the operator is in danger, for example), press the emergency stop button.

Reinitialising the binder:

(*) To reinitialise the binder, release the emergency stop button (if it has been pressed) and press the green button on the loading console. If necessary, remove the paper and cover.

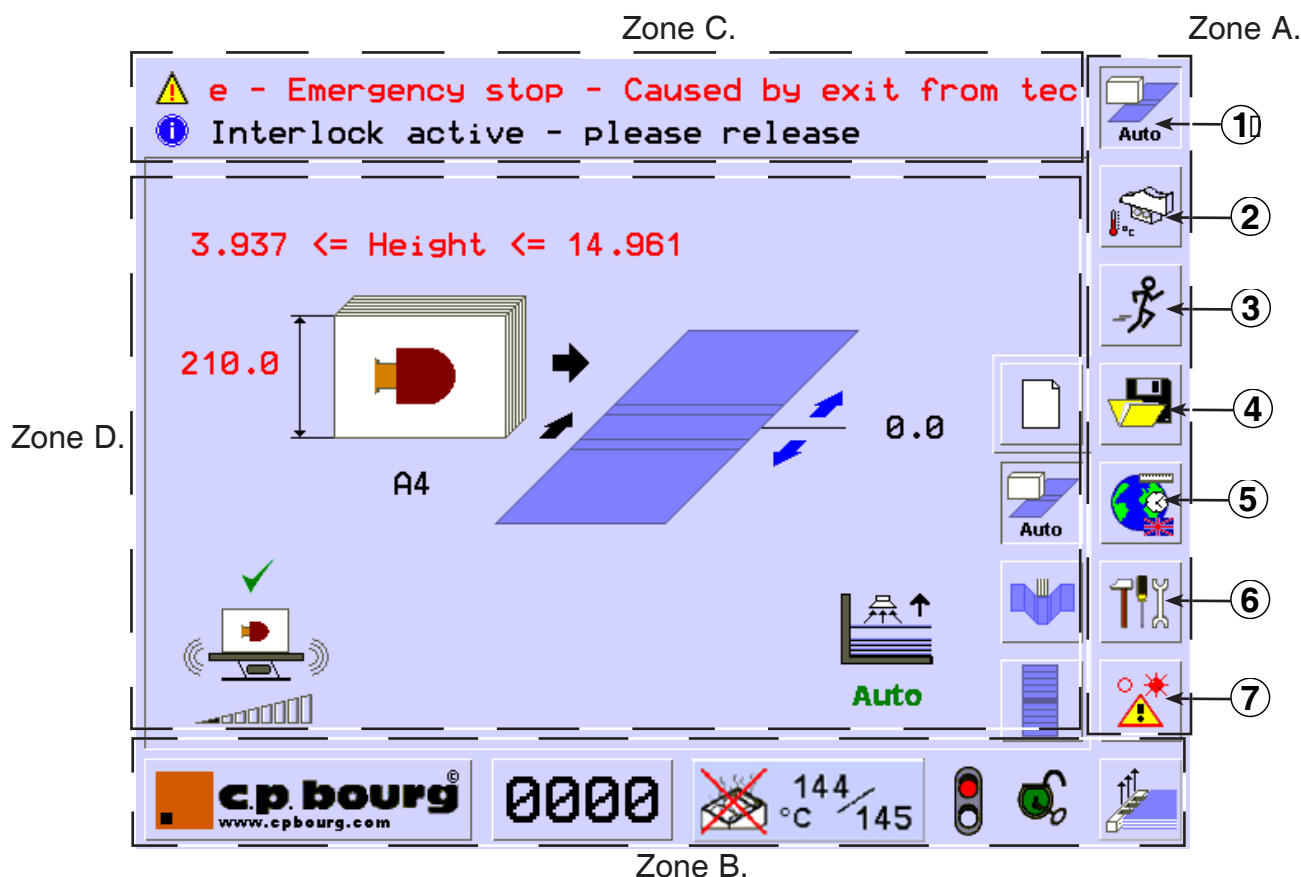
Note: The machine also effects an emergency stop if a panel is opened.

4. GRAPHICAL INTERFACE (UI)

4.1 General description of the graphical interface

The graphical interface enables the binder to be used easily and intuitively.

The touch-sensitive screen is divided into 4 parts:

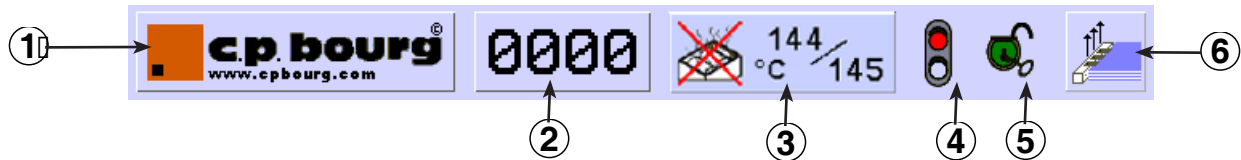


Zone A: Access to the various menus in the graphical interface:

1. "AUTOMATIC" menu: For automatic job programming.
2. "ADVANCED" menu: For programming the binding parameters for the cover.
3. "JOB" menu: For accessing settings during use.
4. "FILE" menu: For managing and saving jobs to be carried out.
5. "PREFERENCES" menu: For configuring the binder according to the operator's preferences.
6. "TOOLS" menu: For easy maintenance of the binder by a qualified technician.
7. "ALARM" menu: To display the various error and warning messages.

We shall return to look at each of these menus in greater detail.

Zone B: Machine status icons:



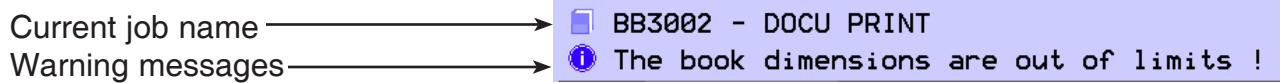
1. CP Bourg logo.
Pressing this button displays information relating to the version of the UI software installed.
2. Display of the number of bindings carried out and the total number in the current job.
Pressing this button toggles between the "series" mode, "semi-series" mode and the "unit" mode.
For more details on this subject, see section 4.4 - counter menu.
3. Start/stop heating the glue tank
+
display of the current glue temperature and the required gluing temperature (*).
Pressing on the left half of the button activates or deactivates the heating and rotation of the glue cylinders.
The button also displays the current tank temperature (in this example: 144°C) as well as the required gluing temperature (in this example: 145°C).
4. Machine ready to operate (green traffic light) or not (red traffic light).
5. Keyboard locked/unlocked.
When the binder is in operation, the keyboard is locked (the padlock is closed) to avoid parameter values being changed during the binding of a book.
When the carriage is above the loading console, the keyboard is unlocked (the padlock is open). The operator can change the binding parameters of the current job.
6. "Reload cover" button.
Pressing this button raises the suction bar.
The operator can then reload the cover station.
The suction bar will automatically move down to the height of the pile next time a cover is picked up.
This button is also used to open the cover transport jaws in the event of a paper jam during clamping.

Notes (): - If the  icon is pressed, the glue temperature will fall from the required gluing temperature (144°C in this example) to the tank temperature. The cylinders also stop rotating.
However, the operator can vary this temperature by $\pm 15^{\circ}\text{C}$ using the graphical interface - see section 4.7 : **ADVANCED MENU: Managing binding parameters.***

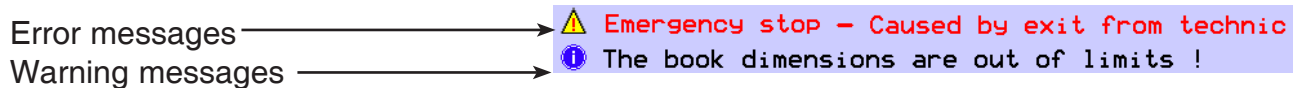
Zone C: Current job display and warning messages:

This zone displays the current job and various warning messages.

This indicates the binder's status to the operator at all times.



When an error occurs, a red message scrolls on the screen. Display of the current job is then deleted.



Zone D: Dialogue area:

This space is used for dialogue between the user and the binder. It enables the user to configure the binder to achieve the desired effect.

Entering parameters:

- Button placement:

The value of certain parameters may be increased or reduced.

This is the case, for example, with "bar graph" type parameters.

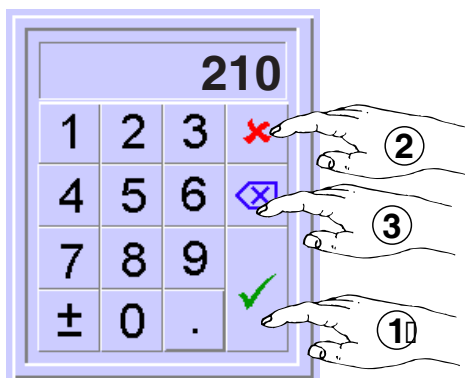
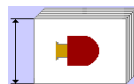
The icon is actually separated into 2 buttons.

Examples:



- Parameters with a numeric keyboard:

Example: Changing the book height. 210



- To adjust the height of the book, just press the number displayed (210 in this case). A numeric keypad will appear on the screen, on which the correct height of the book can be entered.

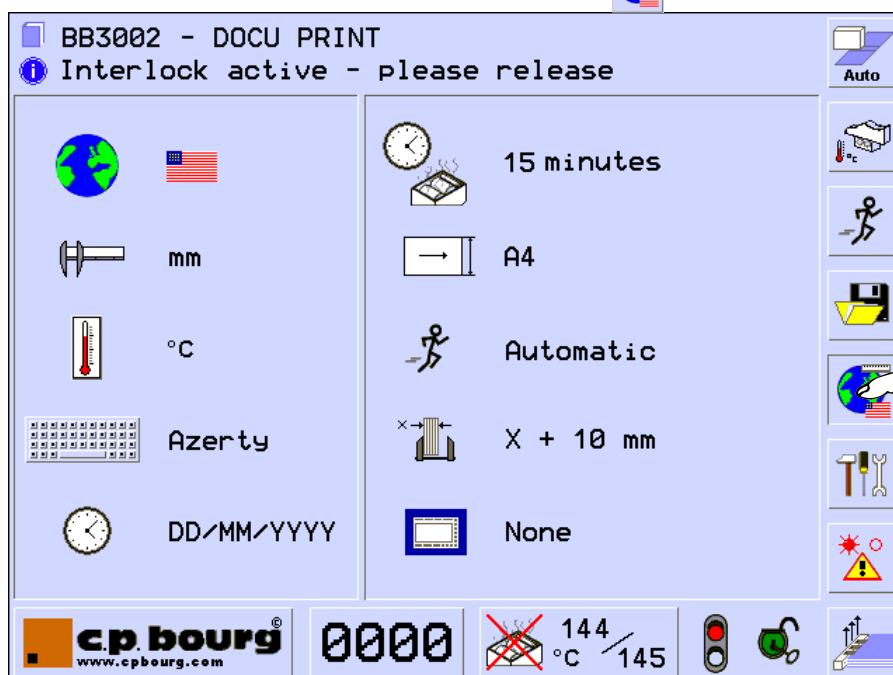
1) Press to confirm the book height.

2) Press to cancel.

3) Press to delete the last digit entered.

4.2 "PREFERENCES" menu

This menu enables the binder to be configured according to the operator's preferences. Settings such as the language, units of measurement, start-up mode etc. are defined here. The "PREFERENCES" menu is accessed by pressing the  icon to the right of the screen.



Choice of language: Various languages are available.

The operator can easily switch from one to another by selecting the corresponding flag. The language chosen mainly affects alarms and error messages.



Units of length: mm or inches.



Units of temperature: Celsius or Fahrenheit.



Keyboard type: AZERTY or QWERTY.



The date can be displayed as either DD/MM/YYYY or MM/DD/YYYY.



Delay before the cylinders stop rotating.

If no books have been bound during the defined delay, the cylinders stop rotating and the glue temperature falls back to the tank temperature.

Press the value displayed to change the delay before the cylinders stop rotating. By default, this value is set to 15 minutes.

Possible range: from 0 to 99 minutes.



Default paper size.

The binder needs to know the height of the book.

When starting the machine or creating a new job, the format selected in this menu will be offered as the default.

The operator can select from the most commonly used formats:

- A4 (height = 210 mm),
- US Letter (height = 216 mm),
- B4J (height = 257 mm),
- or enter a custom height.

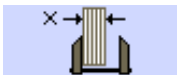


Start-up mode: automatic or manual.

To produce a book, the operator must place the paper to be bound in the carriage jaws.

There are two choices of how to begin the binding process:

- **AUTOMATIC** start-up mode: The gluing cycle begins as soon as the operator has withdrawn his hands from the loading area (having inserted the pages in the carriage jaws).
- **MANUAL** start-up mode: To begin the gluing cycle, the operator must press the green button on the loading console twice (having inserted the pages in the carriage jaws and withdrawn his hands from the loading area).



Initial opening of carriage jaws.

The operator has the option of specifying the initial opening of the carriage for loading paper.

The jaws can open 5, 10, 15, 20, 25 or 30 mm wider than the thickness of the book. The carriage can also be set to open to its maximum width (90 mm).



Screensaver.

The operator has the choice of not using a screensaver (selecting "None") or using one of two screensavers provided ("CP Bourg" or "empty").

The delay before the screensaver appears can also be set by pressing the period displayed.

4.3 AUTOMATIC" menu

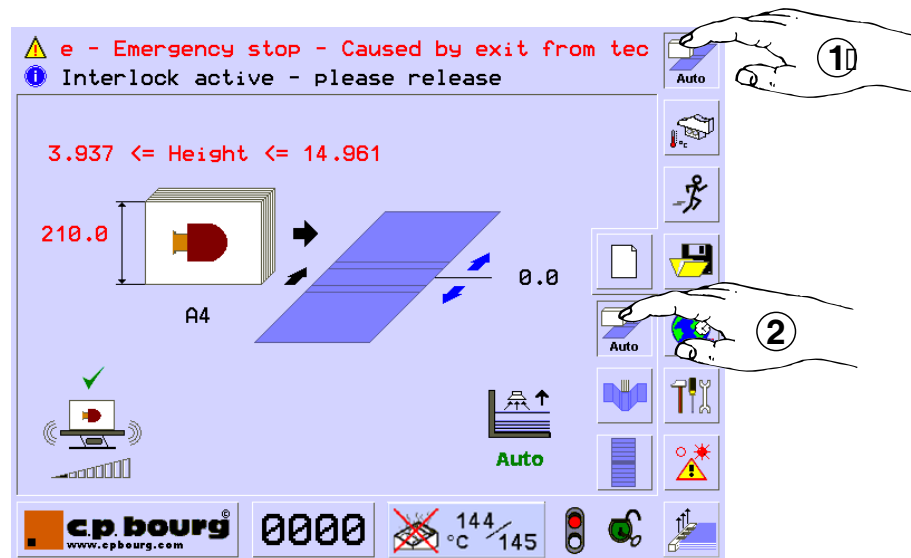
On start-up, the **automatic menu** appears.

The automatic menu enables the operator to bind standard jobs using settings with **default values**.

The automatic menu facilitates the operator's job - he does not need to set the cover binding and cover clamp parameters, as they are determined directly according to the book to be bound.

-> The BB3002 binder is therefore ready for use immediately.

The operator can place the paper to be bound directly in the carriage jaws and begin a gluing cycle.



- Accessing the automatic menu:

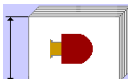
- 1 - Enter the automatic menu by pressing the  icon (A).
- 2 - Next select the "AUTO" function by pressing the second  icon (B).

Warning: This button activates the "AUTO" function. To reinitialise the binding and cover clamp parameters, press the  button.

If the "AUTO" function is inactive, the operator enters the advanced menu.
This gives access to the cover clamp and binding parameters.

- Programming the automatic menu:

1. Select the "AUTO" function by pressing the icon (B) .
2. Create a new job by pressing the  icon.
Each parameter is reinitialised with a value "AUTO" automatically set according to the book to be bound.

3. Enter the height of the book: 210 

The default value appears on the screen. This is set in the preferences menu.
To change the book height, press the value displayed. A numeric keypad appears automatically so that the new value can be entered.
Confirm the value by pressing  on the numeric keypad.

4. Three settings can be altered:

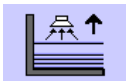


Activation/deactivation of the jogger + adjustment of the amplitude of the vibration:

The vibration of the jogger plate straightens the sheets in the paper bundle into a properly squared-off block.

By pressing  or  , the operator can activate or deactivate the vibration of the jogger plate.

Using the bar graph  , the user can modify the amplitude of the vibration.

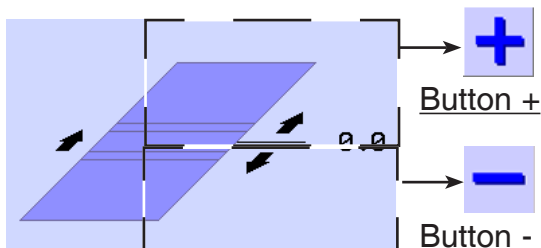


Cover suction level:

Using the bar graph  , the level of suction used to pick up the cover can be changed.

By default, the suction level is set with the value “AUTO”, which means the suction adapts according to the cover to be picked up.

Adjusting the cover position:



Using this function, the edge of the cover can be aligned with the book. The position can be adjusted by up to ± 10 mm in steps of 0.2 mm.

Example : If the front cover overlaps the front of the book by 1 mm, the operator can make a correction of 1 mm to align the front cover with the book.

This adjustment only affects the position of the cover in relation to the book; creases remain centred on the spine of the book.

5. The machine is now ready for operation using **the "AUTO" parameters.**
The operator can now place the paper to be bound in the carriage jaws and begin a gluing cycle.

Note: When loading the paper, place the back of the last page of the book to be bound, facing you.

In brief: The automatic menu enables easy use of the binder. No programming is required to configure the binder settings.

The binding and cover clamp settings are automatically adapted according to the book to be bound.

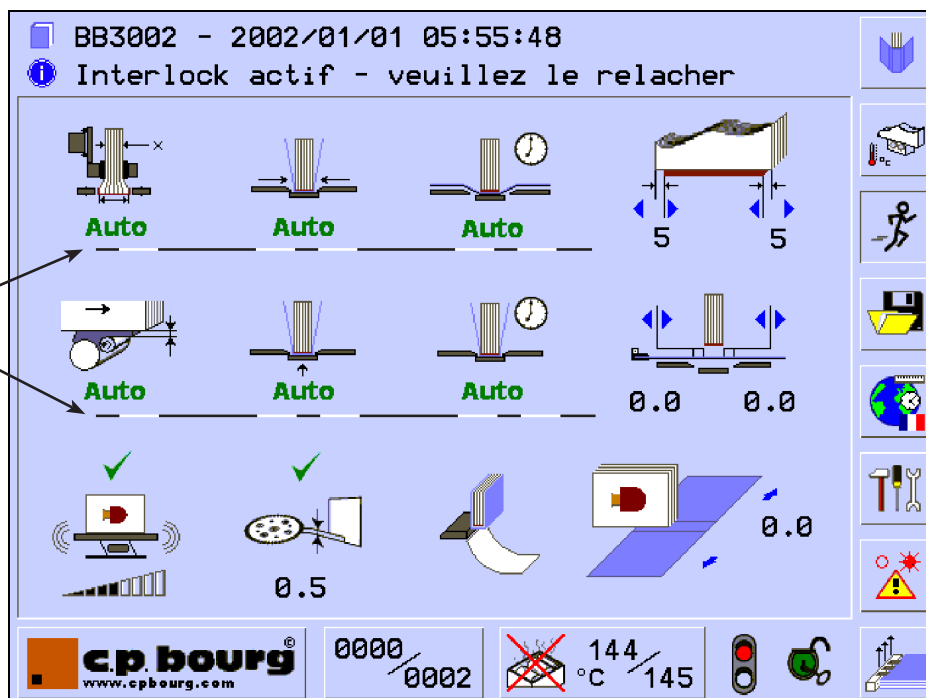
Example: The time taken for the glue to dry will be longer for a thick book than for a thin book.

The operator needs to enter the height of the book. The binder is then ready for use immediately.

Overview of the gluing and cover clamp parameters with and without the AUTO menu :

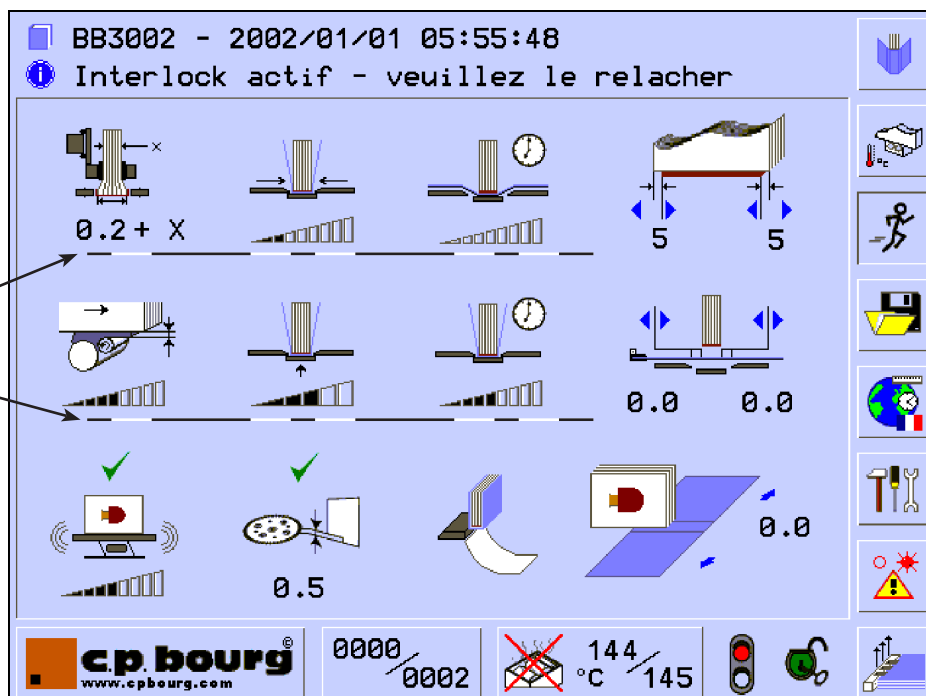
Parameters set with the “AUTO” menu

Parameters set automatically according to the book to be bound.



Parameters set without the “AUTO” menu

Parameters set manually by the operator.



For further details on gluing and cover clamp parameters, see 4.8 “JOB” menu.

List of default parameters in the automatic menu:

To reset the gluing and cover clamp parameters to their "AUTO" values, press the  icon in the automatic menu.

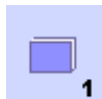
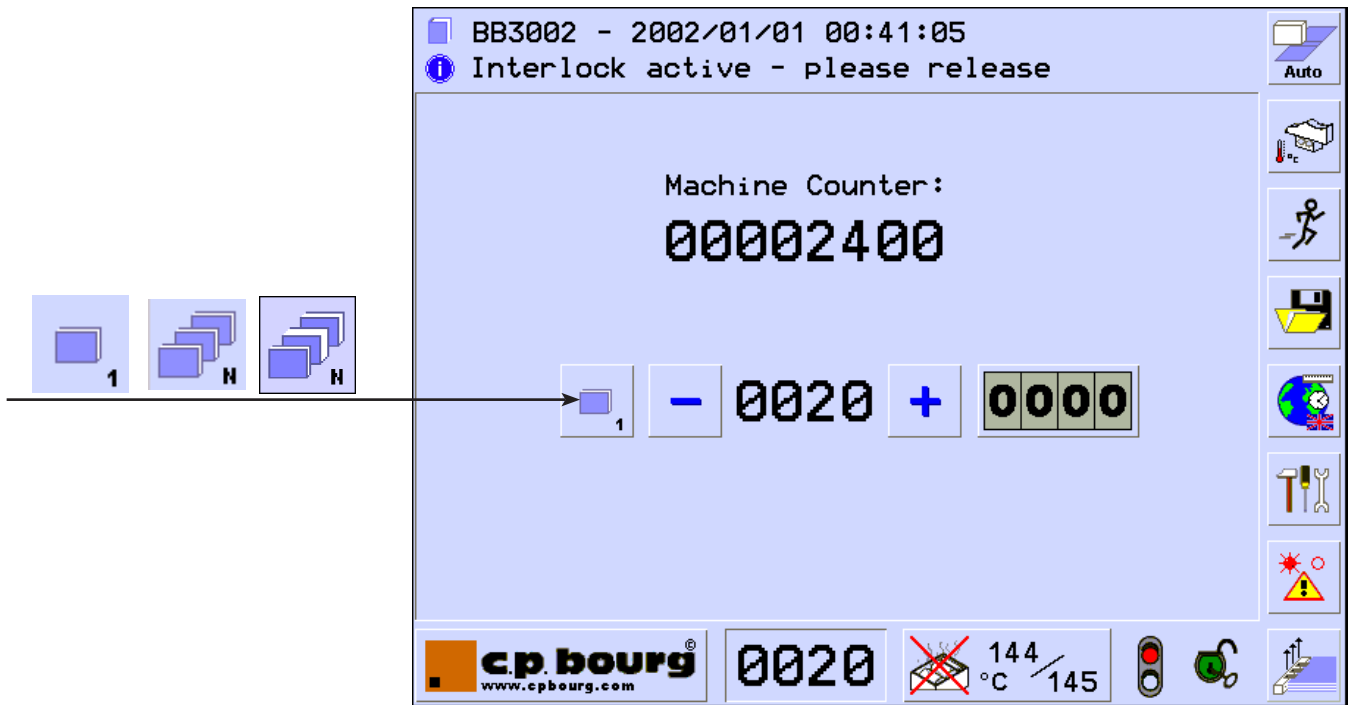
- Binding parameters: - Carriage speed: fast.
 - Milling activated.
 - Milling depth: 1 mm.
 - Temperature at which glue is applied (working temperature of the glue).
 - Both gluing cylinders activated + lateral gluing (if option installed).
 - Glue cut-off on front: 5 mm.
 - Glue cut-off on back: 5 mm.
 - Thickness of glue film: adapted to the thickness of the book.
- Cover clamp parameters: - Cover mode activated.
 - N->FIRST mode activated.
 - 4 creases are selected: creases on the spine of the book and courtesy creases.
 - No folding wings.
 - 6 mm between the courtesy crease and the crease on the book's spine.
 - Height of cover on the front of the book = height of book.
 - Output mode: "Free".
 - Cover suction level: Adaptation to the cover to be picked up.
 - Glue drying time before nipping: adapted to the thickness of the book.
 - Glue drying time during nipping: adapted to the thickness of the book.
 - Adjustment of pressure on spine: adapted to the thickness of the book.
 - Adjustment of lateral pressure: adapted to the thickness of the book.
- Miscellaneous settings: - Unit counter mode.
 - Vibration activated with the amplitude in the central position.

Notes: These parameters may be modified by a qualified technician according to the customer's requirements.

4.4 COUNTER menu

The operator can access the counter menu by pressing the **0050** button at the bottom of the screen.

The binder can work in unit mode, series mode or semi-series mode.



"**UNIT**" mode is used when the operator wishes to produce books with different thicknesses or formats. This is the default mode.

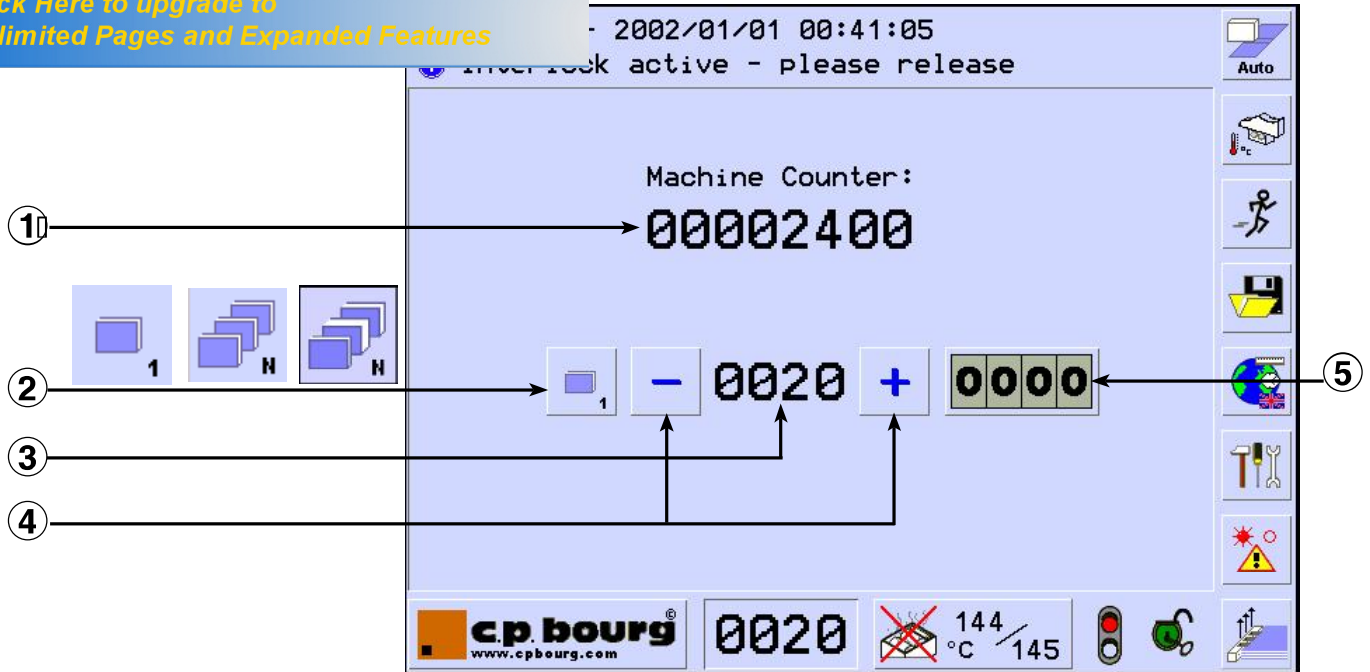


"**SERIES**" mode is used when the operator wishes to produce a series of books with identical thicknesses and formats. In this case, starting with the second book, the various initialisations (picking up and creasing the cover etc.) are performed before the operator places the paper in the carriage jaws. This increases the productivity of the binder.



"**SEMI-SERIES**" mode is used when the operator wishes to produce a series of books with identical formats but different thicknesses. In this case, starting with the second book, the cover is picked up before the operator has placed the paper in the carriage jaws. This increases the productivity of the binder.

Note: In "BLOCK" mode (no cover), there are no unit or series modes because there are no covers to clamp.



00002400

1. This first counter displays the total number of jobs completed since the machine was first put in service.



2. Pressing this icons changes the binder from "series" or "semi-series" mode to "unit" mode. The  icon indicates that unit mode has been selected.

0020

3. This running counter shows the number of books completed in the current job. The value of this counter is also displayed at the bottom of the screen.



4. These buttons adjust the running counter.



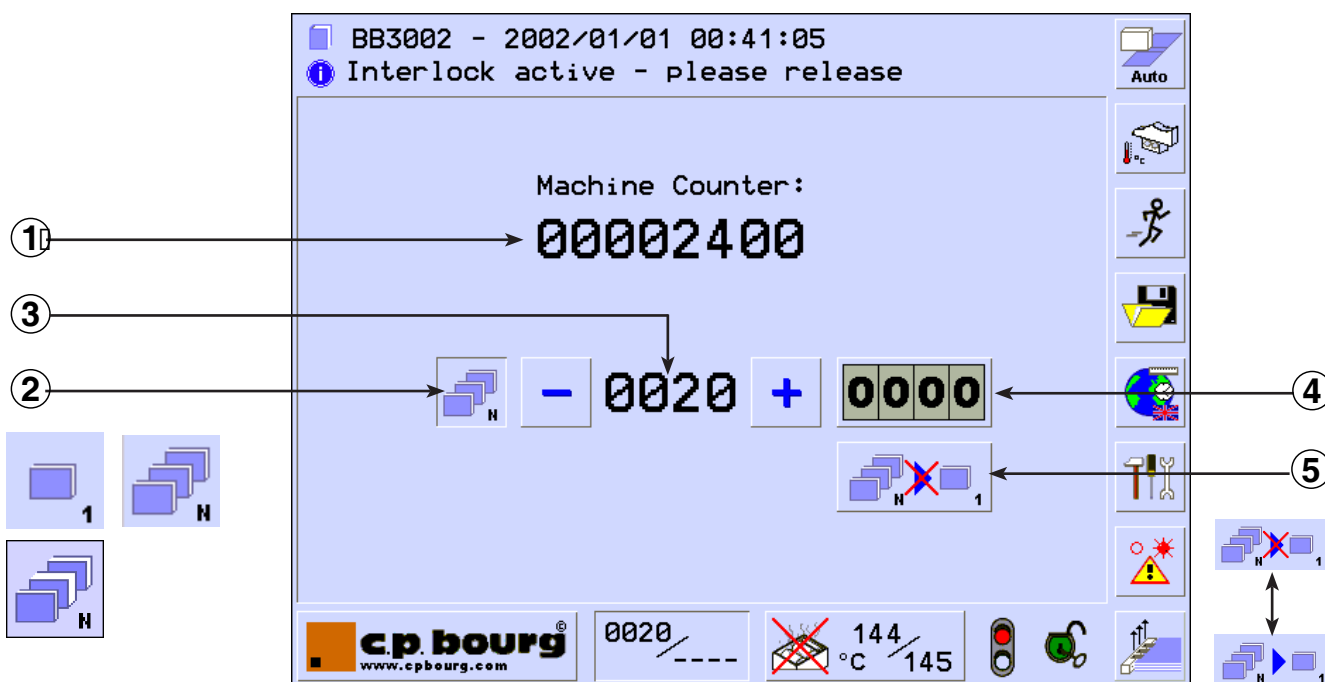
5. This button resets the running counter to zero.

4.4.2 SERIES mode:

There are two types of series mode:

- "continuous series" mode: To bind an undefined series of identical books.
The series mode is permanently selected.
- "preset series" mode: For a defined number of identical books.
The series mode is selected for a defined number of jobs (configurable via the UI).

A. "CONTINUOUS SERIES" mode:



00002400

1. The first counter displays the total number of jobs completed since the machine was first put in service.



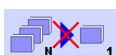
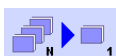
2. Pressing this icons changes the binder from "series" or "semi-series" mode to "unit" mode. The  icon indicates that series mode has been selected.

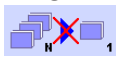
0020

3. This running counter shows the number of books completed in the current job. The value of this counter is also displayed at the bottom of the screen.

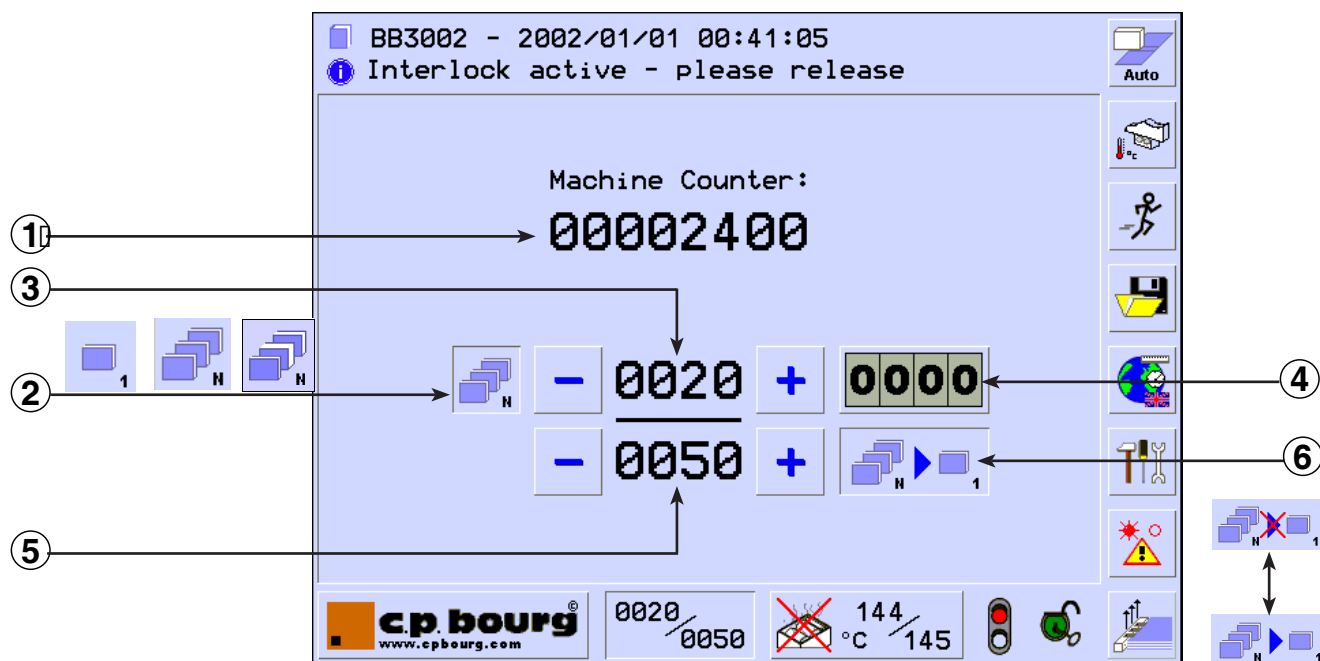


4. This button resets the running counter to zero.



5. Pressing this icons changes from "preset" mode to "continuous" mode. The  icon indicates that "continuous" series mode has been selected.

B. "PRESET SERIES" mode:



00002400

1. This first counter displays the total number of jobs completed since the machine was first put in service.



2. Pressing this icon changes the binder from "series" or "semi-series" mode to "unit" mode. The  indicates that series mode has been selected.

0050

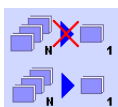
3. This running counter shows the number of books completed in the current job. The value of this counter is also displayed at the bottom of the screen.

0000

4. This button resets the running counter to zero.

0050

5. This button allows you to set the number of books required in series mode (in this case, 50). The value of this counter is also displayed at the bottom of the screen.



6. Pressing this icon changes from "continuous" mode to "preset" mode. The  indicates that "preset" series mode has been selected.

So in this example the "preset series" mode has been selected for 50 books. On the 51st binding, the binder will stop and return to "unit" mode (no further covers will be picked up).

If the operator starts producing another book, a further series of 50 books will be programmed using "preset series" mode.

4.4.3 "SEMI-SERIES" mode:

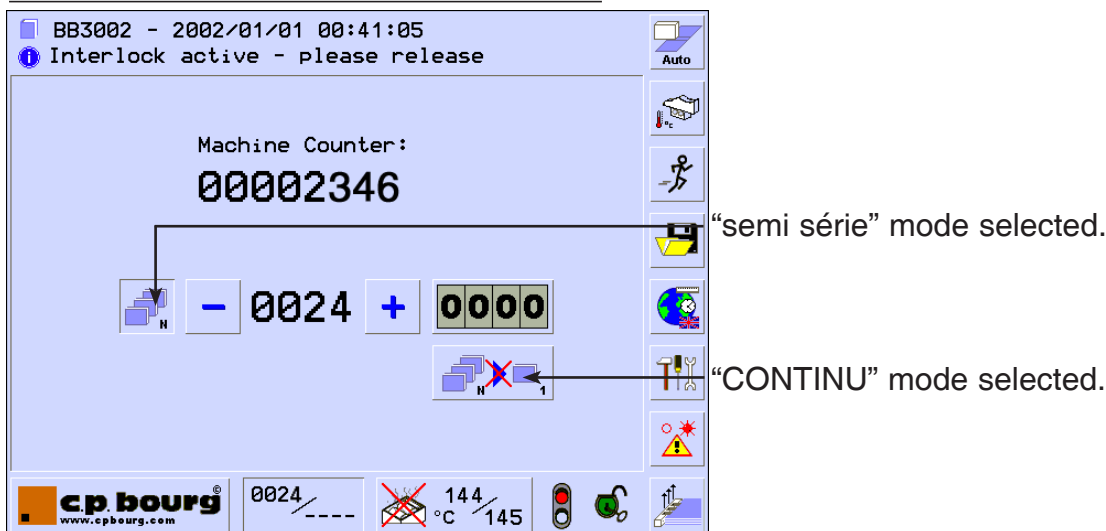
Like the series mode, there are two types of semi-series mode:

- "continuous semi-series" mode: To bind an undefined series of identical books.
The series mode is permanently selected.
- "preset semi-series" mode: For a defined number of identical books.
The series mode is selected for a defined number of jobs (configurable via the UI).

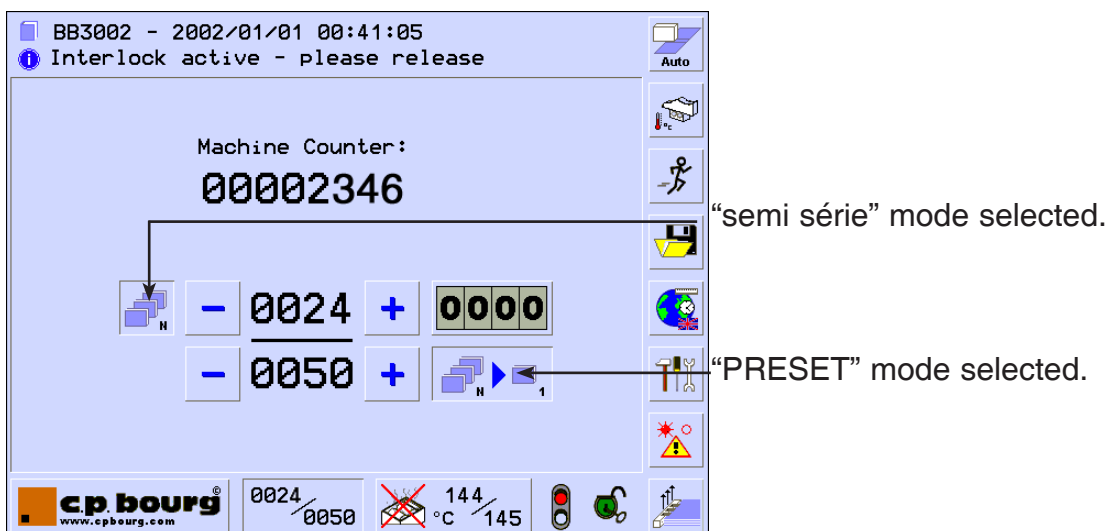
As a reminder, the "**SEMI-SERIES**" mode is used when the operator wishes to produce a series of books with identical formats but different thicknesses. In this case, starting from the second book, the binder picks up a cover before the operator has placed any paper in the carriage jaws. This increases the productivity of the binder.

The use of the semi-series mode is identical to that of the series mode.

A. "CONTINUOUS SEMI-SERIES" mode:



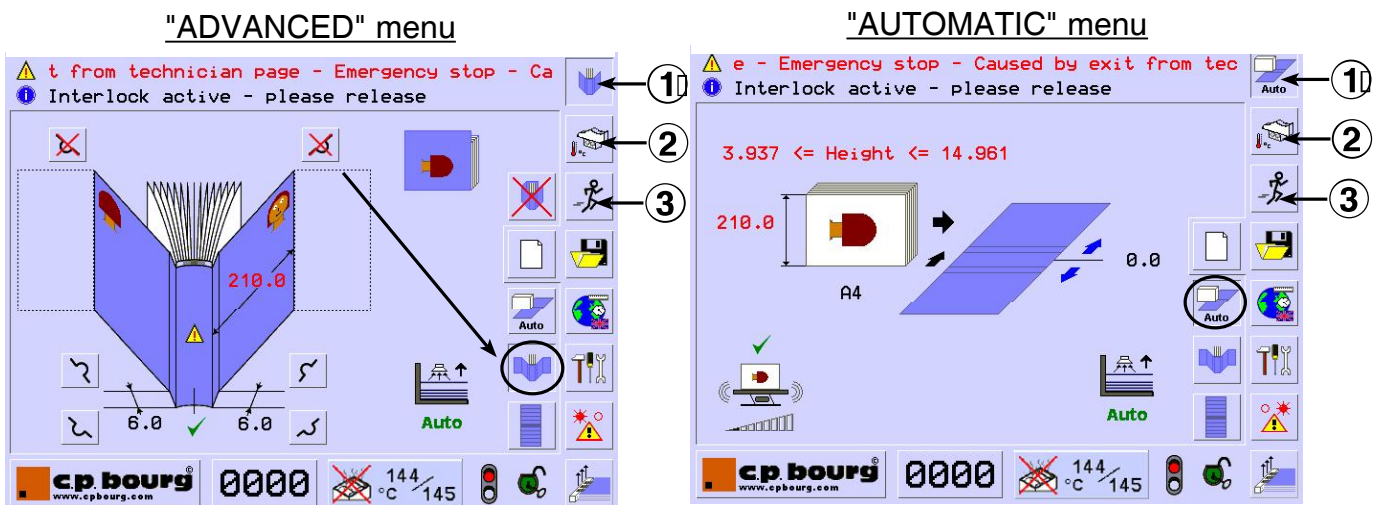
B. "SEMI-SERIES" mode:



binding and cover clamp parameters, making it possible to set parameters for specific parameters.

Accessing the advanced menu:

1. Press the icon (1) to access the advanced menu  .
2. To enter the parameters to the advanced menu, first **clear the selection of the "AUTO" function**.
Press the key (2)  .
- To return to the "AUTO" menu, press the same button again.



The structure of the screen depends on the selected menu:

- With the advanced menu: 1. Cover parameters.
2. Binding and milling parameters.
3. Job menu.
- With the automatic menu: 1. Automatic menu.
2. Binding and milling parameters.
3. Job menu.

The advanced menu is thus divided into two parts:

- Managing parameters for cover clamping  .
- Managing parameters for binding and milling  .

Notes:- Settings accessible from the ADVANCED menu:

Cover suction level  .

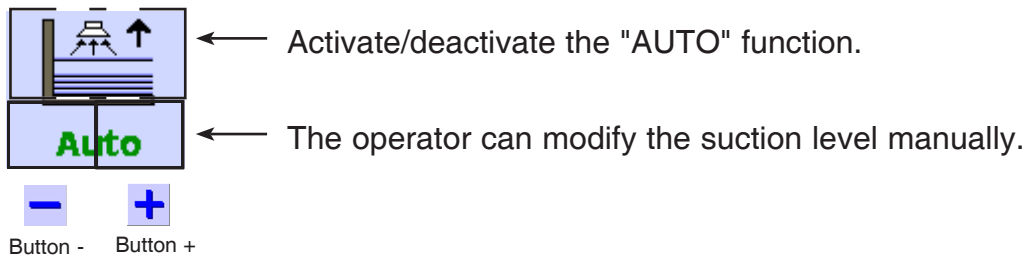
Cover suction level:

This button modifies the suction level for the cover to be picked up. Two operating modes are possible, depending on whether or not the "AUTO" function is active.

- If the "AUTO" function is active:

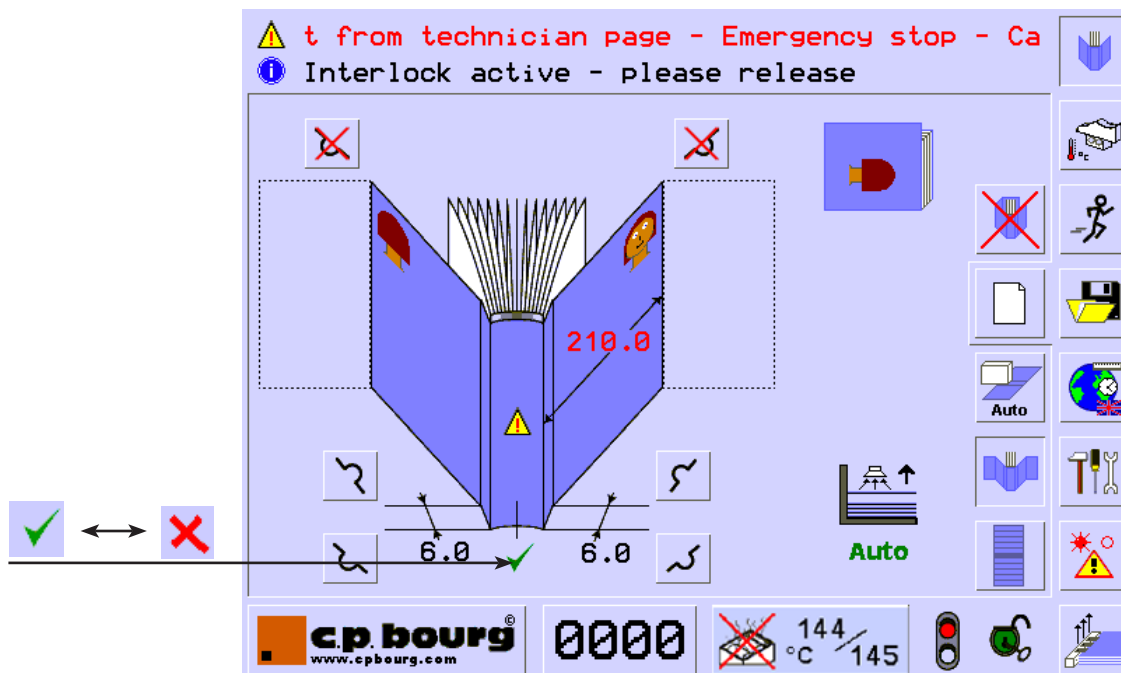
The  suction level is automatically adjusted according to the cover.

- If the "AUTO" function is inactive:



4.6 ADVANCED menu: Managing parameters for cover clamping

This menu enables you to set the parameters for cover clamping of the book.



4.6.1. Selecting "with cover" or "without cover" mode ("BLOCK" mode):



Pressing this button activates with cover mode.



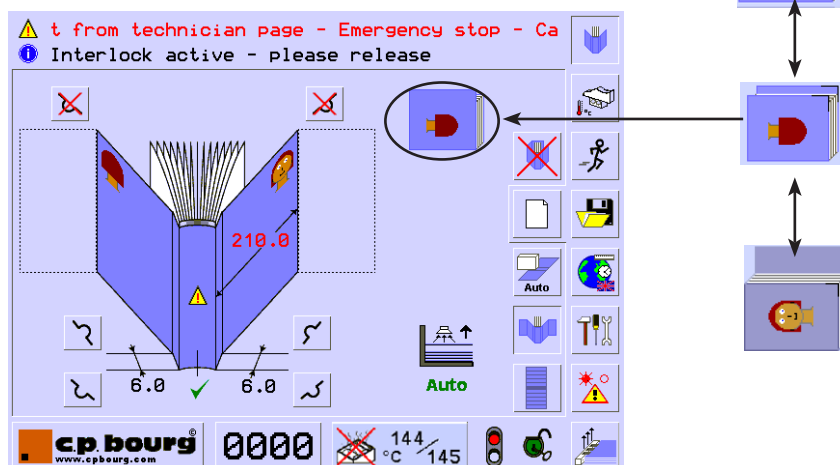
Pressing this button activates without cover mode (Block mode).

With cover mode is selected by default.

Notes: If Block mode is activated, the unused parameters relating to cover handling can no longer be selected.

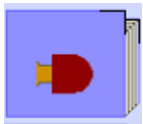
4.6.2 In "WITH COVER" mode:

4.6.2.1 Cover positioning modes:



There are three different ways in which the cover can be cased in:

- N / FIRST mode: Default mode.

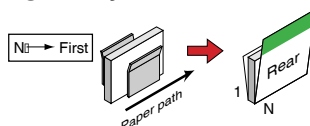


Direction in which paper moves

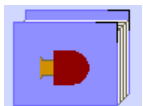
The edge of the front cover is positioned at the edge of the first page to be glued.

When the paper is loaded into the carriage jaws, the operator must place the back of the last page of the book facing him.

-> Books with cover wings only available in this mode.

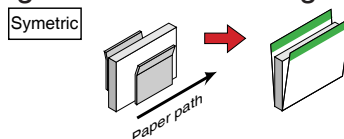


- CENTRE mode: The cover is positioned symmetrically over the spine of the book.

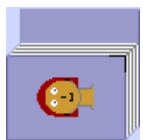


Direction in which paper moves

When the paper is loaded into the carriage jaws, the operator must place the back of the last page of the book facing him.

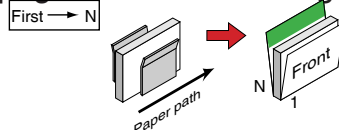


- FIRST / N mode: The edge of the front cover is positioned at the edge of the first page to be glued.



Direction in which paper moves

When the paper is loaded into the carriage jaws, the operator must place the front of the first page of the book facing him.



The options for creasing and the cover parameters to be entered vary according to the selected mode.

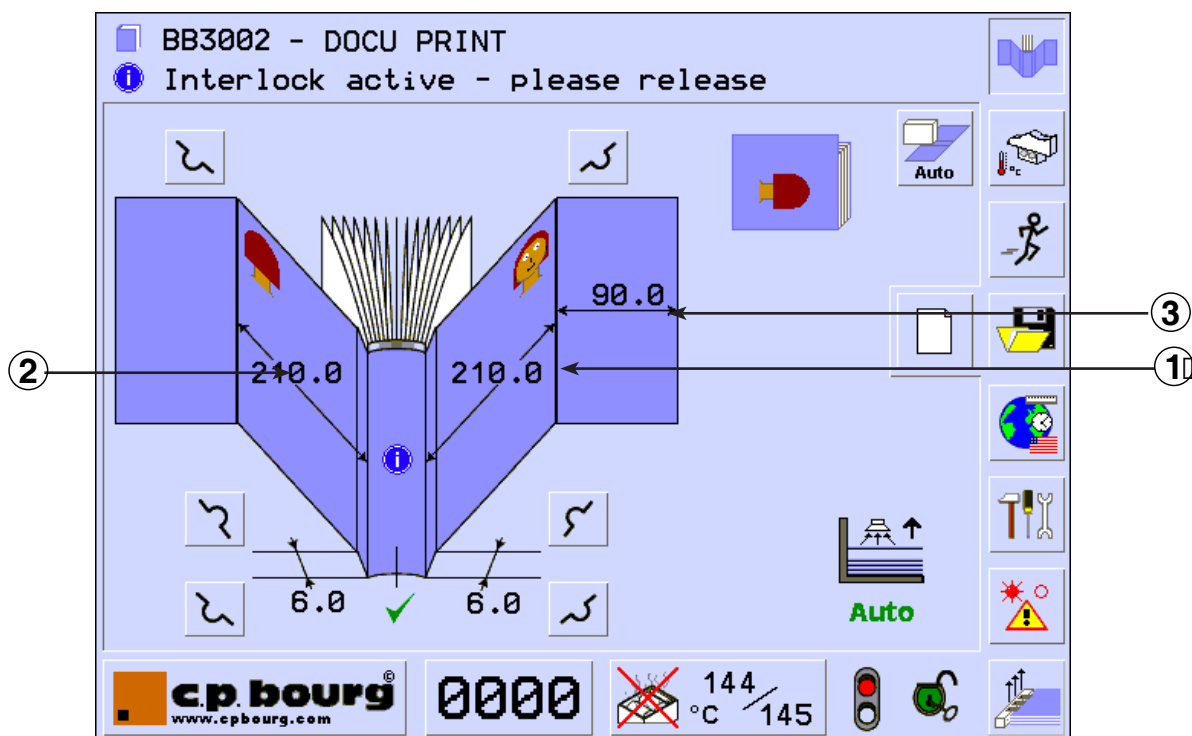
4.6.2.2 Selection and positioning of creases (optional module):

As indicated above, the creasing options and cover parameters to enter depend on whether N/FIRST, CENTRE or FIRST/N mode has been selected.

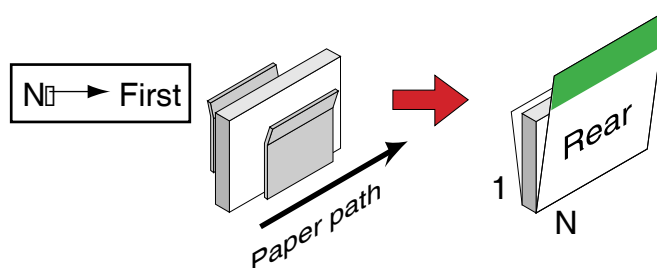
- With N/FIRST mode:



Note: Covers with folding wings are only available in this mode.

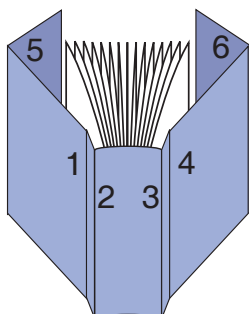
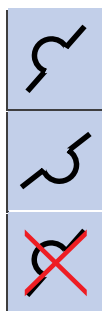


When the paper is loaded into the carriage jaws, the operator must place the back of the last page of the book to be bound facing him.

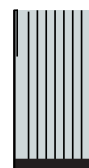


Selection of available creases:

Six creases are available in this mode. Each one can be selected upwards, downwards or selected. Press the icon representing the desired crease to change the crease shape.



- Creases 2 and 3 are positioned automatically according to the thickness of the book. When selected, they are positioned downwards by default.
- Creases 1 and 4 (courtesy creases) can be positioned as the operator wishes. A default value of 6 mm positioned upwards is proposed. This is the ideal default value for the use of optional lateral glueing.
- Creases 5 and 6 enable the production of books with folding wings. The wings must be folded manually after the bound book is delivered.



Select a downward crease for a fold inward (creases 2, 3, 5 and 6).

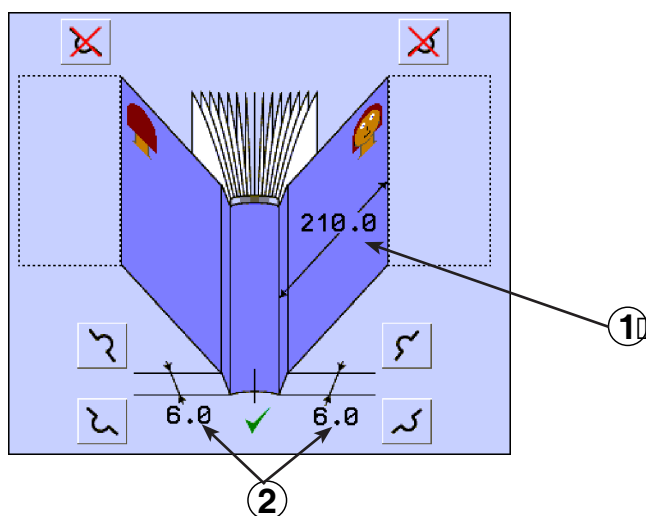


Select an upward crease for a fold outward (creases 1 and 4).



Values to enter in N/FIRST mode:

- The width of the front cover (width 1).
By default, the width of the front cover is equal to the height of the book.
- The position of the courtesy creases (width 2).
By default, the courtesy creases are placed 6 mm from the spine of the book.



Books with folding wings:

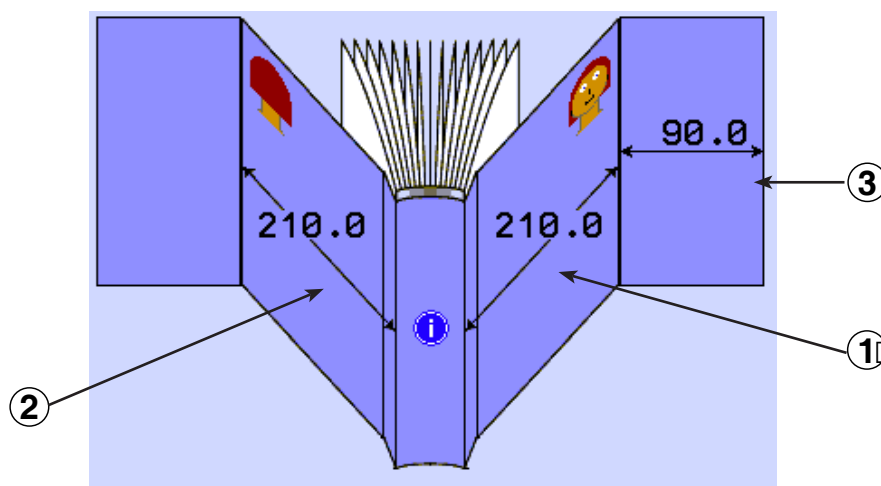
Books with folding wings are only available in N/FIRST mode.

If the operator wishes to produce books with folding wings, creases 5 and 6 must be selected using the  or  icon.

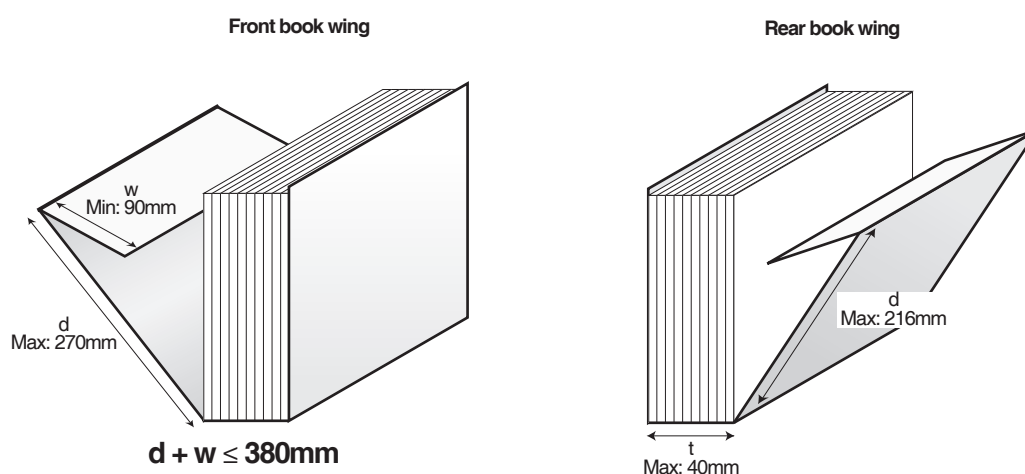
The operator must also specify the following widths:

- The width of the front wing (width 3), which is set to 90 mm by default.
The width of the back wing, depending on the length of the cover.
- The width of the front cover (1) and back cover (2).
By default, the width of the front cover is equal to the height of the book.

The wings must be folded manually after the bound book is delivered.



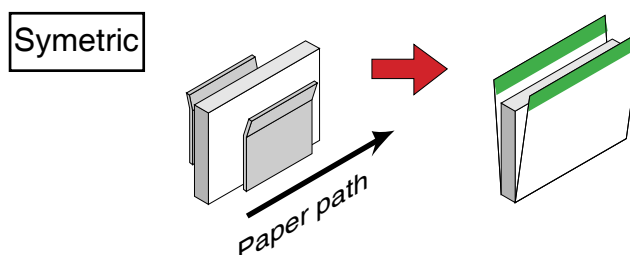
The largest formats for covers with wings are described in the diagram below.



- With CENTRE mode:

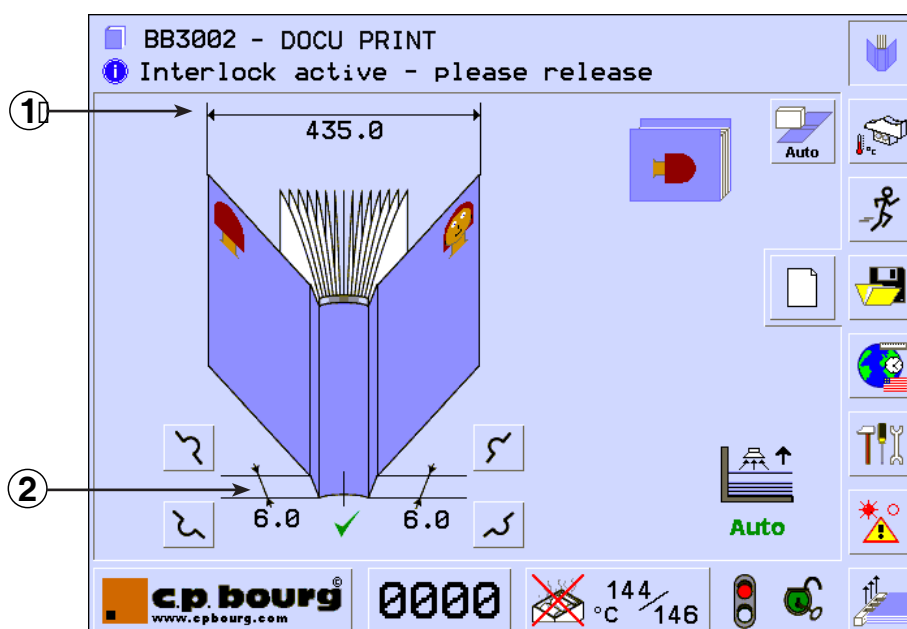


This mode enables the cover to be centred in relation to the book's spine.



It is used to centre inscriptions on the spine of the book.

As long as the inscriptions are in the centre of the cover, they will always be positioned on the



spine, whatever be the thickness of the book.

When the paper is loaded into the carriage jaws, the operator must place the back of the last page of the book facing him.

Cover wings are not available.

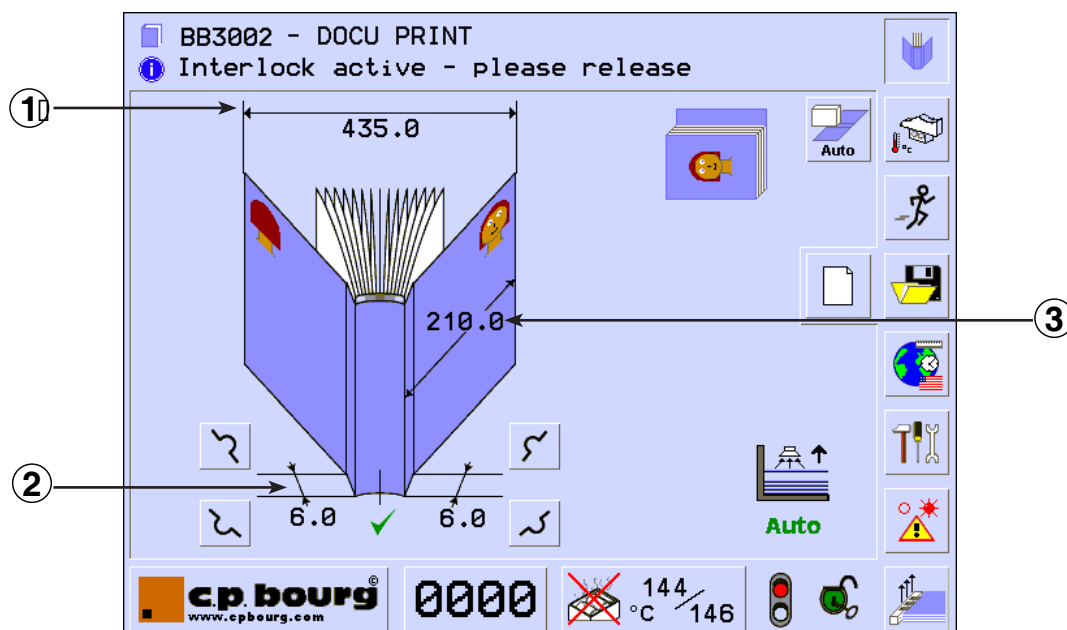
The values to enter are:

1. The total length of the cover.

2. The position of the courtesy creases (creases 1 and 4).

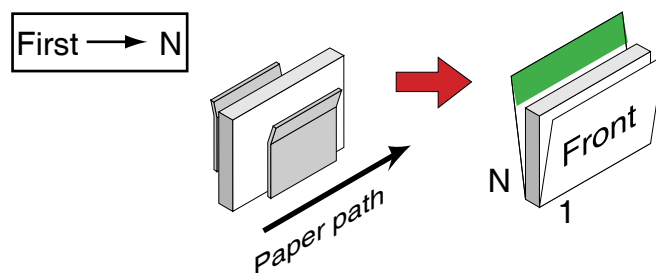
By default, the courtesy creases are placed 6 mm from the spine of the book.

- With FIRST/N mode:



In this mode, the edge of the front cover is positioned on the edge of the first page to be bound.

When the paper is loaded into the carriage jaws, the operator must place the front of the first page of the book facing him.

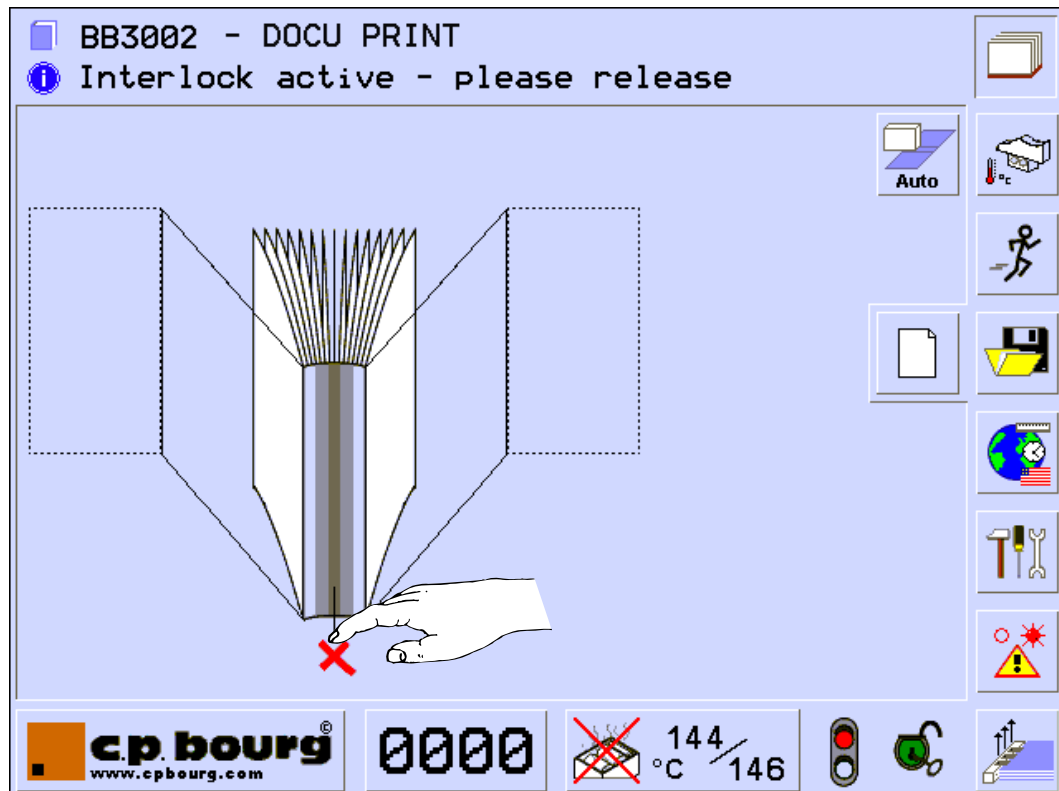


Cover wings are not available.

The values to enter are:

1. The total length of the cover.
2. The position of the courtesy creases (creases 1 and 4), which are set to 6 mm from the book's spine by default.
3. The width of the front cover. By default, the width of the front cover is equal to the height of the book.

4.6.3 In "WITHOUT COVER" mode:

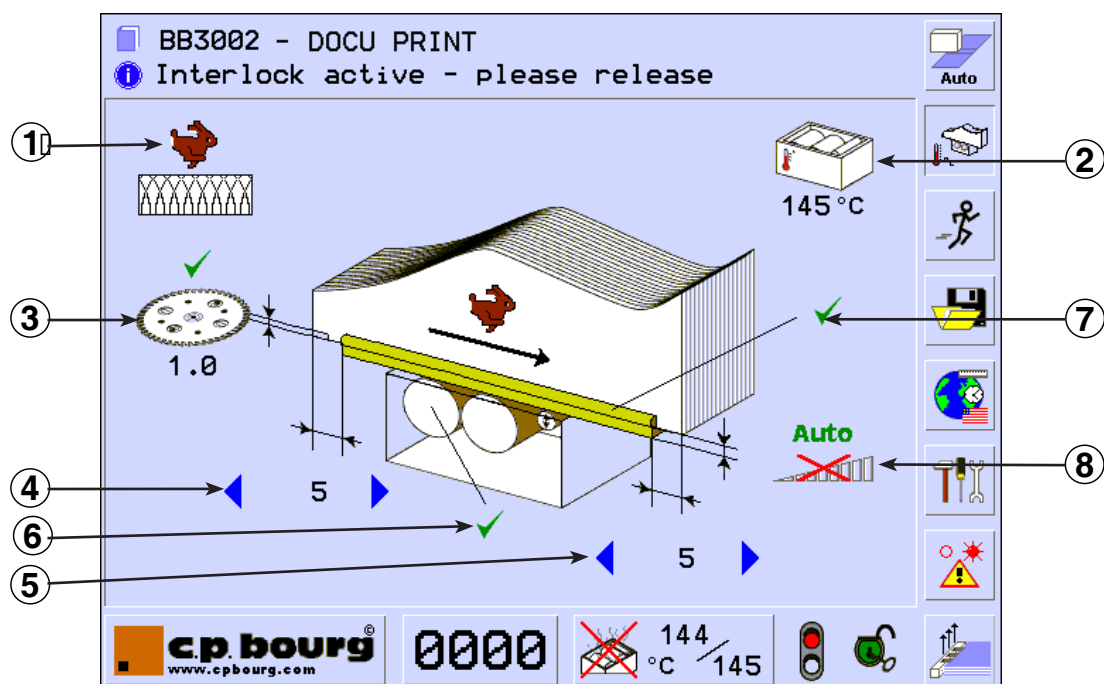


Pressing  activates without cover mode (Block mode).

In this mode, no cover parameters need to be entered.

4.7 ADVANCED MENU: Managing binding parameters

This menu enables you to set the parameters for milling and gluing the cover on the book.



1. Setting the carriage movement speed:

Automatic carriage movement speed.

Depending on the thickness of the book and the milling depth, the binder automatically calculates the carriage movement speed.



Slow carriage movement.

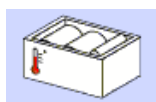
Regardless of the thickness of the book, slow carriage movement enables maximum notching of the spine, giving the best adhesion.



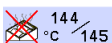
Press the icon to change from one speed to the other.

2. Setting the gluing temperature:

This icon enables you to set the gluing temperature.

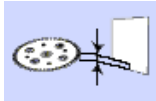


The possible range, centred on the nominal temperature, is $\pm 15^{\circ}\text{C}$. By default, the gluing temperature is set to 155°C .

The  icon at the bottom of the screen displays the gluing temperature at all times

(145°C in this example).

3. Selecting milling and the milling depth:



Pressing  or  activates or deactivates the milling of the book's spine.

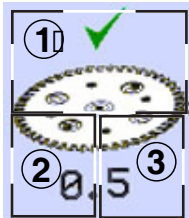
When milling is activated, the operator can modify the milling depth (between 0 and 3 mm).

- If the operator does not activate the rotation of the milling blade:
-> No notching and no milling.

In this case, the machine automatically withdraws the notching tools to keep them out of the way of the paper.

- If the operator activates the rotation of the milling blade but sets the milling depth to zero:
-> Notching but no milling.

Diagram of the button.



1. Activate or deactivate milling.
2. Reduce the milling depth by 0.5 mm.
3. Increase the milling depth by 0.5 mm.

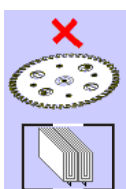
Notes: If Block mode is selected, there will be no notching by default and the milling tools will automatically be placed out of the way of the paper.

According to the paper thickness, paper type and paper grain direction, there is a limited number of milling depths and notching tools.

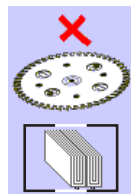
Special application: Binding of sewed book.

The BB3002 can create special applications, like binding of sewed books.

In this case, the milling must be deactivated. Then, the mode sewed (or not) can be chosen.



← Sewed mode selected.



← Non-sewed mode selected.

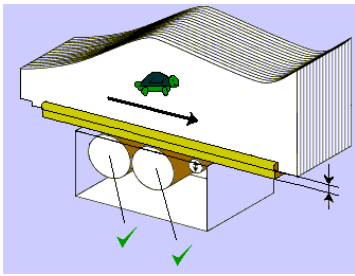
In sewed mode, the jogger plate is slightly lower than in non-sewed mode.

The edge of the book to be bound is closer to the gluing cylinders, this helps the glue adhere to the paper better.

For further details, see chapter 6.1: **Binding of sewed book.**

4 / 5. Setting front and back glue cut-offs:

Glue cut-offs enable you to stop applying the glue film at the front and back of the book's spine.

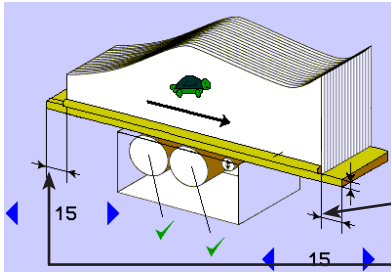


- In this case, the glue cut-offs are set at 15 mm from the edges of the book.

The arrows  and  modify this value.

Maximum value: 130 mm.

Default value: 5 mm.



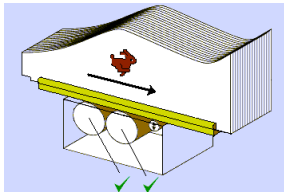
- If the operator reduces the value below 0 mm, the glue cut-off will be beyond the edges of the book. Glue will thus be applied to the whole spine of the book

Maximum value: 60 mm.

Front glue cut-off.

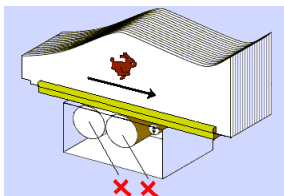
Back glue cut-off.

6. Activation/deactivation of the first and second glue roller:

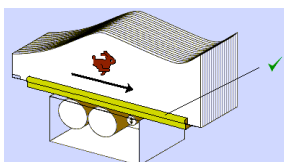


Pressing  or  activates or deactivates the first glue cylinder.

Note: In "Block" mode, the first glue roller is deactivated by default.

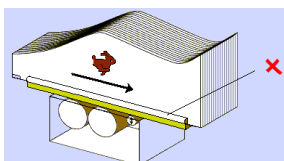


7. Activation/deactivation of lateral gluing:



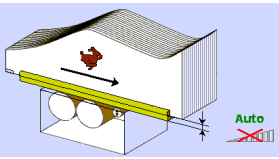
Pressing  or  activates or deactivates lateral gluing (if the option is installed).

Note: The front and back glue cut-offs for lateral gluing are identical to those for gluing on the spine of the book.



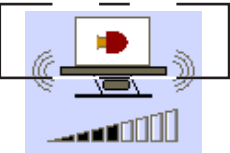
In "Block" mode, lateral gluing is deactivated by default.

8. Setting the thickness of the glue film:

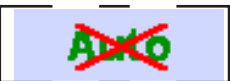


Using the  bargraph, the operator can increase or decrease the thickness of the glue film applied to the spine of the book.

Diagram of the button



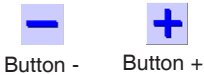
Activate/deactivate the "AUTO" function.



Activate/deactivate the "AUTO" function.

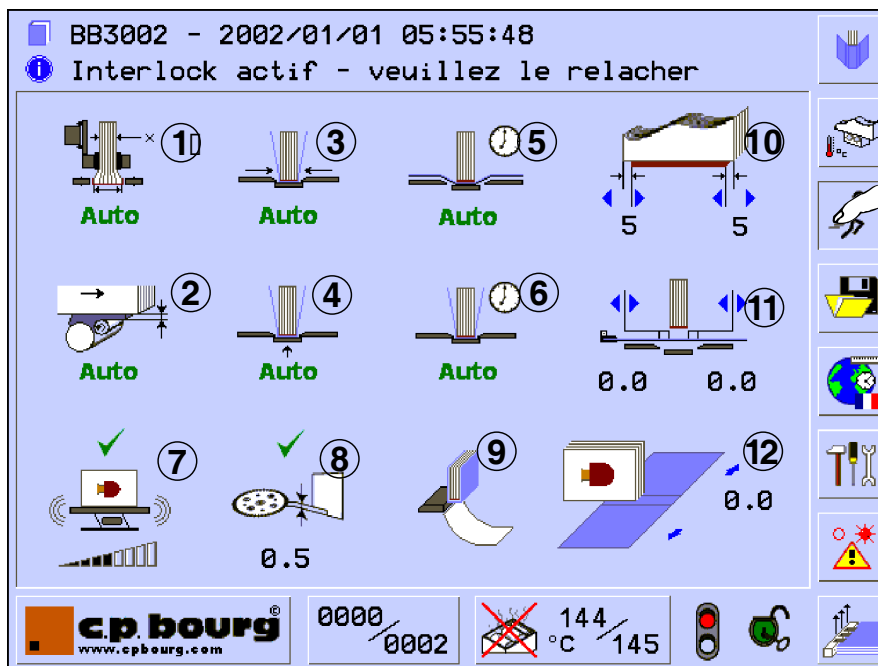


When the "AUTO" function is deactivated, the operator can modify the thickness of the glue film applied to the spine of the book.



4.8 "JOB" menu

This menu enables the operator to access a series of fine settings. These settings make it possible to get the most out of your BB3002 for delicate and/or specific jobs.



Note: When a new job is created, settings 1, 2, 3, 4, 5 and 6 are given their "AUTO" values. This means that these parameters are automatically adjusted according to the book to be bound.

The operator still has the option of setting these parameters manually.

1. Correction of the paper pile thickness to be bound

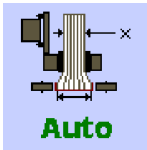
When the carriage clamp closes, the bottom of the pile (not gripped in the clamp) to be bound is larger than the paper thickness in the clamp.

This is frequent when using light paper (60 gsm) or pre folded paper and increase with the paper pile thickness.

To take this situation into account, a correction on the lateral gluing cylinders separation can be done with the following icon :

Two modes can be chosen depending on whether the AUTO function is activated or not :

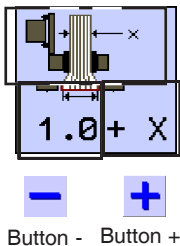
- AUTO function activated :



The thickness correction is automatically adjusted depending on the measured paper pile thickness.

- AUTO function NOT activated :

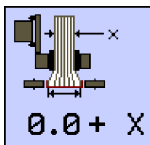
The thickness correction can be modified manually by the operator.



← Button: Activation / Deactivation of the AUTO function.

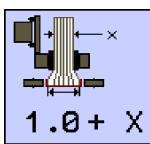
← Manual change of the thickness correction.

- When the correction is zero :



The distance between the lateral gluing cylinders is equal to the measured paper pile thickness at closing of the carriage.

- When the correction is different than zero :



The distance between the lateral gluing cylinders is equal to :

The measured paper pile thickness at closing of the carriage.

+

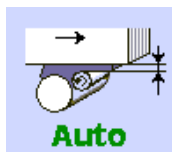
A correction depending on the measured thickness.

When correction = 1.0 : if measured thickness is 0 mm	-> correction is 0.0 mm.
if measured thickness is 30 mm	-> correction is 0.5 mm.
if measured thickness is 60 mm	-> correction is 1.0 mm.

When correction = 2.0 : if measured thickness is 0 mm	-> correction is 0.0 mm.
if measured thickness is 30 mm	-> correction is 1.0 mm.
if measured thickness is 60 mm	-> correction is 2.0 mm.

2. Setting the thickness of the glue film:

Using this button you can modify the thickness of the glue film applied to the spine of the book. Two operating modes are possible, depending on whether or not the "AUTO" function is active.

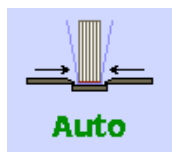


When the "AUTO" function is active, the thickness of the glue film is automatically adjusted according to the book to be bound.

When the "AUTO" function is inactive, the operator can change the thickness of the glue film manually.

3. Setting lateral pressure:

This button enables you to change the pressure applied laterally to the book during clamping. Two operating modes are possible, depending on whether or not the "AUTO" function is active.



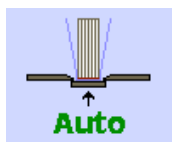
When the "AUTO" function is active, the lateral pressure applied during clamping is automatically adjusted according to the book to be bound.

When the "AUTO" function is inactive, the operator can modify the lateral pressure manually.

4. Setting the spine pressure:

This button enables you to change the pressure applied to the spine of the book during clamping. Two operating modes are possible, depending on whether or not the "AUTO" function is active.

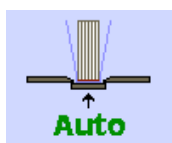
When the "AUTO" function is active, the spine pressure applied during clamping is automatically adjusted according to the book to be bound.



When the "AUTO" function is inactive, the operator can modify the spine pressure manually.

5. Setting the glue drying time before cover nipping:

This button enables you to change the glue drying time before nipping the book cover. Two possibilities exist, according to whether or not the "AUTO" function is active.



When the "AUTO" function is active, the drying time before nipping is automatically adjusted according to the book to be bound.

When the "AUTO" function is inactive, the operator can modify the drying time before cover nipping.

- In "with cover" mode: This time should be as short as possible.

However, when using light (or pre-folded) paper and lightweight covers, the drying time can be increased ($\cong$ 4 seconds) to produce a book with a well-squared spine.

The value can range from 0.8 seconds to 8 seconds in steps of 0.8 seconds.
Default value: 0.8 seconds.

- In "block" mode:

This time corresponds to the glue drying time before the book is output.
It is advisable to make this time as long as possible.

The value can range from 6 seconds to 26 seconds in steps of 2 seconds.
Default value: 16 seconds.

6. Setting the glue drying time during cover nipping:

This button makes it possible to modify the glue drying time during cover nipping.
Two operating modes are possible, depending on whether or not the "AUTO" function is active.



When the "AUTO" function is active, the drying time during nipping is automatically adjusted according to the book to be bound.

When the "AUTO" function is inactive, the operator can change the drying time during cover nipping manually.

The time can range from 0.8 seconds to 8 seconds in "with cover" mode only.

7. Activation/deactivation of the jogger + adjustment of the amplitude of the vibration:

This button toggles the vibration of the jogger plate and enables you to modify the amplitude of the vibration. The vibration of the jogger plate straightens the sheets in the paper bundle into a properly squared-off block.



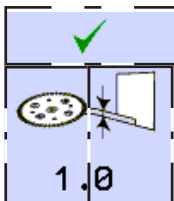
Pressing  or  activates or deactivates the vibration of the jogger plate.

Using the bar graph,  the operator can modify the amplitude of the vibration.

8. Activation/deactivation of milling + selection of milling depth:

This button activates or deactivates the milling of the pages to be bound and enables the milling depth to be set.

The milling operation gives better adherence of the glue to the paper and therefore a stronger hold for the pages.



Pressing  or  toggles the rotation of the milling blade.

The milling depth can vary from 0 to 3 mm (default value = 1 mm).

- If the operator does not activate the rotation of the milling blade:
-> No notching and no milling.

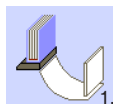
In this case, the machine automatically withdraws the notching tools so that they are out of the way of the paper.

- If the operator activates the rotation of the milling blade with a milling depth of zero:
-> Notching without milling.

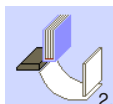
9. Book output mode:

Before being directed on to the conveyor, the book can be realigned by the cover clamps and the exit roller before being output.

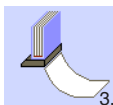
4 modes for the output of the book on to the conveyor are possible:



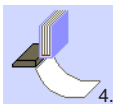
In this mode, the book falls on the clamps and then the exit roller before being output on the conveyor.



In this mode, the book falls on the exit roller before being output on the conveyor.



In this mode, the book falls on the clamps before being output on the conveyor.

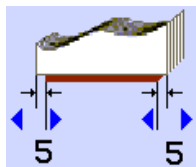


In this mode, the book is output directly to the conveyor. The book is therefore not realigned before being output on the conveyor.

Note: In padding mode, only output modes 2 and 4 are possible.

10. Configuring front and back glue cut-offs:

This button enables you to stop the application of glue at the front and back of the book's spine. The button changes according to whether the glue cut-offs occur on or beyond the spine.

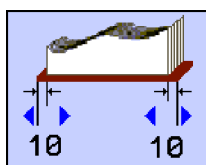


- In this case, the glue cut-offs are set to 5 mm from the edges of the book.

The arrows  and  modify this value.

Maximum value: 130 mm.

Default value: 15 mm.

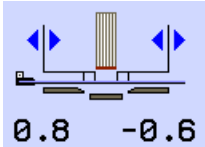


- If the operator reduces the value below 0 mm, the glue cut-offs will be beyond the edges of the book. Glue will therefore be applied to the whole spine of the book.

Example: In this case, the glue cut-off will be 10 mm from the edges of the book.

Maximum value: 60 mm.

11. Adjusting the creasing position:

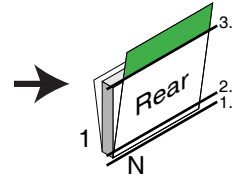


With this button the position of the creases on the front and back can be adjusted separately.

For example, in the case of a book with folding wing flaps, there may be 3 creases on the back:

1. Crease on the spine of the book.
2. Courtesy crease.
3. Crease for the wing.

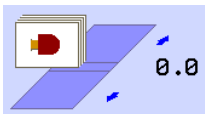
The operator can move these 3 creases at the same time so that the crease on the spine (crease 1 on the diagram) can be positioned exactly on the edge of the book's spine.



Modification in steps of 0.2 mm.
Maximum value: 5 mm.

The procedure is the same for the front cover.

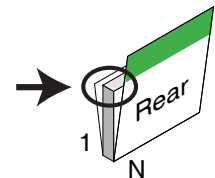
12. Adjusting the cover position:



This function enables you to align the cover position according to the height of the book. The value can be adjusted by up to ± 10 mm in steps of 0.2 mm.

Example: In N/FIRST mode.

If the cover overlaps the edge of the book by 1 mm, the operator can correct the position by 1 mm to align the edge of the cover with the edge of the book.



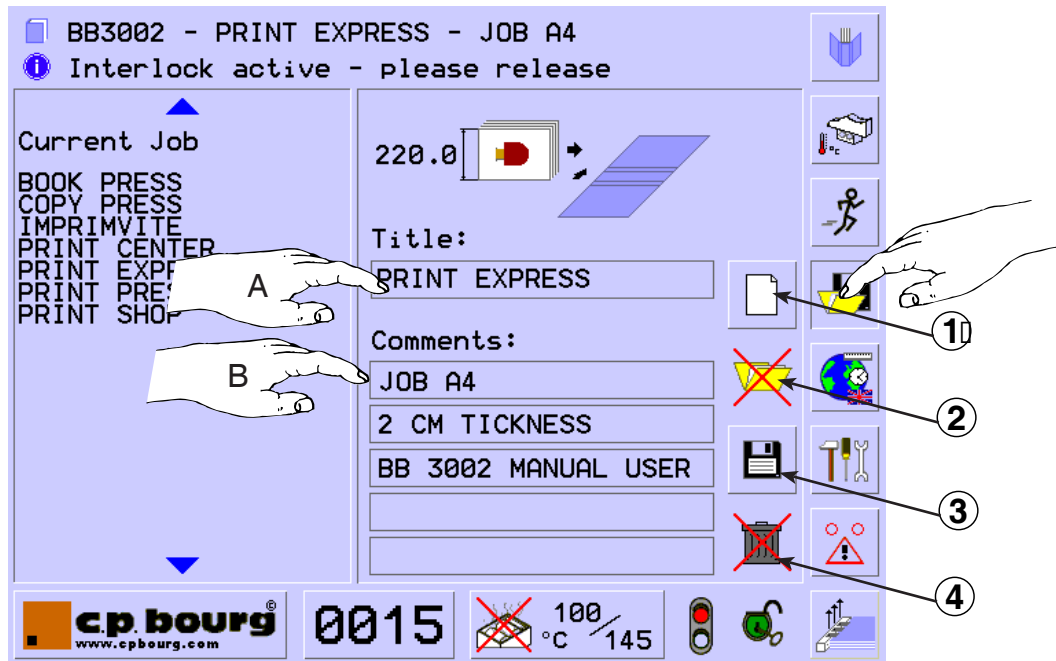
Note: This adjustment only affects the position of the cover in relation to the book; the creases remain centred on the spine.

4.9 "FILE" menu

The BB3002's graphical interface provides an easy and powerful way to manage your jobs. A job can be created (1), opened (2), saved (3) or deleted (4) simply by pressing the corresponding icons.

50 jobs can be saved in memory of the graphical interface.

To access the FILE menu, press the  button.



1. To create and save a new job:

- Press the  icon to create a new job. All the binding and cover clamp parameters for the new job will be set to their "AUTO" values.
- Choose the required parameters and options for the book you wish to produce in the "AUTOMATIC", "ADVANCED" and "JOB" menus.
- When the values for the book have been selected, return to the "FILE" menu by pressing the  button. The cursor is positioned on the current task in the left-hand column.
- Press text box A. An alphanumeric keyboard will appear on the screen. The operator can now enter the name of the new job and confirm it by pressing  on the keyboard. Comments may be added in the B text boxes.



Note: By default, the date and time are given as the name of the new job.

- Save the job by pressing the  icon. The job name is then displayed at the top of the screen, becoming the current job.

2. To open an existing job:

- The operator can open an existing job, making it the current job.
Saved jobs can be selected from a list that appears on the screen, in alphabetical order.
- The operator selects the required job by pressing the  icon.
The name of the job is then displayed at the top of the screen.
- If the operator wishes to modify a job, it must first be opened as explained above.
The job that has been opened becomes the current job.
The required changes can then be made. To save these changes, return to the "FILE" menu and press the save icon .

3. To delete an existing job:

- To delete a job, first select it from the pop-up list and then press the  icon.

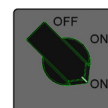
4.10 "TIMER" menu

The "TIMER" menu can be programmed to start and stop the glue tank heater automatically with no input from the operator.

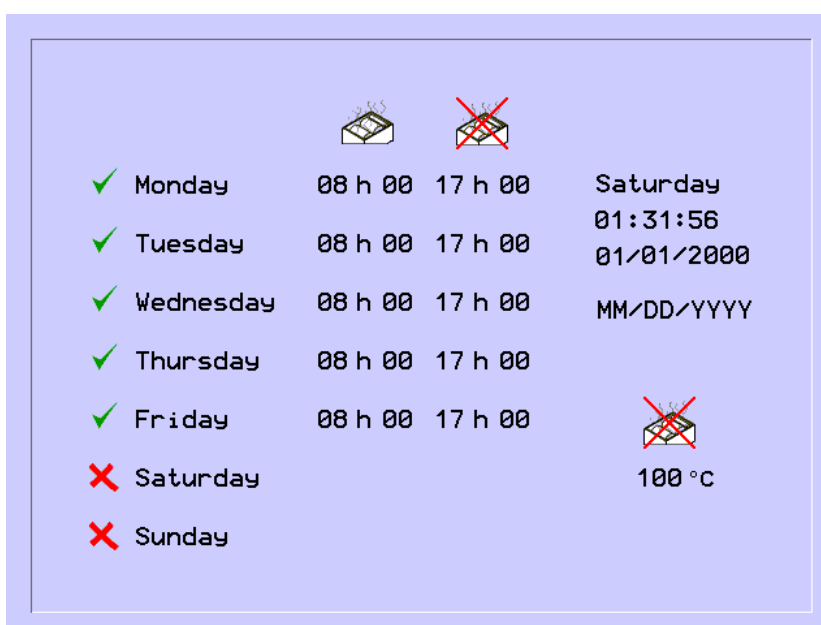
In this way, the glue tank can begin to heat up before the operator arrives, and the glue will be at the right temperature when the operator starts work.

When the tank heater starts, the tank enters stand-by mode. The target temperature is set to Min or Max temperature.

To access the "TIMER" menu, turn the binder's main switch to the third position (ON2).



The following image will appear on the screen.



Using the  and  icons, the operator can select or deselect the days of the week when the tank should be automatically heated, and control the start and stop times for the heater.

The  icon appears on the screen if the programmed times are inconsistent (e.g. from 8.00 to 7.00).

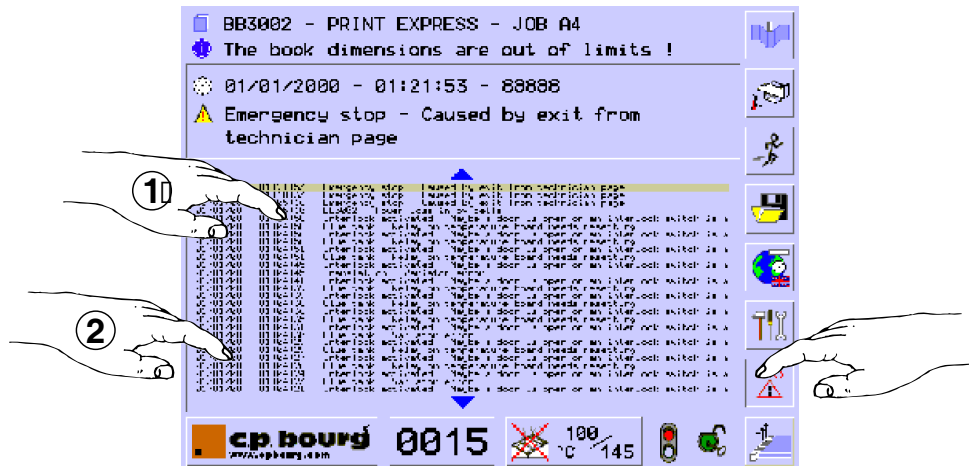
The  icon toggles the "TIMER" menu.

Thus the timer mode is only active if the main power switch is in the ON2 position.

4.11 ALARM" menu

The "ALARM" menu is accessed by pressing the  icon to the right of the screen. This displays the warning and error messages that have occurred since the machine was last switched on, in chronological order.

The errors and warnings can be selected to give further information about each message. Move the cursor up by using the button "1" or down by using the button "2".



- The flashing  indicates that the error and/or warning messages are current.

• Warning messages:

The warning messages inform the operator of a part of the machine which requires attention. The messages are displayed on the screen, but the machine remains operational and ready to produce a book.

Examples of warning messages: - Glue tank level too low.

- Dust bag full.
- Dust evacuation obstructed.

It is advisable to follow the instructions in warning messages to avoid binding quality being adversely affected.

• Error messages:

When an error occurs, the machine stops and displays a message on the screen. The operator must then follow the on-screen instructions to return the binder to normal operating conditions.

Once the correction has been made, it is often necessary to activate the emergency stop, then to release it and to press the green button in the loading area to reinitialise the binder.

Examples of error messages: - Emergency stop triggered.

- The glue is too cold – please wait.
- Please remove the cover from the machine.

Note: - Press the key  to delete the displayed messages.

- In case of frequency converter error, a message "Variator Error" appears. Power OFF/ON the binder.

4.12 "TECHNICIAN" menu

To access the technician menu, you must press the key  on the right of the screen.

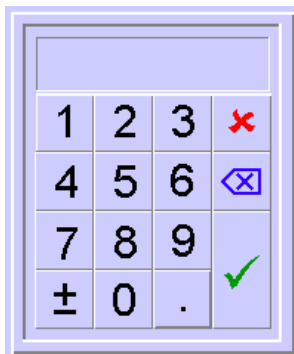
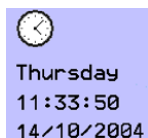
The header window is displayed on the screen.

The header window enables to :

- Restart the binder.
- Set date and time.
- Open and close the cover clamps.
- Know the thickness of the last booklet bound.



4.12.1 Setting the date and time:



- To change the time, press the hours, minutes or seconds. A numeric keypad will be displayed, on which the correct time can be entered.

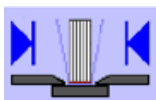
Confirm the time by pressing .

Cancel the operation by pressing .

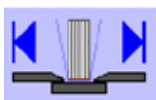
Delete the last number by pressing .

- The date can be changed in the same way.

4.12.2 Opening/closing the cover clamps:



These two buttons open and close the cover clamps.



This is useful for cleaning, removing films of glue from the non-stick cover clamp plate.

Note: As a safety measure, clean the plate with the interlock open.

4.12.3 Restarting the graphical interface, the PLC and communication between them:

In the event of problems, it is possible to:

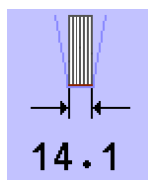
- Restart the touch-screen (UI).
To completely reinitialize the UI software.
- Restart the binder's computer (PLC).
To completely reinitialize the binder software.

Attention: A power OFF/ON does not reinitialize the software.

- Restart communications between the screen and the PLC.

Note: If the error continues, check the connection from the UI's serial port to the PLC.

4.12.4 Thickness value of the last booklet bound:



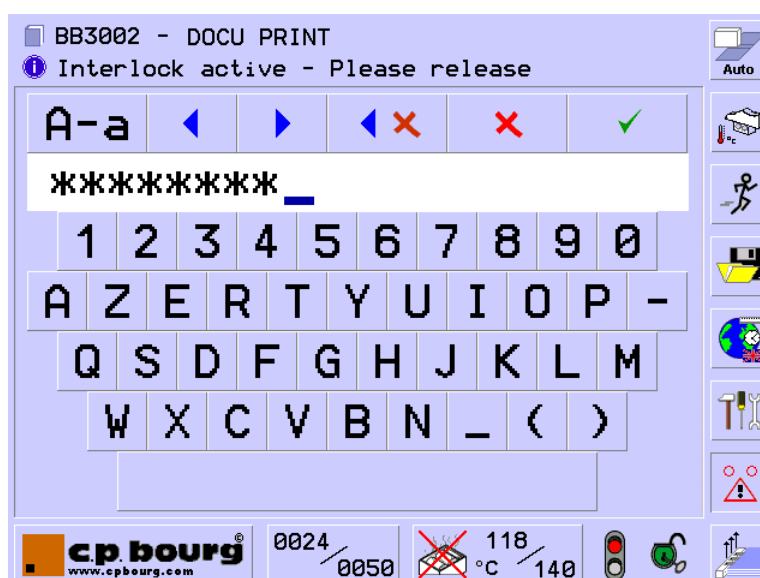
At anytime, the operator can also know the thickness value of the last booklet bound.

This can be used in application like “doctor booklet” in which the thickness should be entered for the second wing length.

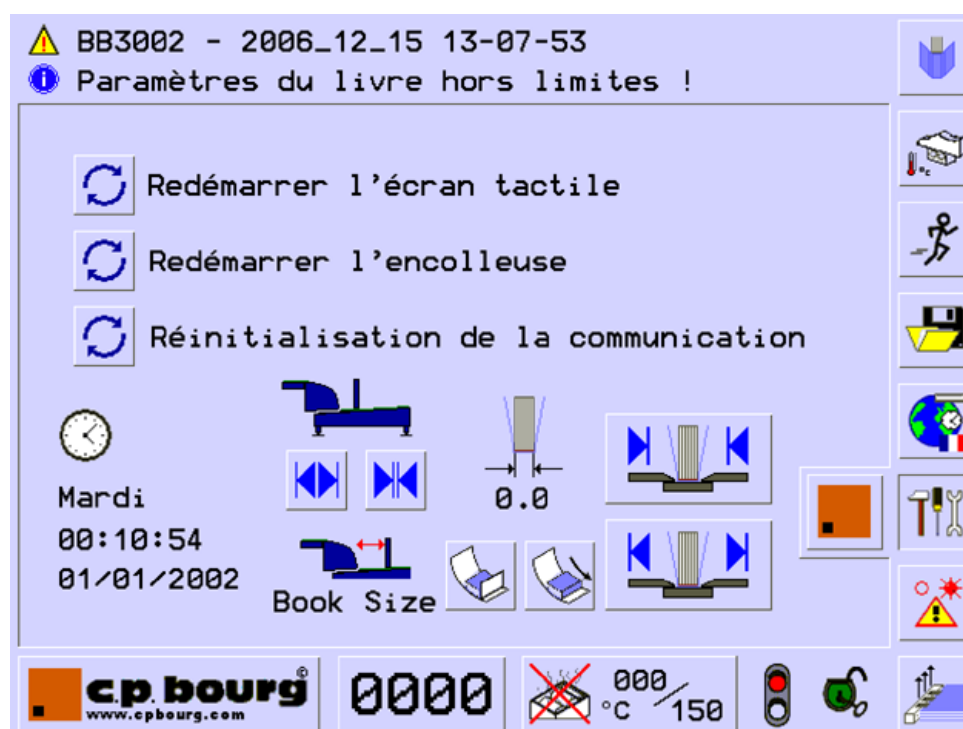
4.12.5 Accessing the advanced menu:

Press the  icon to access the technicians' advanced menu.

An alphanumeric keyboard will appear on the screen, and a password will be requested. Only qualified technicians will know this password, giving access to the advanced menu.



4.12.6 Exit roller mode :



These controls are also described in the Technician menu section 4-3.1 Advanced menus :
“STATUS” - 3.1.7 : Cover clamp.



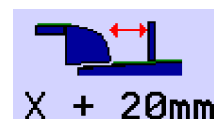
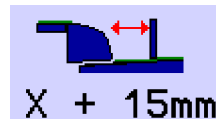
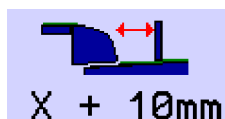
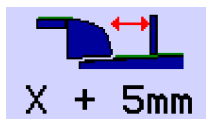
Roller lift command.



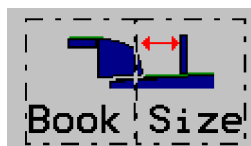
Roller descent command.

4.12.7 Checking the opening/closing the BBR:

Using this function, the BBR initial opening can be adjusted before the book arrives. The BBR can open 5, 10, 15, 20 mm wider than the thickness of the book.



Note : The maximum opening is 60 mm.



The operator can modify the opening by pressing on left of the button to reduce the value or on right to increase the value.

This button is only available if a BBR is connected to the binder.



Press this button to open the BBR to the maximum (60 mm).



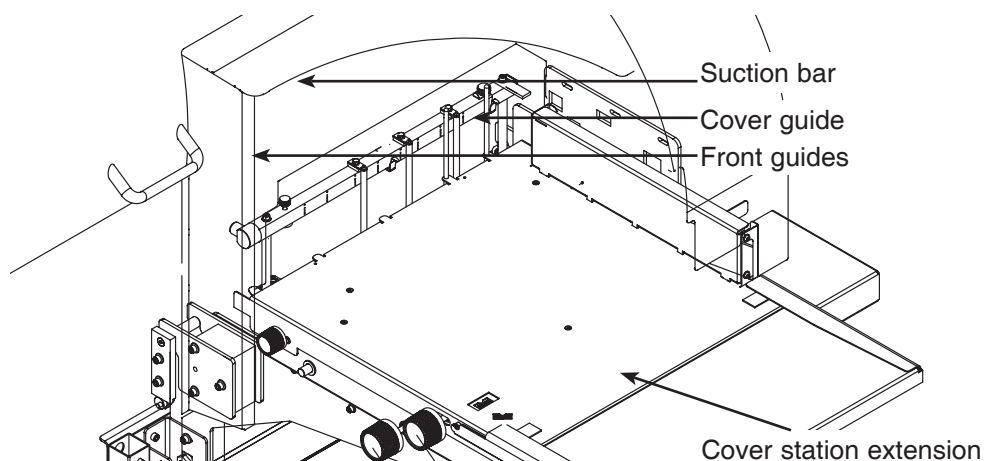
Press this button to close the BBR to the minimum (0 mm).



Push this button to lock the U.I. The screen saver starts.
Enter the password 1234 to unlock the U.I.

5. PREPARING THE BINDER

5.1 Loading the cover station



The cover station must be reloaded when there are no more covers on the tray.

To do this:

- Raise the suction bar.

This command is carried out when a pause is requested using the UI (press the button at the bottom right of the screen).



- Remove the magnetic side guides.
- Place the pile of covers against the front guides and the cover guide.

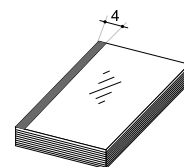
Notes: - Visible face downwards:

-> Front page towards front guides (in N/FIRST and Centred modes).

-> Back page towards front guides (in FIRST/N mode).

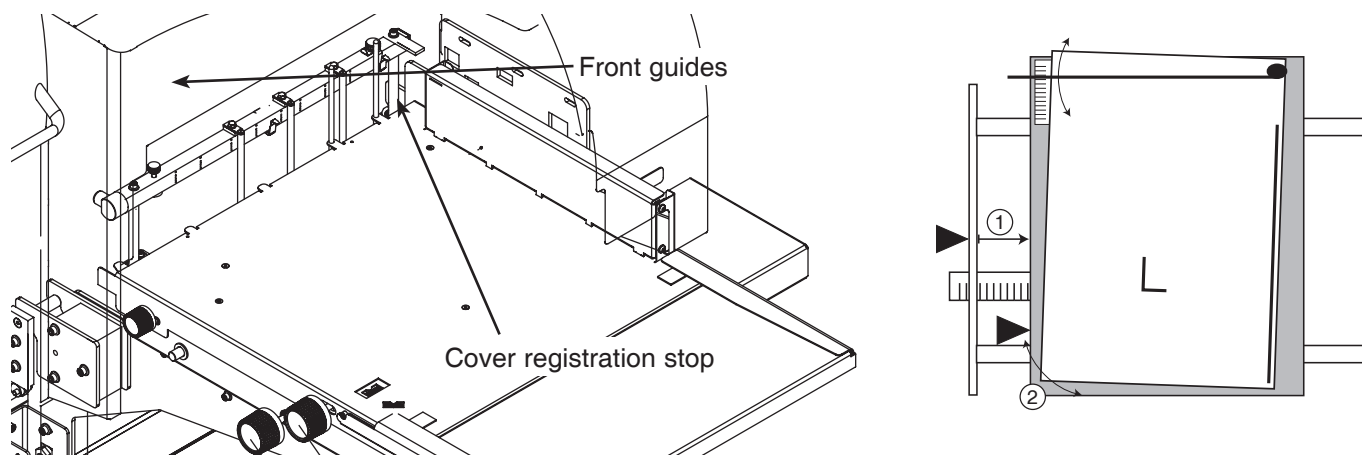
- For long covers (longer than 480 mm), add the cover station extension.

- Place the magnetic side guides (les plots magnétiques) against the covers to correctly hold the pile of covers in place.



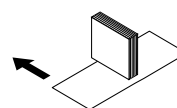
Warning: For covers with transparent fronts, ensure that the plastic is at least 4 mm from the fold.

5.2 Adjusting the cover position on the book



Using the cover guide mounted on the cover station tray, the position of the cover on the book can be adjusted.

3 knobs on the cover station enables the following adjustments:



- The lateral position of the cover in relation to the book

Adjust the position of the cover registration stop using the ridged knob (1) to align the cover correctly on the document.

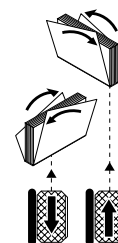
1 turn of the knob moves the guide 1 mm.

- Straightening the cover on the book.

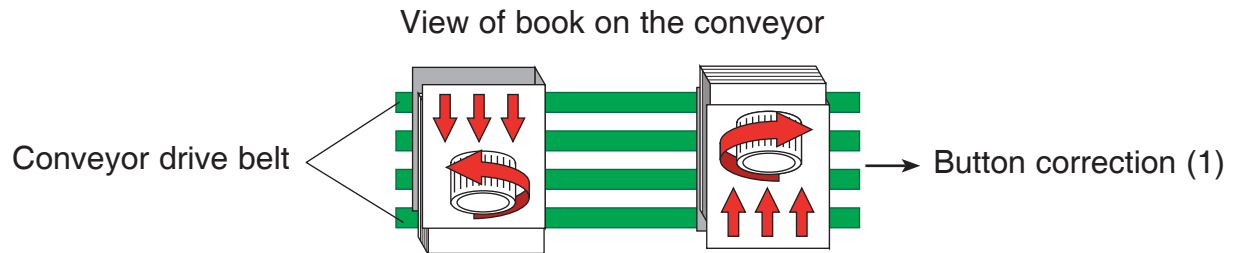
Adjust the angle of the cover registration stop using the ridged knob (2) to straighten the cover in relation to the book.

In N/First and Centred modes, straighten the cover as shown on the diagram to the right.

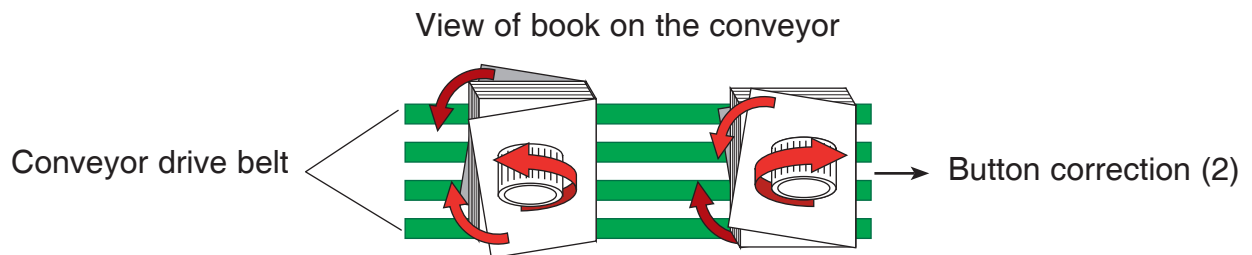
In First/N mode, the correction is inverted.



- Lateral position of the cover in the relation to the book :



- Straightening the cover on the book :

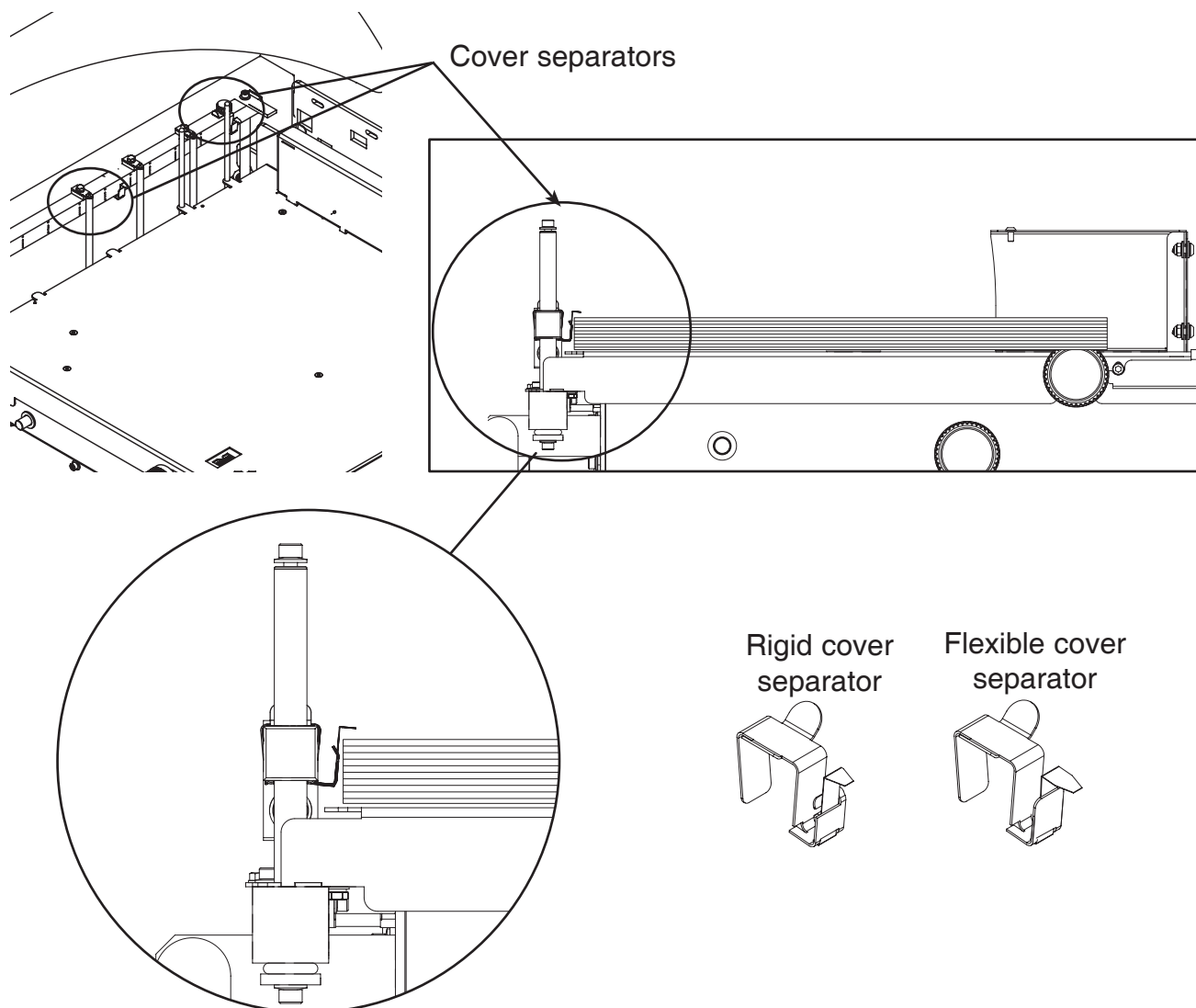


- Button (1) is used to adjust the lateral position of the cover relative to the book
Adjust the position of the register guide using the knurled knob (1) to align the cover correctly on the document.
1 turn of the knob moves the guide **1 mm**.
- Button (2) is used to adjust the squareness of the cover on the book.
Adjust the inclination of the register guide using the knurled knob (2) to square the cover correctly relative to the book.

In N/First and Centred modes, straighten the cover as shown in the diagram (3).
In First/N mode, the correction is reversed.

5.3 Cover picking and separators

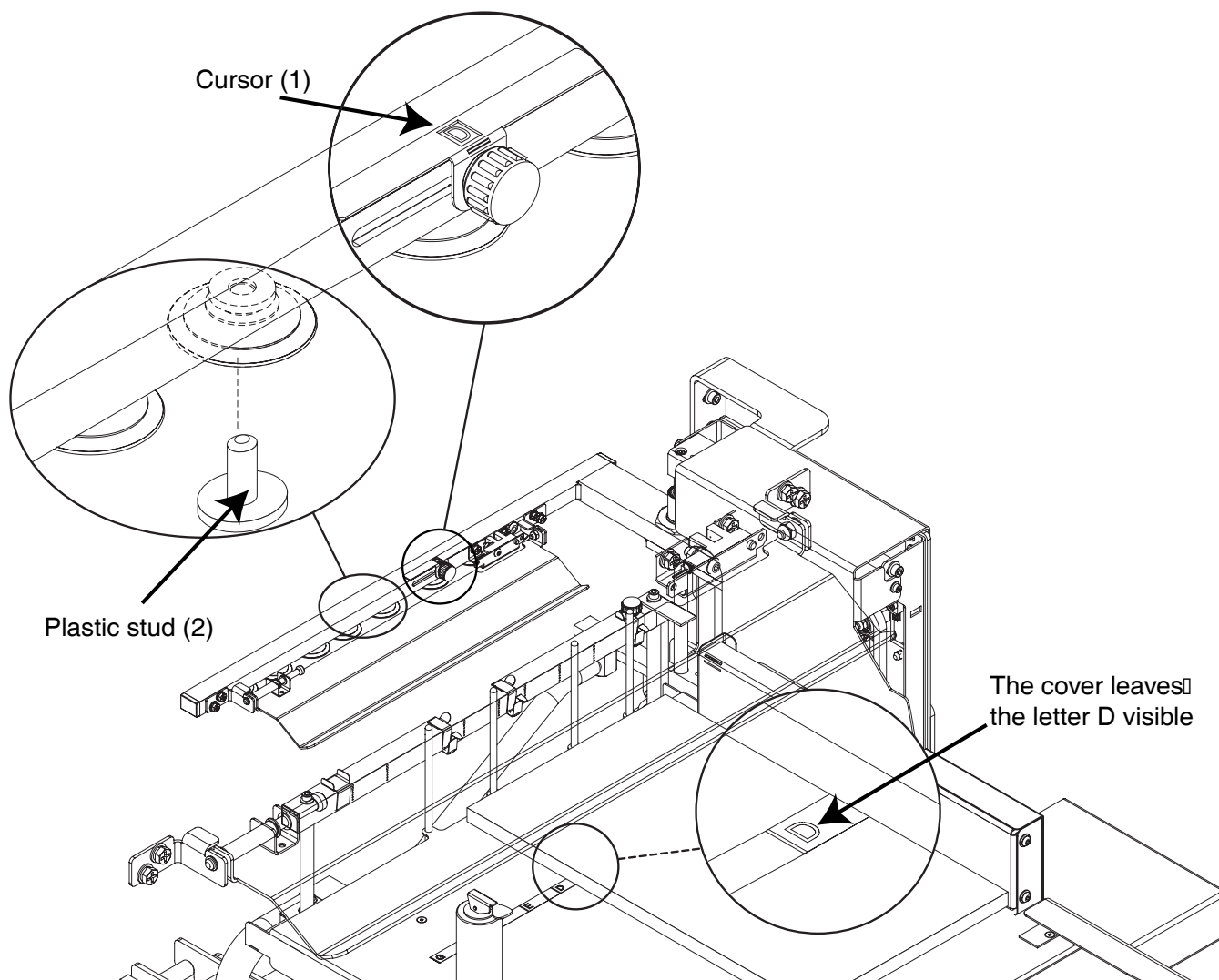
5.3.1 Separators:



- Suction and blowing can be adjusted together in the UI using the  icon in the "JOB" menu (see section 4.8 : **JOB" menu**).
- Adjust the position, number and type of the separators to optimise cover separation. Place the separators just above the pile of covers (as shown in the diagram above).

5.3.2 Cover suction:

According to the width of the cover, the operator must adjust the position of the cursor (1) to ensure that the covers are picked up correctly.



Example:

Place the covers on the cover station tray.

In the above example, the cover leaves the letter "D" visible.

Unscrew the cursor (1) and adjust its position so that the letter "D" appears.

The principle is to adjust the position of the cursor (1) to the letter visible on the cover station just next to the cover.

According to the cover material, additional plastic stud (2) may be installed to limit the suction.

5.4 Glue tank

5.4.1 Setting the glue temperature:

By default, the gluing temperature is set to 155°C. A technician is able to change the gluing temperature by default according to the used glue (from 130°C to 180°C).

However, the operator has the option of adjusting the gluing temperature of $\pm 15^{\circ}\text{C}$ using the  icon (in the gluing parameters in the "ADVANCED" menu).

The operator must also press the  icon at the bottom of the UI screen for the glue to reach the required gluing temperature.

5.4.2 Glue level in the tank:

Notes: The glue level in the tank is checked when the glue has reached the required temperature and the cylinders are rotating.

If the glue level is too low, a warning message appears on the screen to inform the user that there is not enough glue in the tank. The operator must refill the tank with glue granules. For further details, see section 6.3 - **Emptying the glue tank**.

If the glue level is higher than the "MAXI" level, a warning message appears on the screen. The operator must remove the surplus glue from the tank through the emptying valve. For further details, see section 6.3 - **Emptying the glue tank**.

5.4.3 Safety shut-off in the event of glue overheating:

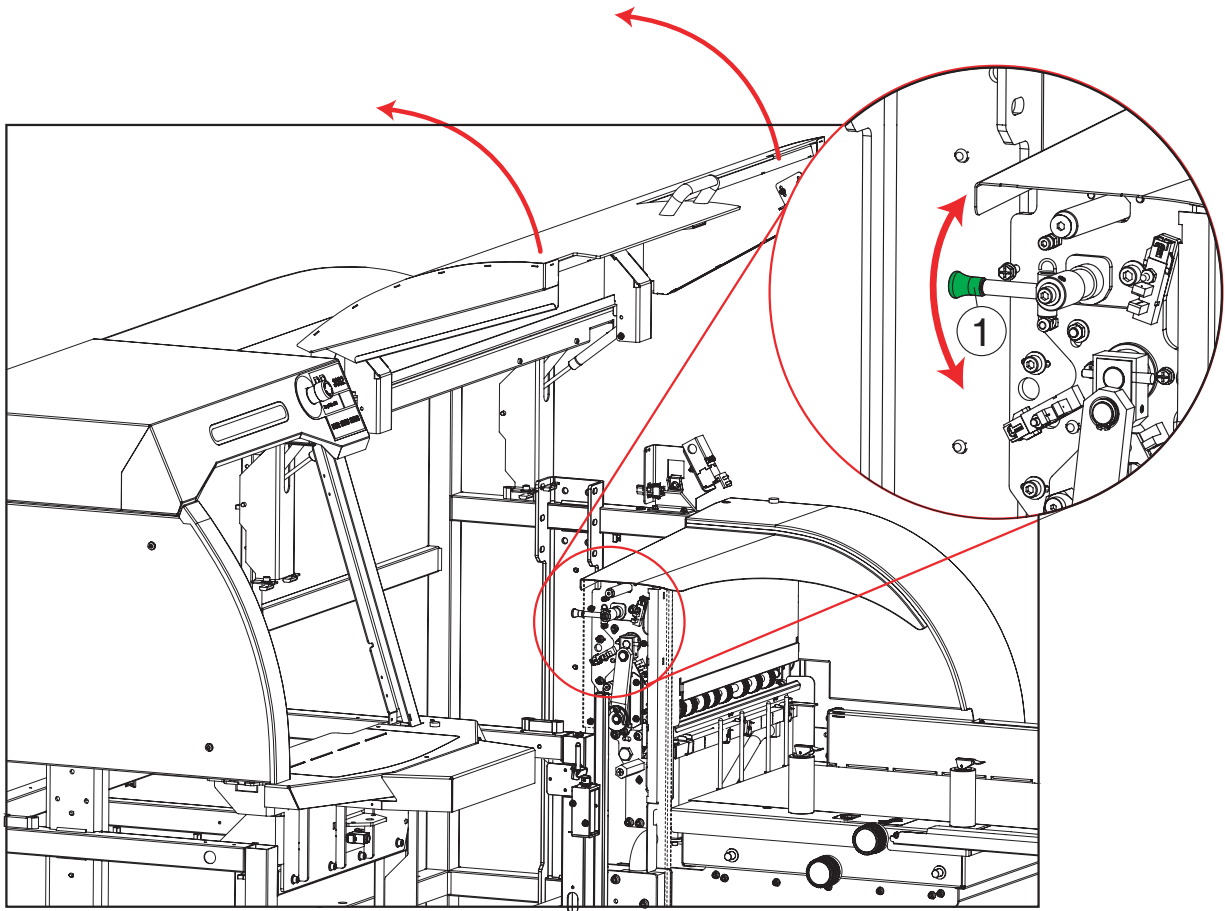
In accordance with international regulations, the glue tank is equipped with a temperature checking system. This device shuts down the machine if the sensor detects a glue temperature in excess of 190°C.

The device included in the BB3002 binder requires the use of a glue whose application temperature is less than 165°C. If the protection system is triggered, the machine will shut down and an error message will be displayed on the screen. The machine can only be restarted by a qualified technician.

5.5 Creasing depth adjustment

Adjust the depth of the crease depending on the used cover. For that purpose, use the lever (1).

- Lower the lever (1) to increase the pressure in order to obtain sufficient deep notch in the cover.
- Raise the lever (1) to decrease the pressure when the cover stays in the matrix.



6. SPECIAL APPLICATIONS

Thanks to the technology used for the BB3002, some customised bindings using special parameters can be created.

6.1 Binding of sewed book

In sewed mode, a cover can be applied on a sewed book beforehand.

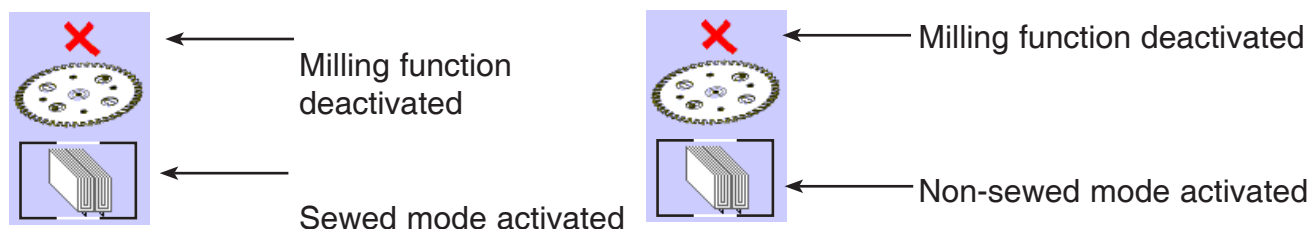
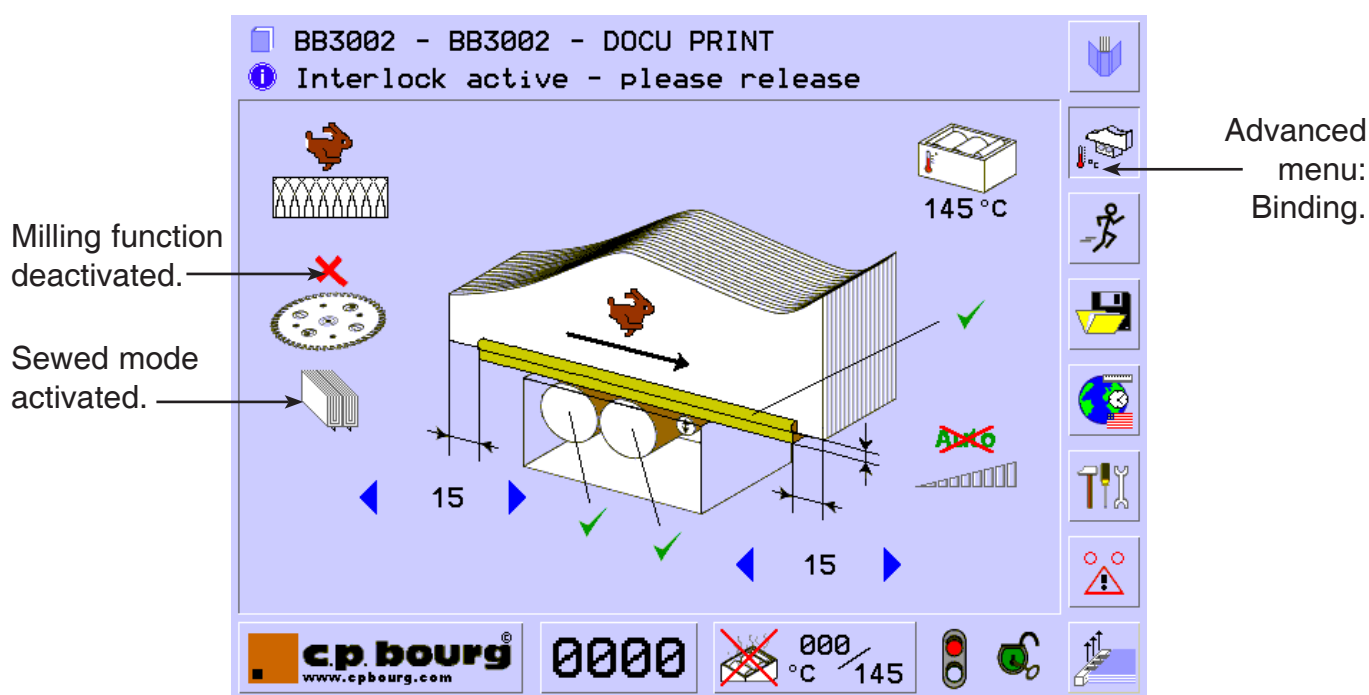
The jogger plate is slightly lower than in non-sewed mode.

The edge of the book to be bound is closer to the gluing cylinders; this helps the glue adhere to the paper better.

- Accessing the sewed mode :

In the advanced menu, clear the selection of the milling function.

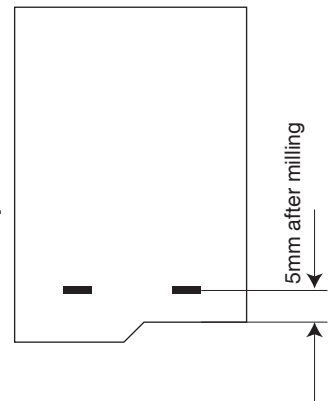
Then, the mode sewed (or not) can be chosen.



6.2 Binding of a top stitched brochures

Binding of a top stitched brochures can be made if the distance between the staple and the paper edge **AFTER MILLING** is superior or equal to 5 mm.

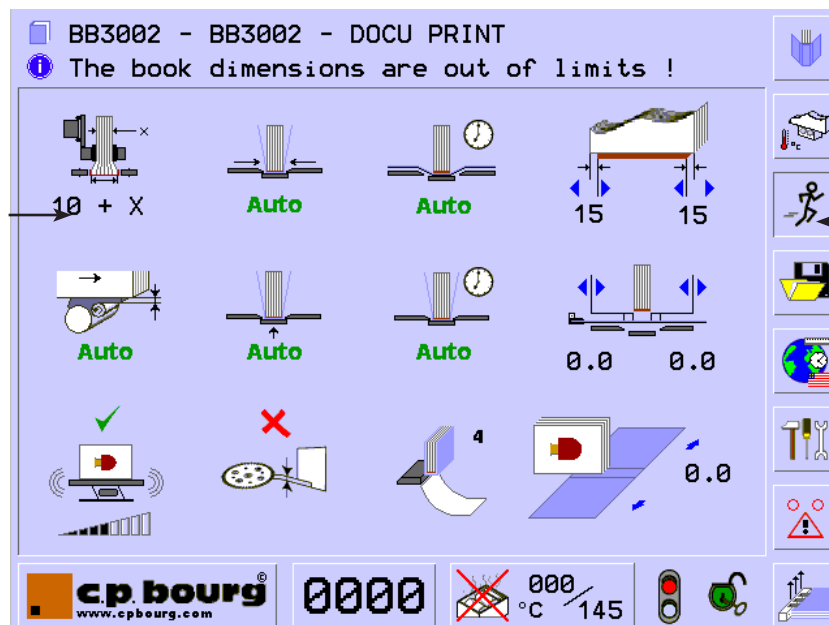
If the staple is at a distance of 7 mm from the edge, 2mm can be milled.



6.3 Lateral gluing only one face

For very special applications, a glue film can be applied on one lateral face only. To do this, enter the JOB menu and increase to the maximum the correction of the thickness pile.

Increase the correction on the thickness pile to the maximum



Access the JOB Menu

Note: By increasing the correction on the thickness pile to the maximum, the mobile head of the lateral gluing and the paper are not in contact any more. Only the fixed head applies glue on the book.

*In mode N/1, the glue film will be applied on front face of the book.
In mode 1/N, the glue film will be applied on rear face of the book.*

6.4 Multicreasing mode

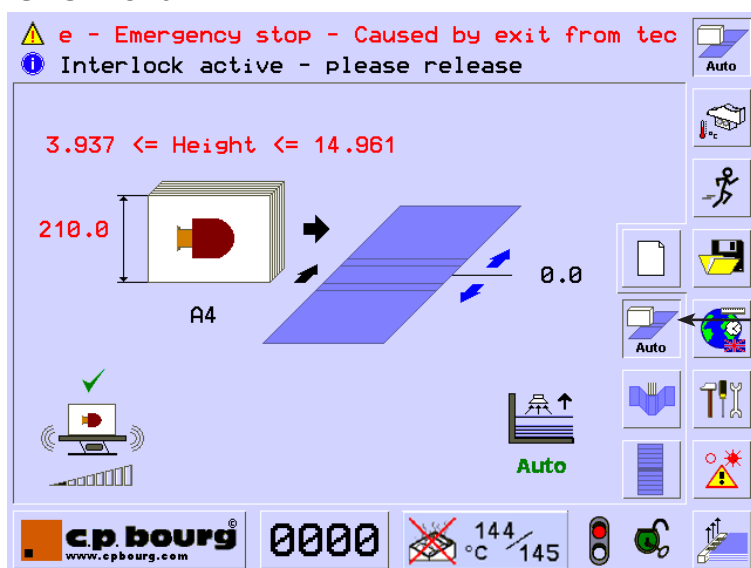
The BB 3002 is the first binder on market equipped with a creasing system punch matrix allowing execution of 13 creases on cover.

This multi-creasing system is available only if the option is installed on the machine.

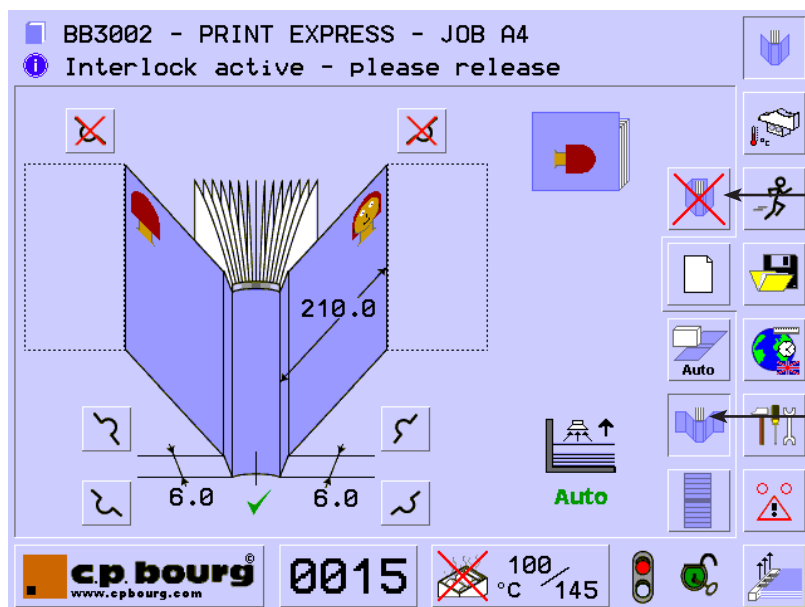
If the option is installed, the use of Automatic and Advanced menu does not change but 2 icons are added on the screen:

- Multi-creasing application
- Doctor booklet application (see chapter 6.5 : **“Doctor” booklet application**).

• AUTO menu :

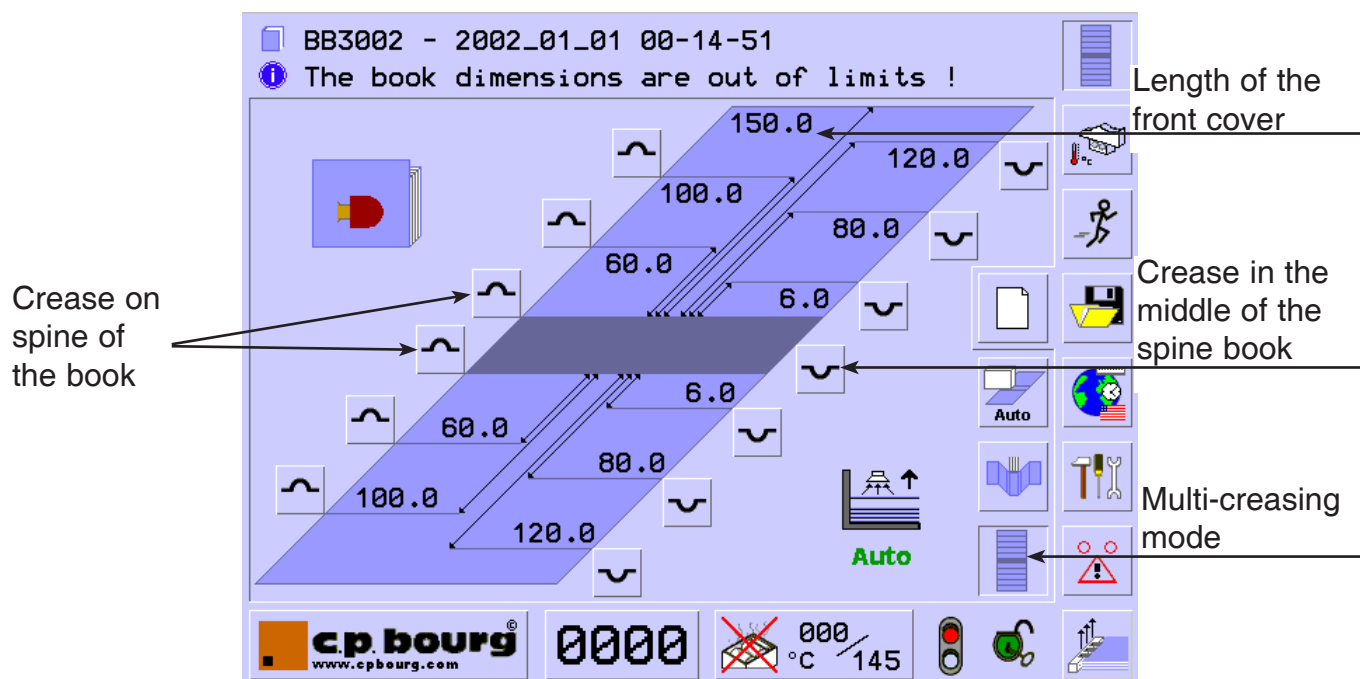


• Advanced menu- Cover nipping :



- **Multi-creasing mode:**

13 creases are available in this mode. Each one can be selected to position upwards, downwards or deselected.



Notes: - In mode N/1 or 1/N, the length of the front cover has to be clearly notified through the operator
*- Keep to position specifications for creases on cover (see chapter 4.6.2.2 **Selection and positioning of creases (optional module)**).*

6.5 “Doctor” booklet application

If option multi-creasing is installed, the BB3002 can create special applications, like “Doctor” booklets.

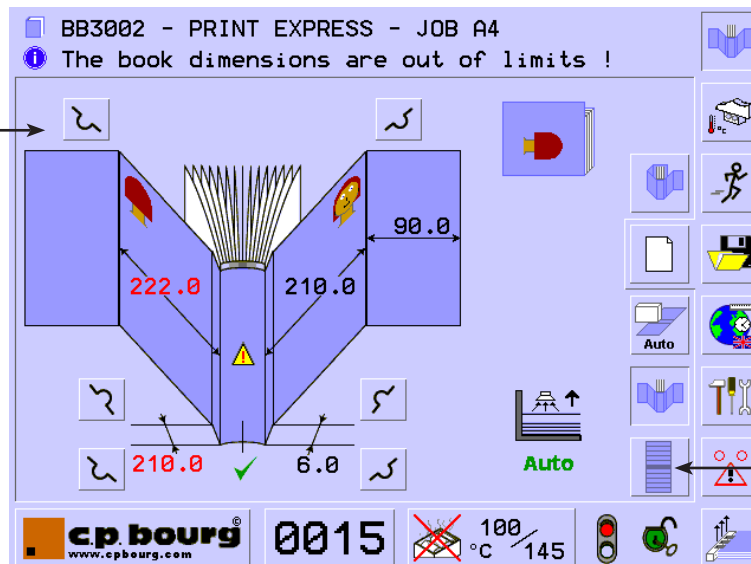
They are booklets with 3 folding wings:

- The first folding wing is inward.
- The second corresponds to the booklet thickness.
- The third folding wing folds back against the first one and closes the booklet.

To access the “Doctor” booklet application, you have to:

- Enter the advanced menu of cover nipping then select the module N/1 and 2 creases of the cover.
- Press the key “Doctor” booklet, a new screen allows you visualise the crease position easily.
- Select the shape and position of the desired creases.

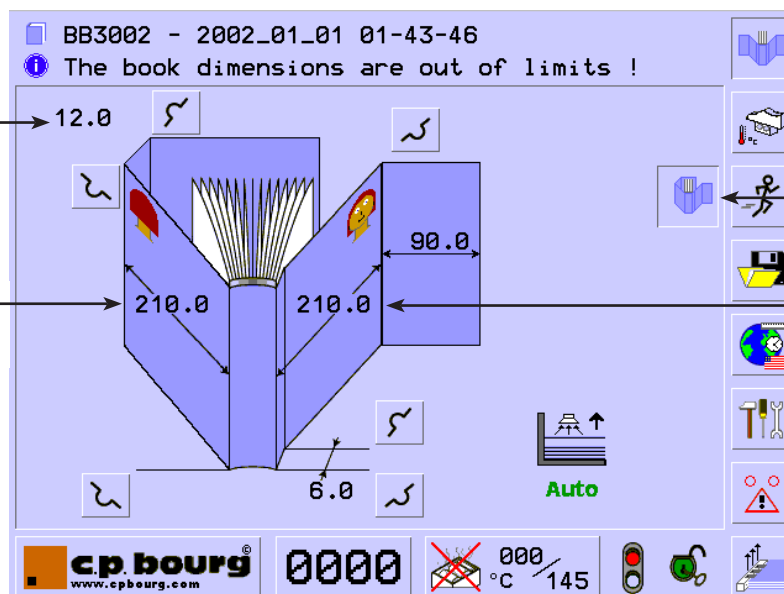
Selecting 2
creases for folding
wings.



Advanced menu-
Cover nipping

Fold length
corresponding to
booklet
thickness

Booklet height



Application
'Doctor' booklet
selection

Booklet height

7. MAINTENANCE

7.1 Preventive maintenance

Daily:

- Carriage: Check the condition of the jaws, remove any traces of glue.
- Glue tank: Check the glue level before switching on the machine.
- Cover clamp: Check the state of the clamps and the black non-stick plate: remove any traces of glue.
- Output unit: Check that the baffle plates, guides are clean and remove any traces of glue.
- External waste collector : Shake the filter (cloth bag).

Weekly:

- General cleaning of the machine.
- Milling: Make sure there is no waste paper in the milling unit and the pipes.
- Glue tank: Check whether the glue is oxidising (turning brown in the case of National Coolbind 1300), and replace if necessary.
- Waste paper bin: See whether the bag is full (see section 7.2 : **Replacing the dust bag internally**).
- Clean the grill of the glue fumes extractor.

Monthly:

- Cover loading: Check the condition of the suction cups.

7.2 Replacing the dust bag

If the binder has a system for collecting waste internally (optional), the bag must be replaced after 20 hours of operation, otherwise the paper waste could pollute the glue.

When the bag is full, a detector sends a warning message to the screen: "Replace the dust bag".

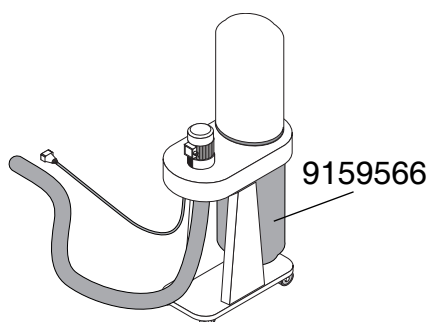
When this happens:

- Remove the waste bin from the binder by pulling it towards you.
- Remove the bag, lifting its cardboard tag upwards.
- Introduce the new bag, inserting the tag into the waste bin runners (Fig.1).

Note: - The message "Replace the dust bag" appears on the screen.

This is a warning message, which means that the binder can continue to operate, but you are strongly advised to replace the bag to avoid adverse binding quality.

- Shake the filter (cloth bag) every day to avoid that the message appears untimely.



External waste
collector

7.3 Emptying and refilling the glue tank

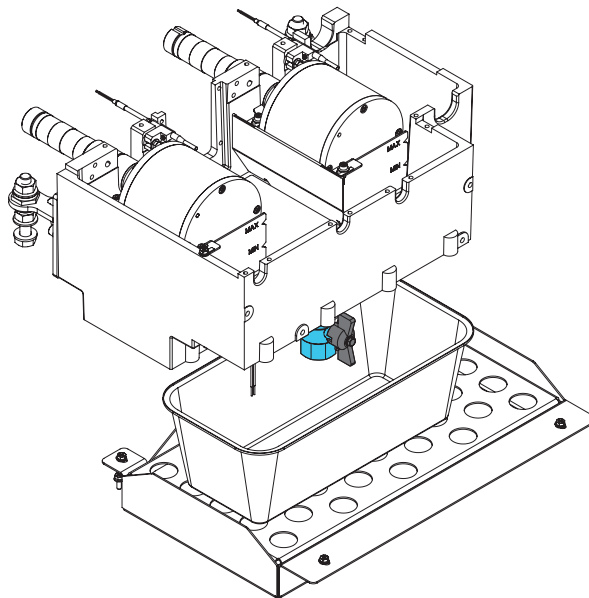
When the glue starts to oxidise (turning brown), the contents of the tank must be replaced. There is an emptying valve under the tank for this purpose.

Preliminaries:

- The glue must be at the right temperature (depending of glue) and the cylinders must be rotating.
- First empty the tank, and then refill it.

Emptying:

- Raise the top panel and open the door on the front. When you do this, **the cylinders stop turning!**
- Place an aluminium container below the tank valve (CPB ref.: 9 199 883).
- Open the valve as far as it will go using the key designed for the purpose (CPB ref.: 9 403 843). The glue will flow into the container.
- If the glue does not flow freely, use a fine rod to unblock the valve.
- When the tank is almost empty, add a few glue granules to the tank to empty the rest of the used glue.
- When the tank is empty, close the valve and refill the tank.



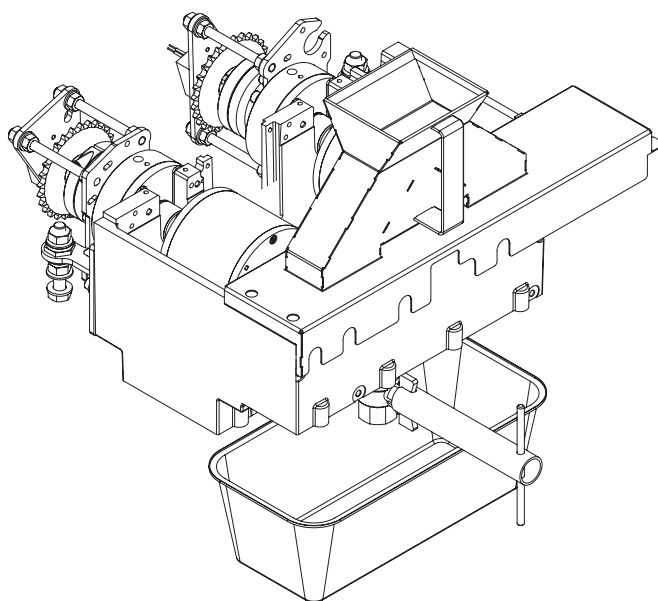
WARNING: To avoid any risk of burns, wait till the aluminium container has cooled down completely before removing it.

Filling:

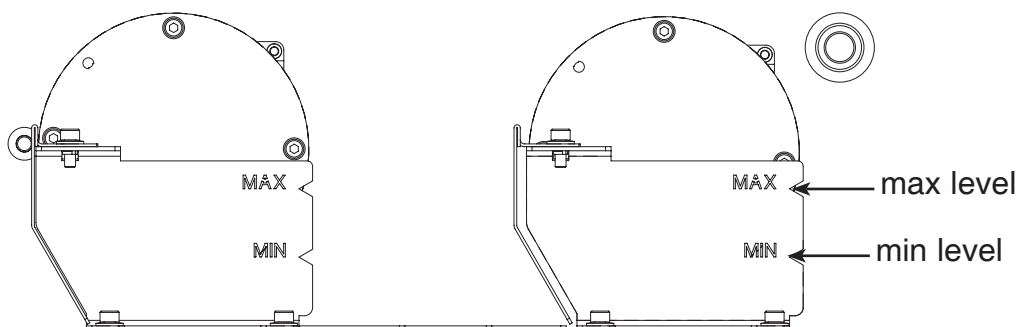
- Close the valve using the key designed for the purpose (CPB ref.: 9 403 843).
- Fill the tank (via both filling areas).

Warning: When the glue has completely melted, the level should always be between the maximum and minimum levels.

- When the glue level is correct and the glue has totally melted, close the top panel and restart the binder by pressing the green button on the loading console.
- The green indicator will light up as soon as the glue has reached the gluing temperature. The binder is then ready for use.



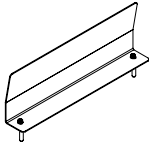
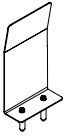
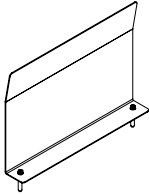
Notes: The minimum and maximum levels are indicated by notches in the scrapers inside the tank.

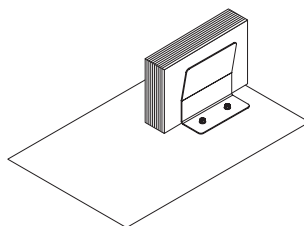
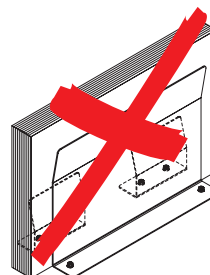
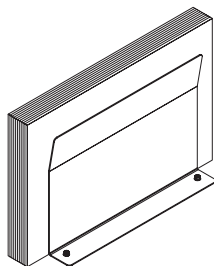
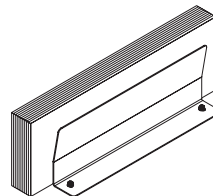
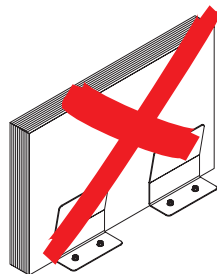


8. GUIDES

Four types of guides are supplied with the machine.

Use the most appropriate guides in order that the sheets are efficiently held up in the carriage and the operator can easily guide the book block into position.

GUIDES	QUANTITY	CP BOURG #
	4	9414076
	4	9414079
	2	9414077
	2	9414078

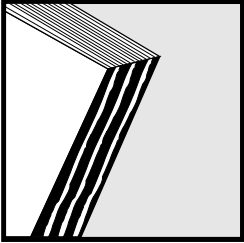


9. MECHANICAL TROUBLESHOOTING

Symptom	Probable cause	Remedy
The cover is not square on the paper offset (skewed).	The cover is not cut square. The cover station and paper pile are not square to the machine.	Check the covers. Check the squareness with respect to the nippers.
The cover is too far on the right. The cover is too far on the left.		Adjust the cover station stop to the left. Adjust the cover station stop to the right.
There is not enough glue on the back of the book.	The glue spreader is too high.	Check the glue spreader.
The pages are warped where the glue is applied (spread out).	The paper is too weak for notching.	Check the cutter. Check the paper quality.
The covers suffer from nail head.	The cover nipping is too hard. The cover is too weak for the paper in the nippers.	Check the pressure. Check the cover material.
There is poor ejection and nipping.	There is glue on the exit slide and nippers.	Remove the glue.
The book buckles when cover is applied.	The book is too thin for the cover weight.	Select a lighter cover
The cover does not show a sharp crease on the spine.	The card is heavy and the covers varnished. Cover cross grained.	Crease the covers.
Loss of cover when creasing.	The cover stays in the matrix.	Decrease the pressure of creasing.

10. COMMON GLUEING DEFECTS

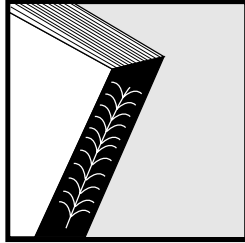
Gaps in glue film



Check:

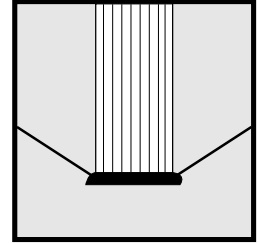
- Glue and roller temperature.
- Running temperature.
- Adhesive level in tank.

Feather on book spine



Adhesive and/or roller temperature too low.

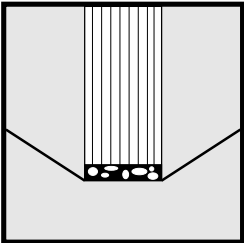
Nail head



Check:

- Cover press too tight.
- Height of back pressure.

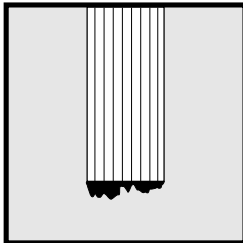
Honeycomb film



Check:

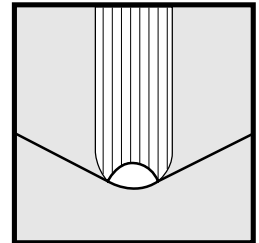
- Glue and roller temperature.
- Level of adhesive in the tank.
- Moisture in the cover or book stock.

Uneven glue line



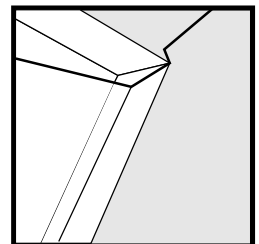
Insufficient adhesive applied.

Cavity spine



Cover press too tight.
Sharpen the knife.

Cover register



Cover feed is not square
with the cover clamp.

11. ENVIRONMENTAL COMPLIANCE

Product Recycling and Disposal



ENGLISH:

Application of this symbol on your equipment is confirmation that you must dispose of this equipment in compliance with agreed national Procedures.

In accordance with European legislation dealing with "end of life electrical and electronic equipment", equipment subject to disposal must be managed within agreed procedures. Prior to disposal please contact your local representative for end of life take back information.

FRANÇAIS:

La présence de ce symbole sur cet équipement indique que ce dernier doit être mis au rebut selon les conventions nationales.

Conformément à la législation européenne, tout équipement électrique et électronique en fin de vie et destiné au rebut doit être manipulé selon les procédures convenues.

Veuillez contacter votre distributeur pour en savoir plus sur la reprise du matériel avant toute mise au rebut.

ESPAÑOL:

La aplicación de este símbolo en el equipo es una confirmación de que en el momento de deshacerse de este equipo debe de hacerlo de acuerdo con los procedimientos nacionales acordados.

La legislación europea exige que para deshacerse de equipos eléctricos y electrónicos al final de su duración útil deben seguirse los procedimientos acordados.

Antes de deshacerse de un equipo póngase en contacto con su distribuidor local o con el representante para obtener información sobre su devolución.

DEUTSCH:

Geräte die dieses Symbol tragen, müssen den nationalen Richtlinien gemäß entsorgt werden.

Den europäischen Bestimmungen zum Umgang mit elektrischen und elektronischen Altgeräten ist Folge zu leisten.

Bei der Entsorgung des Geräts den Partner kontaktieren.

ITALIANO:

Questo simbolo applicato sulla macchina indica la necessità di smaltire il prodotto in conformità con le normative nazionali vigenti.

La legislazione europea richiede che lo smaltimento dei dispositivi elettrici ed elettronici a fine vita venga gestito in conformità con le normative vigenti.

Prima di smaltire il dispositivo, rivolgersi al rivenditore autorizzato di zona per informazioni sul ritiro dei prodotti a fine vita.

NEDERLANDS:

De aanwezigheid van dit symbool op uw apparatuur geeft aan dat u zich van deze apparatuur moet ontdoen overeenkomstig de daarvoor in het betreffende land geldende procedures.

Krachtens de Europese wetgeving moet de verwerking van afval van gebruikte elektrische en elektronische apparatuur geschieden overeenkomstig de daarvoor geldende procedures.

Neem voordat u de apparatuur wegdoet contact op met uw plaatselijke dealer of vertegenwoordiger voor informatie over inzameling.

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[illegible]



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