33 Docu-Punch_® Automatic Punching Machine

Operating Manual



Issue: 3.1 230v 0081 onwards

November 2001

To: Installation Agent

After installing this machine, always leave this manual on the machine.

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Patent Pending

JBI James Burn Int.

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P33/OM/1 © JBI 2001

P33/OM/1 © JBI 2001

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Warranty

EC Declaration of Conformity

Registration Card

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Thank you for buying a P33 Docu-Punch® Automatic Punching Machine from James Burn International SA. This instruction manual has been prepared to help you get the most from your new machine.



NOTICE



Read this manual thoroughly before installing your P33 Docu-Punch® Machine.

It is essential that you read all the instructions to ensure a safe and correct manner for operating the machine. Misuse of the machine could be extremely dangerous and lead to injury.

This manual contains recommendations and instructions for installing, adjusting, operating and maintaining your punching machine.

Failure to read this manual could result in personal injury or damage to your equipment, for which we accept no liability.

This manual is a necessary and permanent part of your punching machine and must be kept with the machine.

Note:

This manual gives you general guidelines for installing and operating your punching machine. It does not cover every question you may have or every situation that can occur, in which case you should contact your agent or one of the JBI offices listed overleaf.

Also in an ongoing effort to improve the quality and performance of this punching machine, James Burn International S.A. reserves the right to carry out changes to the machine.

If you have any questions about your Punching Machine or this manual, please contact your local James Burn International agent or one of the following JBI offices:

James Burn Europe BV
 Postbox 889
 7321 BC Apeldoorn
 The Netherlands

Tel: +31 (55) 539 4822 Fax: +31 (55) 539 4829

2. James Burn International Douglas Road Esher Surrey KT10 8BD England

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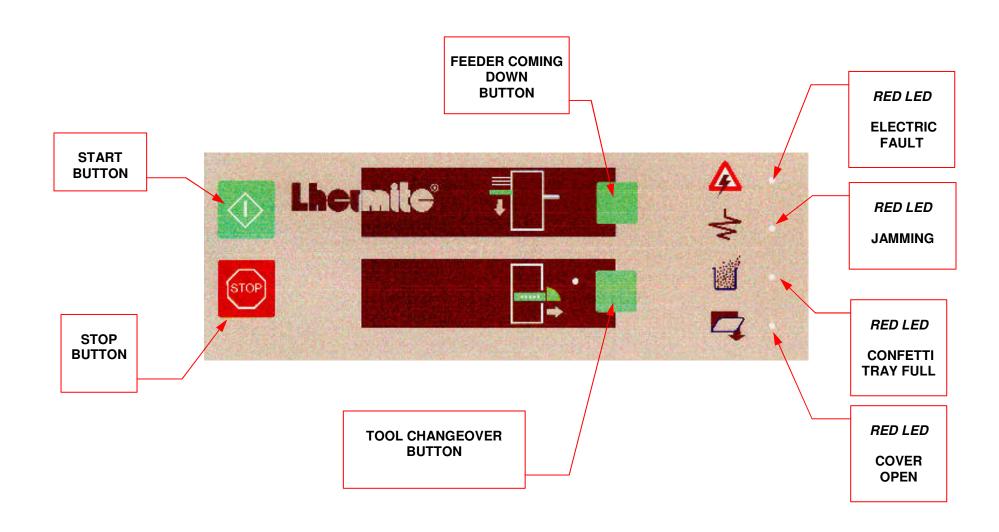
> Tel: (914)-454-8200 Fax: (914)-454-8208

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7. James Burn Singapore Pte Ltd 23 Tagore # 04-08 Tagore 23 Warehouse Singapore 787601

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Email: jbispore@singnet.com.sg



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1. Using your Punching Machine Safely

Learn to recognise safety information and understand the following symbols which appear on your machine.



CAUTION

If dropped this part could cause personal injury.



WARNING

Keep fingers away from the pick-up beak to avoid personal injury.

SOUND LEVEL MEASURING AREA

(Higher noise level)

Noise testing is done with a sonometer TESTO 815 which has to be in compliance with the following standard: 651 CEI class 3 Resolution: 0.1 db

Maximum level of noise during operation: 73 db(A) Measurements have been carried out 1 metre from the source of noise.



WARNING: Keep fingers away from the pick-up beak to avoid any personal injury



WARNING LABEL
If dropper this part could cause personal injury

WARNING
Disconnect the mains supply
before removing this cover

Additional Safety Information:



Emergency Stop Button



WARNING

To avoid causing damage it is strictly forbidden to lift the Reception Unit.



WEAR SAFE CLOTHING

Secure all loose clothing - such as neckties or scarves whilst operating your punching machine, and keep loose hair tied back.

Safety footwear should always be worn when moving this machine.



KEEP SAFETY LABELS CLEAN AND IN GOOD CONDITION

Do not remove any safety labels from your punching machine. Keep all labels clean and legible. Replace any missing or damaged labels.



BE PREPARED FOR EMERGENCIES

Be prepared for fires, injuries or other emergencies. Keep a first aid kit and a fire extinguisher handy. Keep emergency numbers of doctors, ambulance services, hospitals and the fire department handy. Aquaint yourself with the company fire procedure.



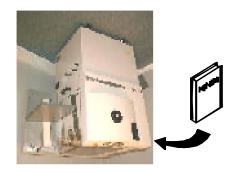
A NOTE TO ALL EMPLOYERS

Know your responsibilities as an employer.

Make sure your employees know how to operate the punching machine safely and ensure they read this manual.

Make sure your employees are aware of the safety warnings displayed on the punching machine and illustrated in this manual.

Make sure the punching machine is in proper working condition. Unauthorised modifications may impair the function and safety of the punching machine.



KEEP THIS MANUAL WITH THE MACHINE

This manual is an important part of your machine. Always keep this manual where it belongs - with the machine.



IF YOU NEED THIS MANUAL IN ANY OTHER LANGUAGE

If you need this manual in a language other than English, contact James Burn International.

1. Using your Punching Machine Safely

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2.1 Unpacking the Machine

The machine is wrapped in a waterproof and shockproof pressurized cover and packed in a wooden case.

- 2.1.1 To unpack the machine:
 - Unbolt the top cover of the wooden case
 - Remove the four vertical sides of the wooden case
 - Cut off the protective cover
 - Unscrew the four nuts which hold the machine on the filler blocks of the floor with a flat key no. 17 or with a ratchet handle. There are two screws on the side of the Control Panel and two on the opposite side.
 - Remove the filler blocks which are fixed under the machine.
 - THE MACHINE IS NOW IN POSITION ON ITS WHEELS
- 2.1.2 Remove the four steel angle brackets.
- 2.1.3 Unscrew both triangular wooden stop blocks and position them in front of the machine.
- 2.1.4 Place one of the sides of the case on the stop blocks creating an unloading platform.
- 2.1.5 Let down the machine slowly (without any violent or sudden movement) and move the machine on the inclined discharge ramp.
- 2.1.6 Position the machine, allowing the necessary floor area required (see section 2.2).
- 2.1.7 Connect mains electricity supply (from 220 to 240V) to the machine and switch ON the machine.



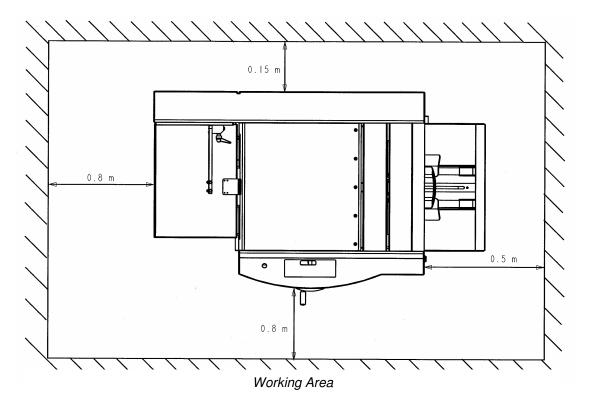
WARNING

Connect the machine to an earthed plug.

2.2 Installation of your Punching Machine

- 2.2.1 The P33 Docu-Punch® is an 'Office Product' machine. It has to be installed so that you can remove the Confetti Tray and the Tool easily (from the operator side).
- 2.2.2 The approximate floor area required for the punching machine is 1 m². Also allow an additional 0.50 meter in front of the Reception Unit and for the opening of the right hand door where the tools are stored.

Allow a further 0.15m (minimum) on both sides opposite to the operator side (control panel and reception). See below for Working Area.



NOTE: You must ensure that a single phase power supply with earth (16A) is available near the machine.

2.3 Transportation

To move the machine easier it is equipped with four wheels (see pictures below).





The nett weight is 220kg (485lb).



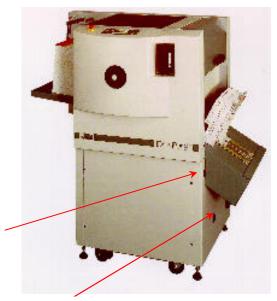
Move the machine on a stable floor, without any violent or suddent movement.

2. Unpacking and Installation of your Punching Machine

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3.1 Switching on the Machine

Press the O/I switch to I (see figure 1).



On/Off (O/I) Switch

Power Supply: 220/240V

Figure 1

3.2 Punching Style

Check that the required style of punching matches the tool that is fitted in the machine (figure 2). If the tool needs changing see section 3.10 "Tool Change".



Figure 2

3.3 Setting the Paper Size

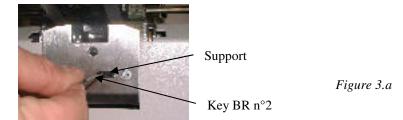
Adjust the format horizontally on the feeder between the two paper guides and adjust these guides with the handwheel (see figure 3).



Figure 3

To Select the separator mode

In starting position (beak in back position), take a BTR key n°2. Unscrew the support and move it to the right to select the separator or to the left to use only the beak. Re-tighten the support at the end of operation (see figure 3.a).



3.5 To Start Punching

To start punching press the green Start button (figure 4) on the Keyboard.



Figure 4

3.6 **Settings after Start**

3.6.1 Keep on pressing the Start button for 2 seconds after the beginning of the first two cycles

Note: Wait until the end of the feeder coming up.

- 3.6.2 The machine changes on adjust mode in slow speed.
- 3.6.3 The next stroke will stop in Lay Gauge position under the Tool.
- 3.6.4 Release the indexable handle (figures 5 and 6) to manually adjust the foot stop (figures 5 and 7) in support on the back of the paper.

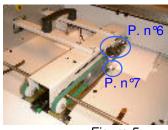


Figure 5

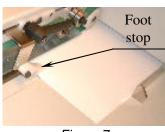
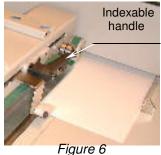


Figure 7



3.6.5 Adjust the lateral

edges

by

using

the

handwheel (figure 3).

To exit the Settings Mode, keep on pressing the Start button for 2 seconds. The stroke goes inside the Reception Unit.

Note: The holes will be at the bottom of the sheets. You should make one trial punching and check the centralisation of the punched holes before beginning a continuous run. If the centralisation is not correct see section 3.9.

For Adjust Mode put only one stoke on the Feeder (to avoid the driving of the next stroke).

3.7 To Stop Punching

To stop the punching press the red button on the Keyboard (see figure 8)



Figure 8

3.8 **Stopping the Machine in an Emergency**

To stop the machine cycle in an emergency push the red button on the left of the Keyboard (see figure 9).



Figure 9

3.9 **Recovering the Punched Sheets**

Press down on the following symbol (figure 10) on the Keyboard to lower the Feeder Tray.



Figure 10

3.10 Tool Change

3.10.1 First remove sheets from the Feeding Table and check that there are no sheets of paper left in the machine.

3.10.2 Press the button on the Keyboard beside the symbol shown in figure 11 The mechanism will be automatically set to enable you to remove the Tool.

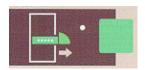


Figure 11

- 3.10.3 Open the right hand Cover with the handle and free the Tool by pulling the pawl located on the left side inside the machine when removing the Tool with the handle.
- 3.10.4 Place the Tool inside the Tool Storage Space located in the bottom area of the machine.
- 3.10.5 Select a new Tool and position this inside the machine.
- 3.10.6 Lock the Tool with the pawl.
- 3.10.7 Check the reference pointer is well locked and close the Cover.



CAUTION

Strictly adhere to this procedure for Tool change at all times. Failure to follow this procedure can result in substantial damage to the tool and even the machine.

3.11 Centralisation of Punched Holes

The Tool is equipped with two lock points:

First Point (figure 12)

Number of even holes for 3:1" and 2:1" tools Number of odd holes for GBC tool



Figure 12

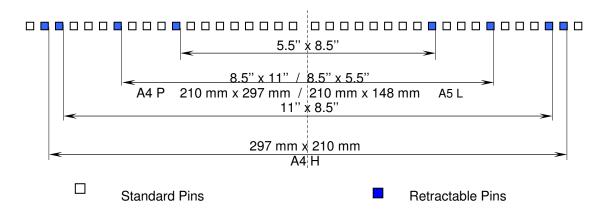
Second Point (figure 13)

Number of odd holes for 3:1" and 2:1" tools Number of even holes for GBC tool



Figure 13

Note: The tool is equipped with retractable pins for the standard paper sizes, for example:

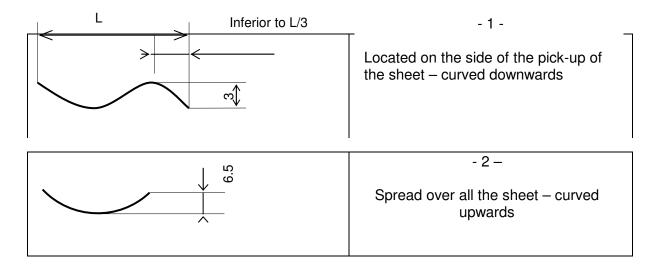


3.12 Paper Jam

- 3.12.1 If the paper bite is jammed into the carriage mechanism:
 - open the upper cover
 - lift the top belts by using the handle
 - remove the bite manually
- 3.12.2 If the paper bite is jammed into the Tool:
 - press the red Stop button (figure 8) on the Keyboard to disengage the pins from the paper bite (the upper cover must be closed)
 - open the upper cover
 - lift the top belts by using the black handle
 - remove the paper bite manually.

3.13 Using Limits

If your paper jams repeatedly at the outlet check the direction of the warping of the paper located on the Feeder and this, within the using limits. You will find below the different shapes of warping or any kind of out of shape material which our machine can allow: (Measurements in millimetres)



3. Setting Up and Operating your Punching Machine

6.5	- 3 - Spread over all the sheet – curved downwards
Inferior to L/3	- 4 – Located on the side of the pick-up of the sheet – curved upwards
	- 5 — Mixed warping spread over the sheet

Note:

When the paper has just been photocopied it is avisable to let the paper cool down for half an hour before punching it. Always use a paper of good quality if possible.



CAUTION

The storage of the paper (before punching) is of great importance: the paper when cooling down may experience a warping, hence the importance to stack the paper correctly.

4.1 Maintenance

Although only limited maintenance is required, that which is required is imperative to enable continually safe and good machine performance.

Before beginning with any maintenance work, switch OFF and disconnect the electrical supply for personal safety.

4.1.1 Daily Maintenance

Check whether the confetti tray is full - a warning lamp on the Control Panel will indicate when the Confetti Tray is full.

To empty it:

- pull the Confetti Tray towards you
- empty the tray
- re-position it while ensuring that it is fully pushed back in its location.

4.1.2 Weekly Maintenance

- 4.1.2.1 Clean up the machine with a soft cloth.
- 4.1.2.2 Clean the cell reflector located under the tool with a dry lint free cloth:
 - First extract the tool (see section 3.10 Tool Change)
 - Clean the cell reflector located under the rail of the feeder pusher mechanism.

4.1.3 Annual Maintenance

(or after 700,000 strokes - see the counter located inside Electric Box)

Call the After-Sales Department at JBI for a general overhauling.

Note:

If your tool reaches a million strokes or if the perforations do not meet your requirements in terms of quality please contact us to sharpen or make a diagnosis of the condition of the tool.



CAUTION

All maintenance work should be carried out by authorised personnel such as a maintenance or service engineer, or a qualified electrician.

4.2 Troubleshooting

In case of a breakdown, switch off the machine and disconnect the electrical supply.

	FAULT	CAUSE	REMEDY
1	No LED on when machine switched on	a) No supply b) Fuse blown	a) Check power on the mains plug b) Check the plug is connected properly c) Call service engineer
2	The red LED « ELECTRIC FAULT » on. Machine fails to cycle when you press upon any key of the keyboard.	a) The emergency stop button is pushed b) The trap or the upper cover is open (red LED on) c) Absence of tool or tool is not locked correctly (red LED on)	a) Twist to release the emergency stop buttonb) Close the trapc) Re-fit the tool or put the tool in place
3	Machine not starting when you press upon any key of the keyboard an no LED on.	a) No PLC supply b) The card 24 V controlling the actuators is not powered c) No variator supply	a) Call service engineer b) Call service engineer c) Check all driving units and the tool or call the service engineer
4	Red LED « jam » on continuously.	Open the tool trap: a) Check that the paper is not jammed in the tool b) Check that there is no paper left in this area	a) Close the trap again and push on the button « CYCLE STOP » to free the sheet downwards b) Clean up the sensor under the tool and its reflector
5	Red LED « CONFETTI OVERFLOW » on.	a) The confetti tray is full	a) Empty the confetti tray.
		b) The confetti tray is not full	b) Call service engineer

Note: These operations should only be carried out with the machine out after a waiting time (for discharging filters) and only by authorised staff such as a maintenance or service engineer, or a qualified electrician.

For any replacement parts call the After-Sales department.

Warning: Avoid violent movement of any part.

Do not continue operation if the fault persists: contact the After-Sales

Department.

Meet the gauging of fuses strictly.

5. Technical data about your Punching Machine



NOTICE

Your punching machine is constructed to a very high specification. Details are shown in this section. Strictly adhere to these specifications at all times.

5.1 General Data

Model : Docu-Punch® P33

Machine size : 720 x 1250 x 1150mm (28" x 49" x 45")

Packed Dimensions: 1120 x 1560 x 1450mm (44" x 61" x 57")

Nett Weight : 220kg (485lb)

Gross weight : 340kg (750lb)

5.2 Machine Performance

Machine Cycling Speed : 60 strokes per minute

Modes of work : Beak only : for standard work (normal paper)

Beak with separator : difficult work (with card)

Production Speed : Dependent on size and stock of paper being

punched but will be less than the maximum cycle

speed.

Tool Changeover Mode

and Time

Manual mode

About 45 seconds

Format Changeover Mode: Manual mode

and Time

Less than 1 minute

Maximum Thickness for

Punching* : 0.7mm (i.e., about 7 sheets of 80gsm).

Maximum Diameter

of Punched Holes : 8mm

5. Technical data about your Punching Machine

Paper Weight* : from 80 to 250gsm

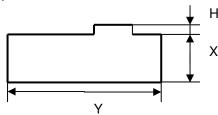
Sheet Sizes* : Minimum: 138 x 138mm

5 | " x 5 | "

Maximum: 330 x 300mm

13" x 12"

Sheets with Tabs :



Only round cornering two sides

Minimum height: 9mm

Sheets between each index card must have the same size as the basis of the tab (X) and the same length (Y) of the guide card or index basis

to be punched.

Acetate Sheets : Only non-static varieties interleaved with

minimum 10 sheets (plain copying paper)

5.3 Electrical Data

Power Supply : 220 – 240 V

Single Phase 50/+60Hz with earth

Power required : 1.2KW

Power Density required : 16A

Noise Level : 73 dB(A)

* Different paper specifications can slightly affect the values quoted.

6.1 Selling or Transferring your Punching Machine

If you sell or transfer your punching machine you must ensure that the machine is in working order, and that the labels and this manual are in a legible condition. Failure to do so could result in you being responsible to whom you sell or transfer your punching machine should it cause personal injury or damage to property

6.2 Disposing of your Punching Machine

If you dispose of your punching machine you must destroy it, as follows, before you throw it away:

- 6.2.1 Remove Punching Tool
- 6.2.2 Remove the Electrical Module Assembly.
- 6.2.3 Remove the Confetti Tray.
- 6.2.4 Cut the Linking Cables.
- 6.2.5 Remove the Frequency Inverter and the PLC of the Electrical Assembly.
- 6.2.6 Throw away the Punching Tool, the Electrical Assembly, the Confetti Tray, the Linking Cables, the Frequency Inverter and the PLC in a separate location to the rest of the machine.

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FOLIO	DESCRIPTION	DATE
01	Circuit de puissance - Power circuit 220-240Vac	08/03/2006
01A	Circuit de puissance - Power circuit 100-120Vac	08/03/2006
02	Circuit carte 24Vcc - Card circuit 24Vdc	08/03/2006
03	Automate - PLC	08/03/2006
04	Circuit de sécurité - Safety circuit	08/03/2006
05	Variateur de fréquence - Frequency inverter	08/03/2006
06	Signalisation - Led control panel	08/03/2006
07	Bornier: XB1	08/03/2006
08	Carte moteur pas à pas - Step Motor card step	08/03/2006
09	Implantation coffre et transformateur	08/03/2006
10	Implantation Platine électrique	08/03/2006
11	Ensembles: - câble sortie A et câble sortie B	08/03/2006
12	Ensembles: - câbles sortie C	08/03/2006
13	Ensembles: - câbles sortie D et câbles sortie E	08/03/2006
14	Ensembles: - câbles sortie F, câble sortie G, câble sortie H, et câble sortie I	08/03/2006

PERFOREUSE P33 DOCUPUNCH JAMES BURN INTERNATIONAL Punching machine P33 DOCUPUNCH M3.1

A partir du N° série : 324

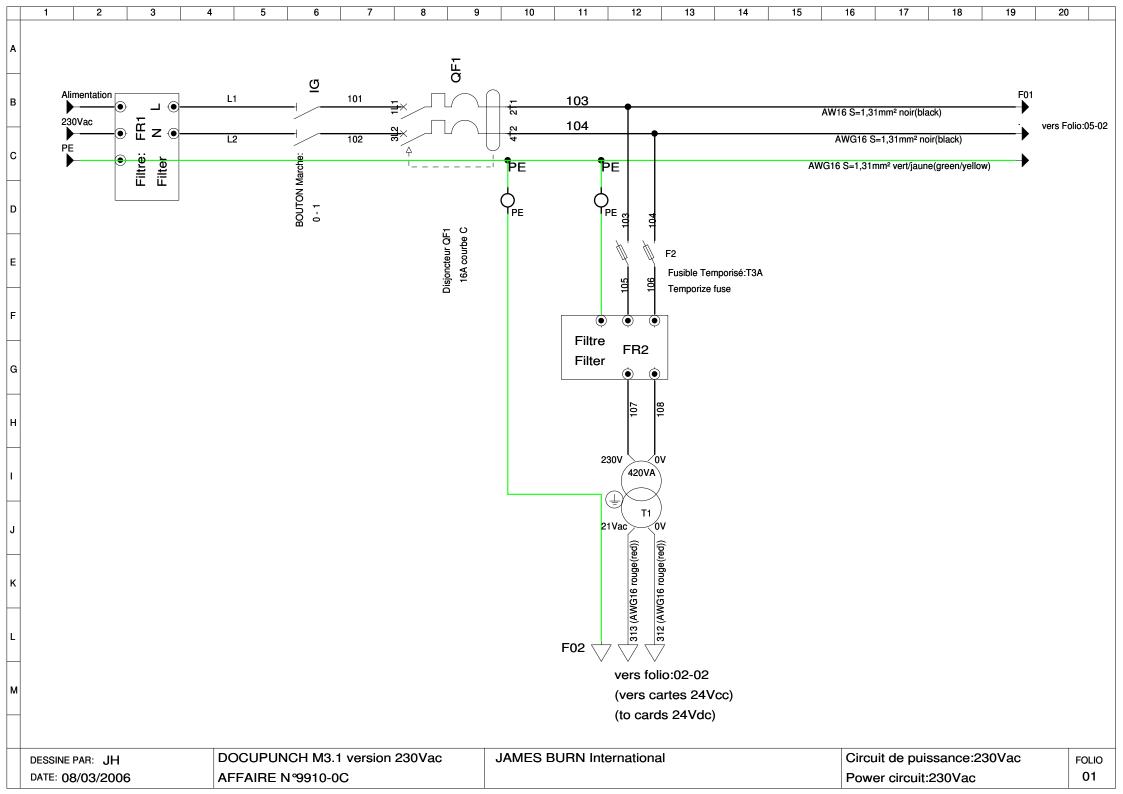
В	Compteur supprime	é	04/06/2003			
Α	Variateur(inverter)	type FRS	23/10/2001			
IND	MODIFICATION		DATE	IND	MODIFICATION	DATE

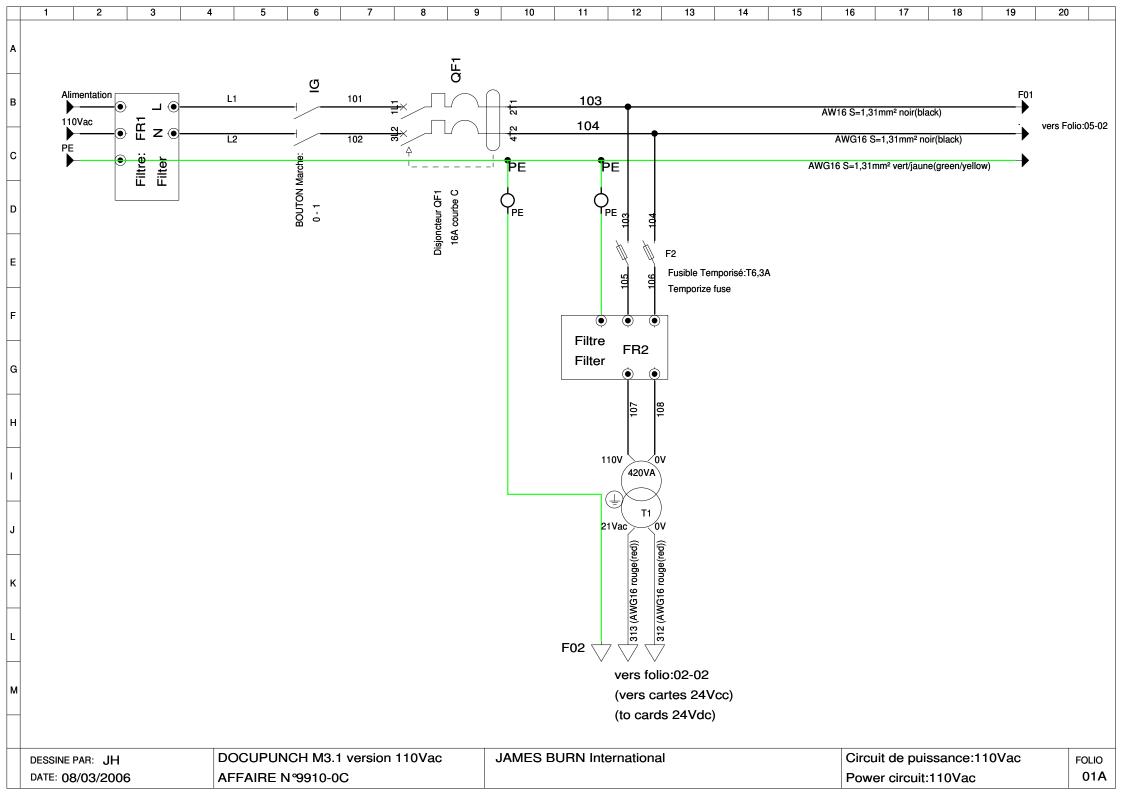
JAMES BURN INTERNATIONAL 67, rue du docteur Blaizot 61304 L'AIGLE cedex

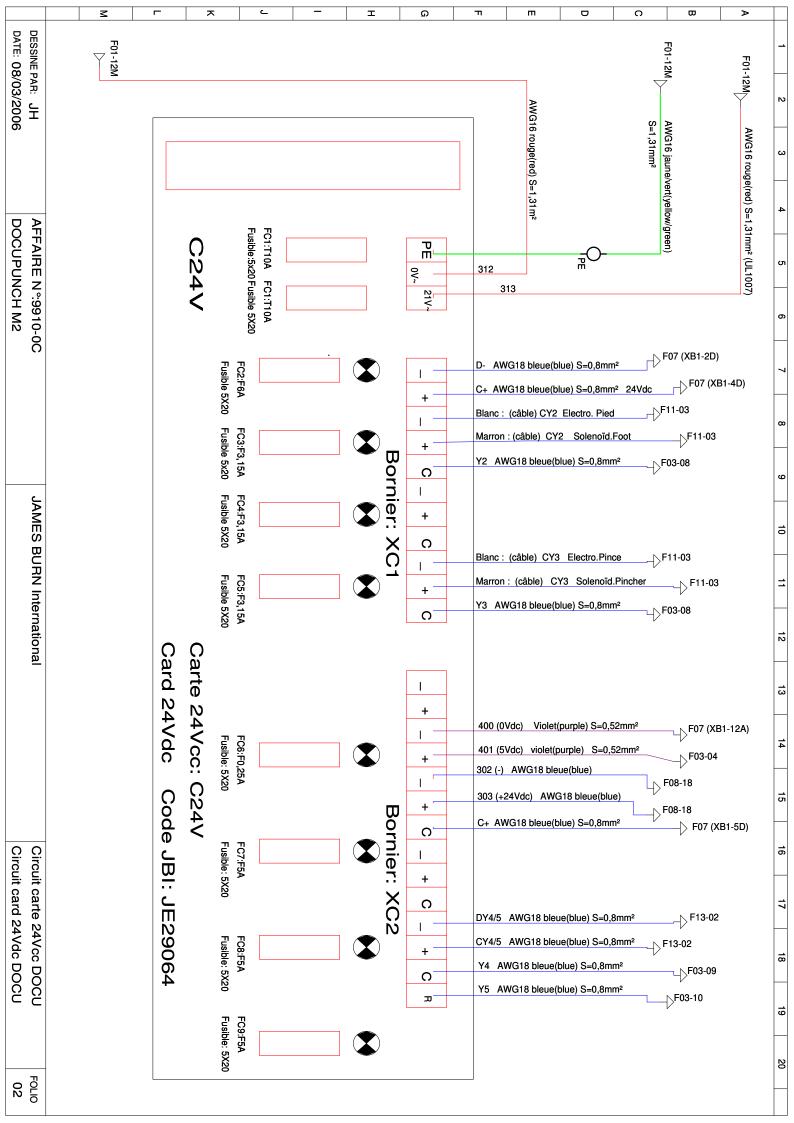
CLIENT

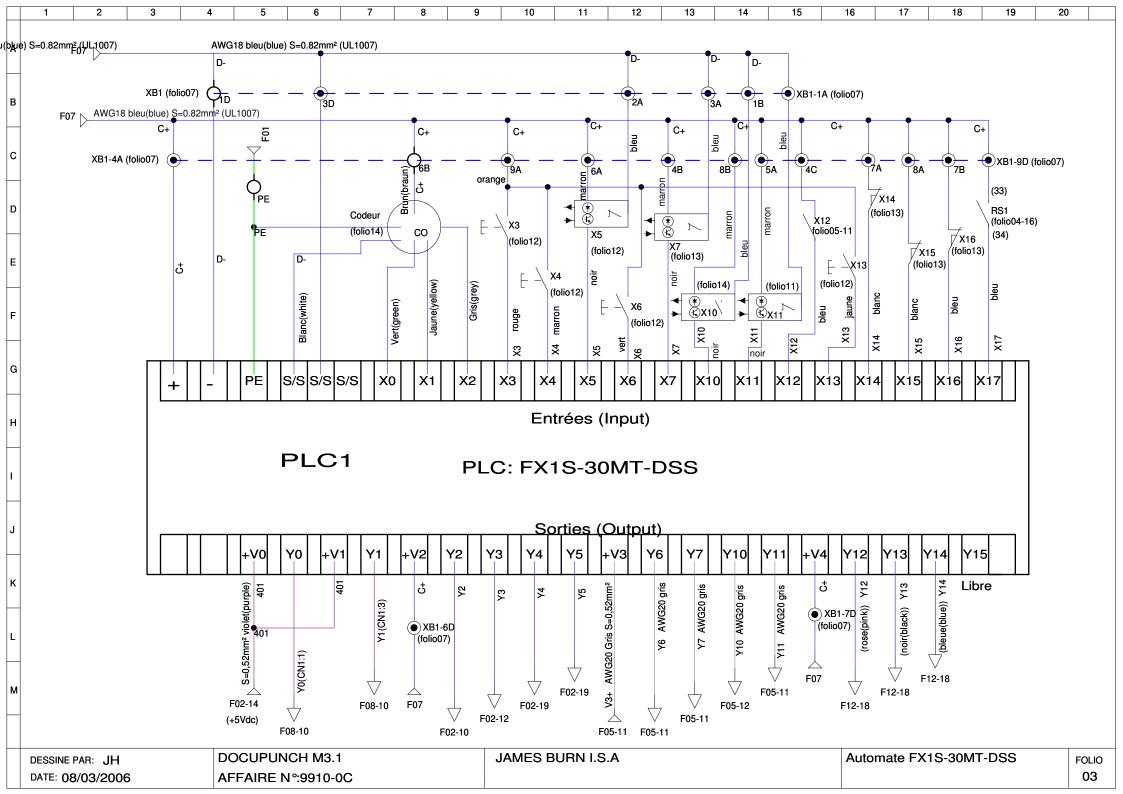
N° AFFAIRE
9910-0C INDICE C N° 1

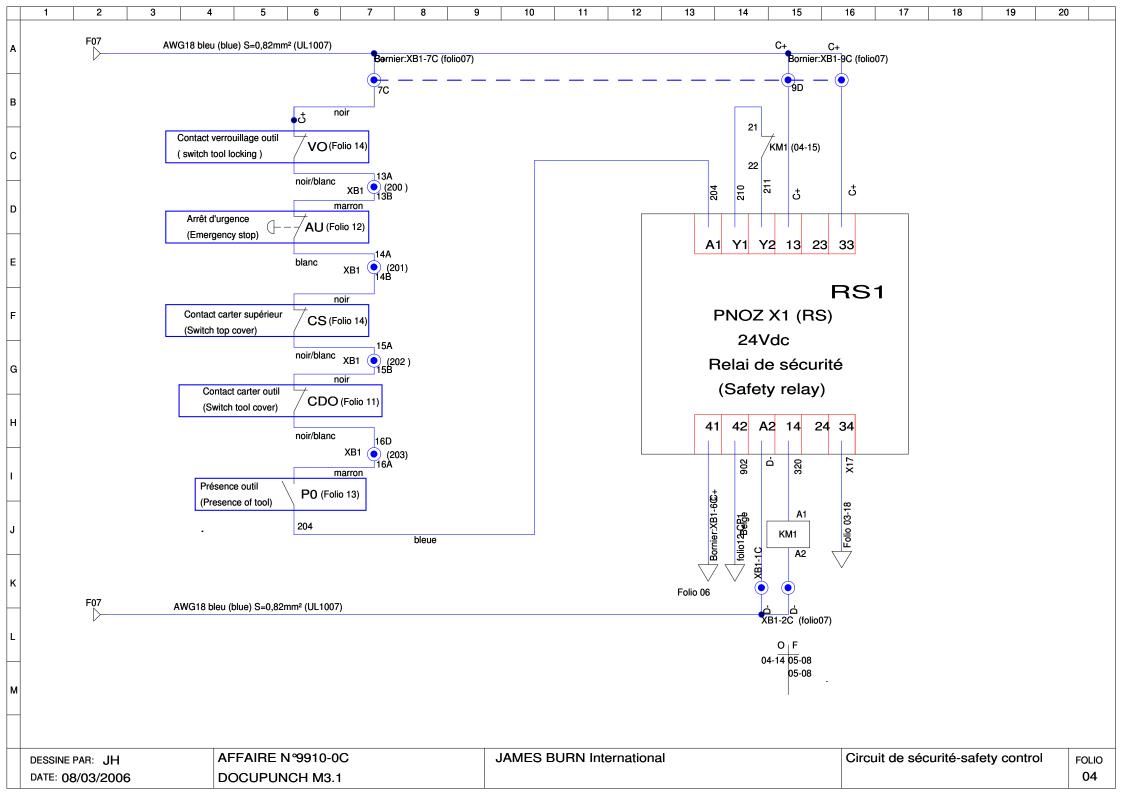
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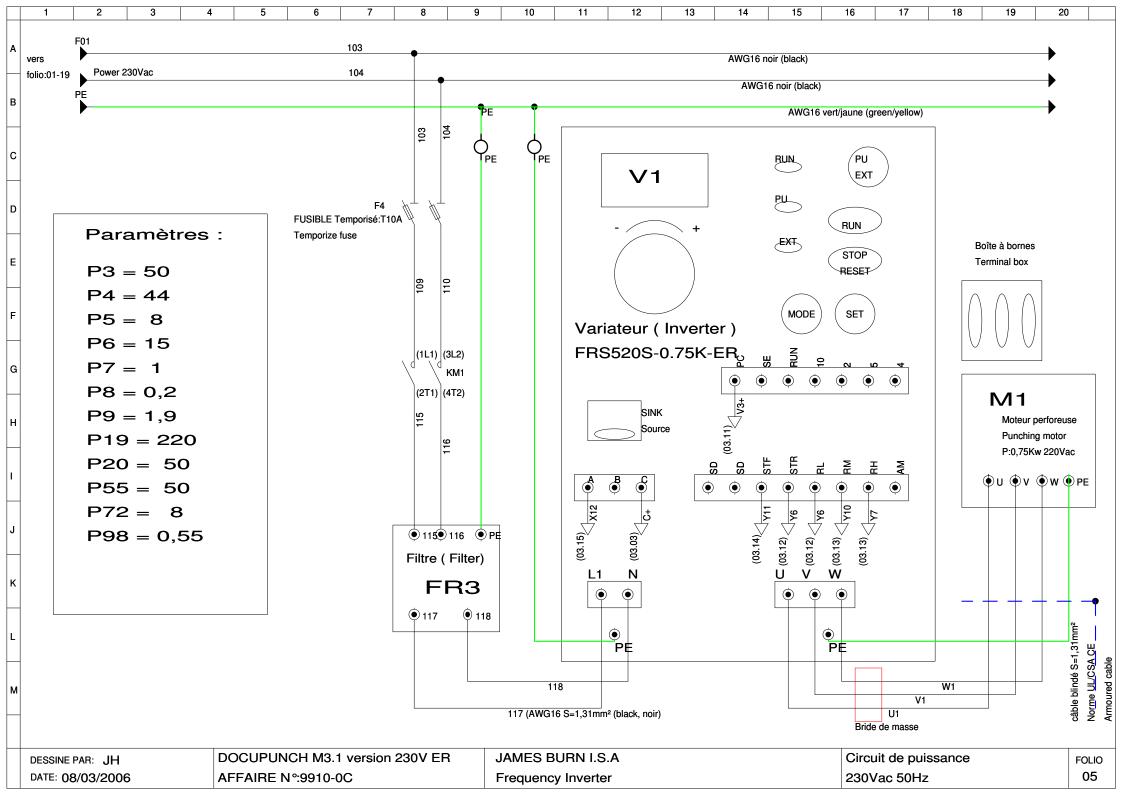


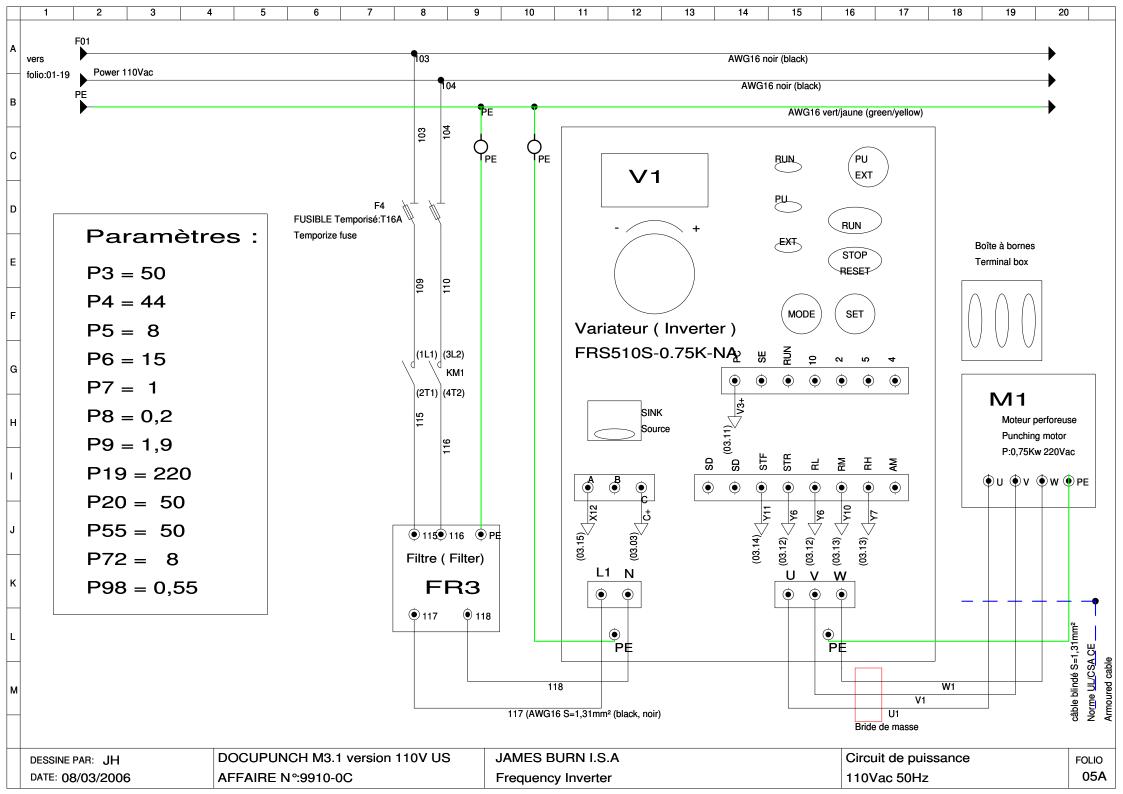


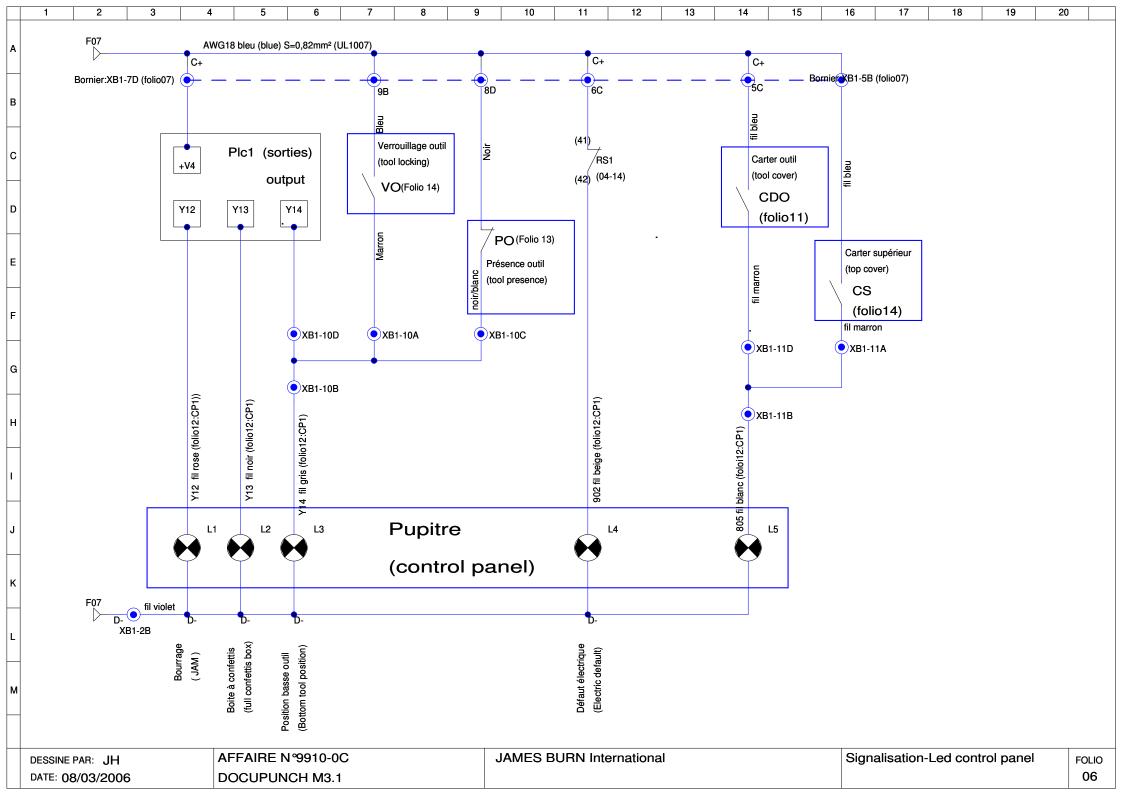


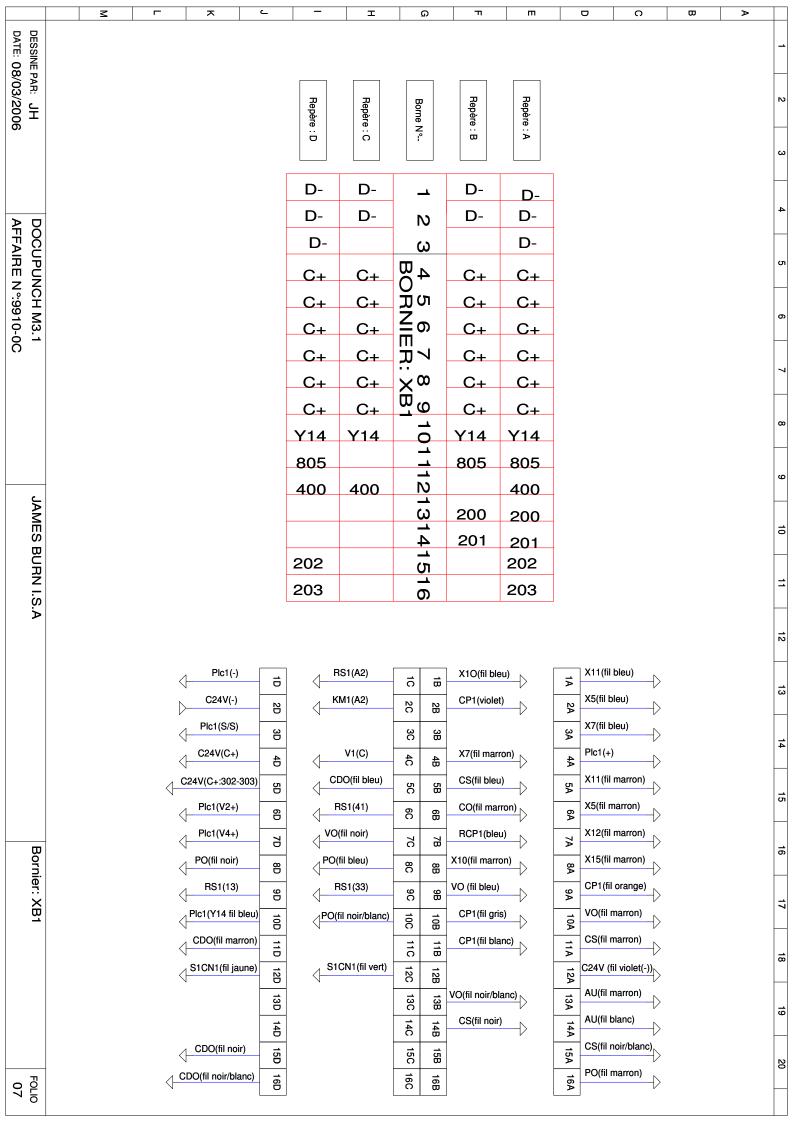


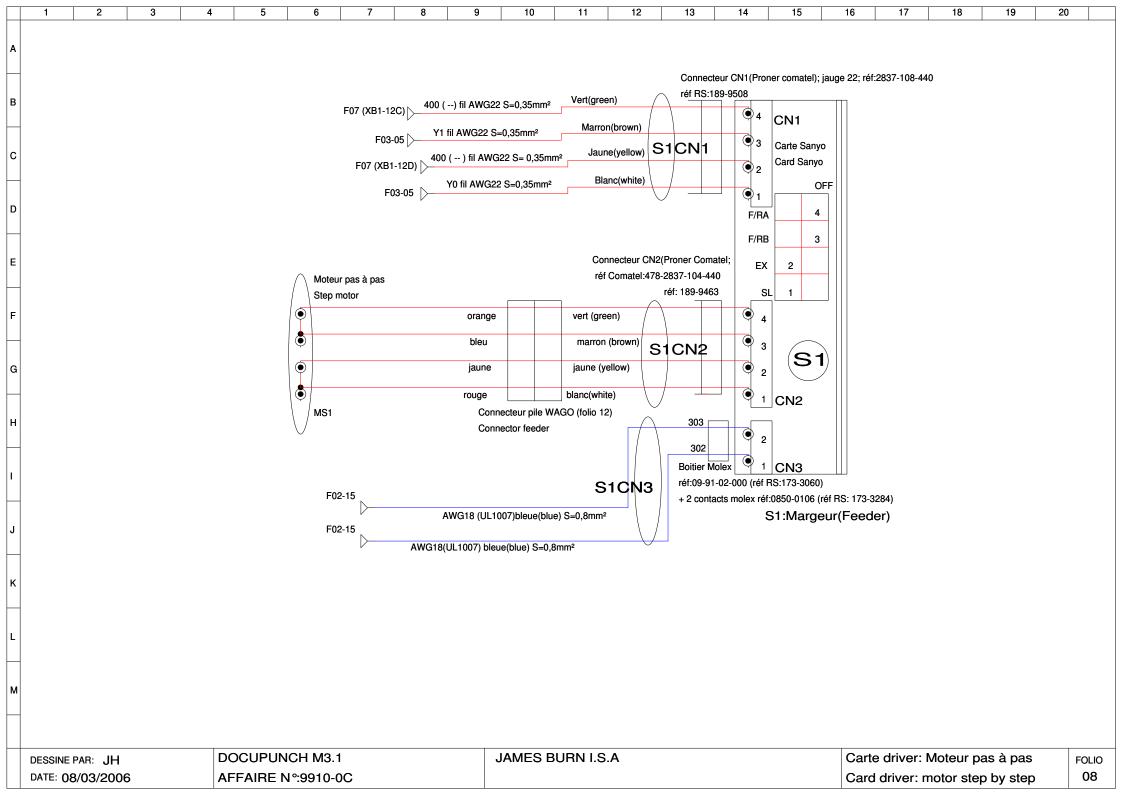












Do Not Detach the Warranty Card

JAMES BURN WARRANTY

This warranty is restricted to the provision of labour (including travel costs) and the replacement of parts and components as defined below, which are found to have been faulty. It expressly excludes claims due to misuse or bad handling by employees of the customer or third parties.

The period of warranty for equipment supplied by James Burn International (JBI) is twelve months for mechanical parts, labour and travel costs or 700,000 cycles (whichever occurs first) and six months for electrical components from the date of delivery to the customer's address.

Consumable parts are excluded from the warranty.

JBI or his distributor reserves the right to request the return of any faulty part or component before a replacement is sent out on free of charge basis. Where this is impractical or the component has not yet been returned, JBI will charge the replacement component and will issue a credit upon receipt of the faulty part.



67, Rue du Docteur Blaizot

B.P. 134

61304 L'AIGLE Cedex

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Fax: +33 (0)2.33.84.21.51

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EC DECLARATION OF CONFORMITY

Name of the Manufacturer or Supplier: JAMES BURN INTERNATIONAL SA

Address Postcode		: :	67 rue du Docteur Blaizot, BP 134 61304 L'Aigle CEDEX, France
Description of Product Name, type or model		:	Automatic Punching Machine DOCU-PUNCH Version III
Serial No.		:	
Standards used, inc	cluding numbe	er, title, issue	date and other relevant documentation:
EN 60204-1 EN 294 EN 50081-1 EN 50082-1	1998 1992 1993 1993	Safety distar Emission of	chinery – electrical equipment of machines nce electronic disturbances electromagnetic disturbances
Place of Issue		:	L'AIGLE (FRANCE)
Name of Authorised Position of Authoris			Guy VATOME Director
supply/manufacture requirements of the	e of this prod ne EC Machi 23/EEC) – Lo	duct complies nery Directiv ow Voltage D	nat the above information in relation to the with all the essential health and safety e (98/37/EEC), EMC Machinery Directive Directive – and as amended and with the ective.
Signature of author	ised represen	tative:	A .
Date:			

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Ref. P33 DOCU-PUNCH

Please retain this top part for your information. Should you, however, require service under the terms of our warranty please return this card with a brief description of the problem on the reverse side and send it to the address below. A charge will be made for repairs carried out after the expiry of the Warranty period.

SERVICE REQUEST CARD P33 DOCU-PUNCH PUNCHING MACHINE

	Date of Purchase:			
	Dealer's Name & Address:			
	Date Registration Card sent to James Burn International:			
	Machine Serial No.:			
×	P33 DOCU-PUNCH			
	PLEASE COMPLETE AND RET	-		
	Company Name:			
	Address:			
-			Tel No.:	
	Type of Business:			
	Type of Business: Dealer's Name & Address:			
			Machine Serial N	No.:
	Dealer's Name & Address:	□ Exhibition	Machine Serial № □ Advertisement	No.: Other User
	Dealer's Name & Address: Date of Purchase: What made you aware of the	□ Exhibition		
	Dealer's Name & Address: Date of Purchase: What made you aware of the Punching Machine?	□ Exhibition	□ Advertisement	

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