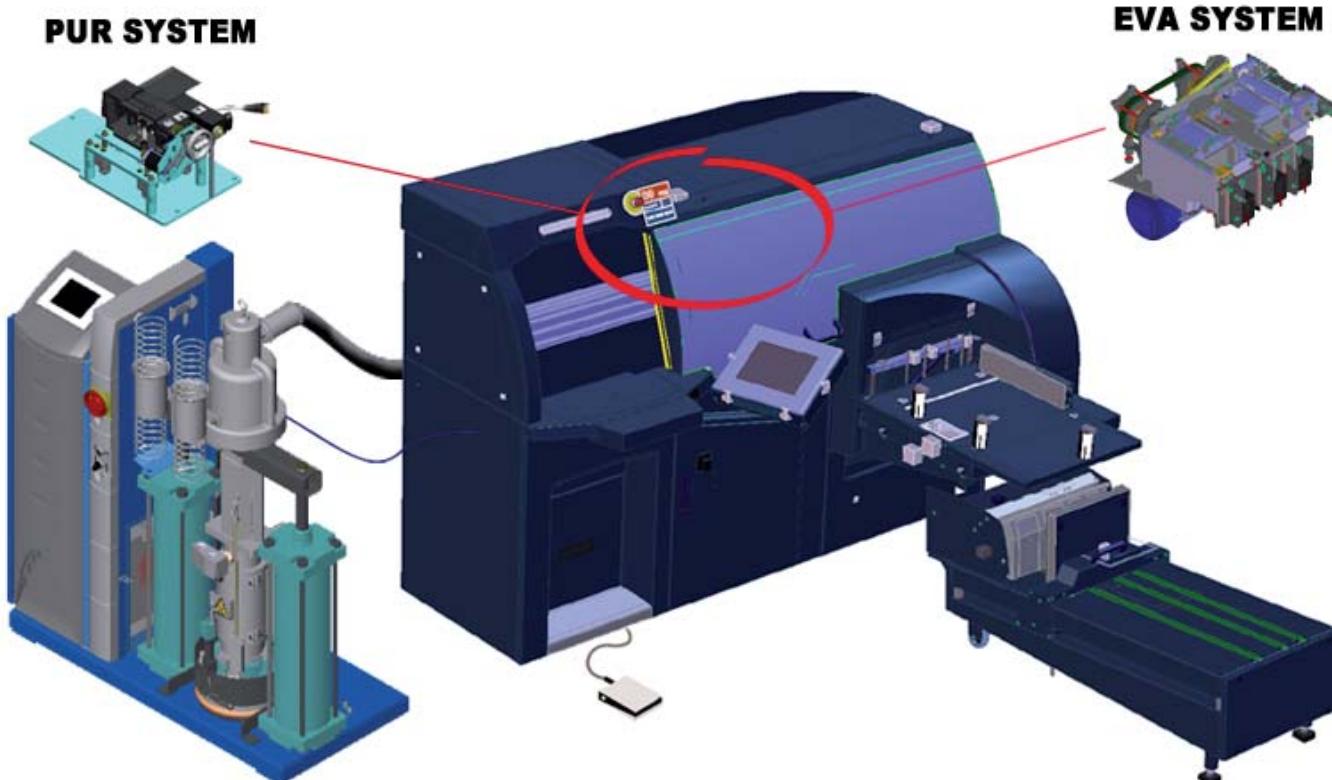


BOURG BINDER 3002



For EVA system
and PUR system



INSTALLATION MANUAL

Initial issue: 11/08
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9.133.724

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1. PRELIMINARY INSTRUCTIONS

1.1 Prior to the installation

Check the environmental conditions of your area.

This machine is designed for the following environment :

Intermediate storage and transport:

Temperature: -34°C + 60°C / -30°F + 140°F

Relative humidity: 5 - 90% RH

Altitude: -31m - 12192m / -100ft - 40000ft

Air pressure: > 56kPa (420mm Hg)

Operating environment :

Temperature: 5 -35°C / 41°F - 95°F

Relative humidity: 10 - 85% RH

1.2 Warning pictograms

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



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

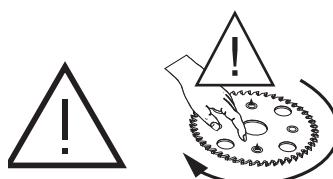
An emergency stop switch (red) located on the top cover allows the operator to stop the machine at any time or any incident.



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

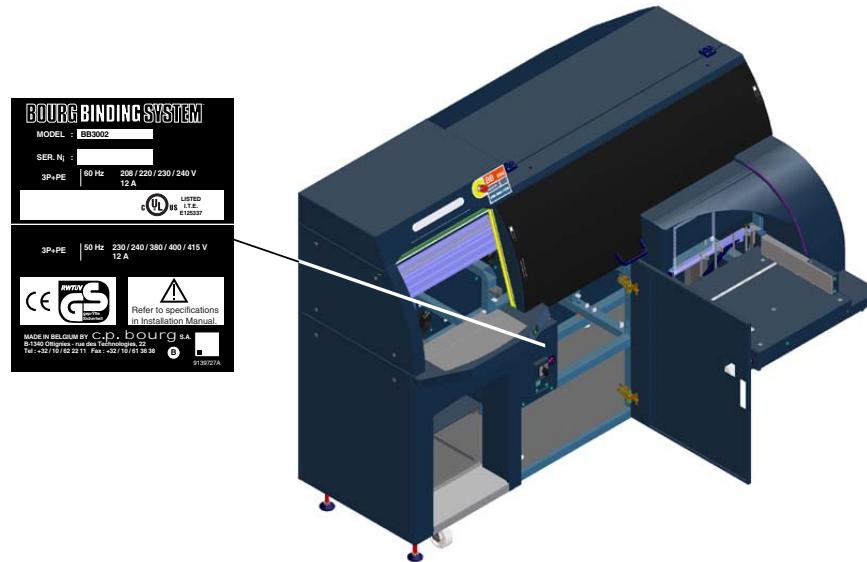


This label is located near the glue tank and near the valve for the draining of the glue tank. It indicates a high burning risk if you touch the hot glue.

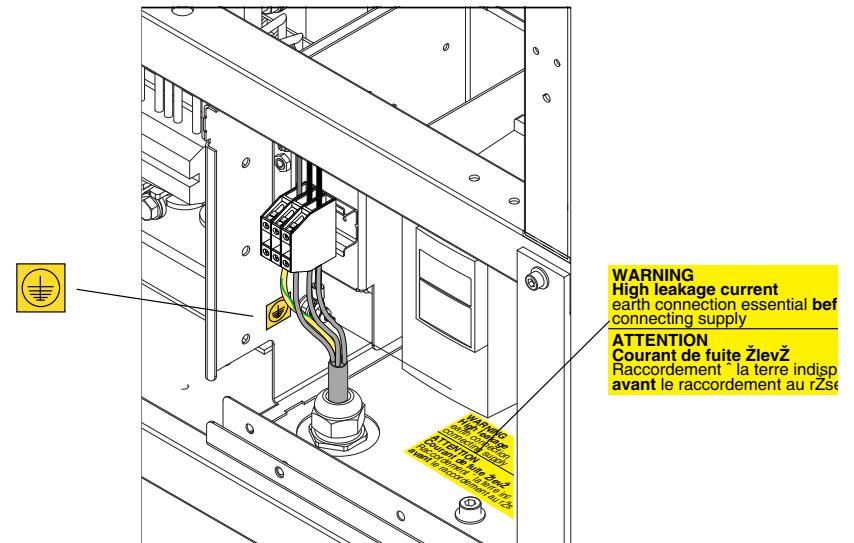


This label is located near the milling blade. It indicates a high risk of injury to your hands if you touch the rotating tools.

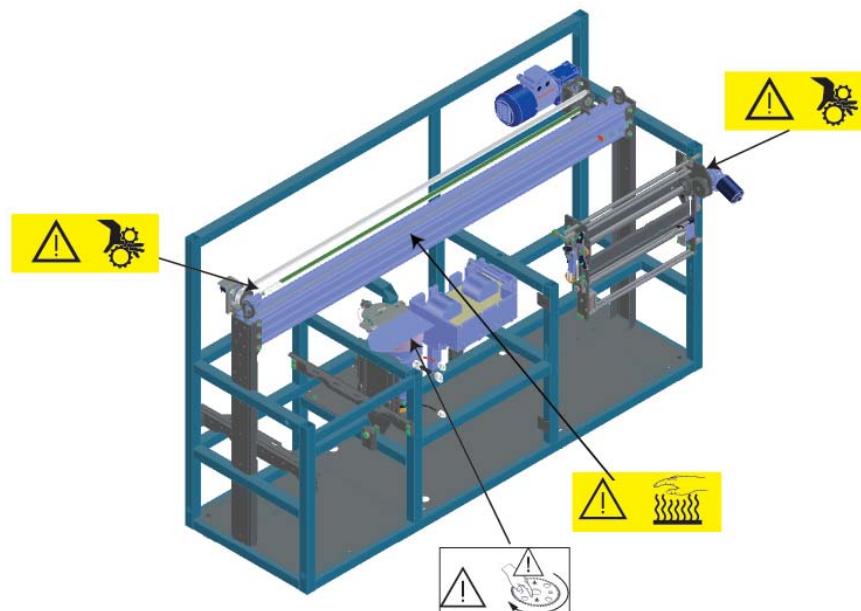
On the cover :



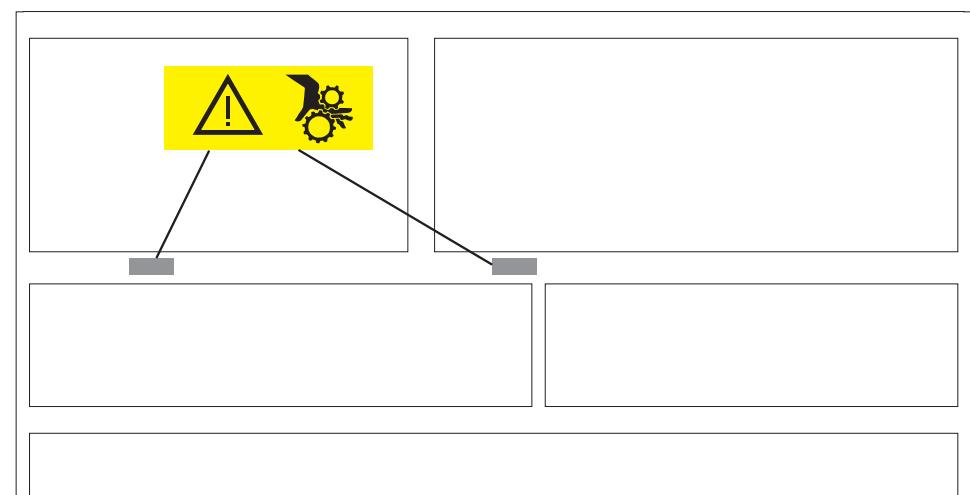
Inside the power rack :



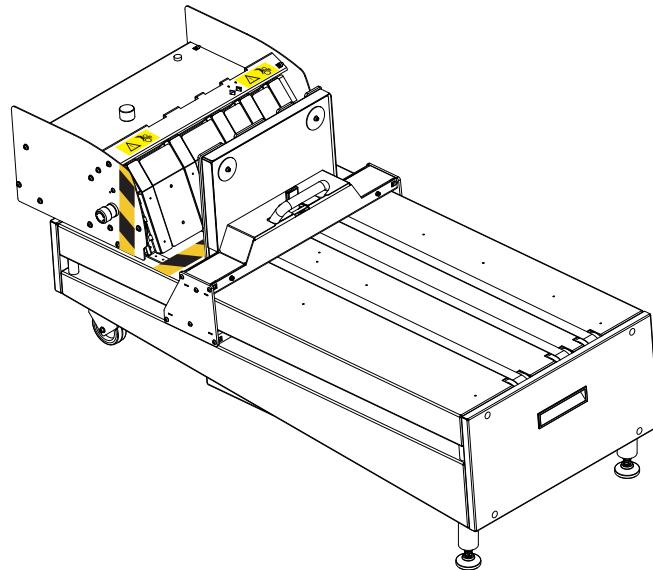
Inside the Binder :



On the back (inside) :



BBR :



2. INTRODUCTION

**THIS MANUAL IS INTENDED TO BE USED EXCLUSIVELY BY
QUALIFIED TECHNICAL PERSONNEL.**

Thank you for having chosen a Bourg product.

The **BOURG BINDER 3002** is a perfect binder destined for the off-line production of bound booklets.

The system consists of 2 units:

1. Perfect Binder.
2. Output Unit (optional).

This manual is a guide to their installation.

***IMPORTANT: Please read and follow these instructions
carefully before connecting the system to the mains
and you should obtain years of excellent service
from your system.***

All information in this publication is based on the latest information available at the time of approval for printing.

2.1 Site specification BB3002 EVA

Dimensions in meter (& foot).

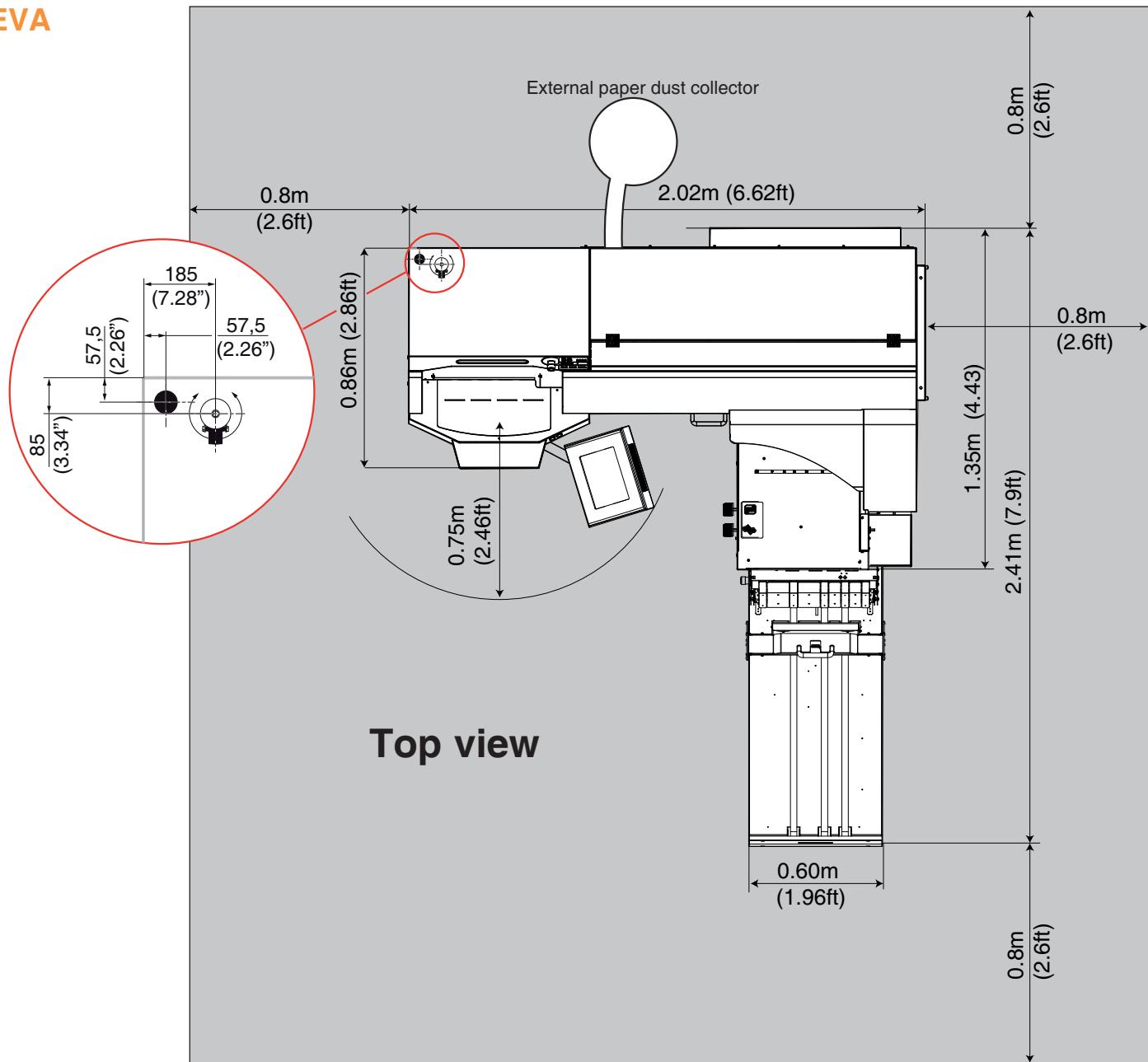
Caster load for BB 3002:

Front LH 110 kg (242.5 lbs)

Rear LH 110 kg (242.5 lbs)

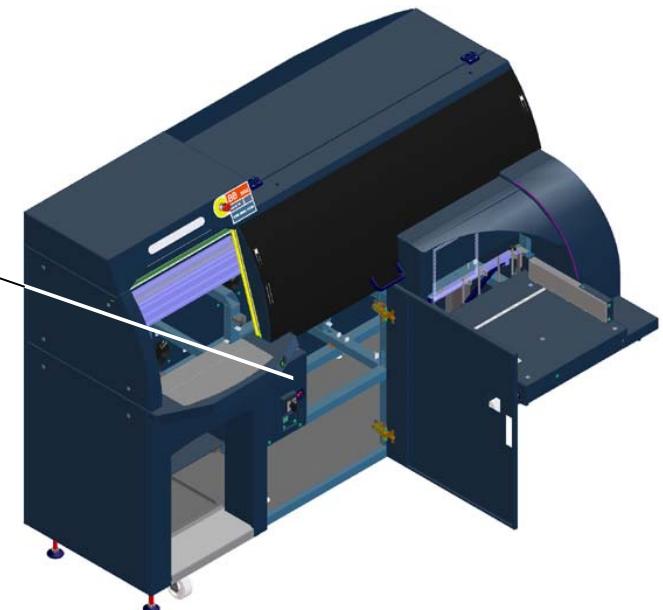
Front RH 220 kg (485 lbs)

Rear RH 200 kg (441 lbs)



2.2 Specification BB3002 EVA

Model	BB 3002	Dust concentration	0,04 mg/m ³ at continuous operation (TLV for nuisance dust = 10 mg/m ³)
Description	Glue binder	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.
Max. cycles / hour	Up to 600 cycles (operator dependent and based on A4 format)		
Dimensions	Length: 2.02 m (7.22 ft) Width: • without BBR 1.350 m (4.43 ft) • with BBR 2.410m (7.9 ft) Height: 1.50 m (4.92 ft)	Weight	640kg 1410lbs 80kg 176lbs
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	Binder Output Unit (optional)	
Power consumption, stand by	1500W		
Power consumption, operation	4000 W		
Power consumption, maximum	5500W		
Mains connection	Field-wiring 3 phases connection + ground		
Safety class	I (IEC 536) Protective earth connection		
Protection class	IP 20 (IEC 529)		
Radio interference	Complies with Directive 93 / 68 / EEC		
Radiation	Not applicable		
Radiant heat	13648 BTU/h		
Noise level (Lpa)	Maximum 76 dB (A) (at operator position)		
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		



2.3 Site specification BB3002 and PUR system

Dimensions in meter (& foot).

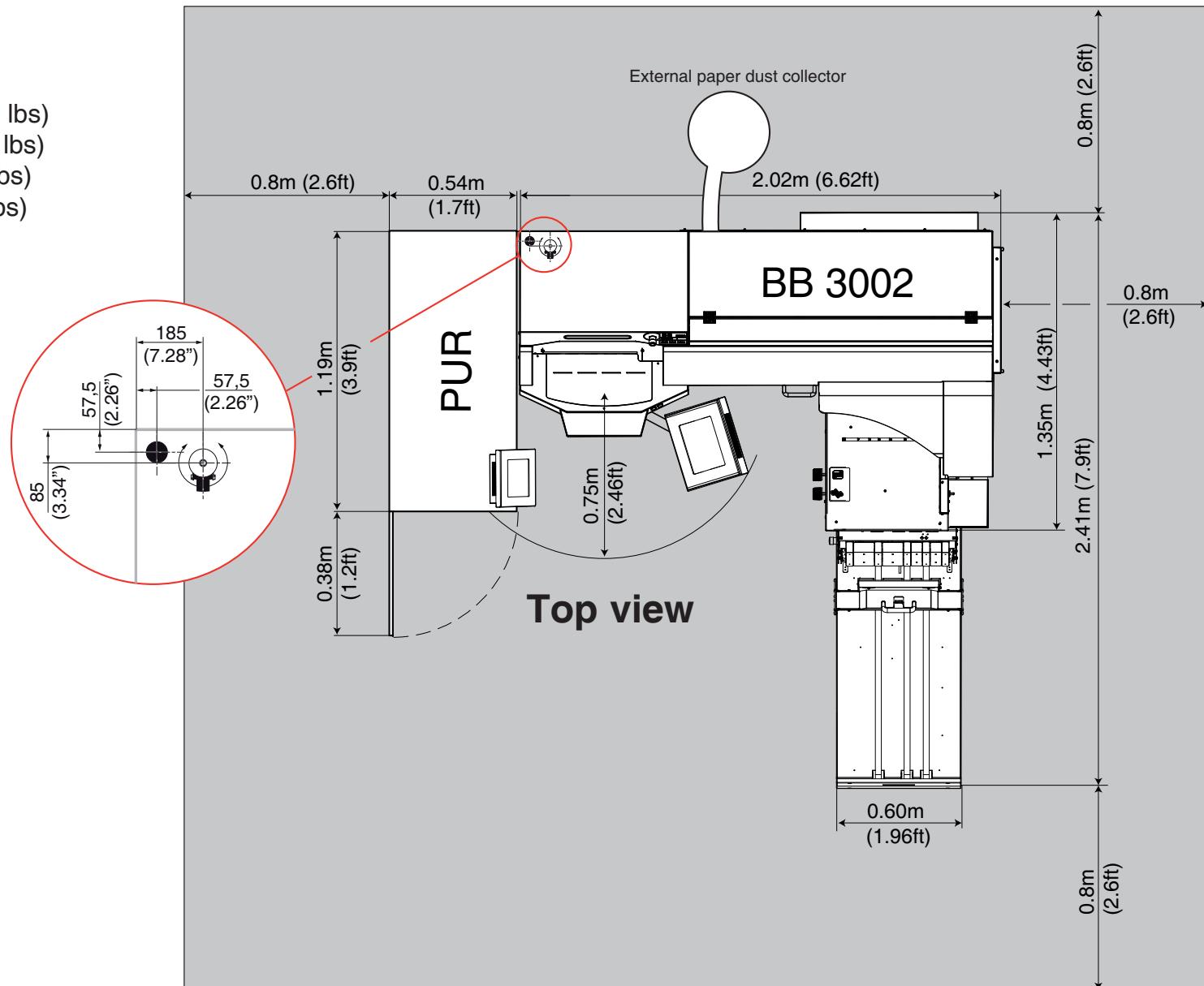
Caster load for BB 3002:

Front LH 110 kg (242.5 lbs)

Rear LH 110 kg (242.5 lbs)

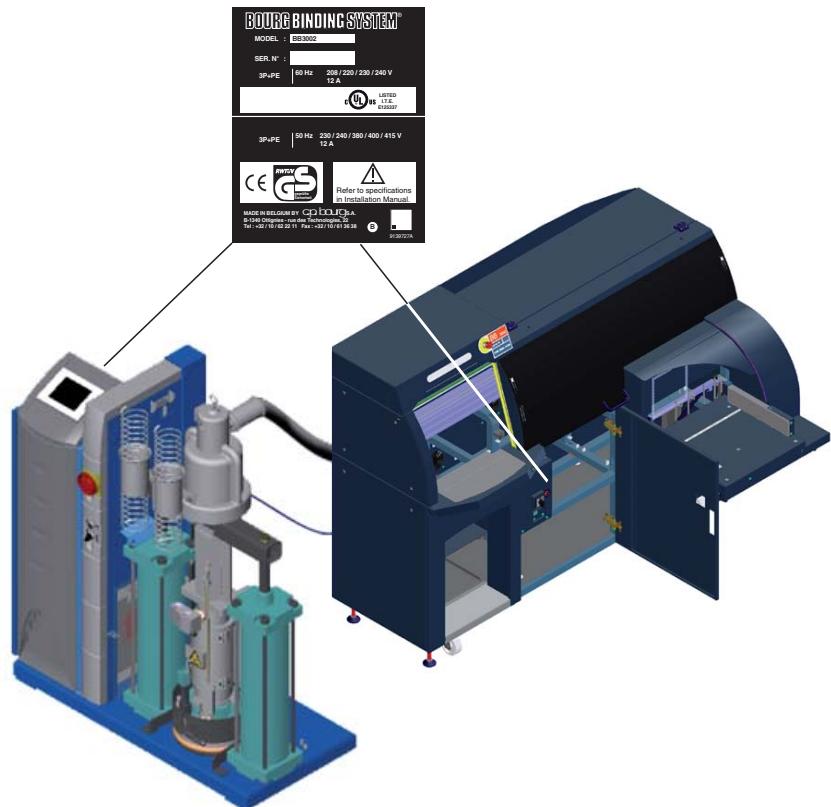
Front RH 220 kg (485 lbs)

Rear RH 200 kg (441 lbs)



2.4 Specification BB3002 and VersaPail

Model	BB3002 PUR	VersaPail
Description	Glue binder	Bulk Melter
Dimensions		
Height	1.50 m (4.92 ft)	1.92 m (6.3 ft.)
Weight	640 Kg (1410 Lbs)	275 kg (606 lbs)
Power required	208/220 V, 60Hz, 3 phase delta 12A	One of the following, see ID plate: 200 V (+/- 10%), 50/60 HZ, 3 phase delta, 43A
	220/230 or 240V, 50 Hz, 3 phase delta 12A	230 V (+/- 10%), 50/60 HZ, 3 phase delta, 38A
		400 V (+/- 10%), 50/60 HZ, 3 Y, 22A
	380/400 or 415V, 50Hz, 3 phase star, no neutral 12A	400 V (+/- 10%), 50/60 HZ, 3 delta, 22A
		480 V (+/- 10%), 50/60 HZ, 3 delta, 19A
Power consumption, stand by	1000W	TBD
Power consumption, operation	2500 W	6000W
Power consumption, maximum	3500W	TBD
Safety class I	(IEC 536) Protective earth connection	CE IEC 60950-1 for class A
Protection class	IP 20 (IEC 529)	IP 54
Noise level (Lpa) Maximum	76 dB (A) (at operator position)	62 db at 1 meter
Radiant heat	8500 BTU/h (in operation)	20500 BTU/h (in operation)
Room volume Recommendation	95 m ³ (7 x 4.5 x 3 m) 3336 ft ³ (23x14.8x9.8 ft)	TBD
Exhaust Requirement	510 m ³ /h (300 cfm) build-in extractor	510 m ³ /h (300 cfm) Need for external extractor
Dust concentration	0,04 mg/m ³ at continuous operation (TLV for nuisance dust = 10 mg/m ³)	NOT SPECIFIED
Additionnal 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.	NOT SPECIFIED
Compressed Air Flow	NOT APPLICABLE	5 to 6 bar (72.5 to 87 psi)



3. UNPACKING THE BINDER

3.1 Check the stickers on containers

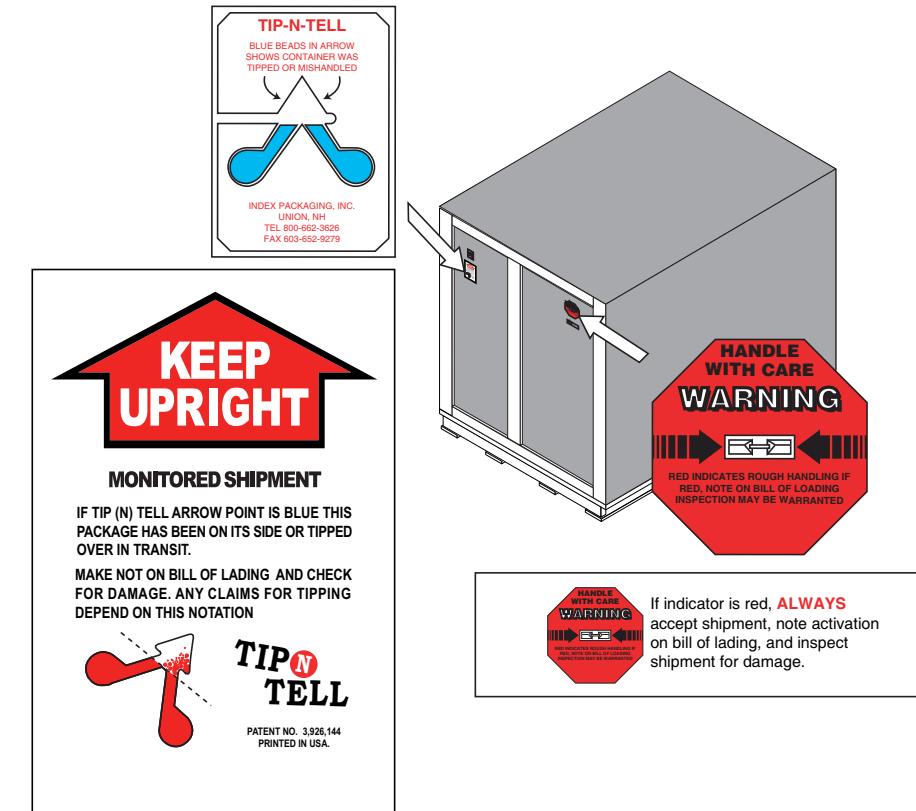
- **TIP-N-Tell** label:

Blue beads in arrow shows container was tipped or mishandled.

- **“Warning” label:**

Red indicates rough handling.

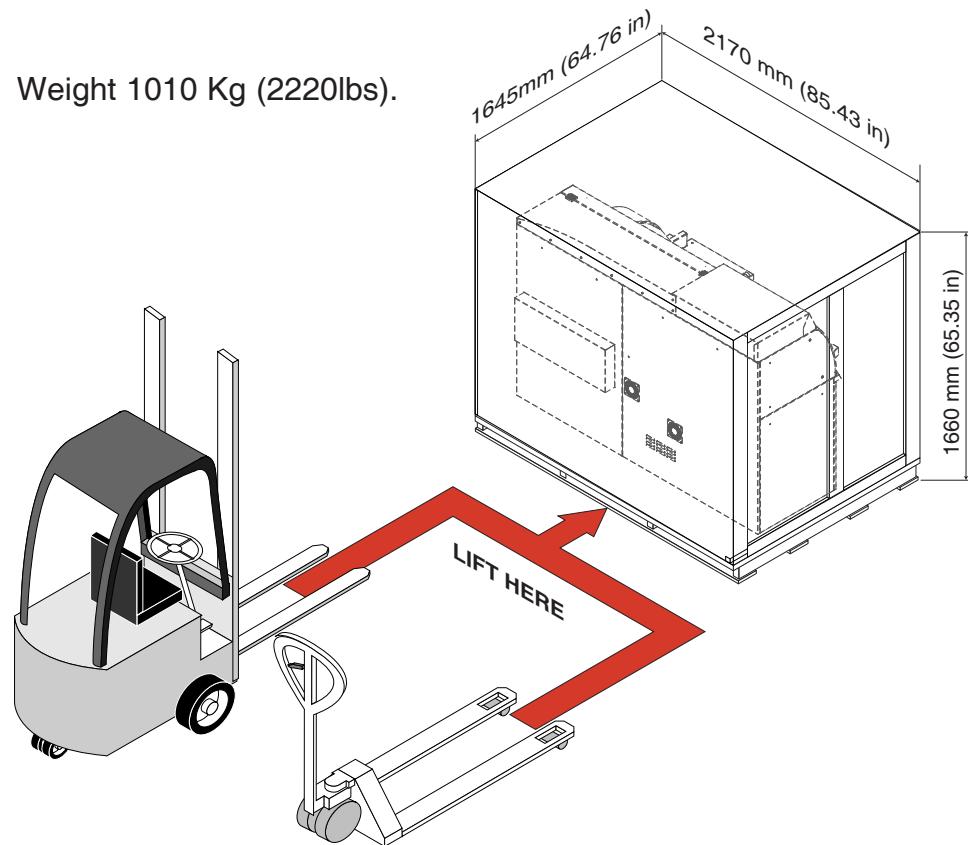
If indicator is red, package may have been mishandled. You may accept shipment, but have to note shock watch activation on bill of lading, and inspect shipment for damage.



3.2 Handling

The pallet can be lifted only from one side (as illustrated).

Weight 1010 Kg (2220lbs).



3.3 Unpacking the Binder

The package contains:

- The Binder unit (a).
- 1 ramp (g).
- 1 bag of glue granules (b).
- 1 accessory box (c).
- 1 user interface (e).
- 1 dust collector (d).
- 1 output unit (f).

Unpacking :

- Remove the staples fastening the cardboard to the wooden side panel and frame (Fig.1).
- Remove the cardboard (Fig.2).
- Remove the wooden side panel and frame (Fig.2).
- Remove the plastic wrap (Fig.4).
- Cut the straps.
- Remove the ramp and the 4 boxes (glue, accessories, user interface and dust collector) (Fig.5).

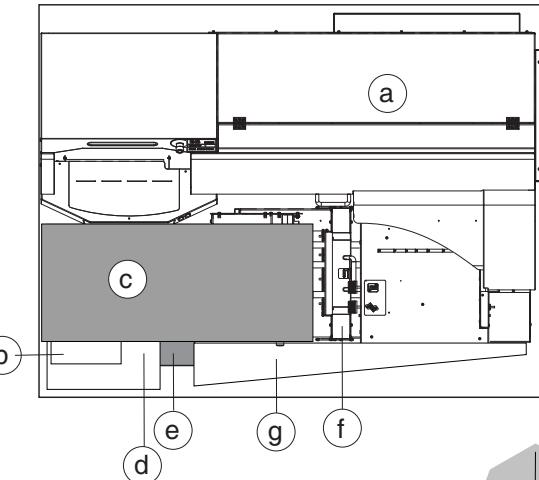
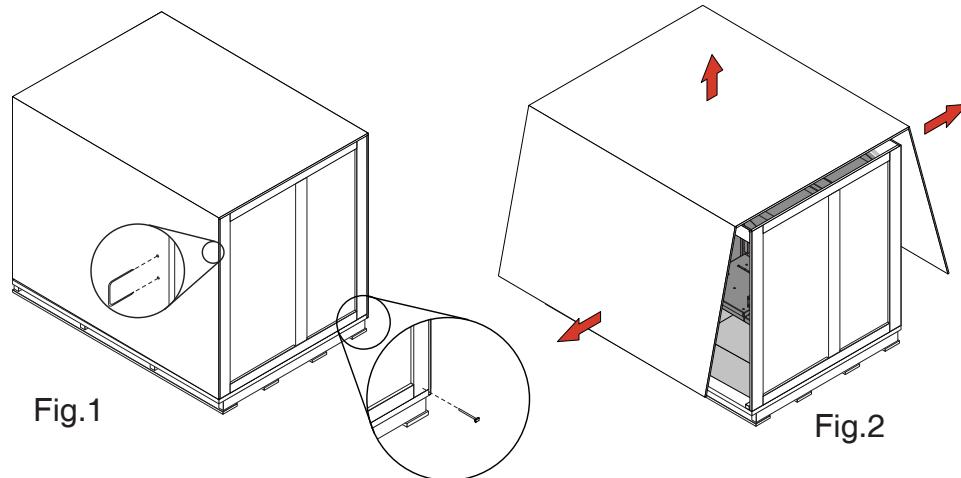


Fig.3

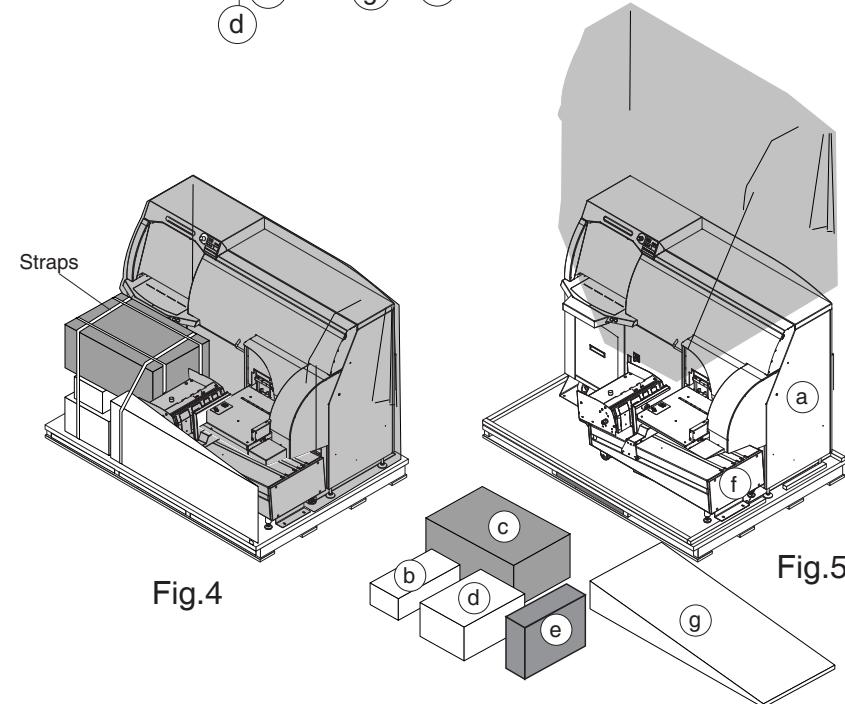
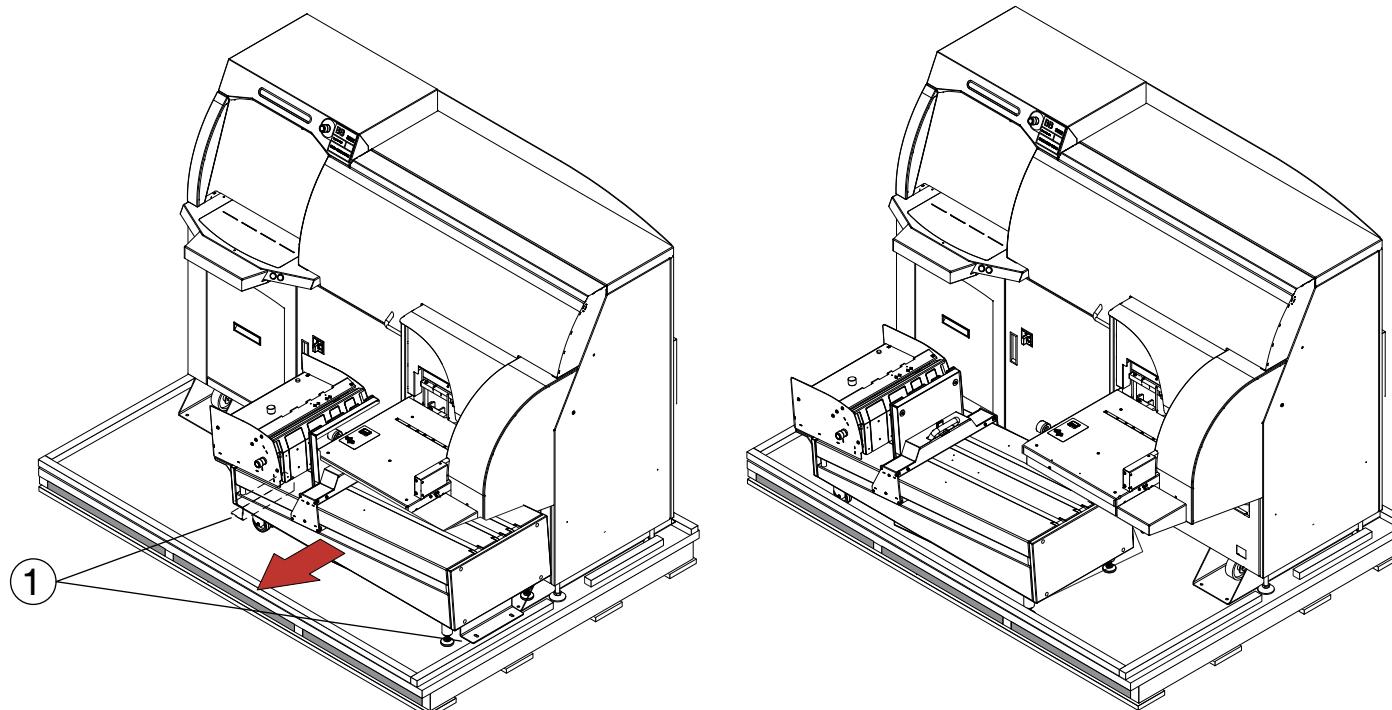


Fig.4

Fig.5

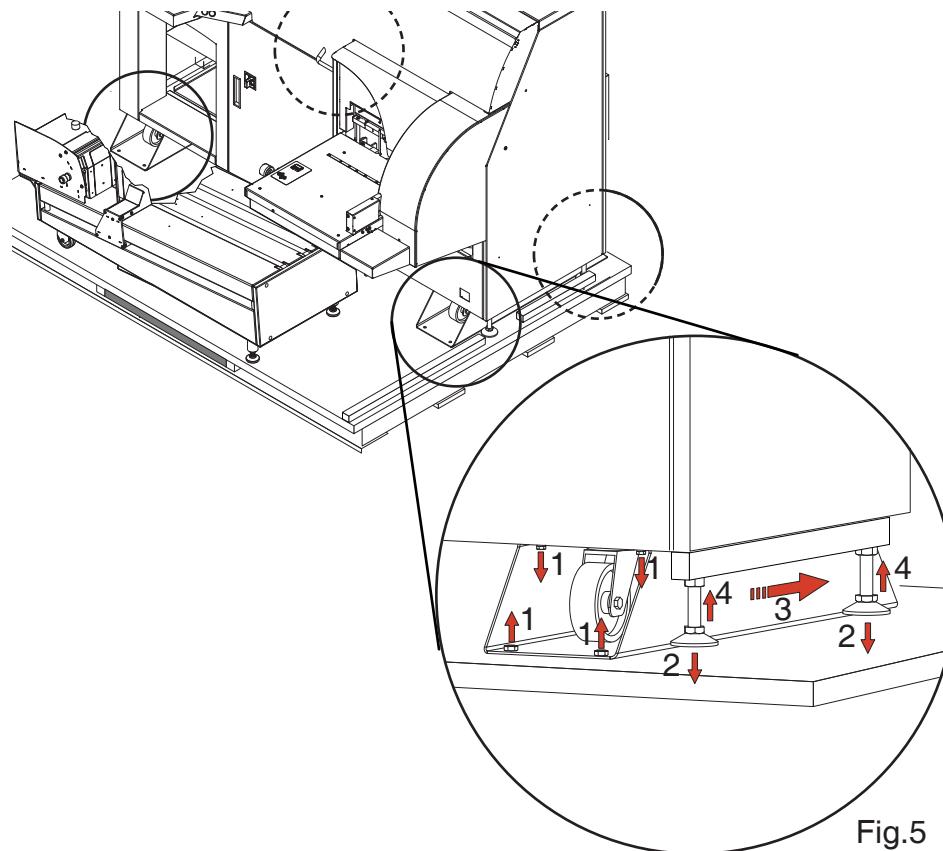
3.4 Unpacking the output unit (BBR) (optional)

- Remove the screws fastening the docking support brackets (1) to the pallet and to the BBR.
- Move the BBR further away from the binder in order to use the ramp when the binder will be lowered from the pallet.



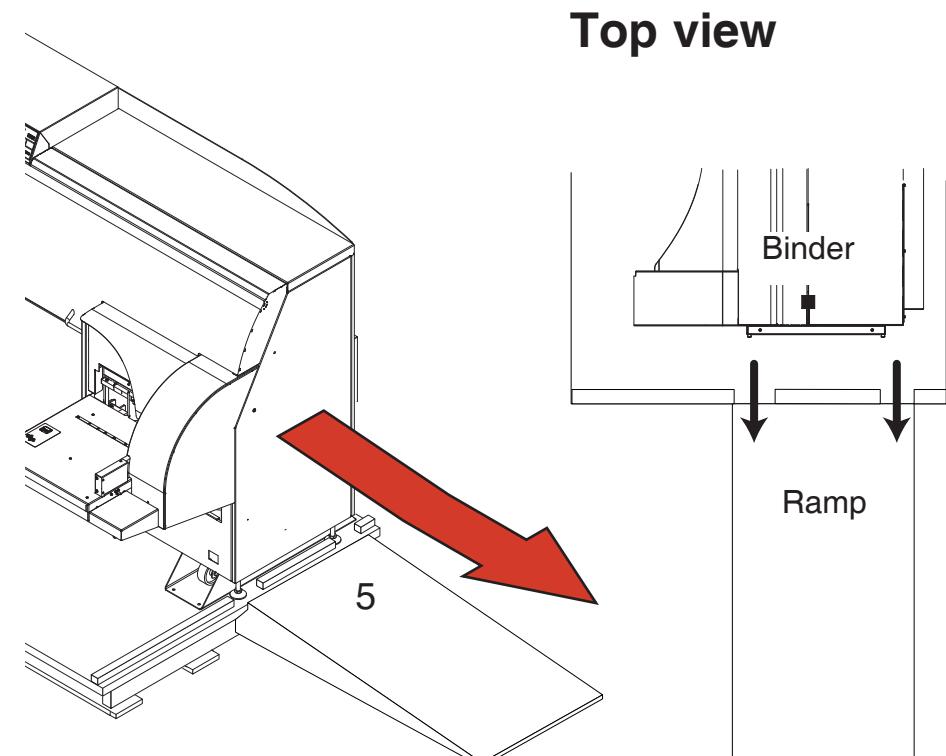
3.5 Undocking the Binder from the pallet

1. Remove the screws fastening the docking support bracket to the binder and to the pallet. There are 8 screws (4 on the front and 4 on the rear).
2. Rotate the height adjustment legs clockwise to raise the binder off the docking support brackets.
3. Remove the docking support brackets.
4. Rotate the height adjustment legs counterclockwise until the binder is resting on the wheels.
5. Do steps 1-4 for the other support bracket.



6. Install correctly the ramp against the pallet (Fig.6). The binder wheels must go through the cuts of the pallet.

Attention: Minimum 2 persons are required to remove the binder from the pallet.



4. INSTALLATION

4.1 Preliminary

- Move the binder to its final location.
- Cut the tie wrap and open plexi top cover (Fig.1).
- Cut and remove :
 - the two tie wraps on the cover transport and the cover feeder (Fig.2).
 - the two tie wraps on the cover clamp (Fig.2).

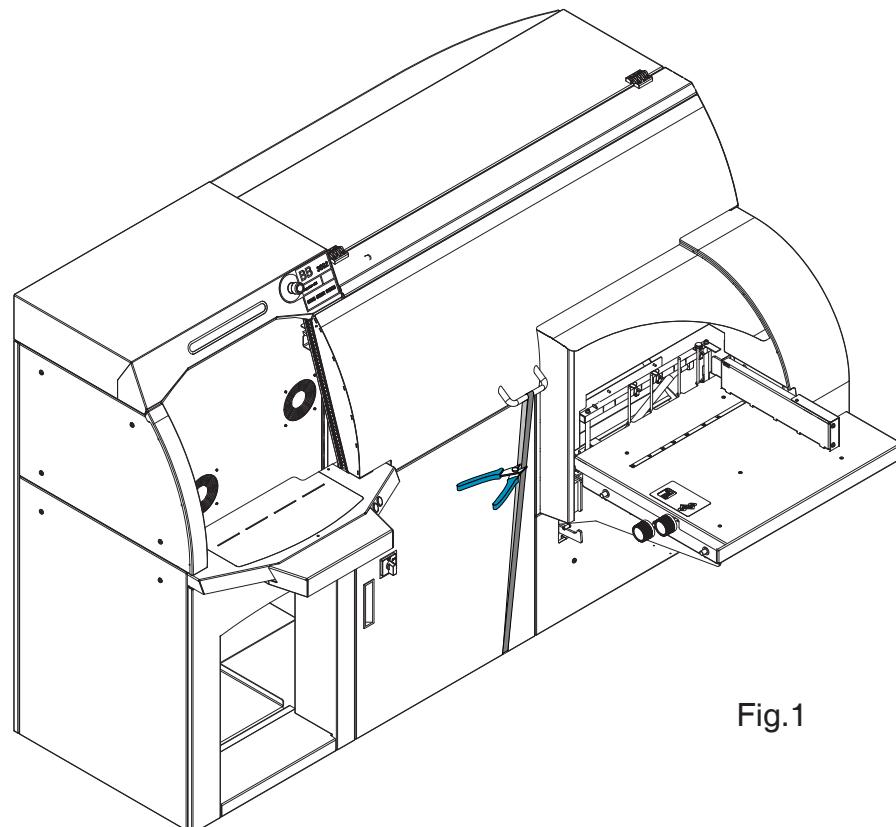


Fig.1

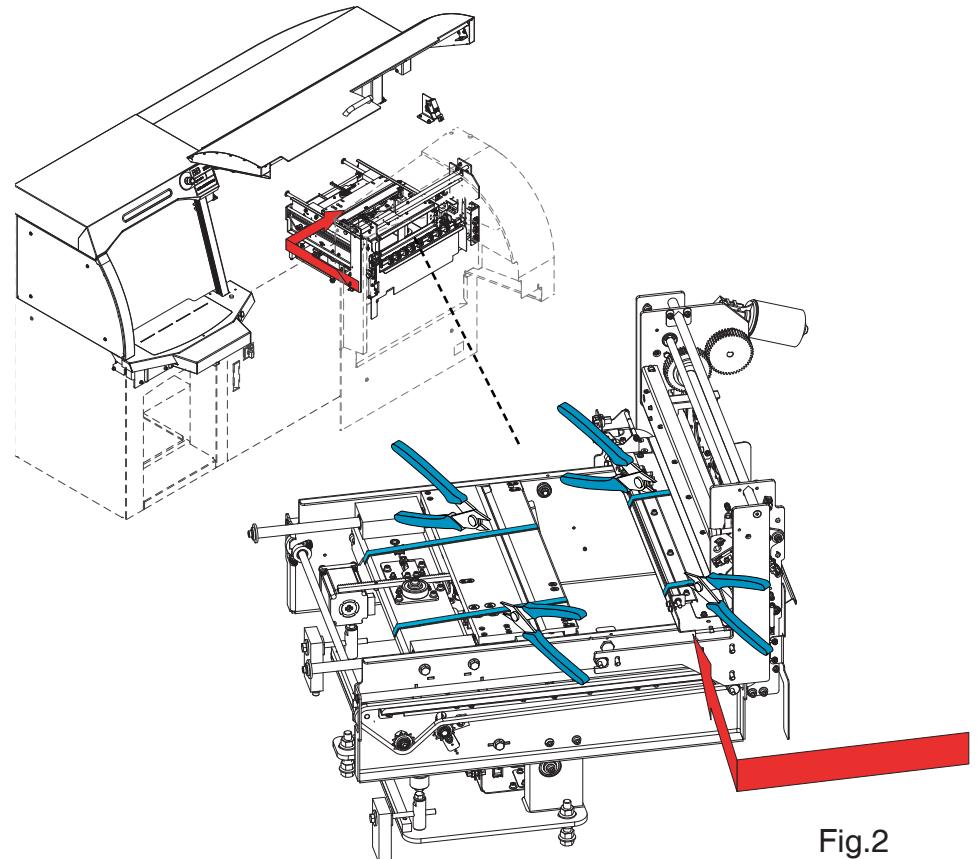


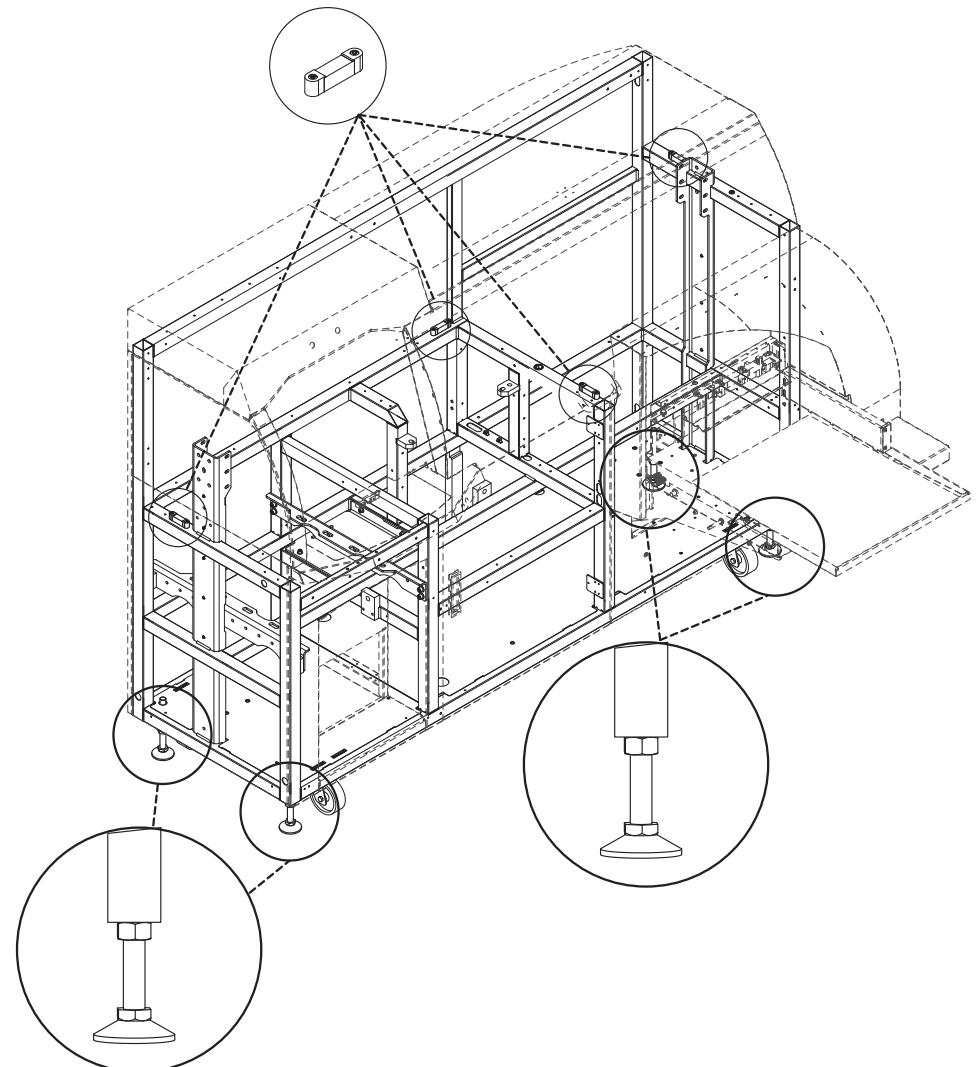
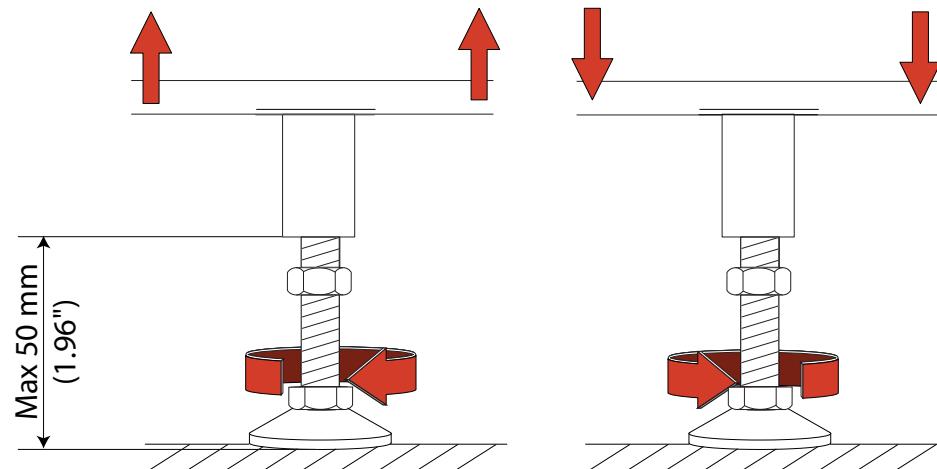
Fig.2

4.2 Binder levelling

*Note : It is essential that the Binder be levelled.
Several water gauge levels are installed on the chassis
of the binder to assist the levelling.*

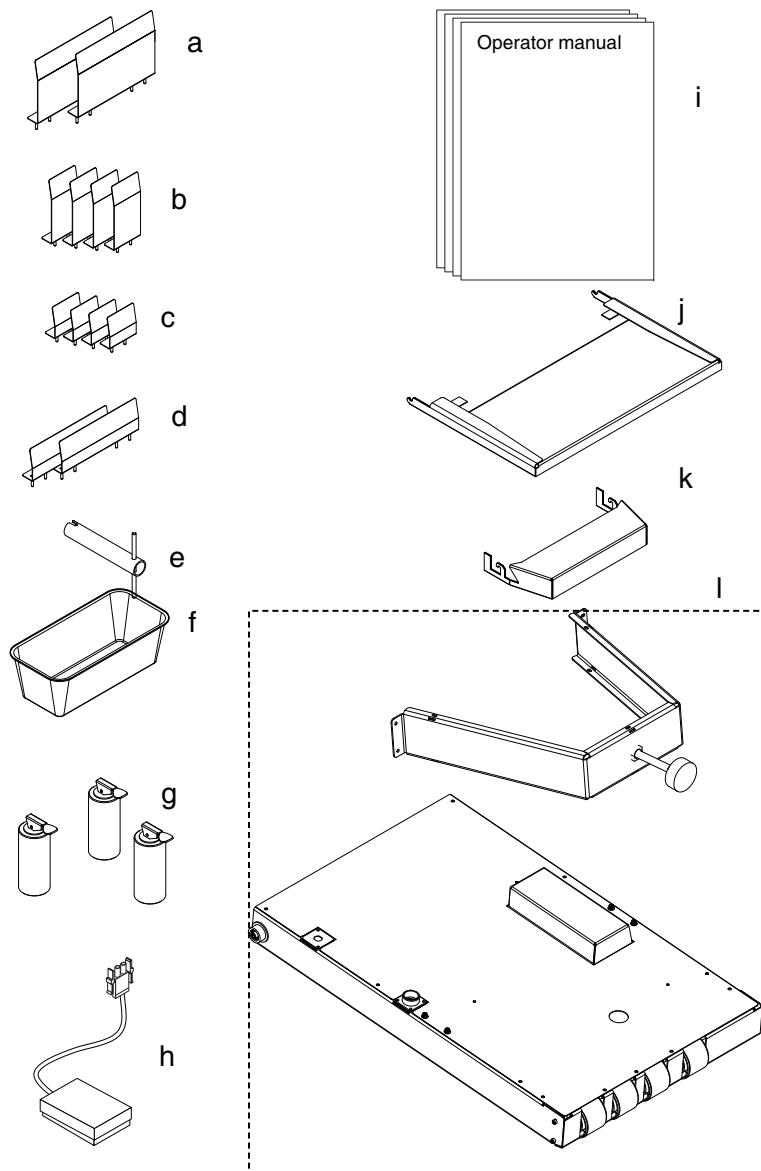
Rotate the legs to adjust the level of the binder according to the water bubble gauges.

Possible height adjustment of maximum 50 mm (1.96")



4.3 Kit Content

REF	ITEM NUMBER	Description
a	9414078	Large and high guides
b	9414077	Short and high guides
c	9414076	Off line guides
d	9414079	Large and low guides
e	9403843	Spanner for draining the glue tank
f	9199883	Aluminium container
g	9414105	Magnetic stop
h	2081998	Foot switch
i	9133729	operator manual
j	9230665-AF	Cover table extension
k	9403925-AF	Loading area extension
l	9432430-AF	Conveyor



4.4 Conveyor

Unpacking of the conveyor

- Unpack the conveyor from the box.
- Install the foot (1) on the conveyor with the screws (2) and washers (Fig.1).

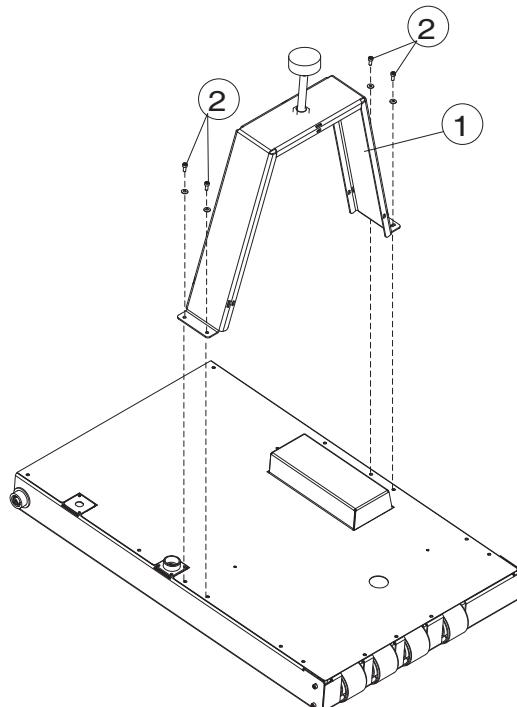


Fig.1

Conveyor installation

- Raise the baffle (1) (Fig.2).
- Position the rollers (2) on the guides (3).
- Adjust the conveyor height by using the foot (4).
- Lock the conveyor position with the levers (5) (Fig.3 on next page).

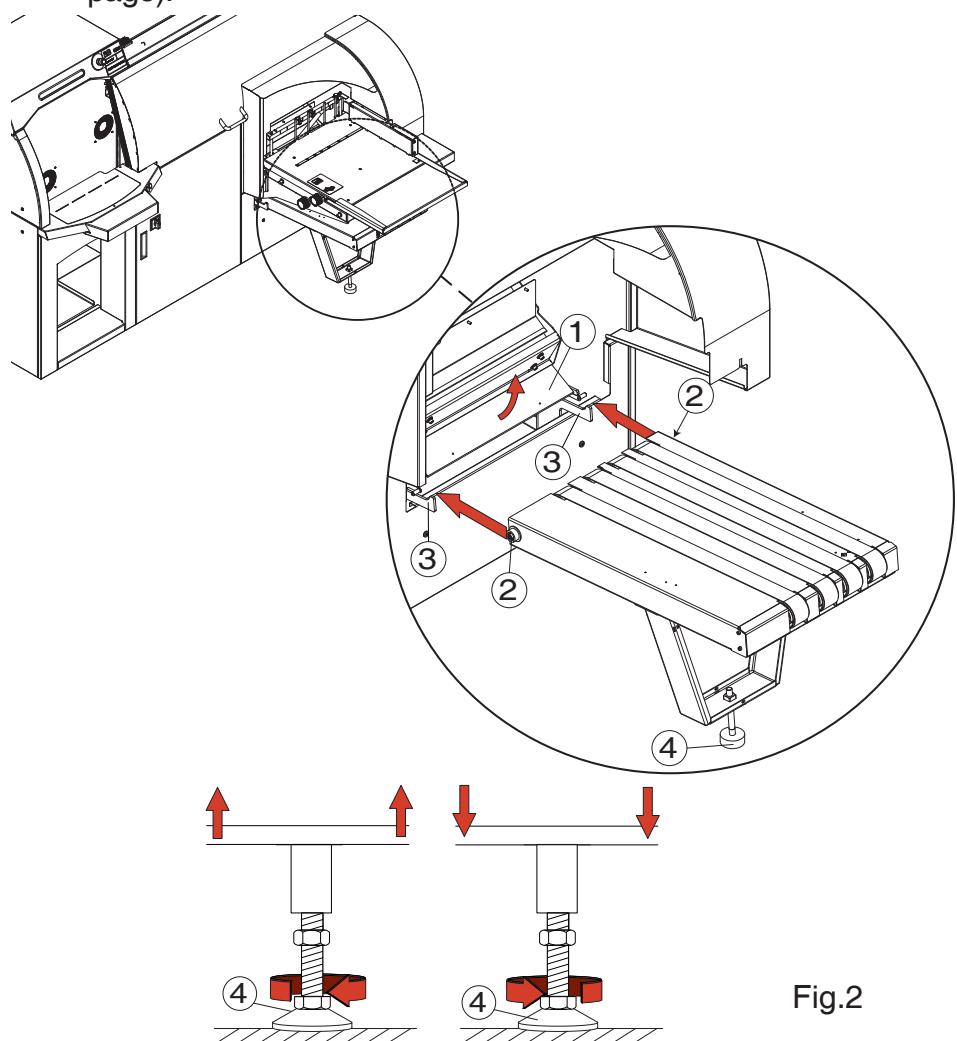
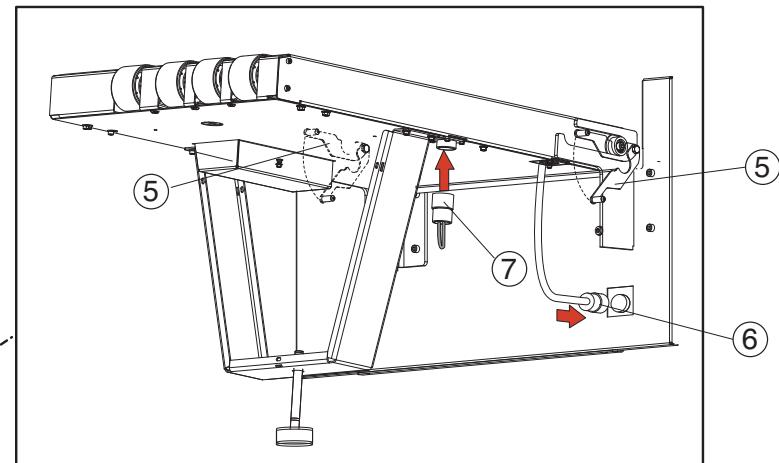
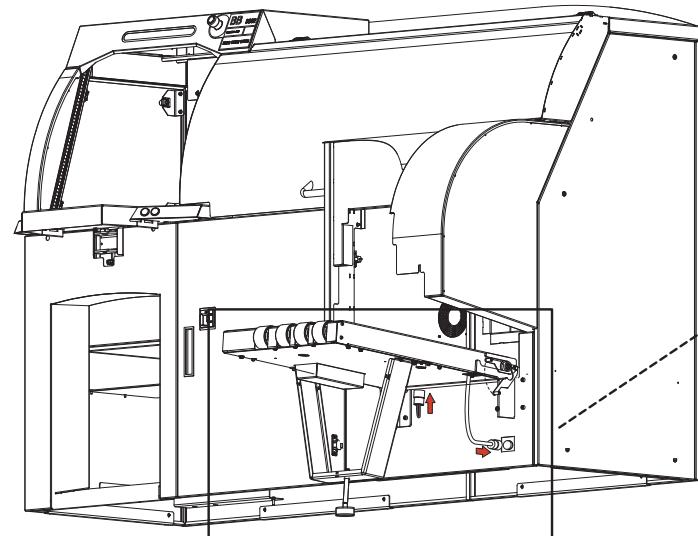


Fig.2

Connection

- Connect the cable (6) to the binder.
- Install the terminator plug (7) 9422912.

Fig.3



4.5 Output unit (BBR) (optional)

Installation

- Elevate the foot (B) off the ground so that the conveyor rests on the output unit Fig.1.
- Adjust the BBR height by using the feet (A) Fig.1.
- Manually push the BBR head towards the binder (hold the BBR base in place).
- Insert the docking pin (C) inside the hole located under the conveyor as shown on figure 2.
- Unlock the levers (D) and push the BBR and the conveyor fully towards the binder Fig.3.
- The rollers should be positioned as illustrated on figure 3.

Note: Make sure The Levers (D) are in the down position so the conveyor can move freely within the guides (3).

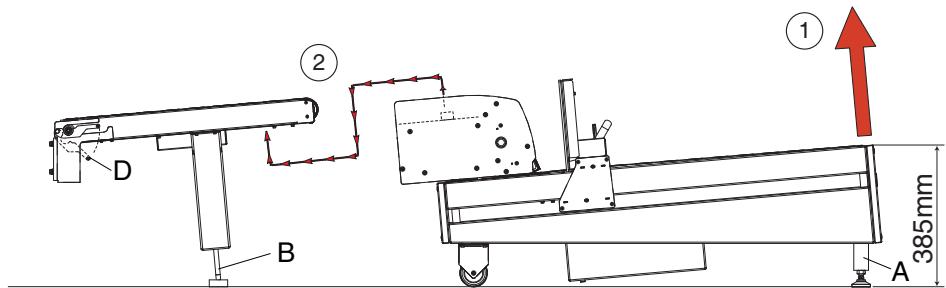


Fig.1

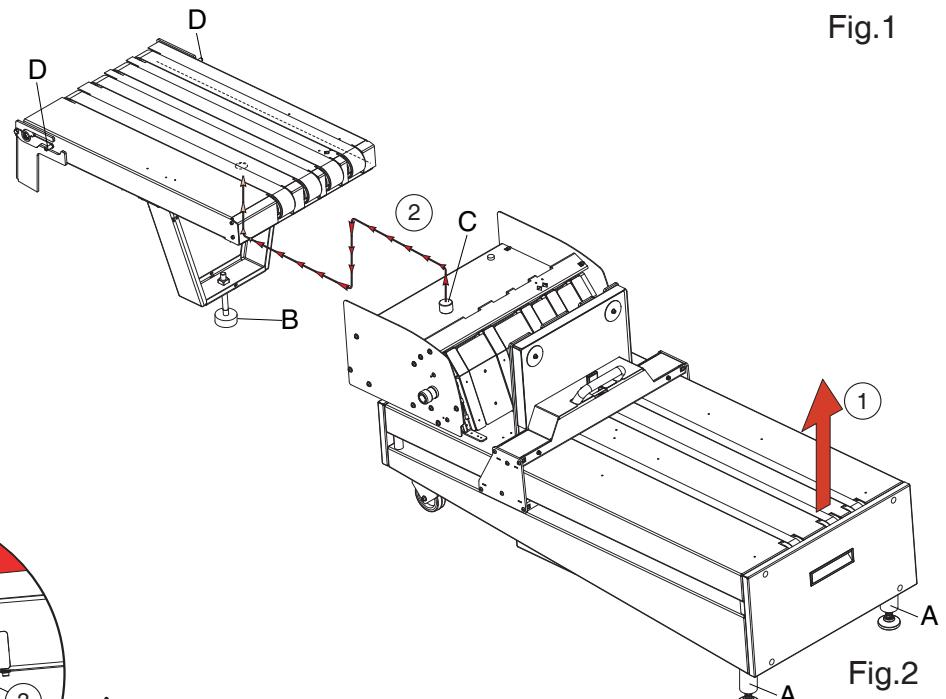


Fig.2

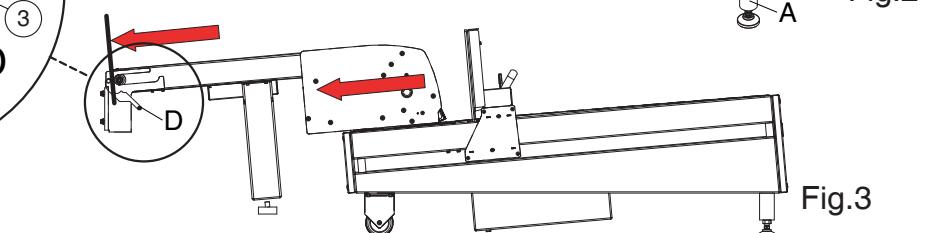
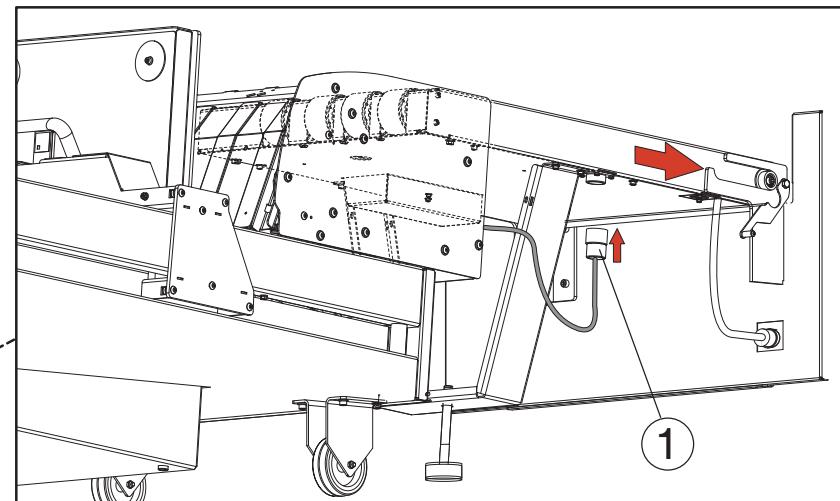
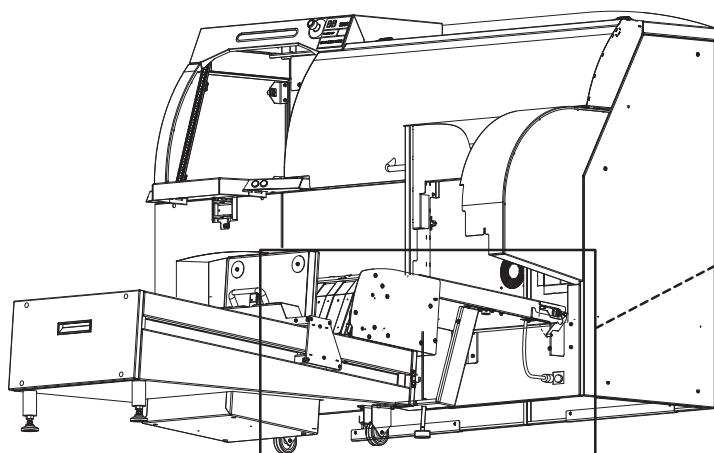


Fig.3

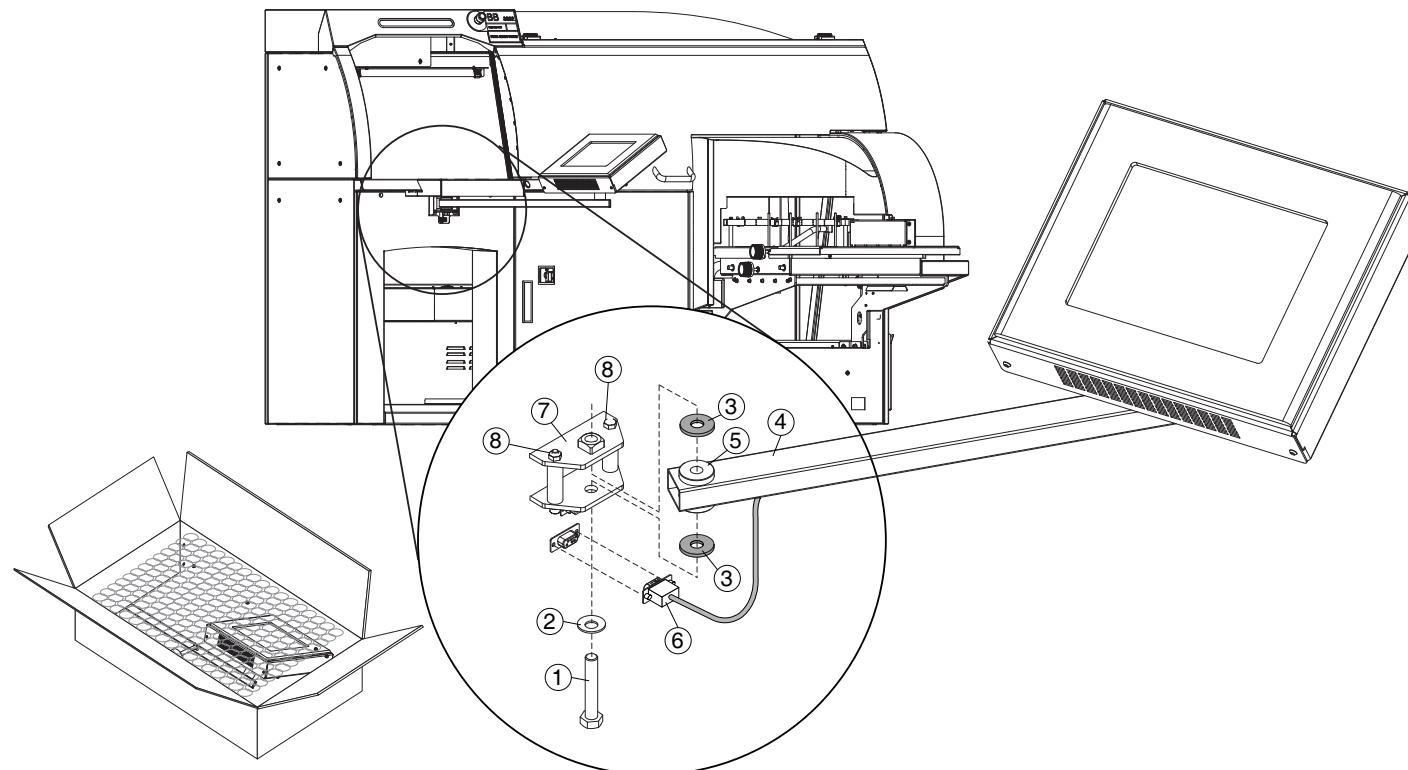
Connection

- On the conveyor, remove the terminator plug located under the conveyor. Store it in a safe place.
- Connect the cable (1) to the conveyor.



4.6 User Interface Installation

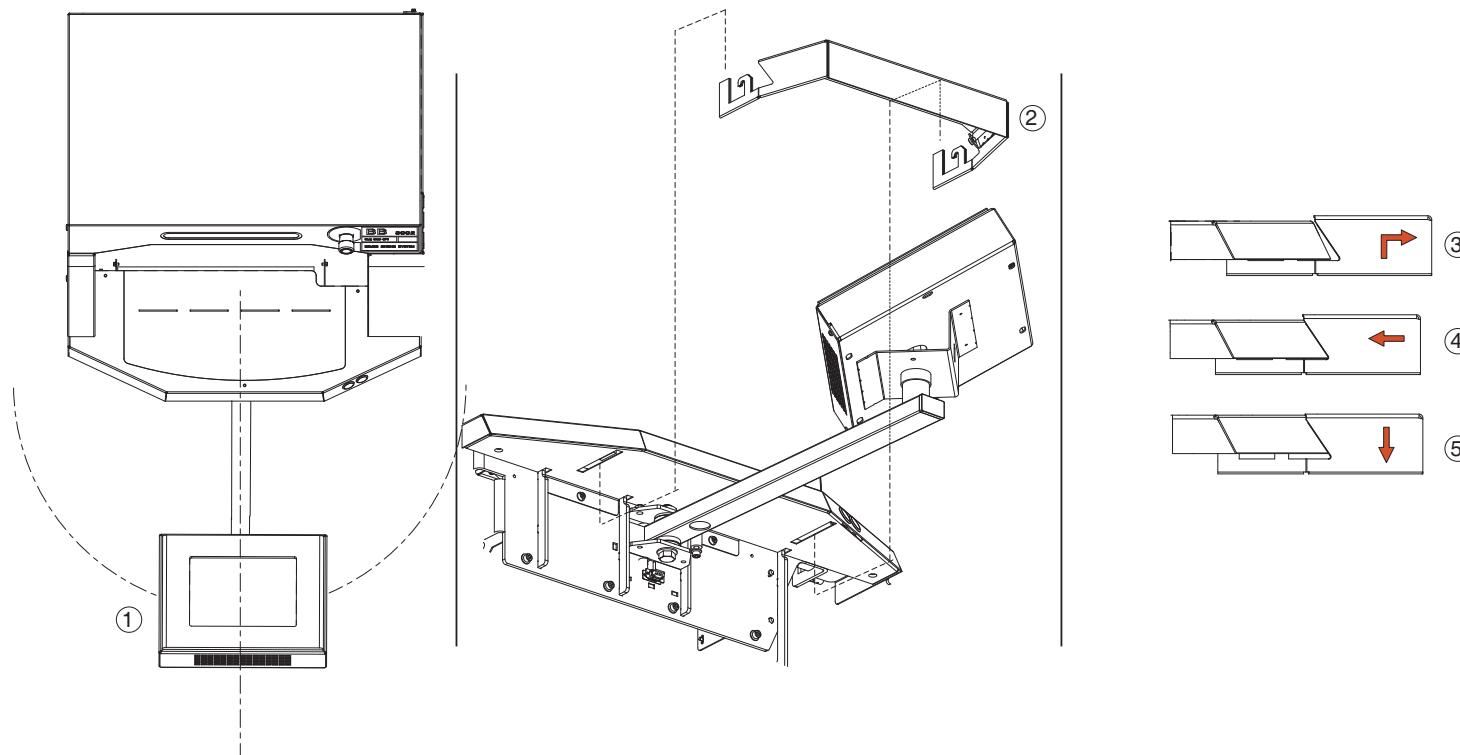
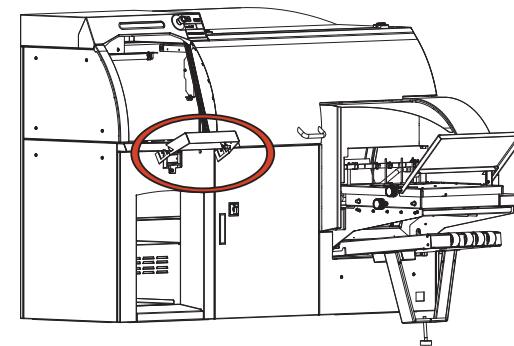
- Carefully unpack the UI from its box .
- Remove the screw (1) and washers (2) and (3) from the bracket.
- Slightly loosen both screws (8) to easily insert the arm.
- Insert the end of the arm in the bracket (7) with a washer (3) on each side of the spacer (5).
- Replace the screw (1) and washer (2).
- Tighten the screws (8).
- Tighten the screw (1).
- Plug in the connector (6).



4.7 Extension installation

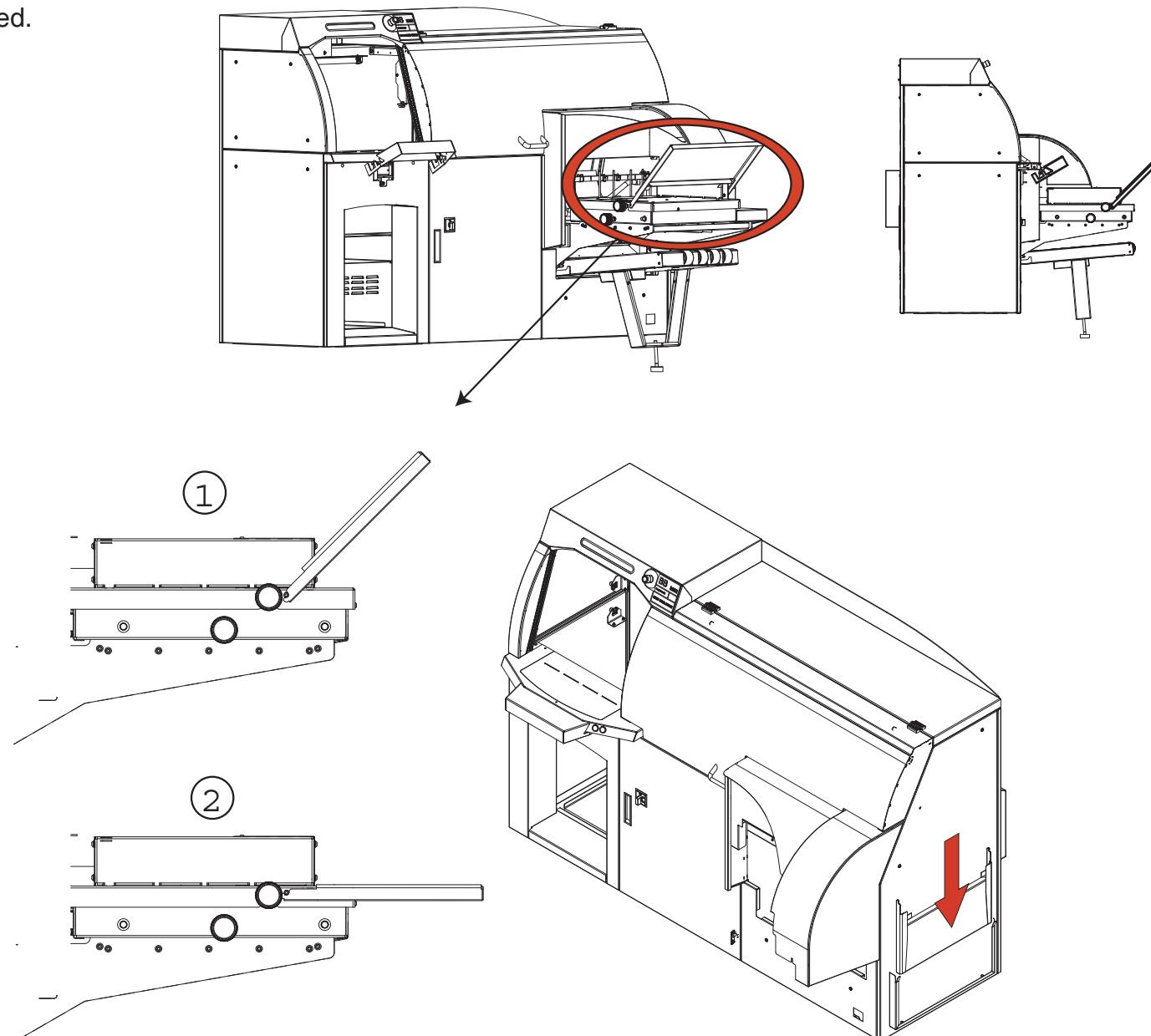
Loading area extension

Install the extension as illustrated.



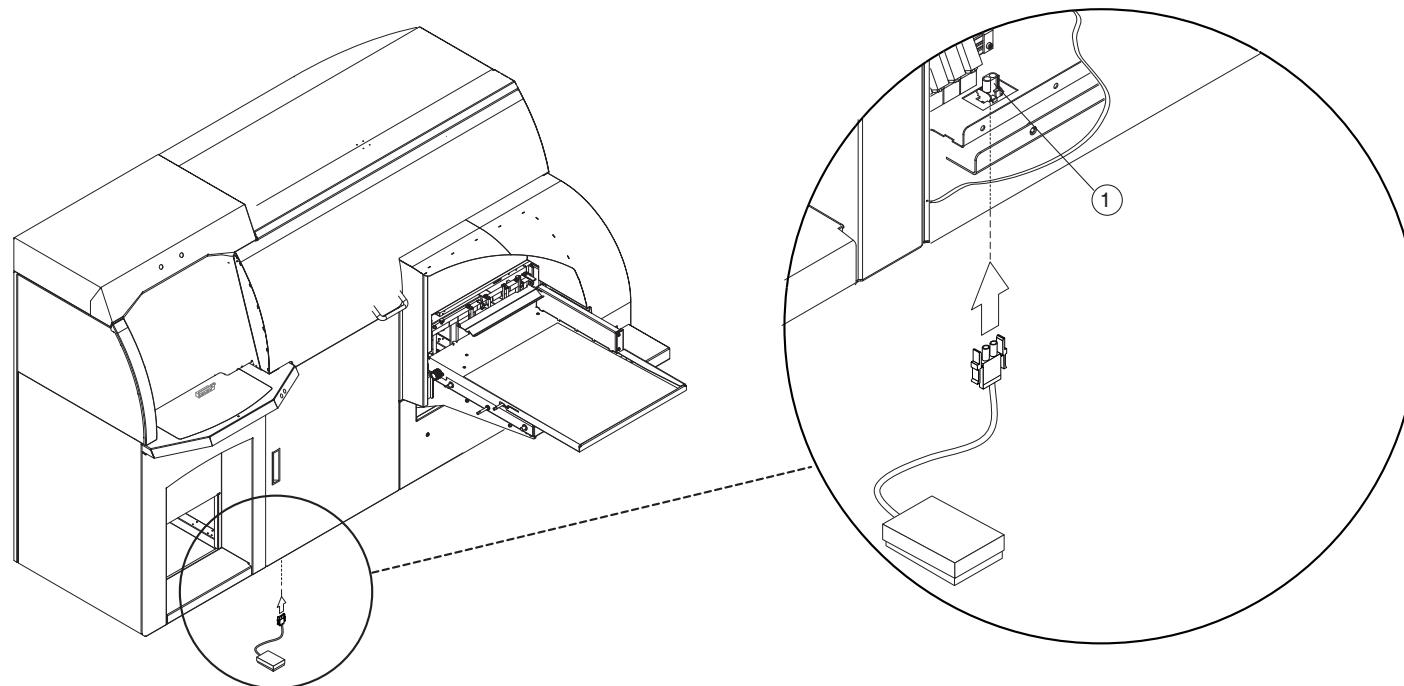
Cover table extension

Install the extension as illustrated.



4.8 Foot switch installation

Connect the foot switch in the connector (1) located under the binder.



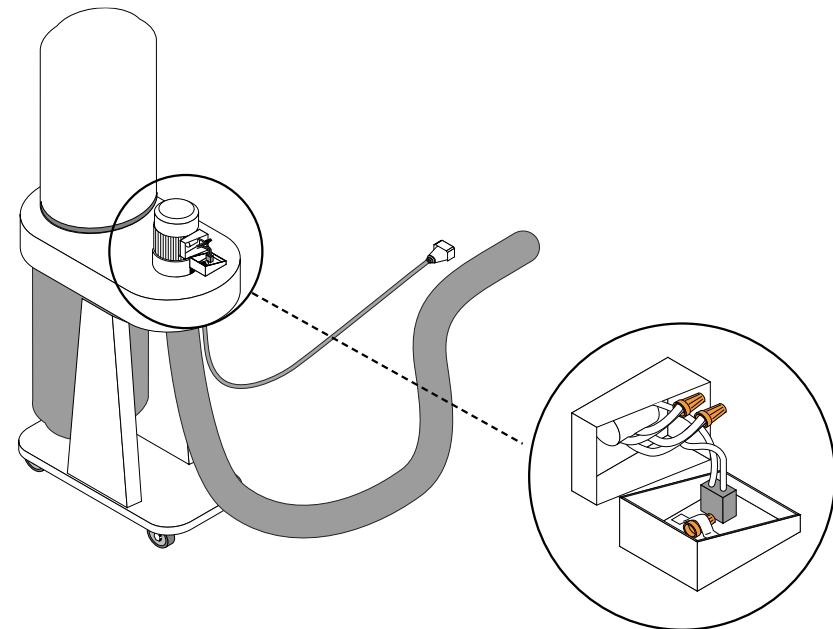
4.9 Dust collector installation

A Without Tag 37

1. Unpack the dust collector.
2. Refer to the enclosed instructions to assemble the dust collector. **The motor is not connected.**
3. Remove the screw to open the electrical box.

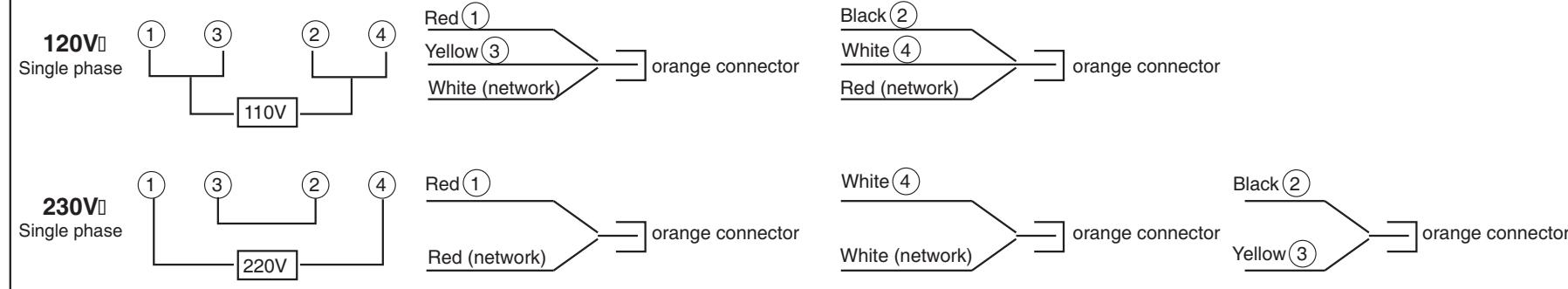
Warning : Ensure that the power cord is not plugged to the mains.

4. Connect the wires as illustrated.
5. Tighten the screw to correctly close the electrical box.

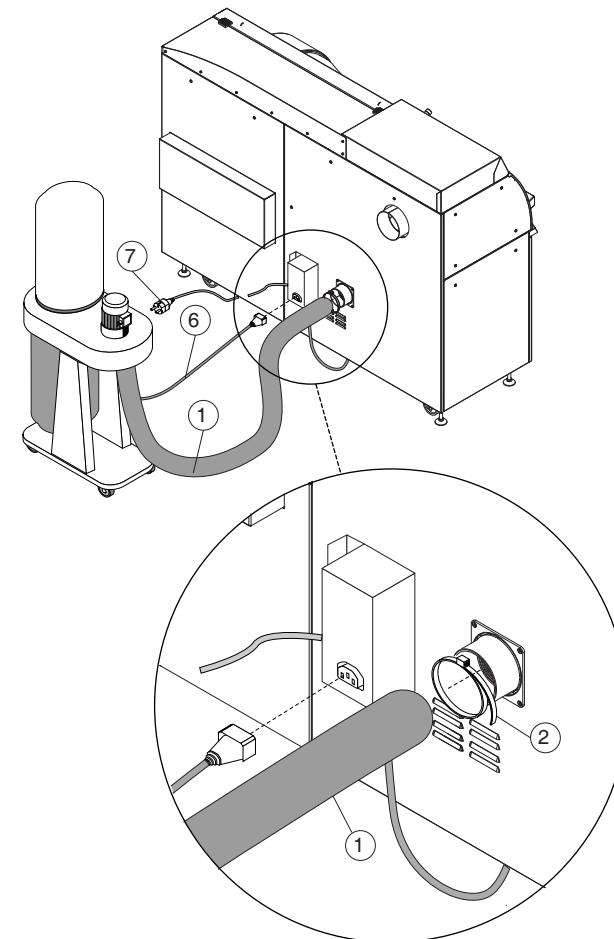
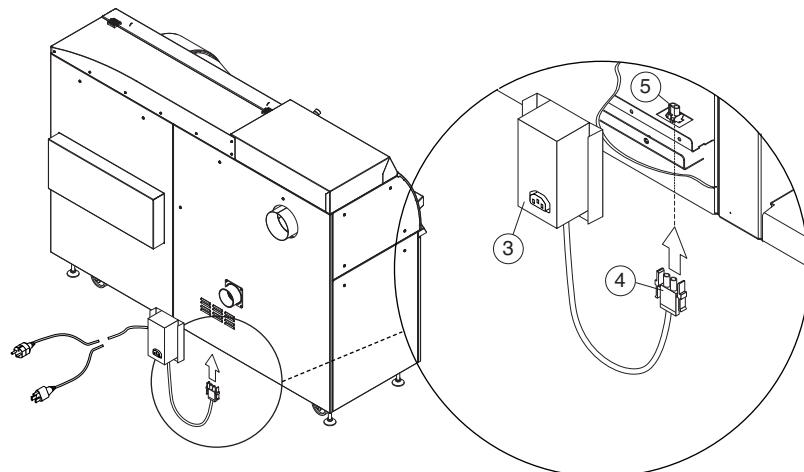


Connection of the motor according to the network voltage single phase: □ ① red
□ ② black
□ ③ yellow
□ ④ white

Warning : for the connection, only use the orange connector



6. Connect the dust exhaust pipe (1) to the sleeve using a fixing ring (2).
7. Put the magnetic power box (3) on the binder.
8. Plug the MNL connector (4) of the power box to the connector (5) located under the machine.
9. Plug the power cable (6) of the dust collector to the power box.
10. Connect the box power (7) cord to the mains.

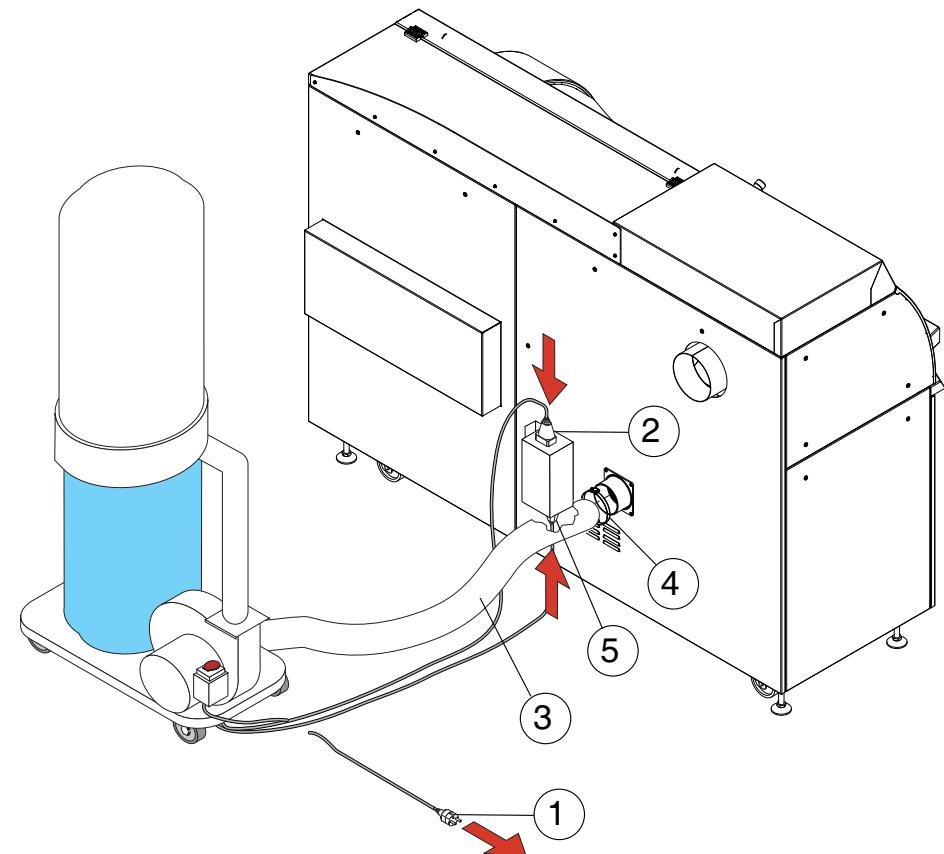


B With Tag 37

1. Unpack the dust collector.
2. Refer to the enclosed instructions to assemble the dust collector

On the rear of the machine

- Connect the dust exhaust pipe (3) directly to the machine using the fixing ring (4).
- Connect the both cable (5) and (2).
- Connect the power cord (1) to the mains.



5. CONNECTING THE POWER

5.1 Introduction

The BB3002 is a permanently connected and field wiring machine. It must be connected to the mains with harmonized cable outer diameter from 9mm to 16mm with a minimum cross section area of conductors of 2,5mm² (maximum 4mm²) or 12AWG.

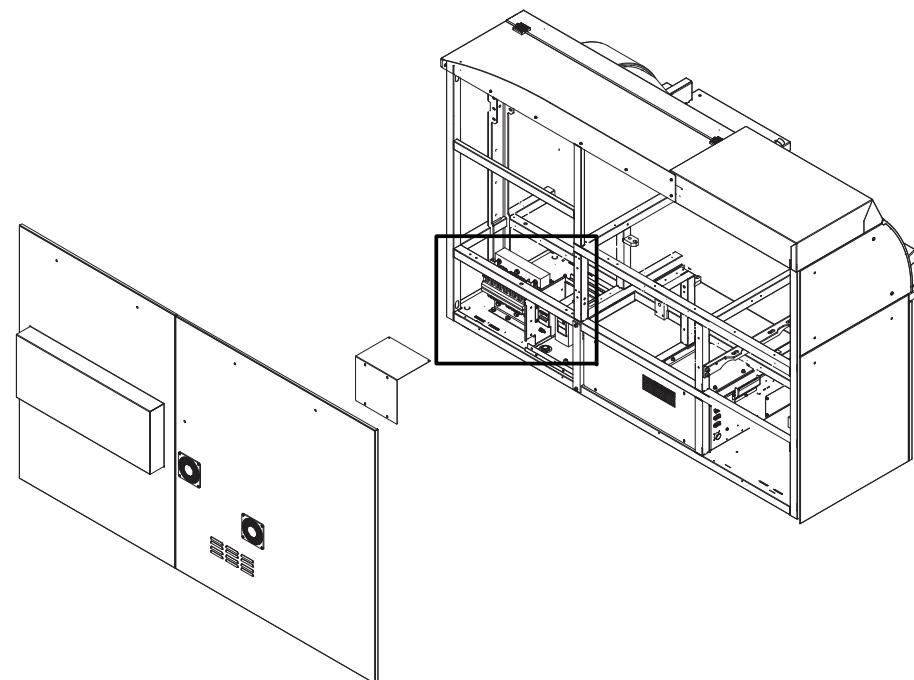
The Power cord must have 3 phases and earth (yellow/green) wire.

The cable is not supplied with the binder.

The binder is designed to be connected to the following power network:

- 208/220 V, 60Hz
3 phases delta, 12A
- 220/230 or 240V, 50 Hz,
3 phases delta 12A
- 380/400 or 415V, 50Hz
3 phases star, no neutral
needed, 12A

Attention: • The network line to the binder must be protected by a 20A breaker.
• No neutral is needed.



5.2 Power Network Voltage

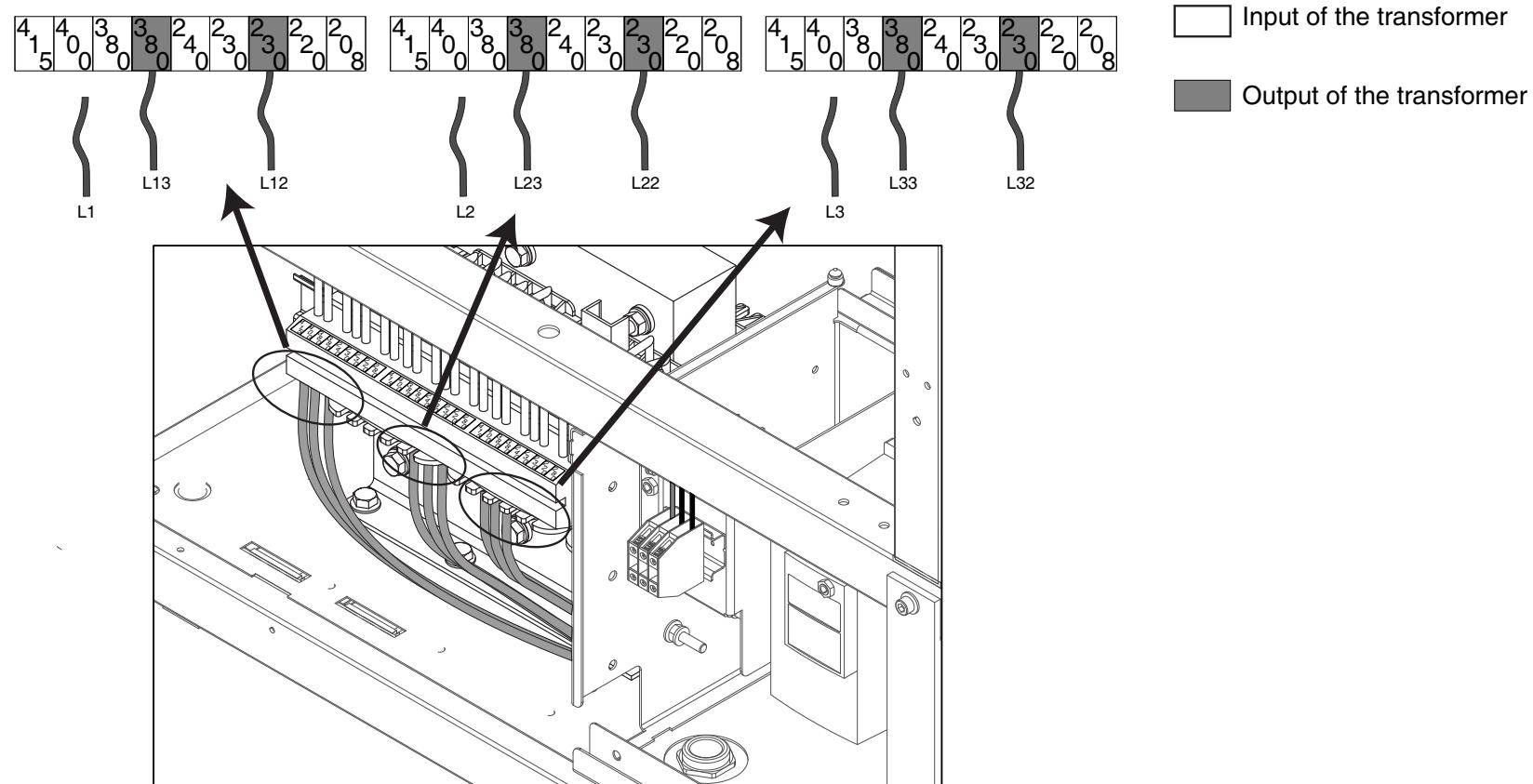
Prerequisites :

Remove the left rear panel and the electrical box cover (see drawing on previous page).

Use a voltmeter to verify the supply voltage.

Procedure :

- Connect the wires L1, L2, L3 on the transformer to the corresponding voltage tap.
For example : if the network voltage between 2 phases is 380V, connect L1, L2, L3 on 380V.
- Check that the wires L12, L22, L32 are connected on 230V.
- Check that the wires L13, L23, L33 are connected on 380V.



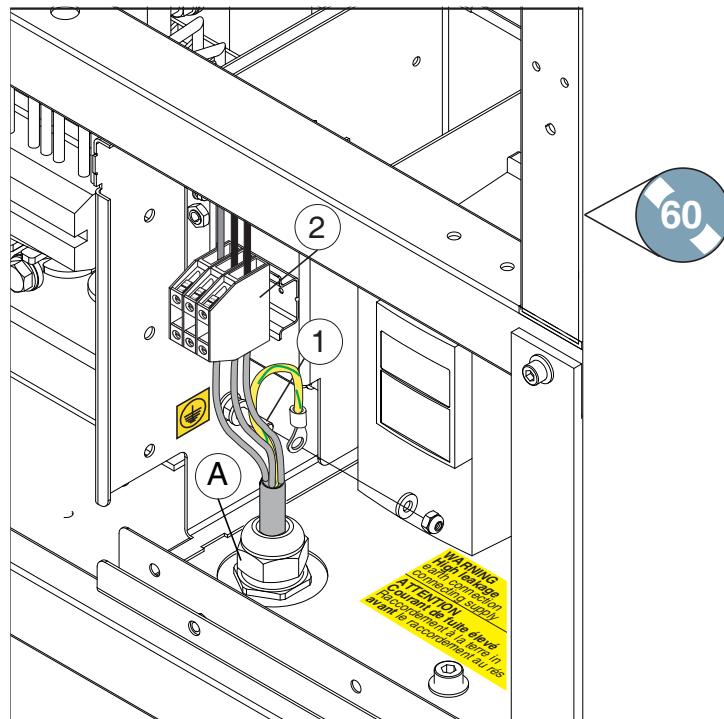
5.3 Installing the power cord

**Warning: Do not plug the power cord in the wall outlet.
Wires of maximum 4 mm² cross sectional area
can be connected in the WAGO connector (2).**

- Remove the insulation on the end of all the wires of the power cord as required.
- Fit a terminator lug (1) on the ground wire (green / yellow).
- Insert the cable in the hole as shown on Fig.1.
- First, connect the ground wire on screw (1).
- Then, connect the 3 wires of the network in the wago connector (2).

There is no neutral wire.

- Tighten nut A (under the machine).

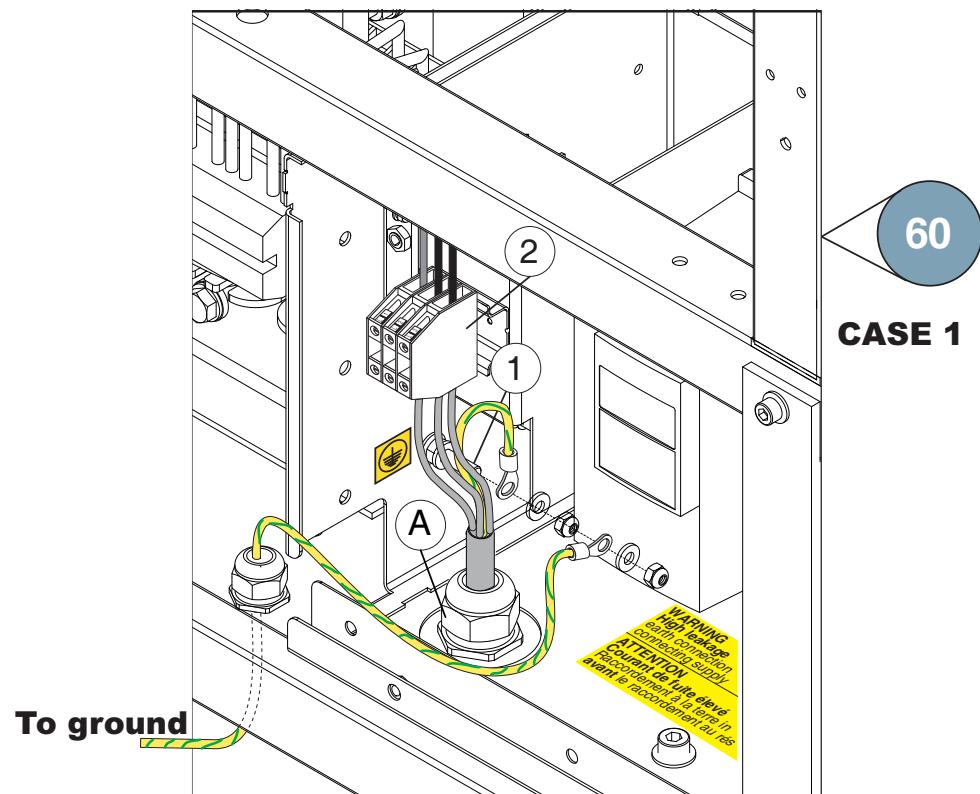


See next page for machines with TAG 60.

To comply with European machinery directive requirements.
All machines with TAG 60 must be connected as follows:

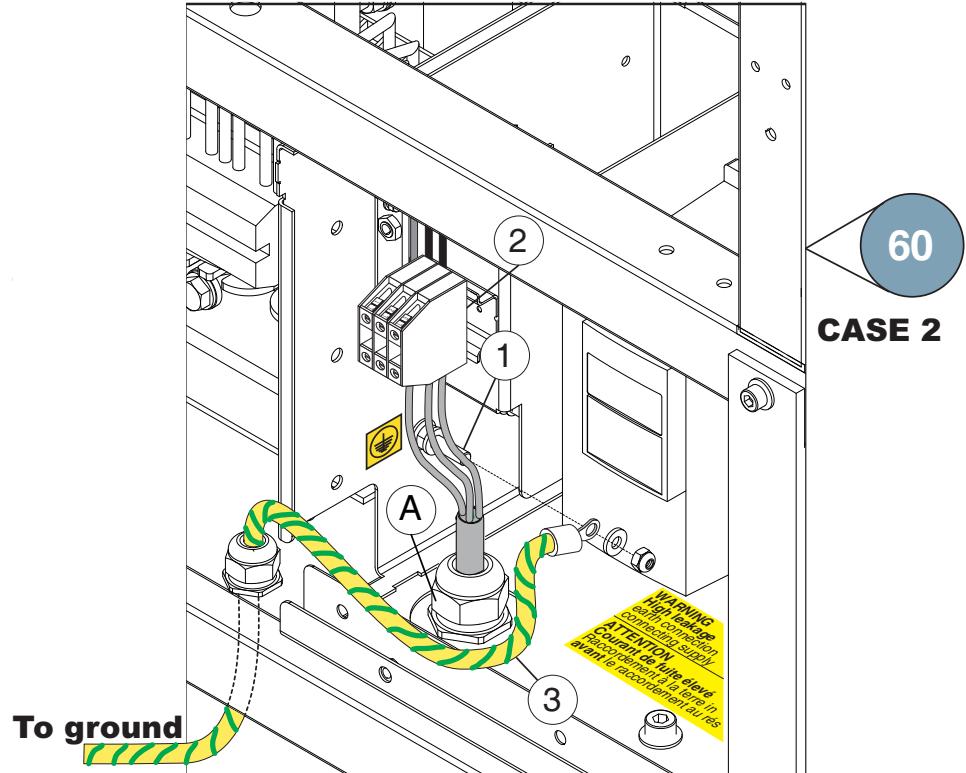
Case 1:

- If machine is equipped with 3 phase + ground cable, a second identical (same cross sectional area) ground wire must be connected to M6 screw (1). Minimum cross sectional area of 2.5 mm² for a power cable of 4 X 2.5 mm² and maximum cross sectional area of 4 mm² for a power cable of 4 X 4 mm².



Case 2:

- If the power cable does not include ground wire (not recommended), only one 10 mm² ground wire must be connected to M6 screw (1).

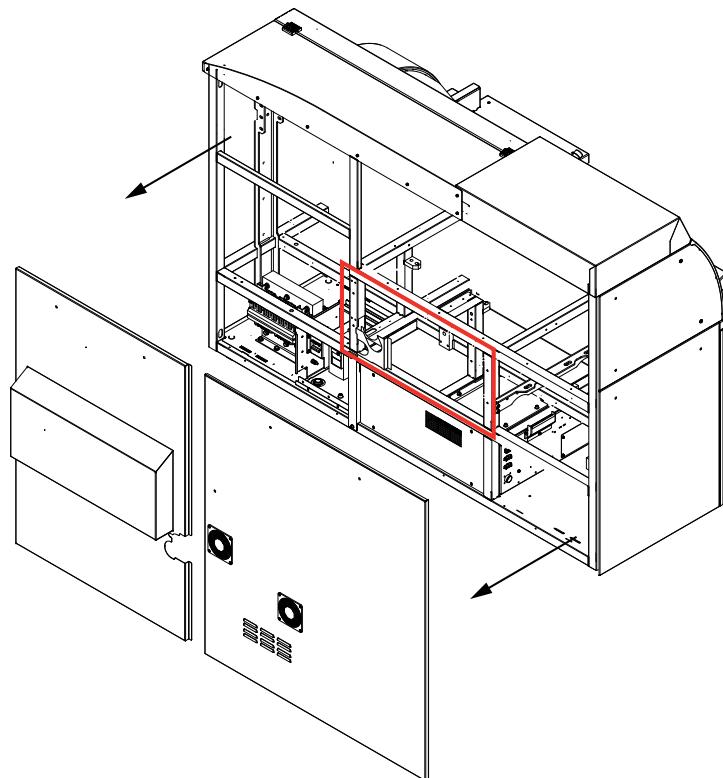


5.4 System power up

- Connect the power cord to the wall outlet.
- Turn the main switch to the ON 1 position.
- The BB3002 is starting up.
- After a few seconds, if the following message appears on the U.I.: 42050 “Milling motor direction test failed” :
 - Switch the binder OFF.
 - Disconnect the power cord from the wall outlet.
 - Invert the position of 2 wires on the connector (2) rack.
 - Connect the power cord to the wall outlet.
 - Switch the binder ON.
- When the installation is complete reinstall the covers.

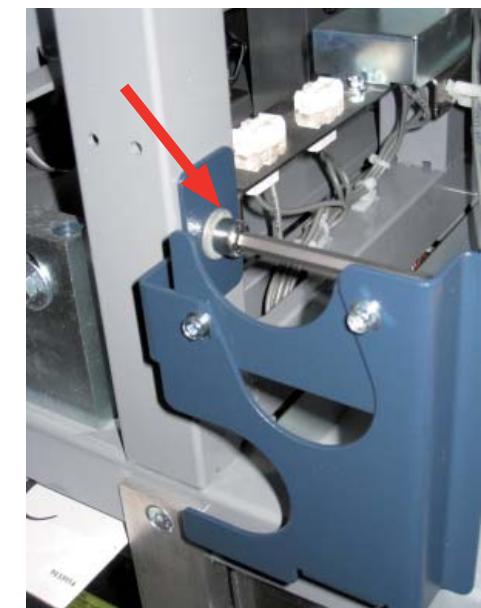
6. CONNECTING THE PUR SYSTEM ON BB3002

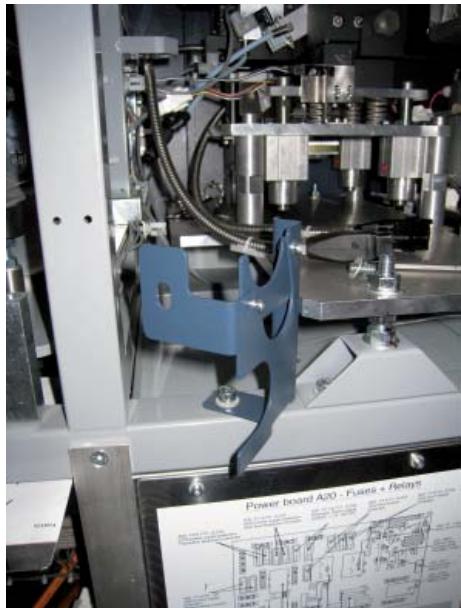
Remove both rear covers and locate the area (in red color) to connect the PUR system.



Locate the bracket to connect the hose and the electrical cable from the PUR.

Remove the screw fastening the bracket on the frame.





Rotate the bracket.

Remove the nut.

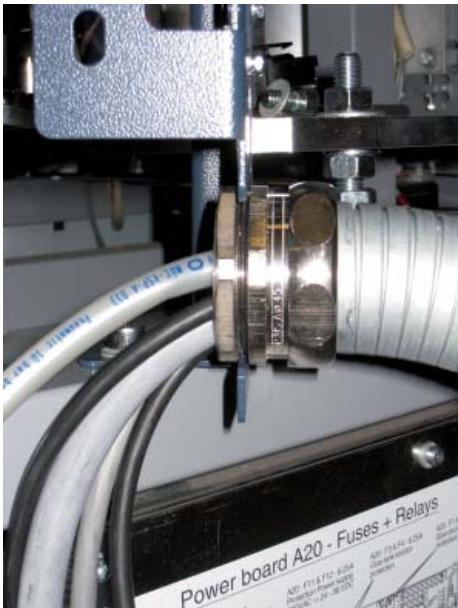


Take the electrical cable assembly from the VersaPail.



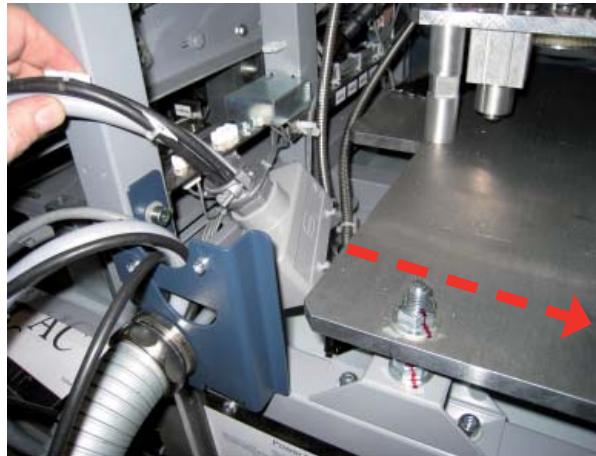
Install the electrical cable as shown on the picture.



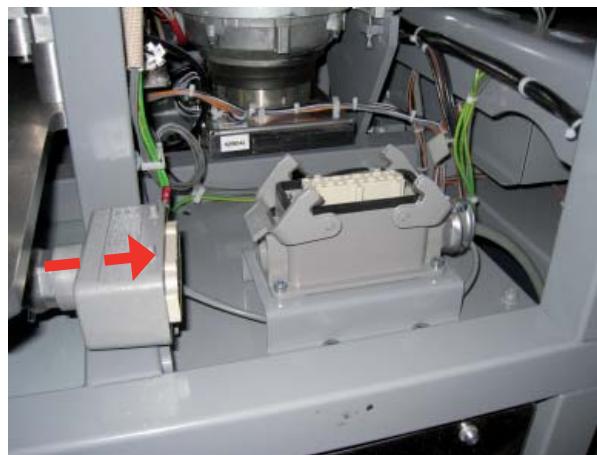
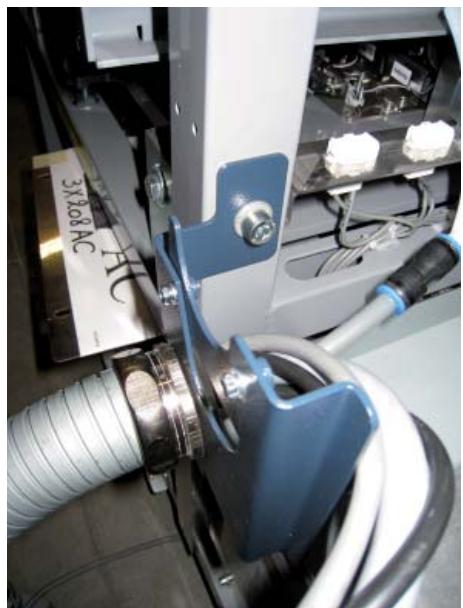


Tighten the nut to fix the assembly on the bracket.

Install the cable with the connector under the gun bracket.
(See pictures)



Re install the bracket on the frame.



Plug the connector.
Secure properly the connector.



Locate the air connector under the gun and connect the air tube from the electrical cable assembly



Connect the electrical connector from the VersaPail to the "A" connector from the gun assembly.



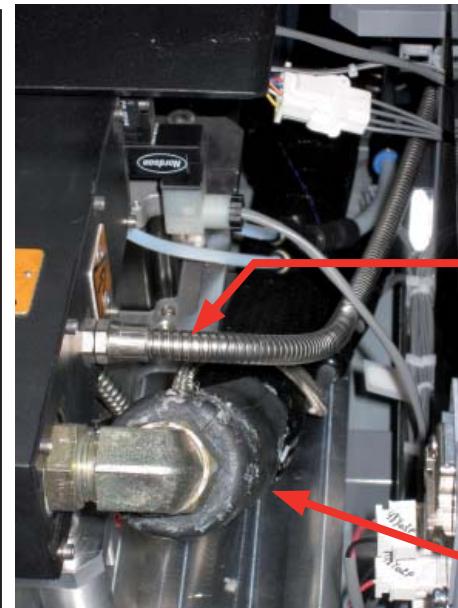
Remove the screw from the small plate used to fasten the glue heating hose.



Take the glue heating hose from the VersaPail.



Tighten properly hose on the gun assembly.



Connect the electrical connector from the VersaPail (attached to the hose) to the "B" connector from the gun assembly.

Gun connector "B"

Glue heating hose



Adjust the hose position and fix the fastening plate.



Re install both rear covers.

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