

## **Important Information**

- This manual is designed to help you to install, operate and maintain Perfect Binding Machine PB7000. Read, understand and keep this manual in a safe and convenient place.
- Do not operate PB7000 until you read and understand the instructions in this manual.
- EP Technology will not be held responsible for any damages caused by the misuse of this machine.
- EP Technology has a policy of revising and improving all of its products. The design and specifications can be changed without warning and without any legal obligation.
- All rights are reserved. This manual cannot be copied, translated or borrowed, wholly or partially without the permission of EP Technology.

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# 1.Specification

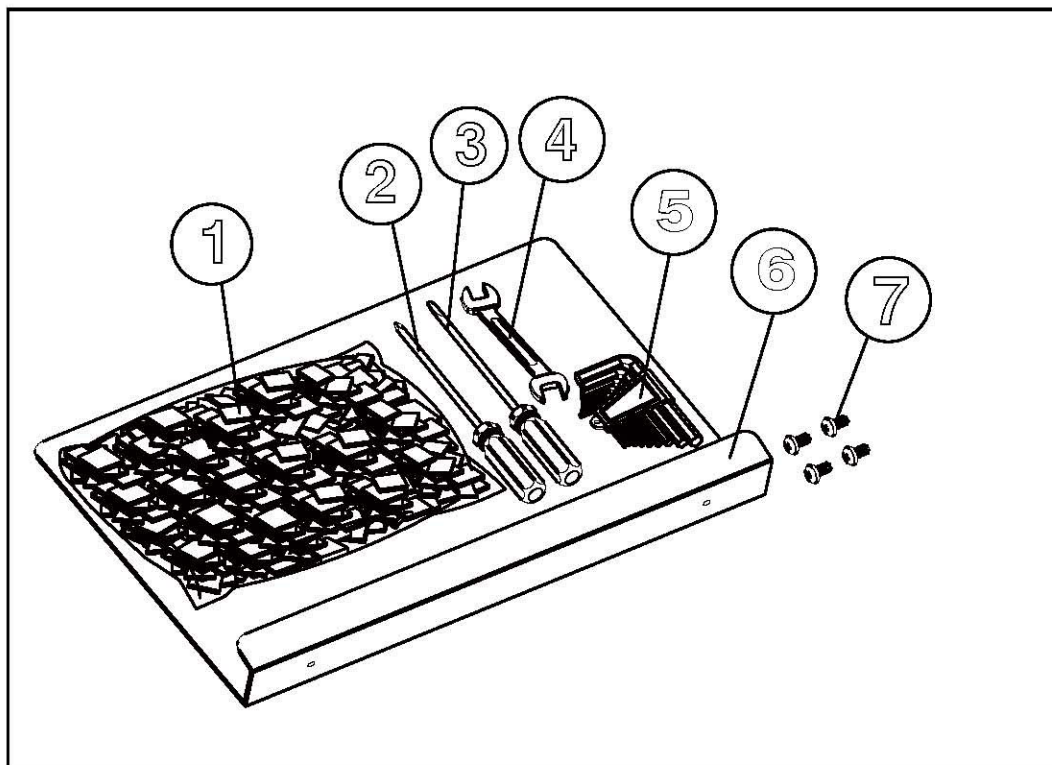
## 1-1 Major Specifications

Model	PB7000
Maximum Spine Length	420 mm
Maximum Binding Thickness	60 mm
Minimum Binding Thickness	2 Sheets 80 g/sqm
Cover Weight range	70 to 250 gsm (Paper only)
Production Speed	250 books/hour
Binding Glue Type	Hot Melt Glue (160 to 180 Deg C)
Warming Up Time	30 Minutes
Power	220V,50Hz/110V,60Hz
Power Consumption	2250 W
Machine Dimensions	1455X625X1100 mm
Machine Weight	240 kg
Noise	71-75dB

### NOTICE:

The machine design and specifications are subject to change without prior notice.

## 1-2 Accessories



Index	Name	Quantity
1	Hot Melt Glue	2.5 Kg
2	Flat Blade Screwdriver	1 Pc
3	Phillips Head Screwdriver	1 Pc
4	Open End Combination Wrench	1 Pc
5	Hex Head Wrench Set	1 Pc
6	Cover Support	1 Pc
7	Back Up Screws	4 pcs



## **2. Installation Instructions**

### **2-1 Installation Precautions**

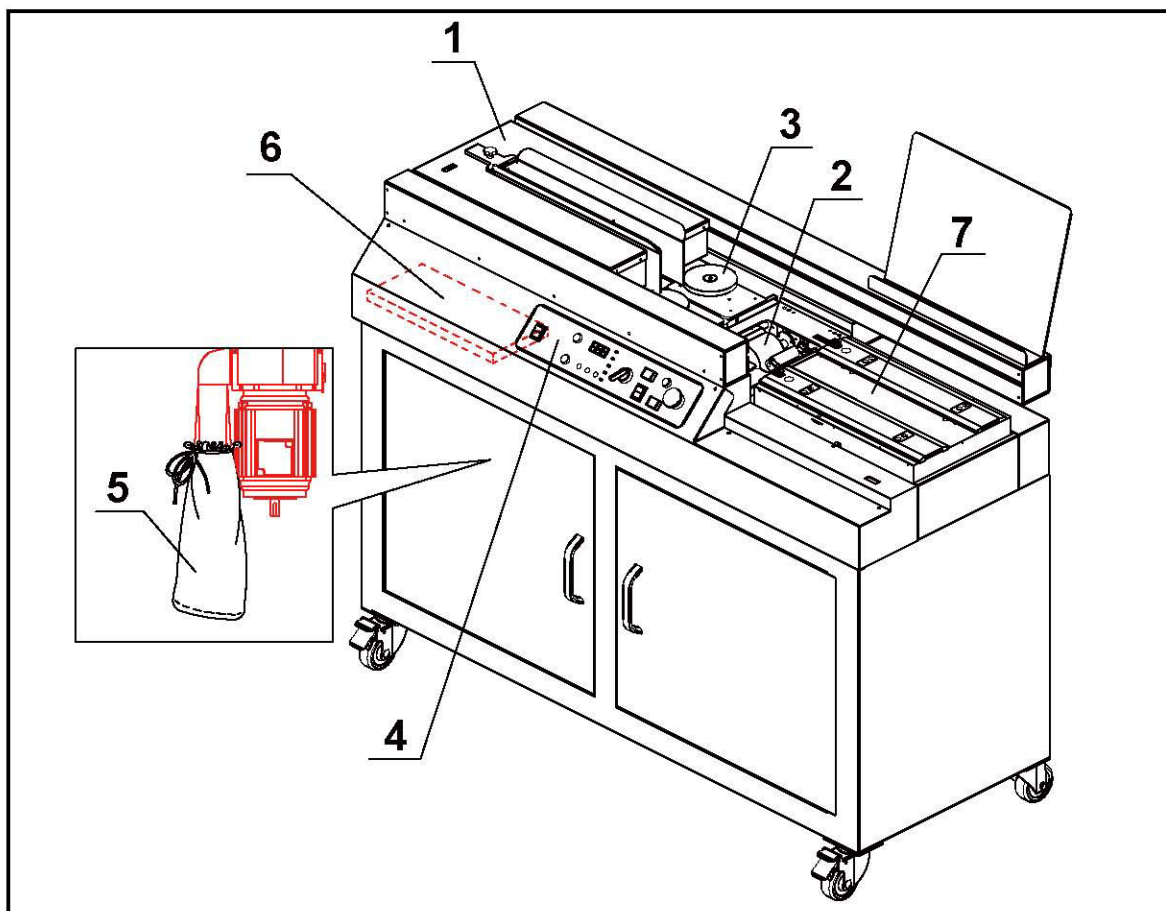
1. Place the machine in a flat firm surface.
2. Protect from direct sunshine.
3. Protect from high temperatures and humidity.
4. Protect from dirt and dust.
5. Keep the machine away from anything containing magnets.

### **2-2 Operation Precautions**

1. Never touch the melted glue, glue tank or roughing cutter blades. They are very hot and can cause serious injuries or burns.
2. Never overfill the glue tank.
3. Turn the machine off when not in use to preserve the quality of the glue. The longer the glue is meted, the quicker the quality deteriorates.
4. Never open or attempt to modify any part of the machine.
5. Be careful with small objects near the machine, they can fall inside and cause serious damage to the machine and/or the operator.
6. Never put your hands in the clamber or the nipper.
7. Make sure the machine is switched off and unplugged before attempting to change the fuse.

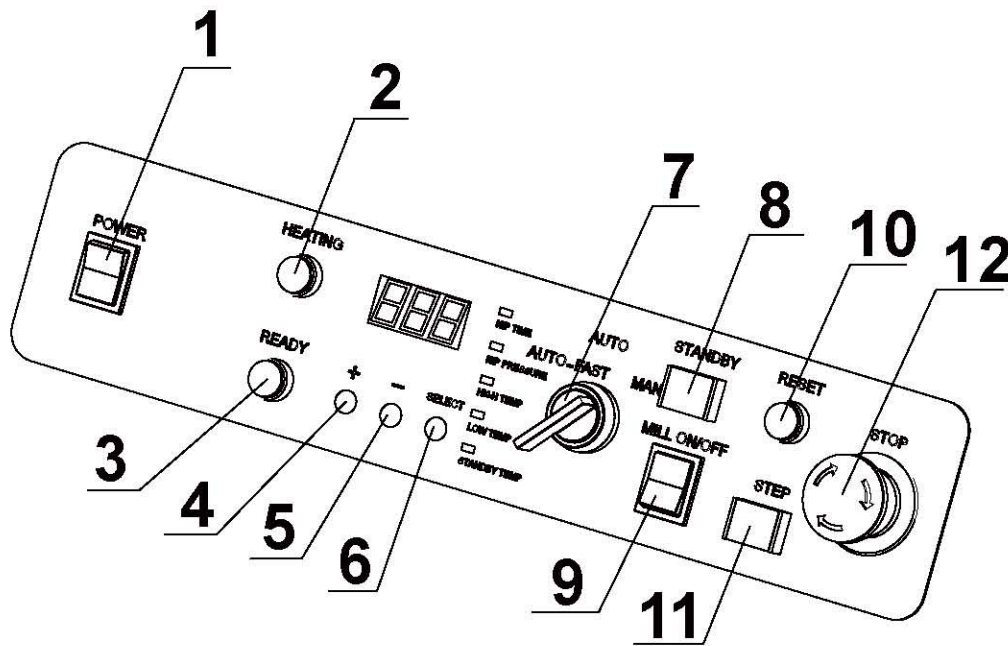
## 3. Major Machine Parts Descriptions

### 3-1 Main Body



	Name	Function
1	Clamper	This clamps sheets to be bound and carries to the Roughening cutter and the melt tank
2	Melt Tank	Tank for holding the hot melt glue
3	Roughing Cutter Cover	Roughing Cutter inside
4	Control Pannel	The control panel
5	Front Door	Incide is a bag for collecting scraps of paper
6	PC Board	Electronics inside
7	Nipper	Used to nip cover and sheets to form spine

## 3-2 Control Panel



	Name	Function
1	Main Switch	Used to turn ON / OFF main power
2	Heating Light	Turns on during warm up, when this light is lit the machine is not ready for use
3	Ready Light	Turns on when the machine is ready to use
4	+ Button	Used to turn the value up
5	- Button	Used to turn the value down
6	Select Button	Used to select the Nip time, Nip pressure, High temp, Low Temp, Standby Temp.
7	Auto/Manual Mode Switch	Used to select manual automatic-fast and automatic mode
8	Standby Button	Used to get the machine into Standby mode
9	Mill On/Off Switch	Only be used when Notch is selected. When it is switched to Off, the Notch function is not to be used.
10	Reset Button	Used to reset the machine after pressed the Stop button
11	Step Button	Used in Manual mode
12	Stop Button	Used to stop the machine at any moment

## 4. Operation Procedure

### 4-1 Before Starting Operation

4-1-1 It is very important that the sheets are properly aligned before starting the binding process, a strong and durable bind depends on the alineation of the sheets. For even glue coverage it is necessary that all sheets are touching the bottom of the clamper.

4-1-2 The weight range for the cobres is 70-250 gr. Do not use cobres that are too thick or thin.

4-1-3 Maintain the clamper and the nipper clean. Pieces of paper and old glue can seriously affect the quality of the finished result and can even result in damages to the machine.

4-1-4 Leave the finished book to cool for 5 minutes, during this time do not open or manipulate the book.

4-1-5 When the glue has finished melting it is advisable to make 2 or 3 books with old scraps of paper, this sirs the glue thoroughly. This procedure optimizes the binding process.

4-1-6 Do not touch melt tank and millint cutter and notching cutter when the machine is in operation!

4-1-7 The clamper and the nipper table are moving part, please do not put hands in the clamper or nipper when the machine is in operation!

#### 4-1-9 Standby Function Guide

If the machine does not used in a long time, you can get the machine into Standby mode to preserve the glue quality.

- Press Standby button, Standby light on
- The machine get into standby mode, the temperature fall to the Standby Temperature

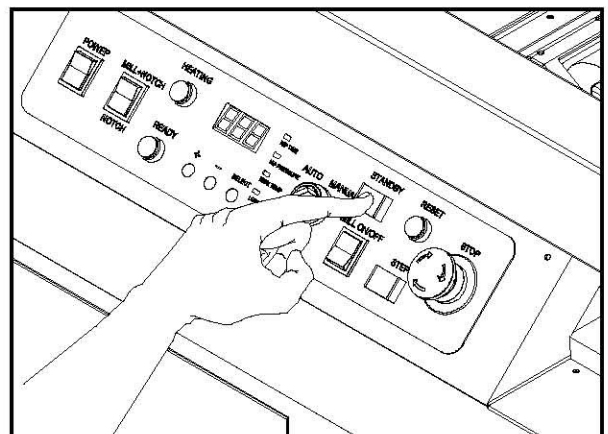
To quit the Standby mode,

- Press Standby button, Standby light off.
- The machine start heating till Start light turns on.

Note: When the machine does not used for 30 min. it will get into standby mode automatically.

4-1-8 The default setting for the machine is as follows.

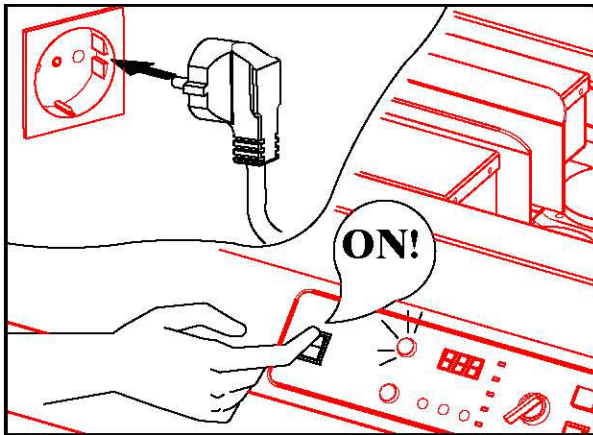
1	Nip Time	5 sec
2	Nip pressure	3 sec
3	High Temp.	180 Deg.
4	Low Temp.	165 Deg.
5	Standby Temp.	100 Deg.





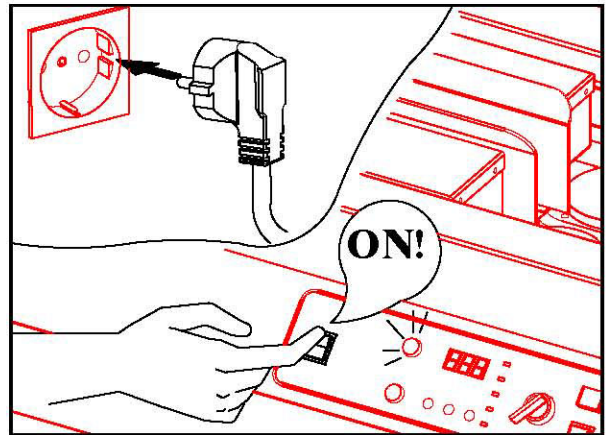
## 4-2 Manual Mode

### 4-2-1 Plug the power cord to outlet



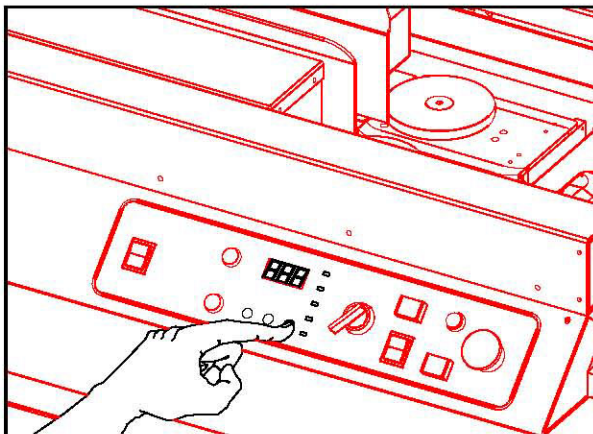
- Plug the power cord to outlet.

### 4-2-2 Turn the main power switch on



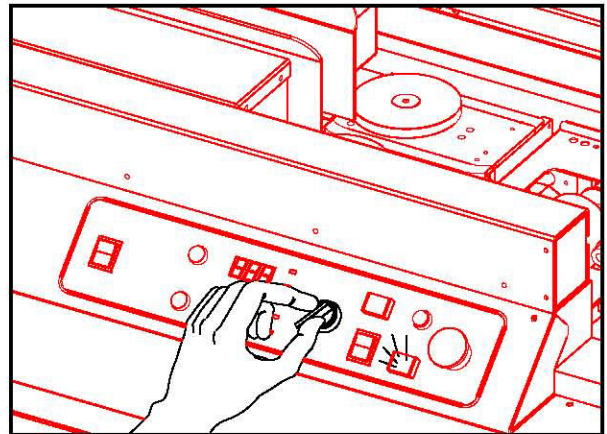
- Turn the main power switch on.
- The heating light turns on, when the Heating light turns off, Start Light turns on, the glue is completely melted and the machine is ready for use.

### 4-2-3 Preadjustment



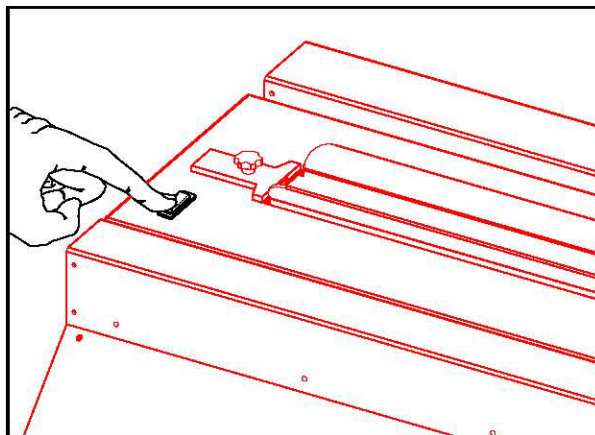
- Press the Select Key, Nip Time light turns on, press +/- button to set the figure
- Press the Select Key, Nip Pressure light turns on, press +/- button to set the figure
- Press the Select Key, High Temp light turns on, press +/- button to set the figure
- Press the Select Key, Low Temp light turns on, press +/- button to set the figure
- Press the Select Key, Stanby Temp light turns on, press +/- button to set the figure

### 4-2-4 Select Manual Mode



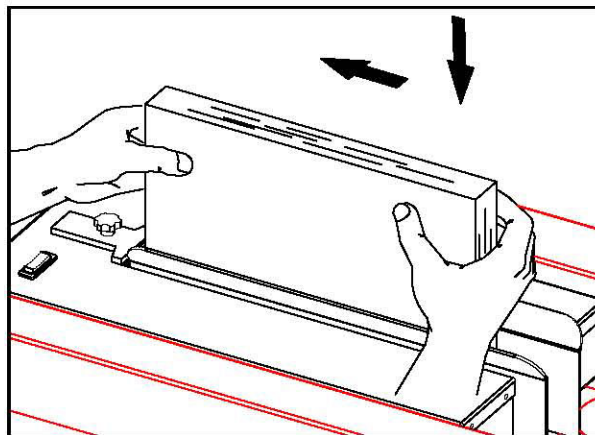
- Turn the manual / automatic switch to manual mode

### 4-2-5 Open the Clamper



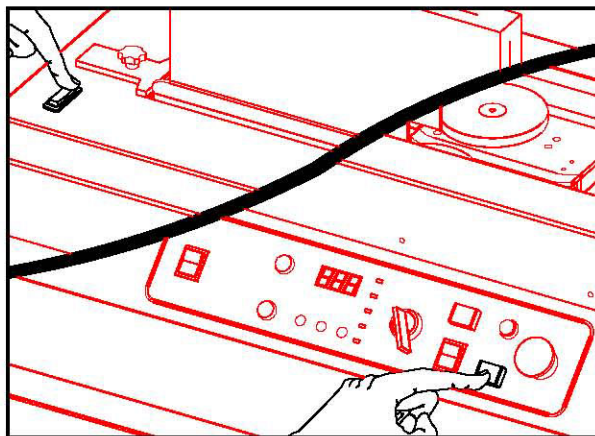
- Press the clamber open / close switch until it is open wide enough for the number of sheets necessary.

### 4-2-6 Insert the sheets.



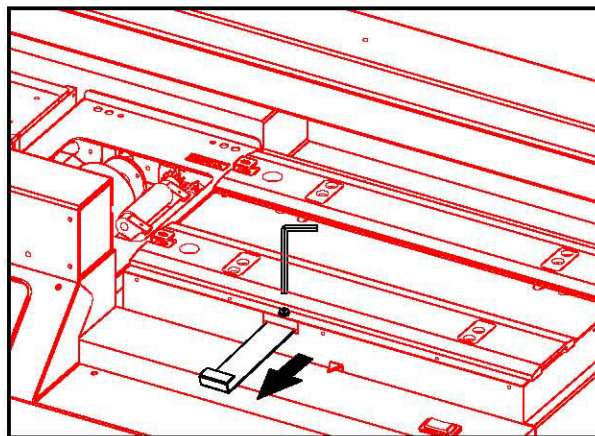
- Place the sheets in the right hand side of the clamber and slide them towards the left.

### 4-2-7 Close the clamber



- Press Step, the clamber automatically closes to the required thickness.  
**WARNING:** Never place your hand in the clamber, this may result in serious injury.

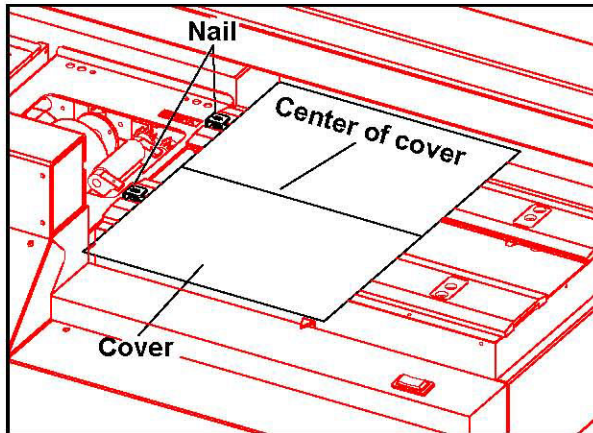
### 4-2-8 Adjust the cover gauge



- Pull out the cover gauge.

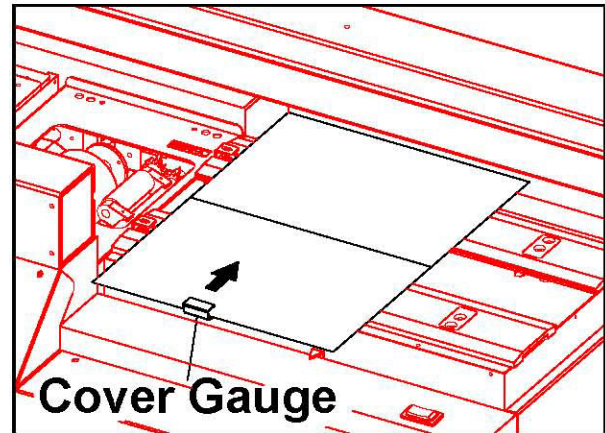


#### 4-2-9 Place the cover



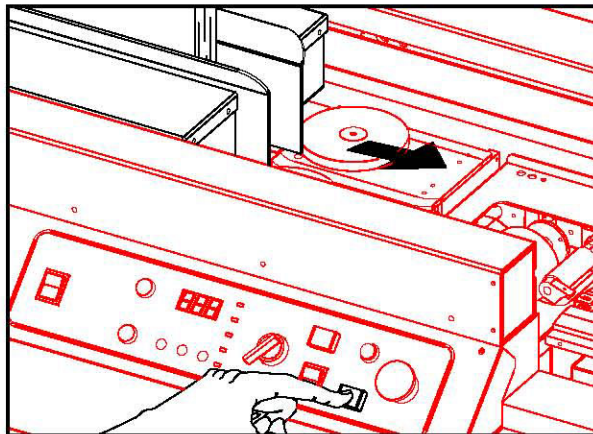
- Place the cover under the cover set guide.
- Ensure it is aligned properly.

#### 4-2-10 Align the cover



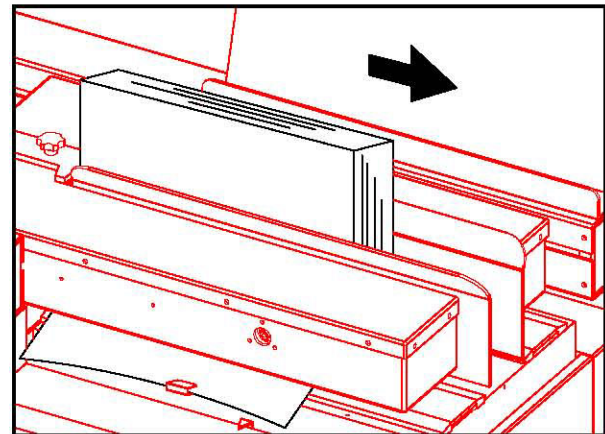
- Align the cover using the gauge, the cover gauge should only lightly touch the cover.

#### 4-2-11 Apply glue and binding



- Press Step
- The clammer moves the sheets over the milling and notching cutter, the glue tank and then move to the nipper where they are bound to the cover
- After the time shown on the nipper display, the nipper releases the completed book

#### 4-2-12 Remove the finished book.

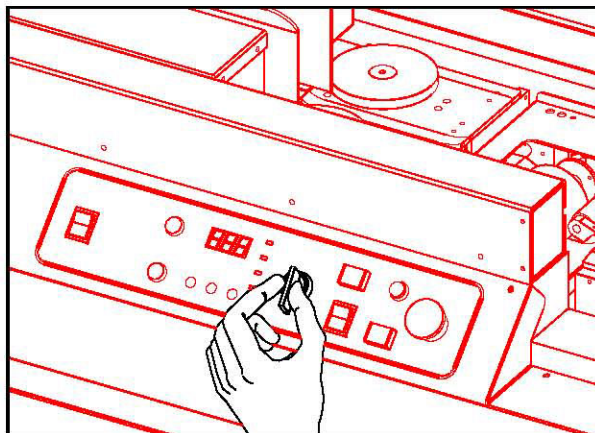


- Slightly lift the book.
- Slide the book towards the left hand side until it is completely clear



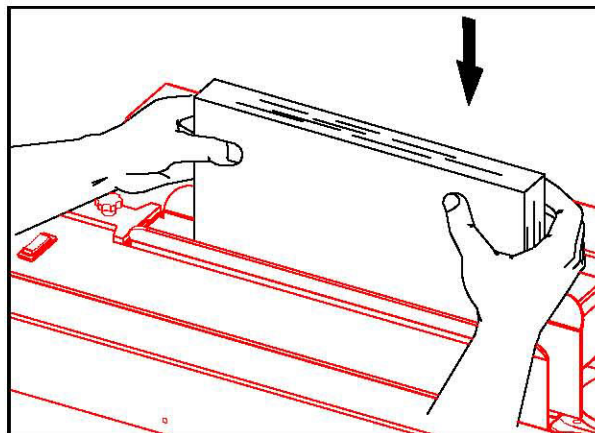
## 4-3 Auto Mode

### 4-3-1 Select Auto mode



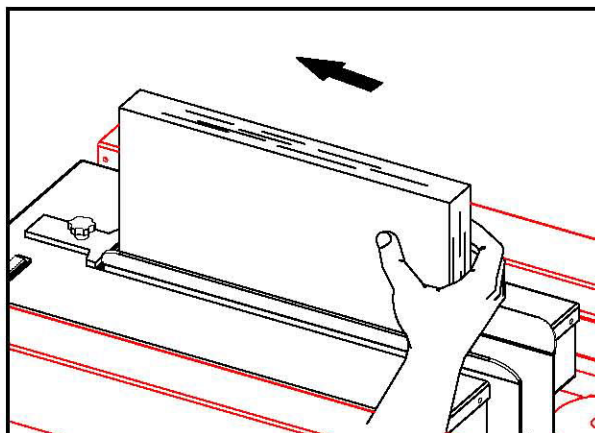
- Turn the manual / automatic switch to Auto mode

### 4-3-2 Insert the sheets



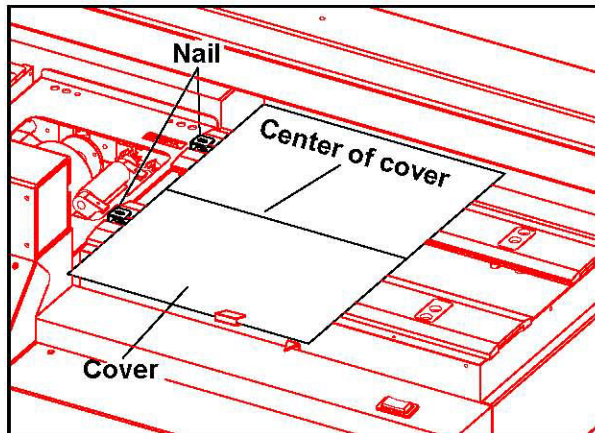
- Place the sheets in the right hand side of the clamber

### 4-3-3 Clamber closes



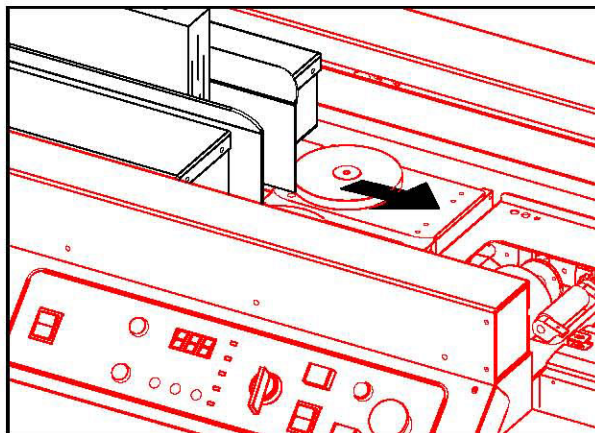
- Slide them towards the left.
  - The clamber automatically closes to the required thickness.
- WARNING:** Never place your hand in the clamber, this may result in serious injury.

### 4-3-4 Place the cover



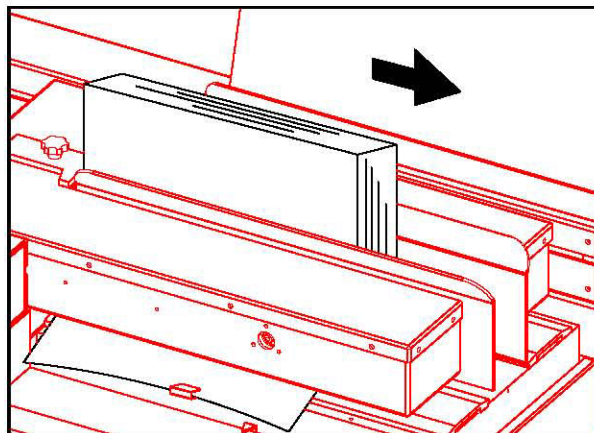
- Place the cover under the cover set guide.
- Ensure it is aligned properly.

### 4-3-5 Apply glue and binding



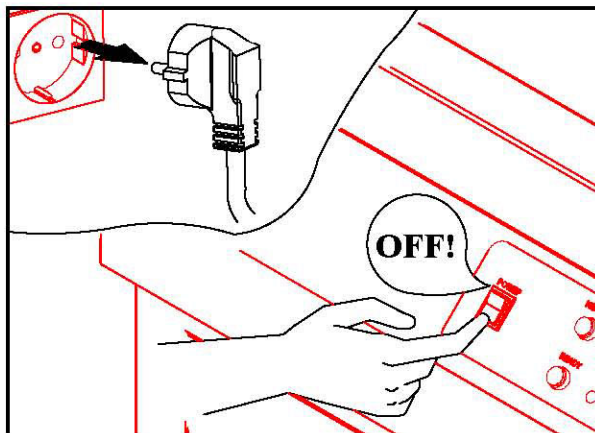
- The clammer moves the sheets over the milling and notching cutter, the glue tank and then move to the nipper where they are bound to the cover
- After the time shown on the nipper display, the nipper releases the completed book

### 4-3-6 Remove the completed book



- Slide the book out towards the right until it is completely clear.

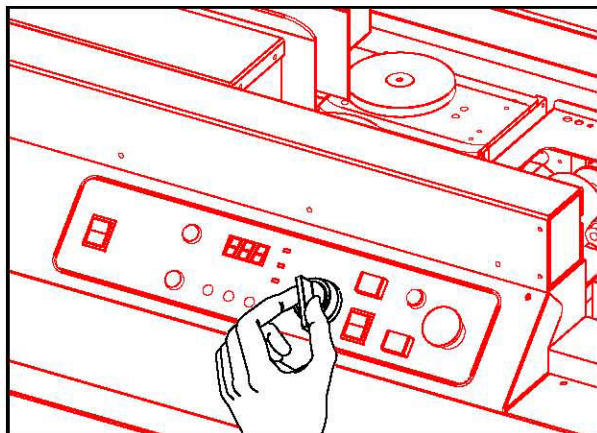
### 4-3-7 Turn the machine off



- Turn the machine off when your work is finished

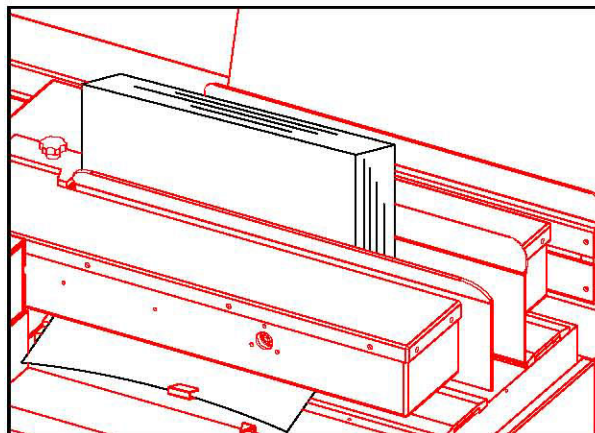
## 4-4 AUTO-FAST Mode

### 4-4-1 Select AUTO-FAST mode



- Turn the manual / automatic switch to AUTO-FAST mode

### 4-4-2 Remove the completed book

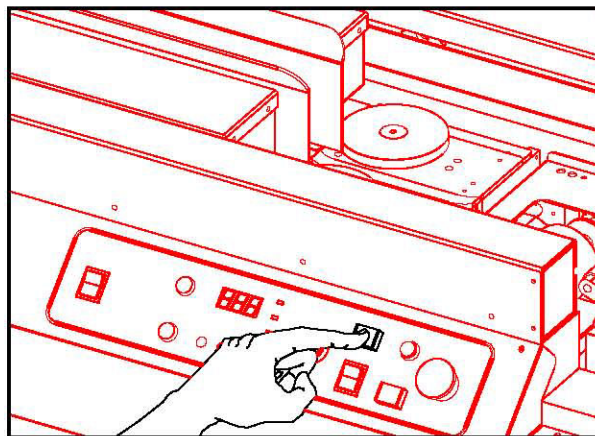


- Complete the step of 4-3-2 to 4-3-5 tt
- The clammer automatically return to home position after nipping time is over

## 4-5 Standby Mode

When the machine is not used for long time, and you do not want to turn off the machine, you can get into standby mode, which allow you to restart the binding proccess quickly.

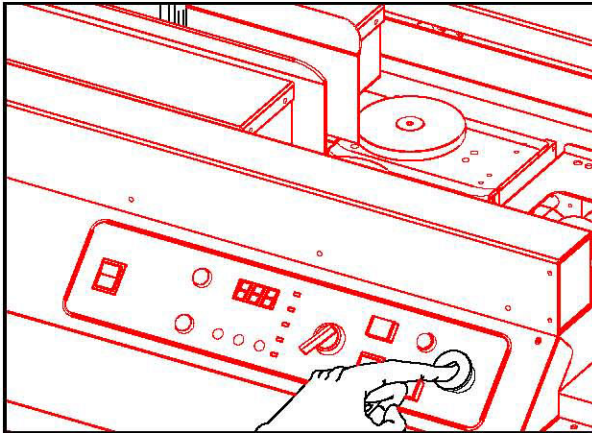
- Depress Standby Button, the standby light is on, the machine stop heating and drops to 100 degree(or any temperature you set as Standby Temp)
- Need to reactivate machine, depress standby button, stanby light off, the machine starts to heating again.





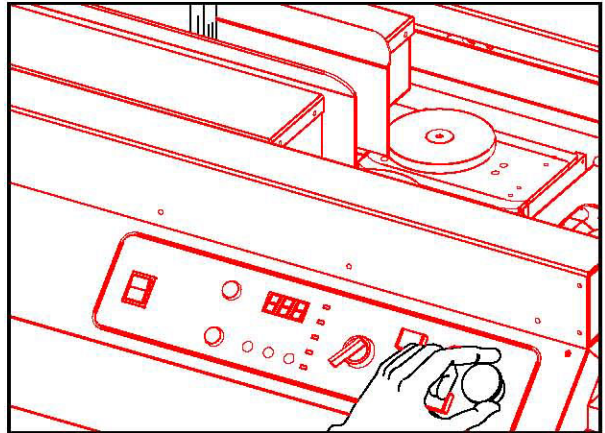
## 4-6 Emergency Stop Guide

### 4-6-1 Press Stop Button



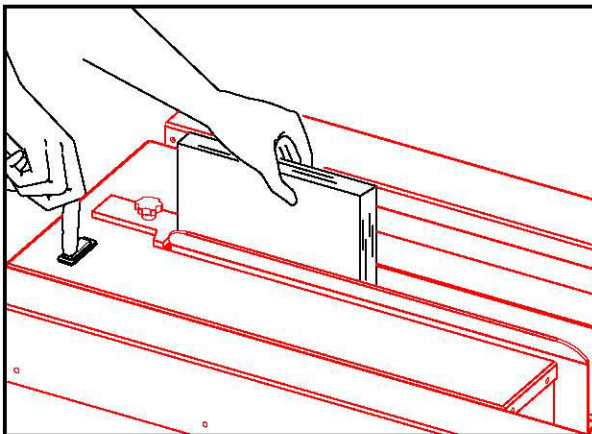
- In case there is a jam or accident caused by operation of machine, please push the emergency switch.
- All movements of machine are stopped.

### 4-6-2 Turn the Stop Button



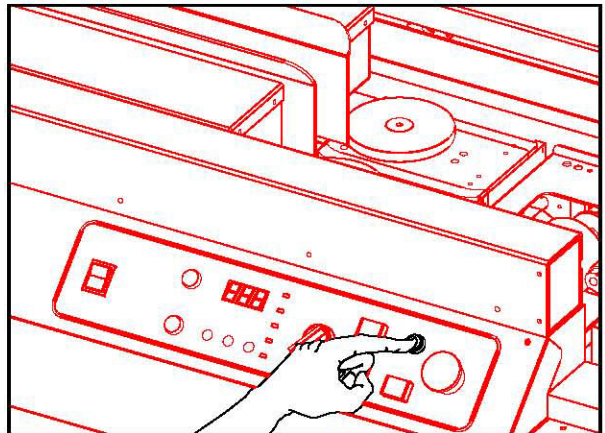
- Turning the red head of the emergency Stop button will release it.
- The machine is still not activated.
- Clamper Open/Close Switch can now be activated.

### 4-6-3 Get the sheets out from clamper



- Hold the sheets in the clamper
- Open the clamper by Clamper Open/Close switch
- Take out the sheets from the top

### 4-6-4 Reset to machine



- Press Reset button
- The Clamper move to the home position
- The machine is ready to use.

## 4-7 Milling Depth adjustment

### 4-7-1 Clamper table Height indicator

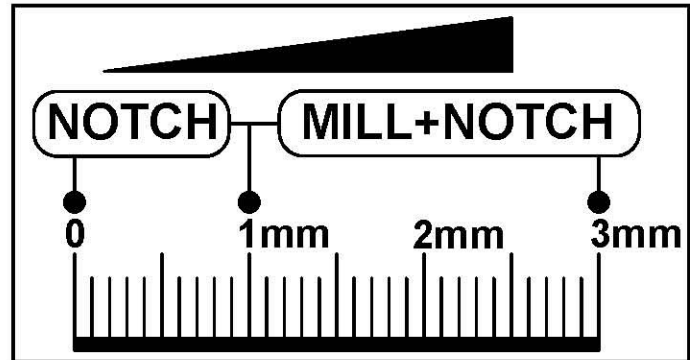
To Adjust the height of the clamper table will result in the milling depth of the book stock

-- Notch is from 0mm-1mm

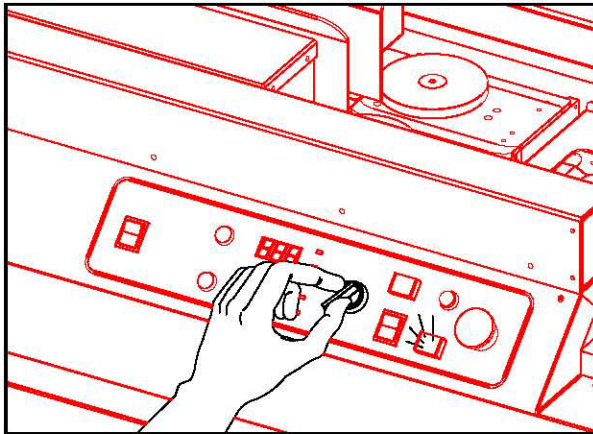
-- Notching and Milling is from 1mm to 3mm

**WARNING!**

ONLY to turn off the milling cutter when the clamper height indicator is at 0mm position, otherwise it may causes machine malfunction!

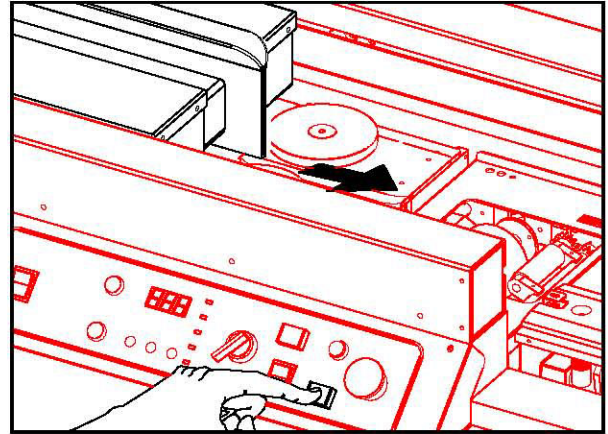


### 4-7-2 Switch to Manual mode



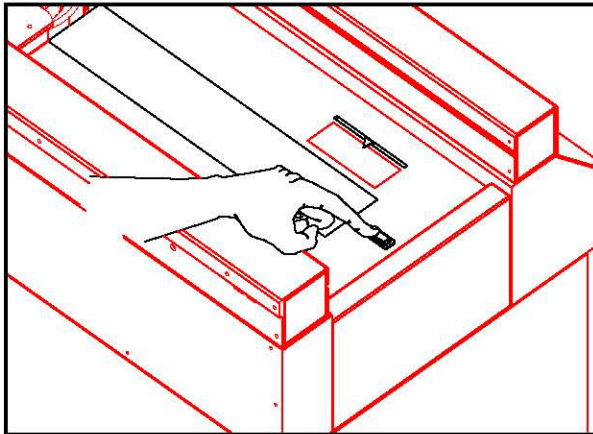
-- Switch to Manual mode by turning manual/ auto switch to manual

### 4-7-3 Move clamper to Nipper table



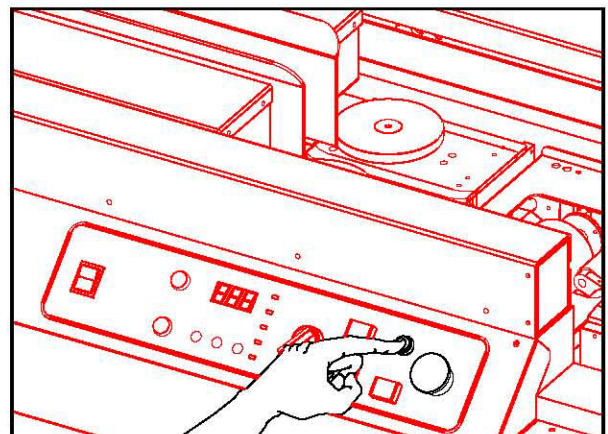
-- Depress Step button and move clamper to nipper table  
-- Depress Stop button

### 4-7-4 Adjust the height of the clamper table



-- Adjust the height by depress the clamper height switch

### 4-7-5 Reset the machine



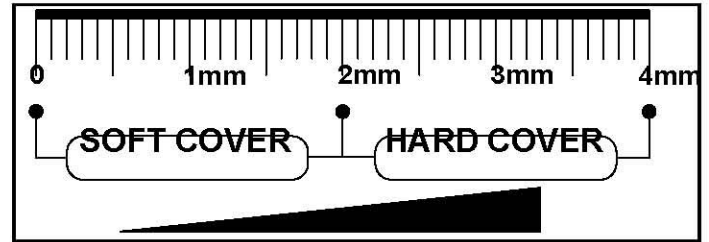
-- After the adjustmetn, depress reset  
-- clamper move the home position



## 4-8 Hard Cover Guide

### 4-8-1 Nipper table height adjustment

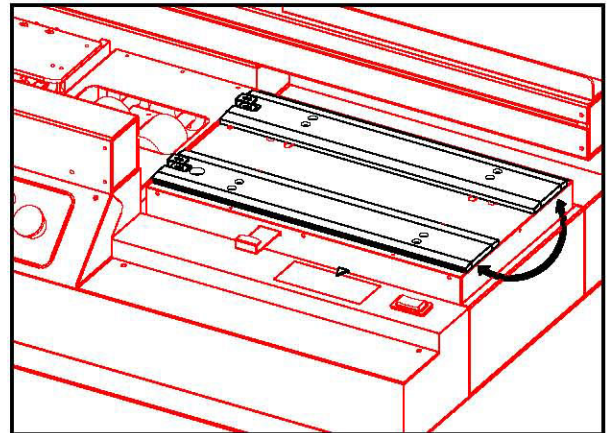
To adjust the height of the nipper table will result in the amount of glue applied on book spine and be used in hard cover book  
 ---0mm to 2mm are adjustment for softcover  
 ---2mm to 4mm are adjustment for hardcover



NOTE: Adjust the glue amount in melt tank when you change the nipper table height to get better binding result.

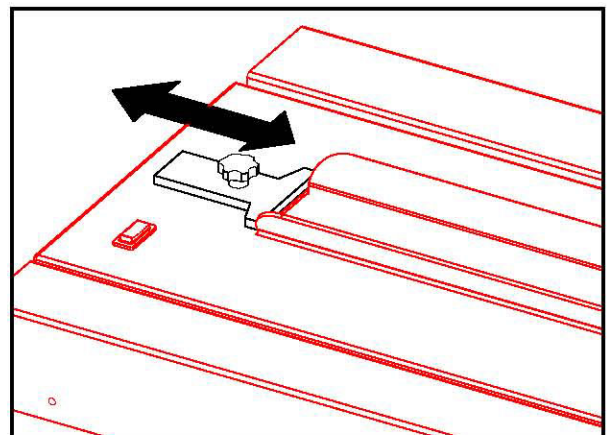
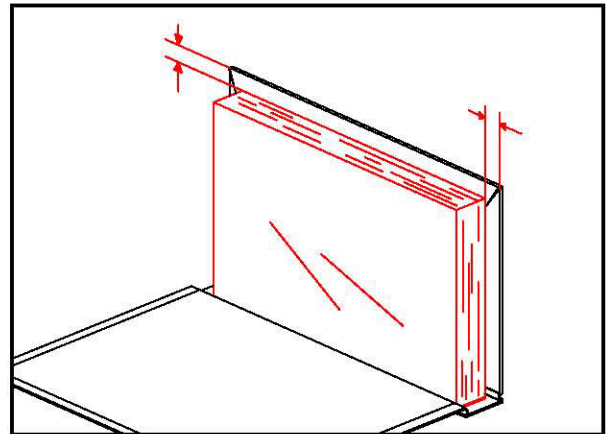
### 4-8-2 Change the Hardcover nipping bar

- Switch to softcover clamping bar when binding with softcover
- Switch to hardcover clamping bar when binding with hardcover



### 4-8-3 Adjust book stock position Knob

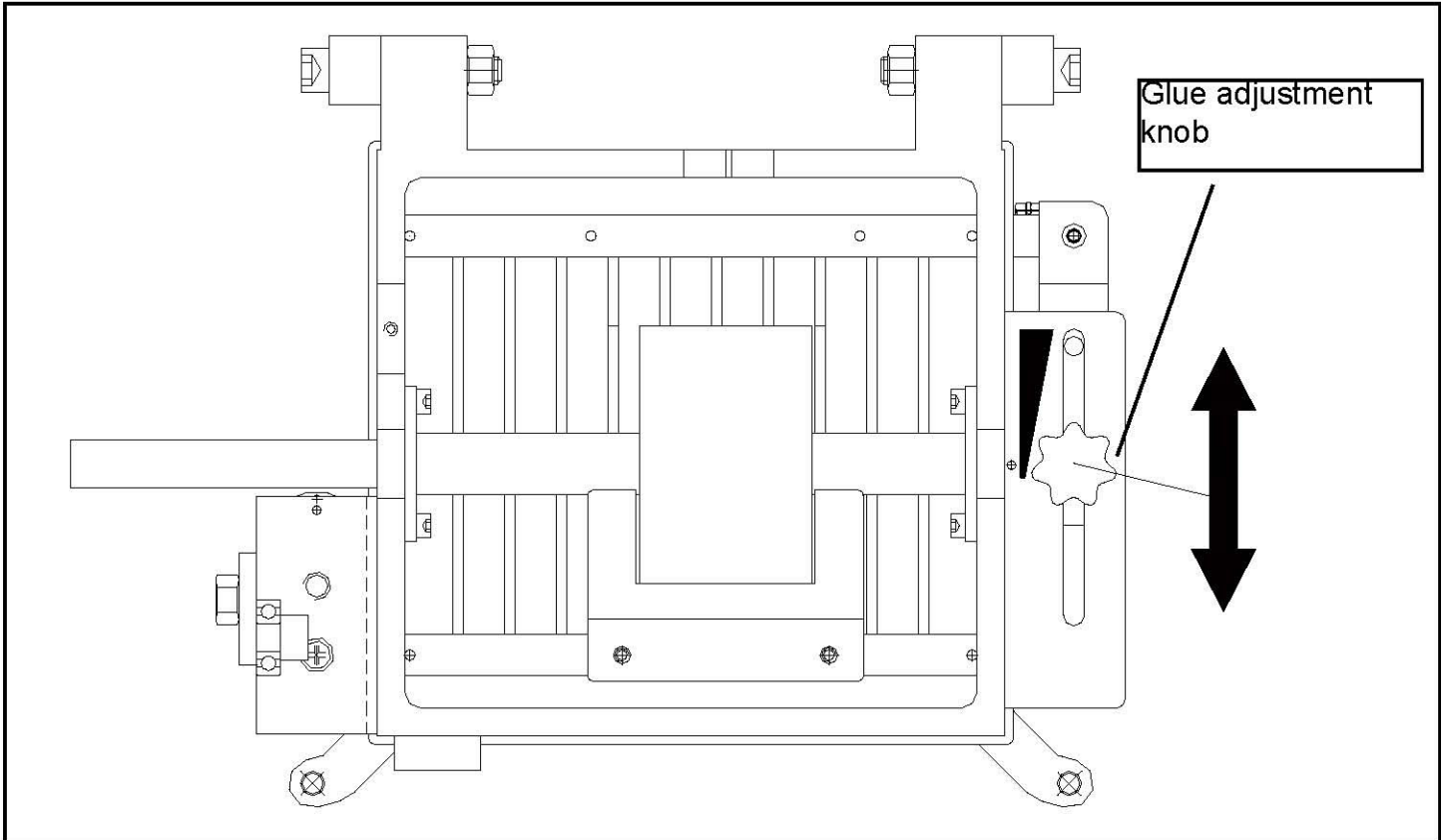
- Measure the hardcover book
- Adjust the book stock position knob according to measurement



## 5. Maintenance

### 5-1. How to adjust amount of glue on spine

Turn the glue adjusting knob anti-clockwise and move it to the desired position. Once it is in position, turn the knob clockwise to lock it in position.



### 5-2 Refilling the glue tank

When the level of the glue is more than 1 cm from the top it is time to add more glue to the tank. Do not overfill the glue tank, this can damage the machine and cause injury.

### 5-3 Clean the waste bag every month.