2PRINT MINI

INSTRUCTION MANUAL

Z8.809.1000.1 ENGLISH EDITION 01/06/2009

!!! ATTENTION !!!

- **CAREFULLY READ THIS MANUAL PRIOR TO ATTEMPTING TO USE THE MACHINE**
- **ADJUSTMENTS, MAINTENANCE AND REPAIRS TO THE MACHINE MUST BE CARRIED OUT BY QUALIFIED PERSONNEL WORKING WITHIN THE SAFETY NORMS**
- **IT IS ABSOLUTELY FORBIDDEN TO TAMPER OR REMOVE SAFETY DEVICES OR MODIFY ELECTRICALLY OR MECHANICALLY THE MACHINE**
- **PRESS THE "STOP" OR "IDLE PRIOR TO WORKING INSIDE THE MACHINE OR OPENING THE PANELS**
- **DO NOT TOUCH ANY ELECTRICAL DEVICES WITH WET HANDS OR OTHER PARTS OF THE BODY**
- **ALWAYS USE PROTECTIVE GLASSES AND GLOVES WHEN WORKING WITH OR TOUCHING THE UV LAMP OR INKS**
- **DO NOT LOOK DIRECTLY INTO THE RAYS OF THE UV LAMP**
- **IN CASE OF AN EMERGENCY IMMEDIATELY PUSH THE EMERGENCY "RED MUSHROOM"**
- **THE MANUFACTURER CAN NOT BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED TO PERSONS OR MACHINERY DUE TO LACK OF OBSERVATION OF THE SAFETY REGULATIONS IN THE COUNTRY OF INSTALLATION**


I
Leggere attentamente il manuale dell'operatore prima di far funzionare la macchina. Osservare le norme e le istruzioni di sicurezza durante il funzionamento.
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Lire le livret d'entretien et le conseil de sécurité avant la mise en marche et en tenir compte pendant le fonctionnement.
GB
Carefully read Operator's Manual before handling the machine. Observe instructions and safety rules when operating.
D
Vor Inbetriebnahme die Betriebsanleitung und Sicherheitshinweise lesen und beachten.
E
Leer con cuidado el manual de instrucciones antes de la utilización de la máquina. Observar las normas de seguridad mientras la máquina está funcionando.


CAUTION
Do not open while machinery is in motion.
Brimar 800-274-6271 / E2151-AA

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1. LAYOUT

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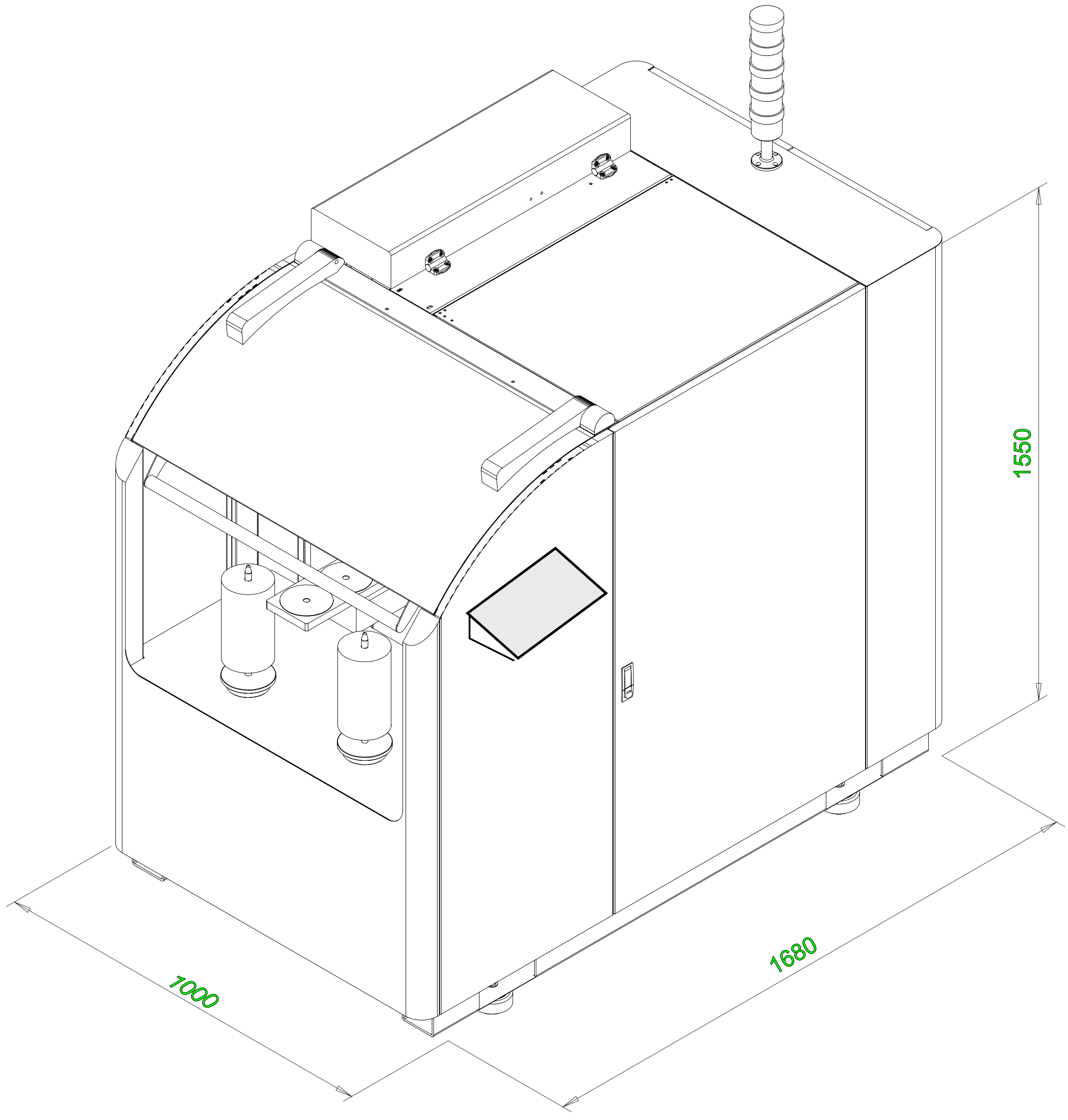
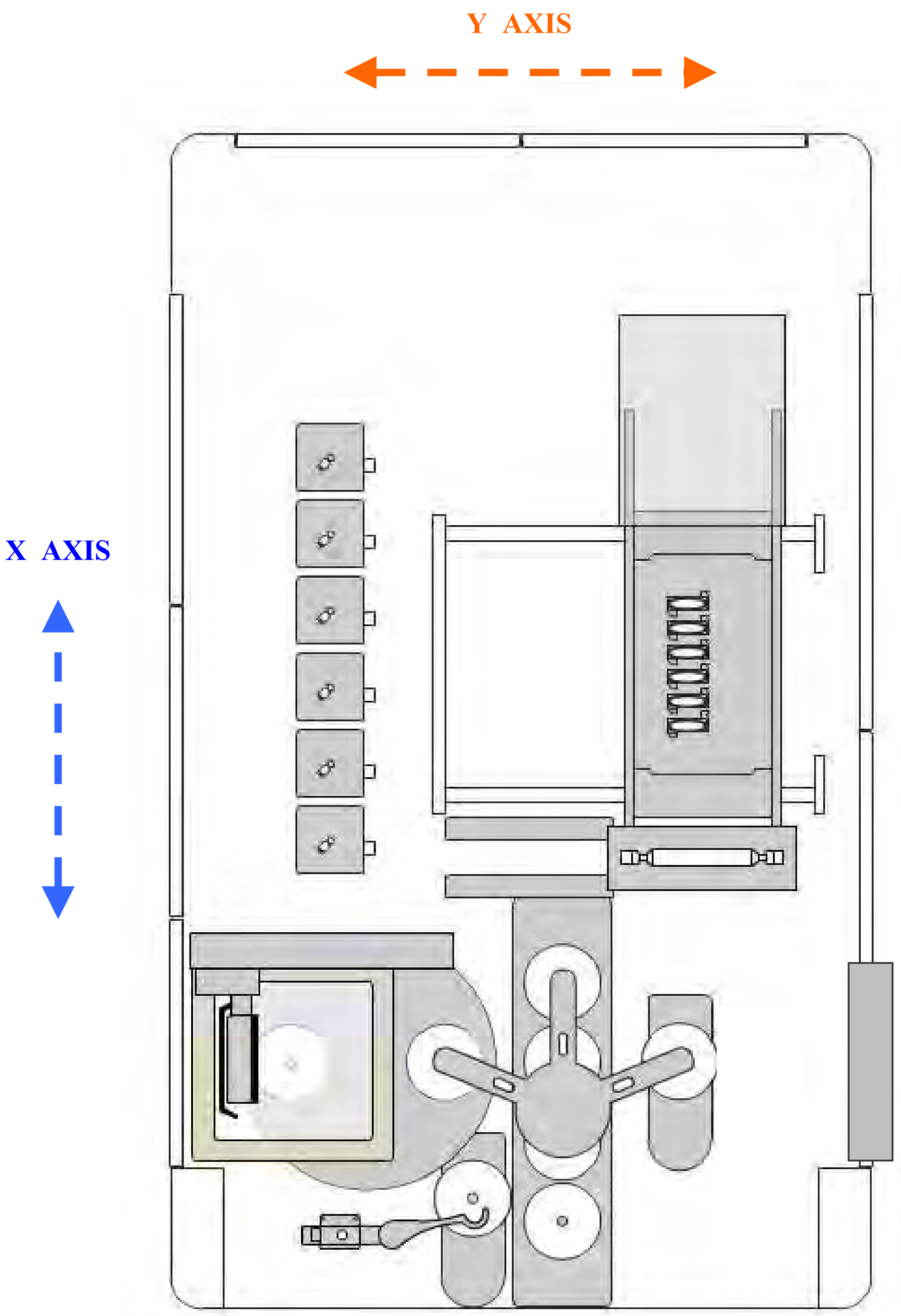
1.01 LAYOUT




Y AXIS
X AXIS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2. INSTALLATION & CONNECTIONS

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2.01 GENERAL INFORMATION

2Print mini HAS BEEN DESIGNED TO DIGITALLY PRINT ONTO OPTICAL DISCS WITH THE FOLLOWING SPECIFICATIONS :

- EXTERNAL DIAMETER OF 120 mm. AND OPTIONAL 80 mm.
- THICKNESS OF 1.2 mm.
- SINGLE AND DOUBLE STACKING RING
- CD – DVD – CD±R – DVD±R – BLU RAY

2Print mini IS AVAILABLE IN TWO BASIC MODELS :

- **2Print mini IV** 4 HEADS – 4 COLOURS **K / C / M / Y**
- **2Print mini VI** 6 HEADS – 6 COLOURS **K / C / M / Y / LC / LM**

2.02 ENVIRONMENT

•	ENVIRONMENT	100.000 CLASS
•	TEMPERATURE	20° C / 25° C
•	HUMIDITY	45% / 55%

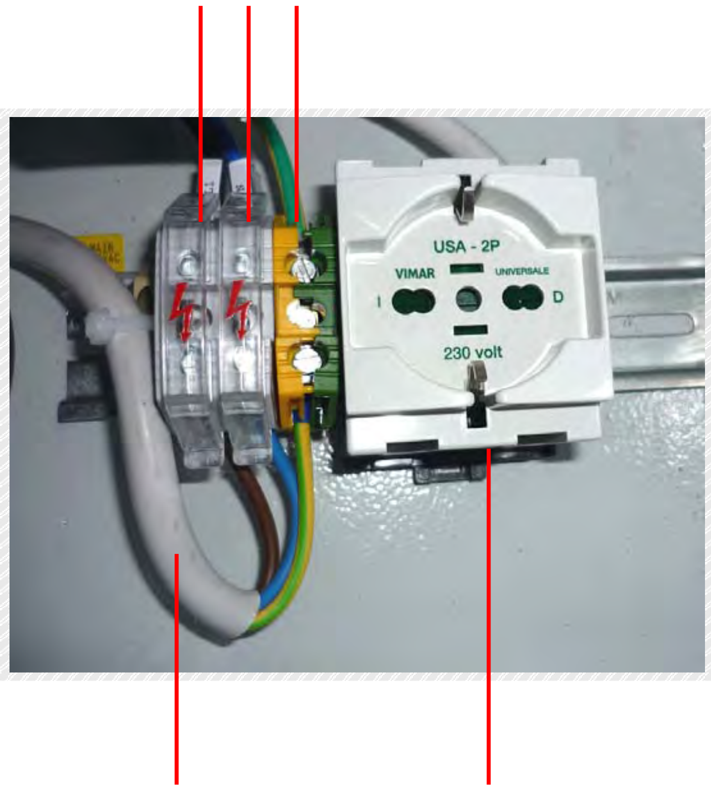
2.03 ELECTRICAL CONNECTIONS

•	VOLTAGE	240 V	
•	PHASE	L + N + PE	**SINGLE PHASE**
•	FREQUENCY	50-60 Hz	
•	POWER	6k VA	(INCLUDING VACUUM PUMP)
•	CURRENT	25 A	(INCLUDING VACUUM PUMP)

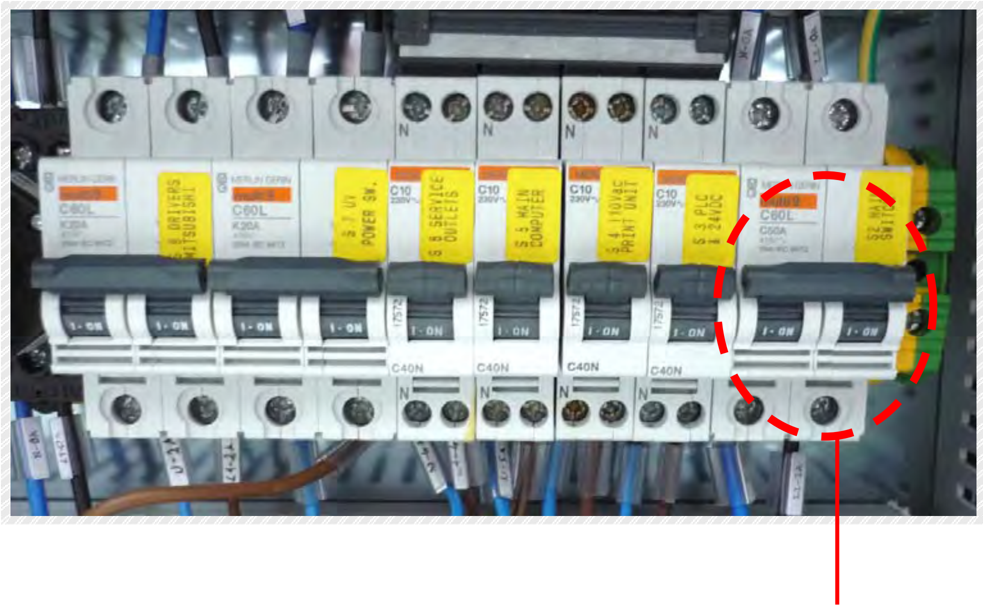
CONNECT THE FACILITIES **MAIN POWER CABLE** TO THE CONNECTOR BLOCK INSIDE THE MAIN ELECTRICAL CABINET.

BEFORE SWITCHING ON CHECK THAT THE RATING IS CORRECT

(POWER CONNECTION 240 VOLTS - SINGLE PHASE)



PLACE THE **MAIN POWER SWITCH** INTO THE 'ON' POSITION : THE SWITCH IS INSIDE THE MAIN ELECTRICAL CABINET.



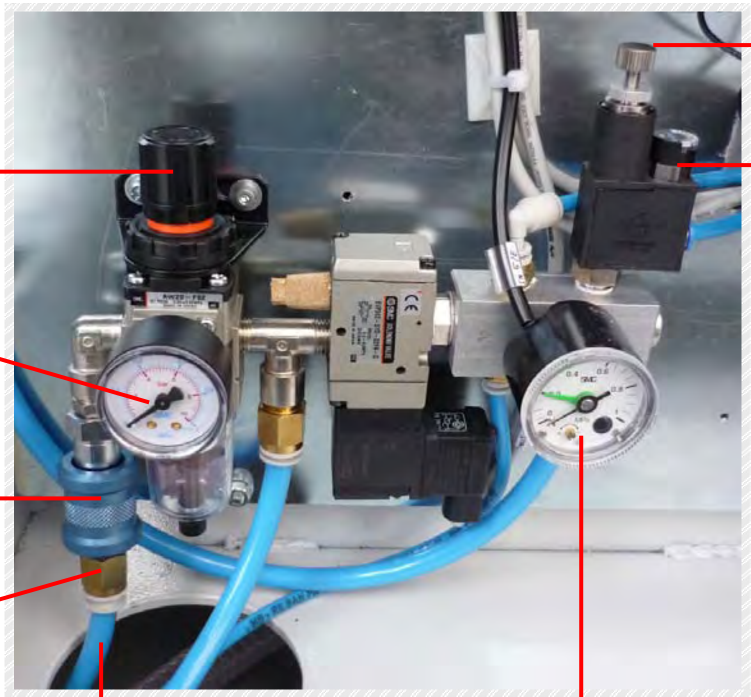
MAIN POWER SWITCH

2.04 AIR & VACUUM CONNECTIONS

- COMPRESSED AIR SUPPLY **5.0 BAR** (200 N lt. / min)

CONNECT THE INCOMING **MAIN AIR PIPE** TO THE **MAIN AIR CONNECTOR.**

OPEN THE **AIR TAP** AND TURN THE AIR PRESSURE REGULATOR SO THAT THE AIR PRESSURE MANOMETER READS **5.0 BAR**



- VACUUM SUPPLY - 0.8 BAR / - 0.9 BAR (25 m³/h)
- VOLTAGE 240 V
- PHASE L + N + PE **SINGLE PHASE**
- FREQUENCY 50-60 Hz
- POWER 1k VA
- CURRENT 4 A

CONNECT THE POWER CABLE OF THE VACUUM PUMP TO THE **VACUUM PUMP POWER OUTLET** POSITIONED INSIDE THE MAIN ELECTRICAL CABINET.

PRIOR TO SWITCHING ON THE PUMP, CHECK THAT THE RATING IS CORRECT
(POWER CONNECTION 240 VOLTS - SINGLE PHASE).

AFTER SWITCHING 'ON' MAKE SURE THAT THE **ROTATION DIRECTION** IS THAT INDICATED BY THE ARROW MARKED ON THE PUMP

N.B. **OIL FREE VACUUM PUMP**

N.B. **IF THE ROTATION IS OPPOSITE TO THAT INDICATED BY THE ARROW CONTACT A TAPEMATIC ENGINEER**

ROTATION DIRECTION

VACUUM FILTER

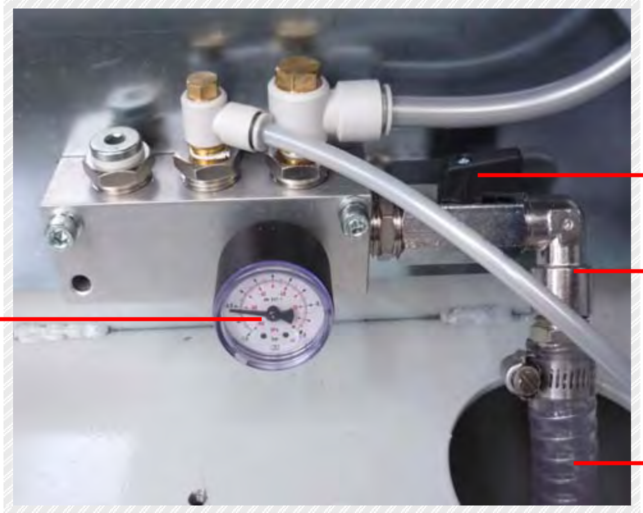
REINFORCED VACUUM PIPE

MAIN POWER CABLE

VACUUM PUMP POWER OUTLET

CONNECT THE **REINFORCED VACUUM PIPE** COMING FROM THE VACUUM PUMP TO THE **MAIN VACUUM CONNECTOR** INSIDE THE MACHINE.

OPEN THE **VACUUM TAP** AND CHECK THAT THE **MAIN VACUUM MANOMETER** INDICATES A VALUE BETWEEN **– 0.8 BAR** & **– 0.9 BAR .**



2.04.01 AIR & VACUUM VALVES

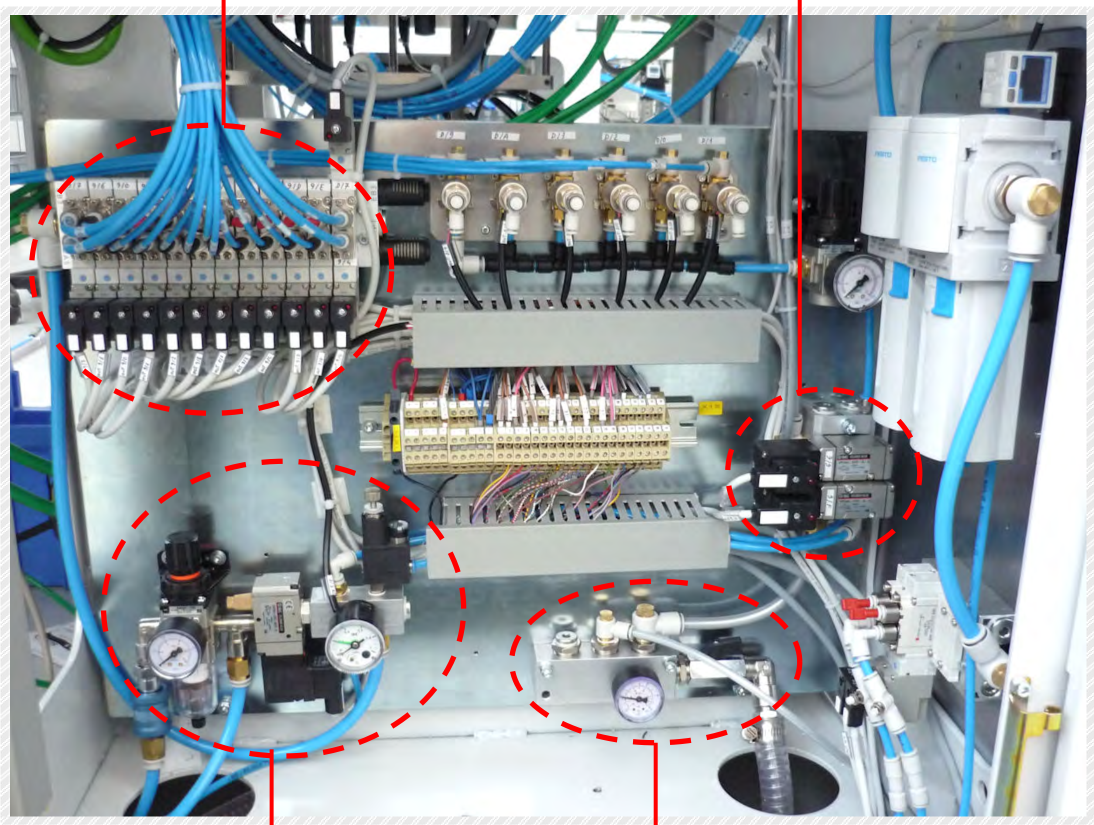
IN THE UTILITY PANEL THERE IS A SET OF **AIR VALVES** FOR ALL THE CYLINDERS EXCEPT THOSE OF THE OPTIONAL SILK SCREEN UNIT.

THE VALVES FOR THE SILK SCREEN UNIT ARE SHOWN ON THE FOLLOWING PAGE.

LOWER AND TO THE RIGHT ARE TWO **VACUUM VALVES** SUPPLYING VACUUM TO THE PRINTING TABLE AND INK RE-CYCLING CIRCUIT.

AIR
VALVES

VACUUM
VALVES

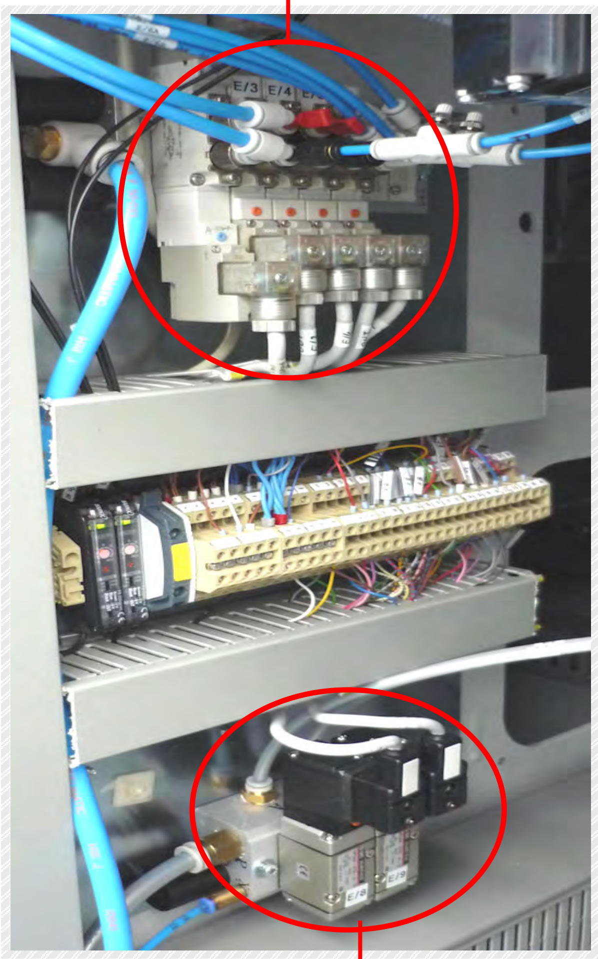


MAIN AIR
SUPPLY

MAIN VACUUM
SUPPLY

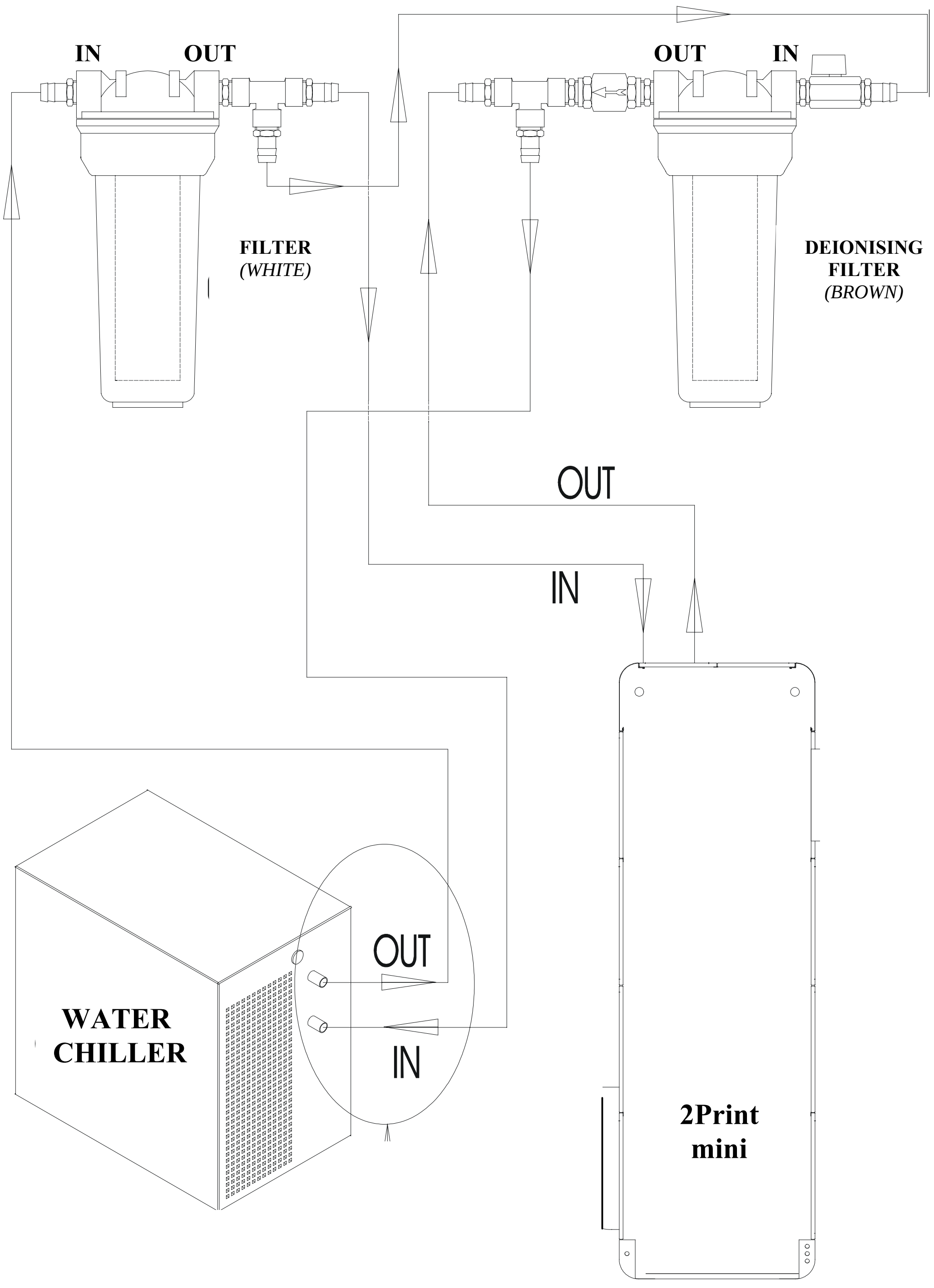
UNDER THE SILK SCREEN STATION ARE POSITIONED THE **AIR VALVES** FOR THE CYLINDER MOVEMENTS AND THE **VACUUM VALVES** FOR THE SILK SCREEN TABLE.

AIR
VALVES



VACUUM
VALVES

2.05 WATER CHILLER CONNECTIONS



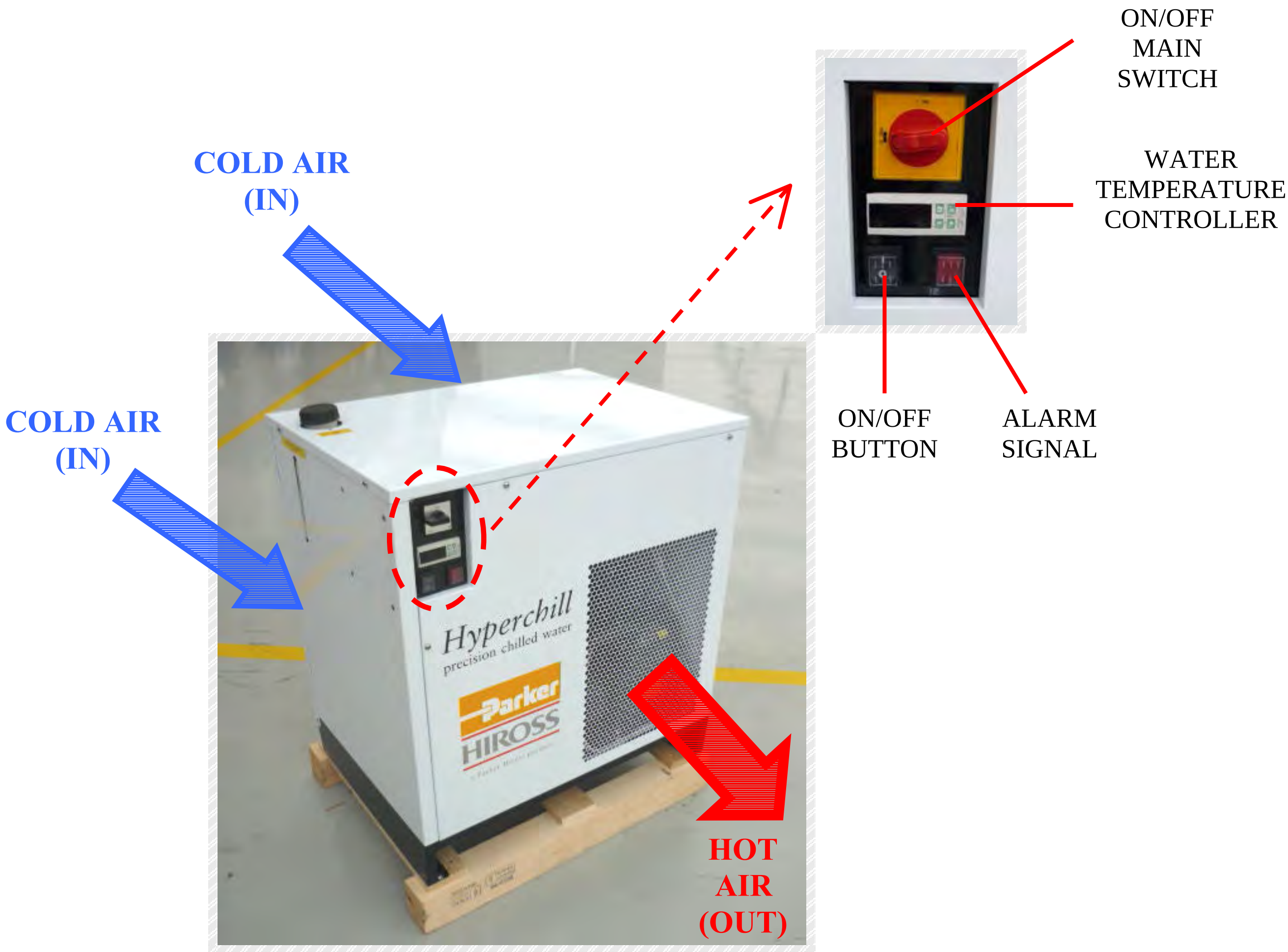
USE ONLY DEIONISED WATER - 20 µS MAXIMUM

- VOLTS 240 V
- PHASE L + N + PE **SINGLE PHASE**
- FREQUENCY 50-60 Hz
- POWER 2k VA
- CURRENT 8 A

N.B. **THE WATER CHILLER MUST BE INSTALLED IN AN AREA WHICH IS WELL VENTILATED COOL AND WITHOUT OTHER FORMS OF HEAT.**
COOL AIR MUST BE ABLE TO ENTER FROM THE BACK SIDE AND HOT AIR MUST BE EXPELLED FROM THE FRONT.

CONNECT THE POWER CABLE OF THE CHILLER TO THE FACILITIES SWITCH BOX WHICH SHOULD BE CLOSE TO THE CHILLER.

PRIOR TO SWITCHING ON THE CHILLER, CHECK THAT THE RATING IS CORRECT
(POWER CONNECTION 240 VOLTS - SINGLE PHASE).



CONNECT THE TWO WATER TUBES BETWEEN THE CHILLER AND THE **2**Print **mini**.

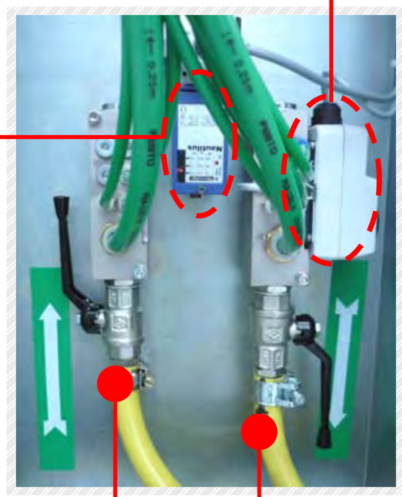
TAKE CARE THAT THE **WATER OUT** OF THE CHILLER GOES TO THE **WATER IN** OF THE MACHINE, THEN MAKE SURE BOTH TAPS ARE OPENED : SWITCH 'ON' THE CHILLER AND CHECK FOR ANY LEAKS FROM THE CHILLER AND INSIDE THE MACHINE.

WATER OUT

WATER IN

WATER OUT
TEMPERATURE
CONTROLLER
40° - 50° C

WATER OUT
PRESSURE
CONTROLLER
1.0 BAR



WATER IN
∅ 17-22 mm

WATER OUT
∅ 17-22 mm

N.B. **THE WATER CHILLER MANOMETER HAS TO INDICATE A PRESSURE BETWEEN 2.0 BAR & 3.0 BAR**

UNSCREW THE WATER TANK CAP AND FILL UP USING ONLY DEIONISED WATER WITH A MAXIMUM OF **20 µS.**

FILL UP THE TANK UNTIL THE **MAXIMUM WATER TANK LEVEL** IS REACHED.

THE QUANTITY OF WATER DEPENDS UPON THE TYPE OF CHILLER SUPPLIED AND THE LENGTH OF TUBES RUN.

MAXIMUM
WATER
TANK
LEVEL

AFTER SWITCHING 'ON' THE **2**P**rint** **mini** AND CHILLER, PRESS **RESET** ON THE **2**Print **mini** AND WAIT UNTIL THE **IDLE** LAMP COMES 'ON' (YELLOW LIGHT NOT FLASHING).

IF DURING THE INITIALIZATION THE MACHINE DISPLAYS AN ALARM '**NO WATER**' OR' **LOW WATER PRESSURE**' TOP UP THE WATER TANK AND PRESS **RESET.**

REPEAT THIS OPERATION UNTIL THE MACHINE GOES INTO **IDLE**
(YELLOW LIGHT NOT FLASHING).

'CAREL' THERMOSTAT

Display symbols

1 compressor working request
A amber compressor working
B amber pump/air outlet fan ON
C amber condenser fan ON
D amber defrost active

E amber heater ON
F red alarm active
G amber heat pump mode
H amber chiller mode request

How to set the working temperature

1 – Press **SEL** up to enter into the program mode
2 – Press **UP** or **DOWN** up to display the symbol **– r –**
3 – Press **SEL** to enter into the edit parameters mode
4 – Press **UP** or **DOWN** up to select the parameter that has to be changed
(check the **– r –** table below)
5 – Press **SEL** to visualize the correspondent value, then press **UP or DOWN** to modify the value
6 – Confirm the new value pressing **SEL**, then press twice **PROG** to exit

How to set the block/alarm temperature

1 – Press **SEL** & **PROG** up to enter into the program mode
2 – Press **UP** or **DOWN** up to display the value **22**
3 – Press twice **SEL** to confirm the operation
4 – Press **UP** or **DOWN** up to display the symbol **– p –**
5 – Press **SEL** to enter into the edit parameters mode
6 – Press **UP** or **DOWN** up to select the parameter that has to be changed
(check the **– p –** table below)
7 – Press **SEL** to visualize the correspondent value, then press **UP or DOWN** to modify the value
8 – Confirm the new value pressing **SEL**, then press twice **PROG** to exit

Important parameters table

- r -

r 01	Working temperature value
r 02	Differential value for the temperature control (2 - 3 degrees)

- p -

p 16	High temperature threshold (alarm & block with red lamp)
p 17	Delay timer before restart (5 min.)
p 01	Delay of flow-meter sensor for the pump restart (20 sec.)

N.B. **IF THE TEMPERATURE OF THE AREA WHERE THE CHILLER IS INSTALLED VARIES BETWEEN 20°C – 28 °C IT IS RECOMMENDED TO SET THE THERMOSTAT TO 19°C – 20 °C**

N.B. **IF THE TEMPERATURE OF THE AREA WHERE THE CHILLER IS INSTALLED VARIES BETWEEN 28°C – 35 °C IT IS RECOMMENDED TO SET THE THERMOSTAT TO 28°C – 30 °C**

2.06 CONNECTING THE INK "BAG IN BOX"

N.B. **USE ONLY INK RECOMMENDED BY TAPEMATIC**

N.B. **THE INK IS GUARANTEED BY THE MANUFACTURER FOR A PERIOD OF SIX MONTHS IF STORED AT A TEMPERATURE BETWEEN 10° C AND 20° C AND NOT EXPOSED TO THE LIGHT .**

STORE THE CONTAINERS WITH THE CONNECTOR UPRIGHT

N.B. **FOLLOW THE INSTRUCTION IN THE NEXT PAGES PRIOR TO INSTALLING THE INK 'BAG IN BOX' IN THE MACHINE**

N.B. **USING INK NOT RECOMMENDED BY TAPEMATIC CAN CAUSE IRREVERSIBLE DAMAGE TO THE PRINT HEADS**

INK IS SUPPLIED IN DISPOSABLE CONTAINERS CALLED ‘**BAG IN BOX’** .

THE BAG IN BOX CONTAINS A MINIMUM AMOUNT OF AIR CORRECT FOR MAINTAINING THE INK’S PROPERTIES.

THE INK IS GUARANTEED BY THE MANUFACTURER FOR A PERIOD OF SIX MONTHS IF STORED AT A TEMPERATURE BETWEEN **10° C** AND **20° C** AND NOT EXPOSED TO THE LIGHT.

STORE THE CONTAINERS WITH THE CONNECTOR UPRIGHT.

DURING TRANSPORT AND STORAGE THE VARIATIONS OF TEMPERATURE AND AIR PRESSURE CAN CAUSE THE ‘PRESSURE’ WITHIN THE BAG IN BOX TO INCREASE: THIS INCREASE OF PRESSURE CAN CAUSE AN INCORRECT FUNCTIONING OF THE BUFFER’S **INK MEMBRANE HOUSING.**

THEREFORE IT IS RECOMMENDED TO CARRY OUT THIS SIMPLE PROCEDURE TO RELEASE ANY TENSION WITHIN THE BAG IN BOX PRIOR TO INSTALLING AND CONNECTING THE **RAPID CONNECTOR.**

‘BAG IN BOX’ AIR RELEASING PROCEDURE

- TURN THE CARTON SO THAT THE OPENING IS AT THE TOP

- REMOVE THE BAG.
  ENSURE THAT THE CAP IS TIGHTLY LOCKED ONTO THE BAG BY GIVING THE CAP A GENTLE TWIST IN A CLOCKWISE DIRECTION

- USING A TUBE OF ABOUT 4 mm. PLACE ON THE CENTRE NIPPLE OF THE CAP

- HOLD BOTTOM OF THE CAP VERY WELL , THEN PRESS GENTLY BUT FIRMLY ON THIS NIPPLE TO ALLOW A LARGE QUANTITY OF THE AIR TO BE EXPELLED.
  IT'S NOT IMPORTANT TO EXPEL ALL THE AIR.
  BE CAREFUL NOT TO LET INK COME OUT

- REPLACE THE BAG AND FOLD IN THE FLAPS.
  MAKE SURE THAT ALL OF THE CONNECTOR IS OUTSIDE THE FLAPS

- CLOSE COMPLETELY THE BOX AND TURN OVER.
  MAKE SURE THE BOX IS VERTICAL AT THE MOMENT OF CONNECTING THE BAG IN BOX TO THE MACHINE

PRIOR TO CONNECTING THE **BAG IN BOX** IT IS VITAL TO ENSURE THAT THE CORRECT COLOUR IS CONNECTED IN THE CORRECT POSITION.

AN ERROR AT THIS STAGE WILL REQUIRE AN EXTENSIVE AND COSTLY FLUSHING OUT OF THE CIRCUIT CONTAMINATED WITH AN INCORRECT COLOUR.

TAKE CARE NOT TO DAMAGE THE BOX WHEN CONNECTING A BAG IN BOX TO THE MACHINE: THE BOX PROTECTS THE BAG FROM ANY STRAY LIGHT SOURCE AND HOLD THE BAG IN POSITION.

KEEP THE BOX IN A VERTICAL POSITION WITH THE CONNECTOR FACING DOWN, THEN PRESS THE **RAPID CONNECTOR** FIRMLY AND GENTLY ONTO THE CONNECTOR.

EVERY TIME A NEW BAG IN BOX IS CONNECTED CHECK VERY WELL FOR ANY LEAKS FROM THE CONNECTOR AND CAP.

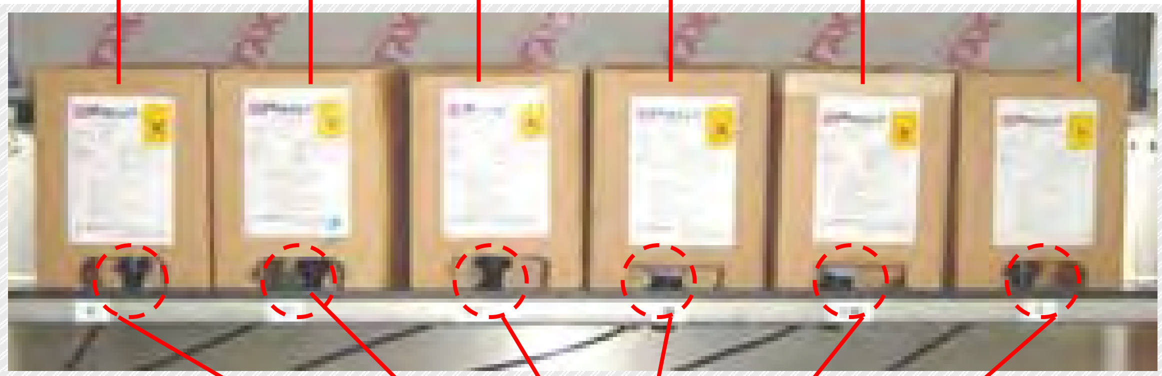
PICTURE SHOWS 4 COLOURS VERSION

Y YELLOW | **M** MAGENTA | **C** CYAN | **K** BLACK

RAPID CONNECTOR

PICTURE SHOWS 6 COLOURS VERSION

Y YELLOW | **LM** LIGHT MAGENTA | **M** MAGENTA | **LC** LIGHT CYAN | **C** CYAN | **K** BLACK



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Brimar

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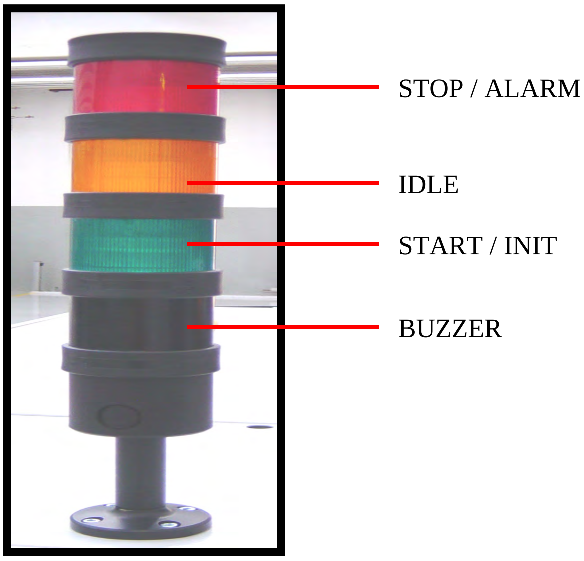
3.01 PUSHBUTTONS & TRAFFIC LIGHTS

A TRAFFIC LIGHT MOUNTED ON TOP OF THE MACHINE INDICATES THE MACHINE STATUS AND GIVES AN ACOUSTIC WARNING.

STOP	RED LIGHT ON
ALARM	RED LIGHT FLASHING & BUZZER ACTIVE
START	GREEN LIGHT ON
MANUAL FUNCTION	GREEN & RED LIGHT FLASHING FAST
INITIALIZATION	GREEN LIGHT FLASHING
IDLE	YELLOW LIGHT FLASHING SLOW
UNLOAD SPINDLE	YELLOW LIGHT FLASHING FAST
END CYCLE	YELLOW LIGHT ON
SWITCH OFF	YELLOW LIGHT FLASHING FAST
SHUT DOWN	ALL LIGHTS OFF



AT THE FRONT RIGHT HAND SIDE OF THE MACHINE IS SITUATED A PUSHBUTTON PANEL: THIS PANEL CONTAINS THE MAIN MANUAL PUSHBUTTONS.

START / STOP / RESET / IDLE

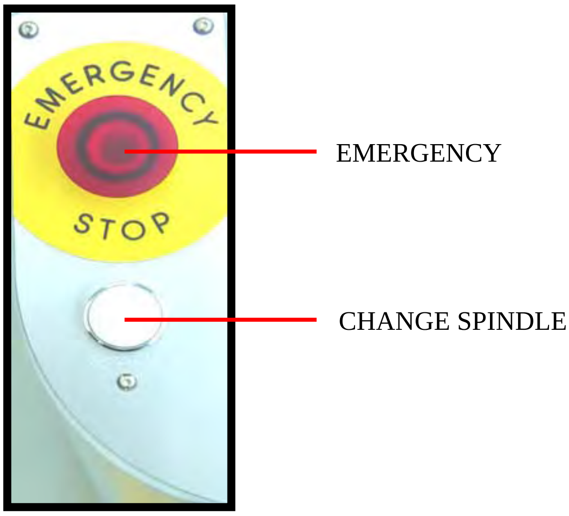
AT THE FRONT LEFT HAND SIDE ARE SITUATED TWO PUSHBUTTONS.

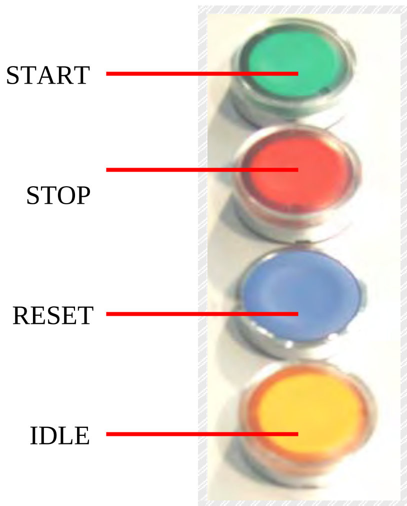
EMERGENCY-STOP / CHANGE SPINDLE

PRESSING **CHANGE SPINDLE** WILL MAKE THE WHITE LIGHT FLASH AND THE **LIFTER ARM** WILL MOVE TO THE LOWER REST POSITION TO ALLOW THE IN-FEED SPINDLE TO BE CHANGED.

ONCE THE SPINDLE HAS BEEN CHANGED OR TO CONTINUE WITH THE SAME SPINDLE, PRESS **CHANGE SPINDLE** AGAIN: THE WHITE LIGHT WILL GO OUT.

IF DURING NORMAL OPERATION THE IN-FEED SPINDLE IS REMOVED THE MACHINE WILL AUTOMATICALLY GO INTO **STOP** AND THE **CHANGE SPINDLE** LIGHT WILL ALIGHT.



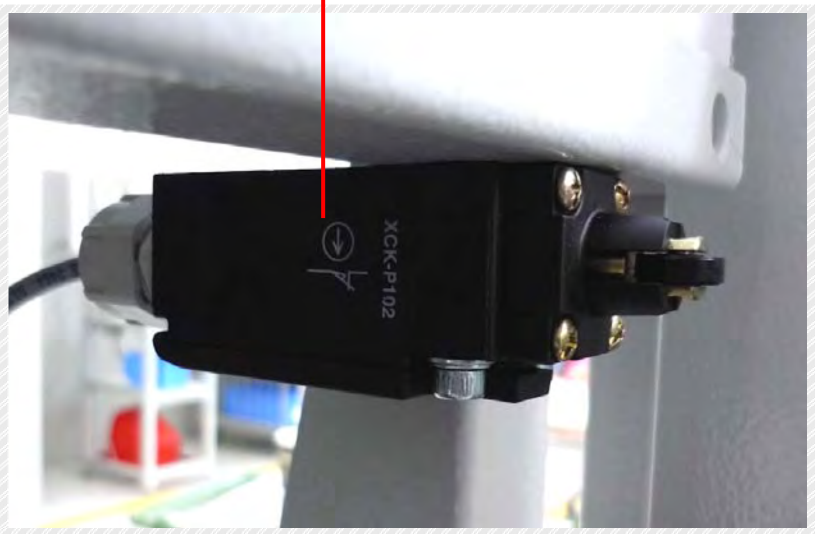


N.B. **IF THE EMERGENCY PUSHBUTTON HAS BEEN PRESSED, TO RE-START THE MACHINE IT IS NECESSARY TO RE-ESTABLISH COMMUNICATION BETWEEN THE CPU AND THE SUPERVISOR : TO DO THIS PRESS 'ALT+TAB' or CLOSE AND RE-OPEN THE SUPERVISOR AS PER THE INSTRUCTION IN SECTION 4.02.02**

THE FRONT TOP DOOR IS PROTECTED BY A **SAFETY DEVICE** : DURING NORMAL OPERATION IF THIS DOOR IS OPENED THE MACHINE WILL AUTOMATICALLY STOP.

THE OPERATOR CAN NOW WORK ON THE MACHINE IN COMPLETE SAFETY.

SAFETY DEVICE



N.B. **WHEN THE FRONT DOOR IS OPEN IT IS NOT POSSIBLE TO RESET THE MACHINE : THE 'RESET' PUSHBUTTON IS INACTIVE**

N.B. **THE PUSHBUTTONS REGARDING THE SILK SCREEN STATION ARE DESCRIBED IN SECTION 6.07.01**

3.02 SWITCHING 'ON' THE MACHINE

- SWITCH 'ON' THE WATER CHILLER

- SWITCH 'ON' THE **2P**rint **mini ON/OFF MAIN SWITCH**

ON/OFF MAIN SWITCH

- WAIT UNTIL THE INITIALIZING SEQUENCE OF THE OPERATING SYSTEM **WINDOWS XP** IS COMPLETE AND THE MONITOR SHOWS THE **2P**rint **mini** MAIN SCREEN.

  IN THE CASE THAT INITIALIZATION DOES NOT TAKE PLACE, SWITCH 'ON' THE COMPUTER MANUALLY.
  THEN OPEN THE SUPERVISOR BY DOUBLE CLICKING THE ICON **2P**rint **mini** DISPLAYED ON THE MONITOR'S DESKTOP.

  THE MONITOR WILL THEN DISPLAY THE MAIN SCREEN WITH THE VARIOUS GROUPS FLASHING IN RED.

- ENSURE THE EMERGENCY **PUSHBUTTON** IS IN THE 'OUT' POSITION

EMERGENCY PUSHBUTTON

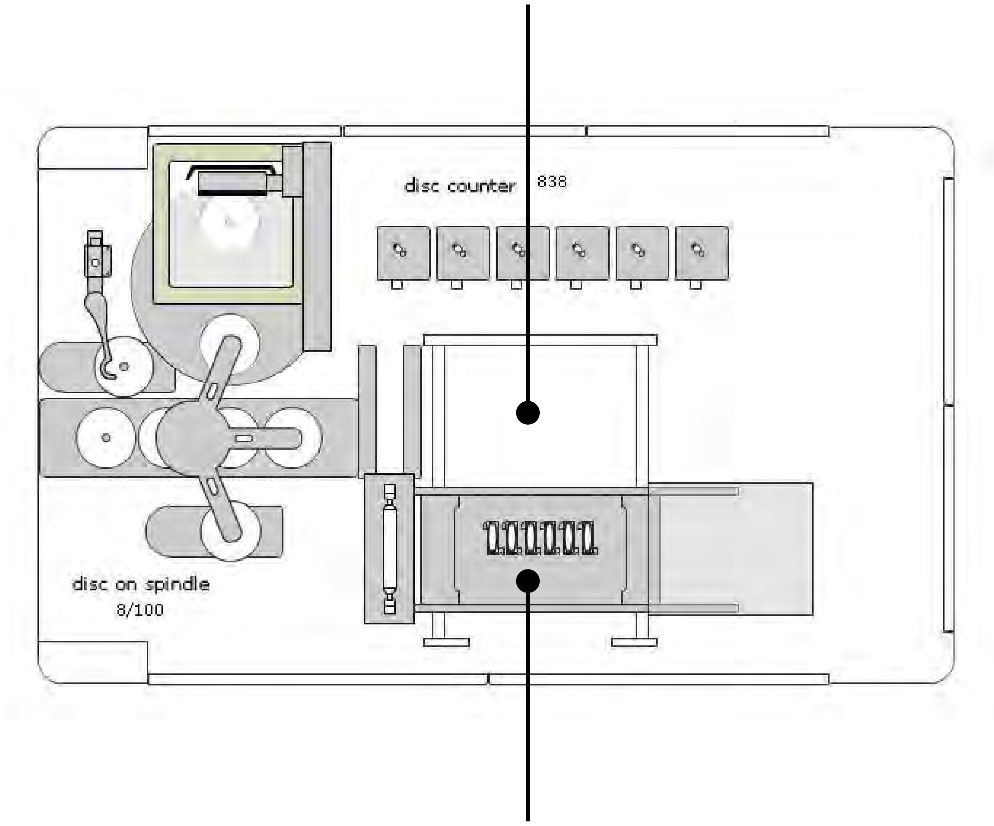
- PRESS **RESET** AND WAIT UNTIL THE INITIALIZATION SEQUENCE IS COMPLETE: THIS WILL BE INDICATED BY THE YELLOW **IDLE** LIGHT 'ON'.
  THE GROUPS WILL NOW BE INDICATED IN GRAY.

  DURING THE PHASE OF INITIALIZATION, THE GREEN **START** LIGHT WILL FLASH, THE MONITOR HEADING WILL SHOW **INIT** AND THE GROUPS WILL BE INDICATED IN BLUE.

  DURING THE INITIALIZATION THE MACHINE WILL AUTOMATICALLY POSITION ALL THE GROUPS IN THEIR STARTING POSITIONS, RE-SET THE HEAD CONTROL BOXES AND SWITCH 'ON' THE UV LAMP IN STAND-BY EQUAL TO 25% OF FULL POWER.

THE HEADS GROUP WILL MOVE ITSELF TO THE **PRINTING POSITION** THEN AFTER TWO MINUTES MOVE BACK TO THE **CLEANING POSITION.**

PRINTING POSITION



CLEANING POSITION

- IF AN ALARM OCCURS DURING THE INITIALIZATION, THE RED **ALARM** LIGHT WILL FLASH, THE MONITOR WILL DISPLAY **BLOCK** AND THE GROUPS WILL FLASH RED ON THE MAIN SUPERVISOR PAGE.

  TO VISUALISE THE ALARMS DOUBLE CLICK **ALARM** ON THE MAIN PAGE : CHECK FOR ANY OBSTRUCTIONS AND CORRECT ANY ANOMALY THAT THERE MAYBE, THEN PRESS **RESET.**

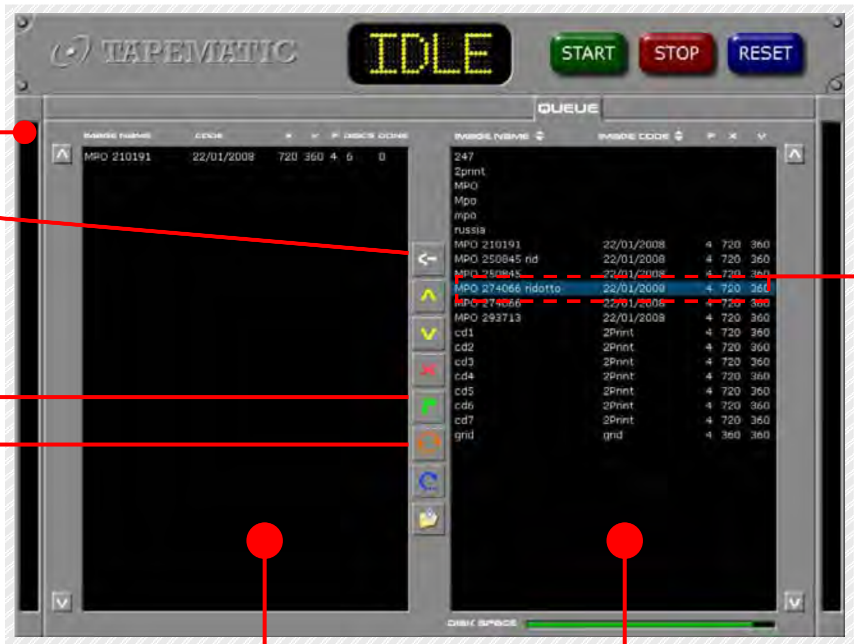
  ONCE THE INITIALIZATION IS COMPLETE THE MACHINE WILL GO INTO **STOP** MODE WITH THE RED LIGHT ALIGHT.

N.B. **IF THE MACHINE HAS BEEN SWITCHED OFF FOR MORE THAN 24 HOURS, WAIT ABOUT 5 MINUTES TO ALLOW THE AUTOMATIC FLUSHING SEQUENCE TO TAKE PLACE**

3.02.01 PRINTING AN IMAGE

N.B. **WE RECOMMEND TO CARRY OUT THE FOLLOW OPERATIONS EVERY TIME THE MACHINE HAS BEEN SWITCHED 'OFF' FOR MORE THAN 24 HOURS**

- CHECK THAT THE MACHINE IS IN '**IDLE**' WITH THE YELLOW LIGHT ALIGHT
- LOAD THE IN-FEED SPINDLE WITH THE DISCS TO BE PRINTED
- ON THE **MAIN SCREEN** DOUBLE CLICK ON **QUEUE** TAB
- CLICK THE ICON **REFRESH** TO ACTUALIZE THE LIST
- FROM THE **ARCHIVE SCREEN** SELECT THE FILE TO BE PRINTED.
  IF THE FILE MAYBE WITHIN A FOLDER, FIRST OPEN THE FOLDER AND THEN SELECT THE FILE YOU WISH TO PRINT.
  THE **SELECTED FILE** WILL BE HIGHLIGHTED IN BLUE



- CLICK THE ⟵ **ADD JOB** ICON

- A KEYBOARD WILL APPEAR: TYPE THE QUANTITY OF DISC TO BE PRINTED THEN CLICK **OK**

- THE TITLE TO BE PRINTED WILL APPEAR ON THE LEFT HAND **QUEUE SCREEN**

- TOUCH THE SAVE ICON TO CONFIRM AND MEMORIZE THE OPERATION.

  DURING THIS OPERATION THE GREEN **START** LIGHT WILL FLASH AND THE **LOAD BAR** WILL INDICATE THE LOADING OF THE IMAGE TO THE HEAD BOXES.
  ONCE COMPLETED THE MACHINE WILL GO INTO **IDLE**

- PRESS **START** TO COMMENCE PRODUCTION

- ONCE THE REQUESTED NUMBER OF DISCS ARE PRINTED THE MACHINE WILL AUTOMATICALLY GO INTO **IDLE** , THE IMAGE FILE WILL BE REMOVED FROM THE **QUEUE SCREEN** AND MEMORISED IN THE **LOGS** PAGE

N.B. **IF THE EMERGENCY PUSHBUTTON HAS BEEN PRESSED, TO RE-START THE MACHINE IT IS NECESSARY TO RE-ESTABLISH COMMUNICATION BETWEEN THE CPU AND THE SUPERVISOR : TO DO THIS PRESS 'ALT+TAB' or CLOSE AND RE-OPEN THE SUPERVISOR AS PER THE INSTRUCTION IN SECTION 4.02.02**

3.03 SWITCHING 'OFF' THE MACHINE

- ONCE PRODUCTION HAS STOPPED AND THE **IDLE** LIGHT IS ALIGHT, CONTROL THAT THE PRINT STATION IS IN CLEANING POSITION AND THAT THE **INK WELL PLATE** IS IN THE UPPER POSITION COVERING THE HEADS FOR PROTECTION

- HOLD DOWN THE **IDLE** BUTTON FOR ABOUT 5 SECONDS: THIS WILL AUTOMATICALLY START THE SHUT-DOWN SEQUENCE OF THE MACHINE.

  THE **IDLE** LIGHT WILL FLASH UNTIL THE UV LAMP IS COOLED DOWN AND SWITCHED 'OFF' , THE MOTOR DRIVERS ARE SWITCHED 'OFF' AND THE PNEUMATIC CIRCUITS ARE CLOSED DOWN.

  ONCE THE SEQUENCE IS TERMINATED ALL LIGHTS OF THE TOWER AND PUSHBUTTONS WILL ALL GO OUT, INDICATING THAT THE AUTOMATIC SHUT-DOWN SEQUENCE HAS BEEN COMPLETED

- THE MACHINE WILL AUTOMATICALLY SHUT-DOWN THE **2P**rint **mini** SUPERVISOR, THE **WINDOWS XP** OPERATING SYSTEM AND THE COMPUTER

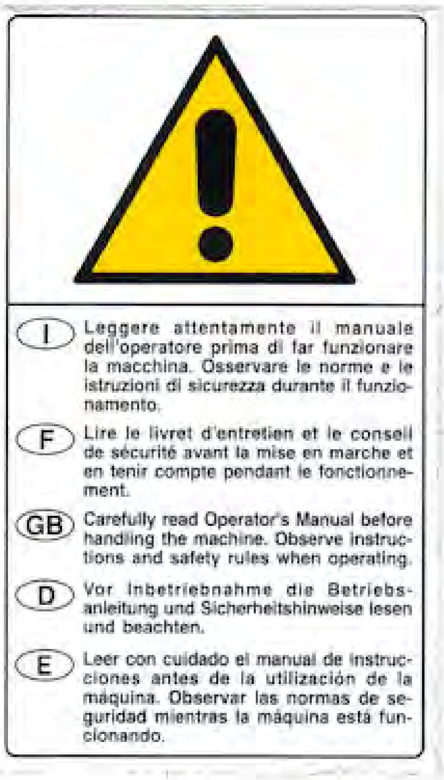
- PRESS THE **EMERGENCY PUSHBUTTON**

EMERGENCY PUSHBUTTON

- SWITCH 'OFF' THE **2PRINT ON/OFF MAIN SWITCH** POSITIONED ON THE ELECTRICAL CABINET DOOR

ON/OFF MAIN SWITCH

- SWITCH 'OFF' THE WATER CHILLER


I
Leggere attentamente il manuale dell'operatore prima di far funzionare la macchina. Osservare le norme e le istruzioni di sicurezza durante il funzionamento.
F
Lire le livret d'entretien et le conseil de sécurité avant la mise en marche et en tenir compte pendant le fonctionnement.
GB
Carefully read Operator's Manual before handling the machine. Observe instructions and safety rules when operating.
D
Vor Inbetriebnahme die Betriebsanleitung und Sicherheitshinweise lesen und beachten.
E
Leer con cuidado el manual de instrucciones antes de la utilización de la máquina. Observar las normas de seguridad mientras la máquina está funcionando.

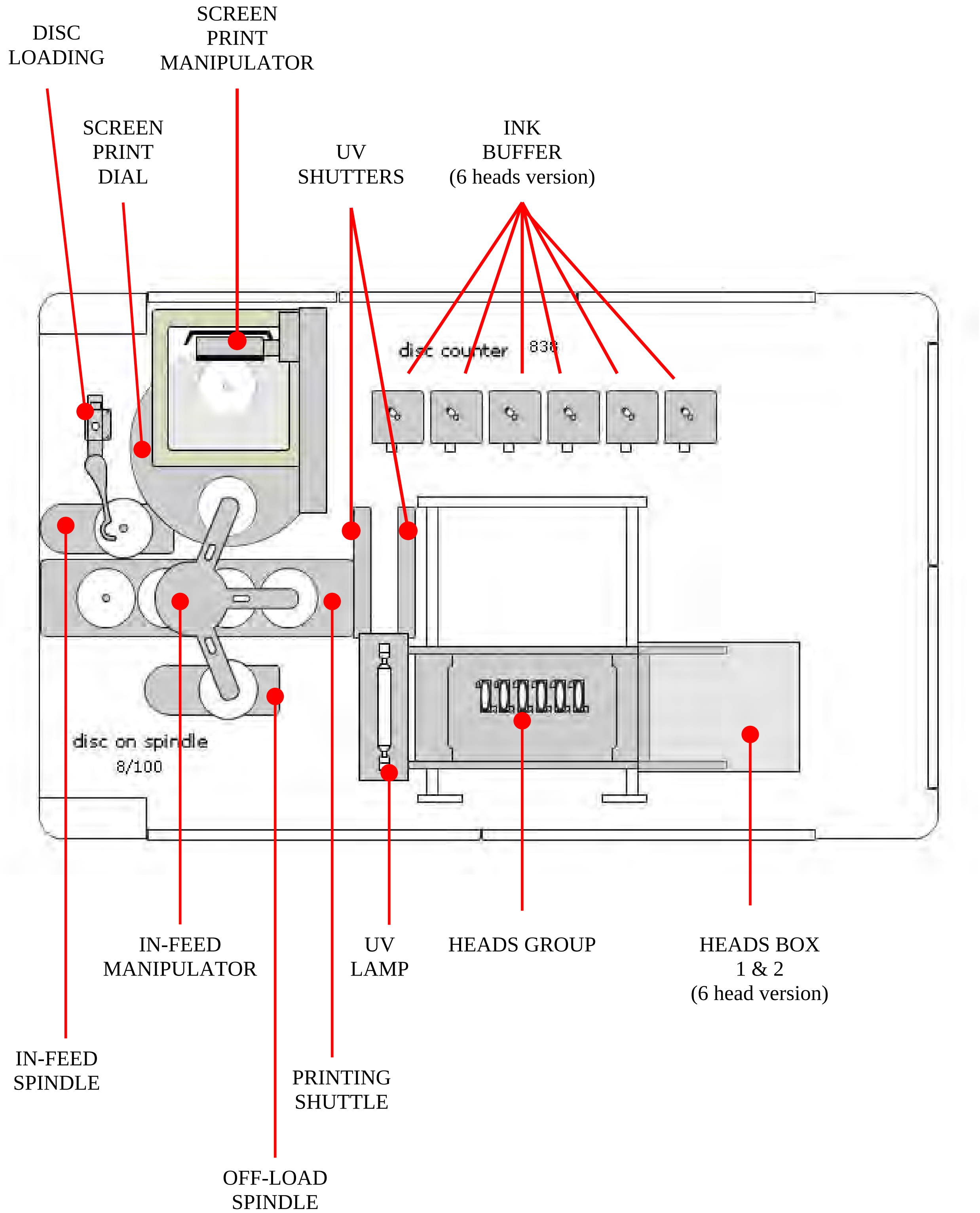

CAUTION
Do not open while machinery is in motion.
Brimar 800-274-6271 / E2151-AA

4. SUPERVISOR

!!! ATTENTION !!!

- **CAREFULLY READ THIS MANUAL PRIOR TO ATTEMPTING TO USE THE MACHINE**
- **ADJUSTMENTS, MAINTENANCE AND REPAIRS TO THE MACHINE MUST BE CARRIED OUT BY QUALIFIED PERSONNEL WORKING WITHIN THE SAFETY NORMS**
- **IT IS ABSOLUTELY FORBIDDEN TO TAMPER OR REMOVE SAFETY DEVICES OR MODIFY ELECTRICALLY OR MECHANICALLY THE MACHINE**
- **PRESS THE “STOP” OR “IDLE PRIOR TO WORKING INSIDE THE MACHINE OR OPENING THE PANELS**
- **DO NOT TOUCH ANY ELECTRICAL DEVICES WITH WET HANDS OR OTHER PARTS OF THE BODY**
- **ALWAYS USE PROTECTIVE GLASSES AND GLOVES WHEN WORKING WITH OR TOUCHING THE UV LAMP OR INKS**
- **DO NOT LOOK DIRECTLY INTO THE RAYS OF THE UV LAMP**
- **IN CASE OF AN EMERGENCY IMMEDIATELY PUSH THE EMERGENCY “RED MUSHROOM”**
- **THE MANUFACTURER CAN NOT BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED TO PERSONS OR MACHINERY DUE TO LACK OF OBSERVATION OF THE SAFETY REGULATIONS IN THE COUNTRY OF INSTALLATION**

4.01 TOUCH SCREEN



THE ON BOARD COMPUTER IS MADE UP FROM THREE BASIC COMPONENTS : A **TOUCH SCREEN MONITOR** , A **KEYBOARD** AND A **TOWER COMPUTER** MOUNTED WITHIN THE CABINET DOOR BELOW THE MONITOR.

THE OPERATING SYSTEM EMPLOYED IS **WINDOWS XP.**

TOUCH SCREEN MONITOR

KEYBOARD

2PRINT-mini COMPUTER

PC POWER

KEYBOARD

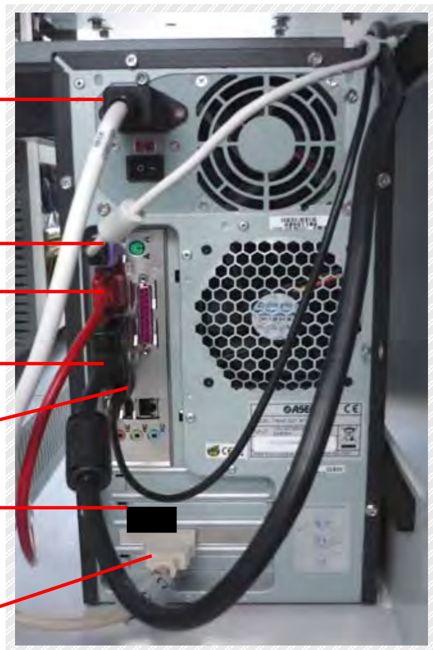
CPU

MONITOR

MONITOR (USB)

MITSUBISHI DRIVERS

HEAD BOX 1



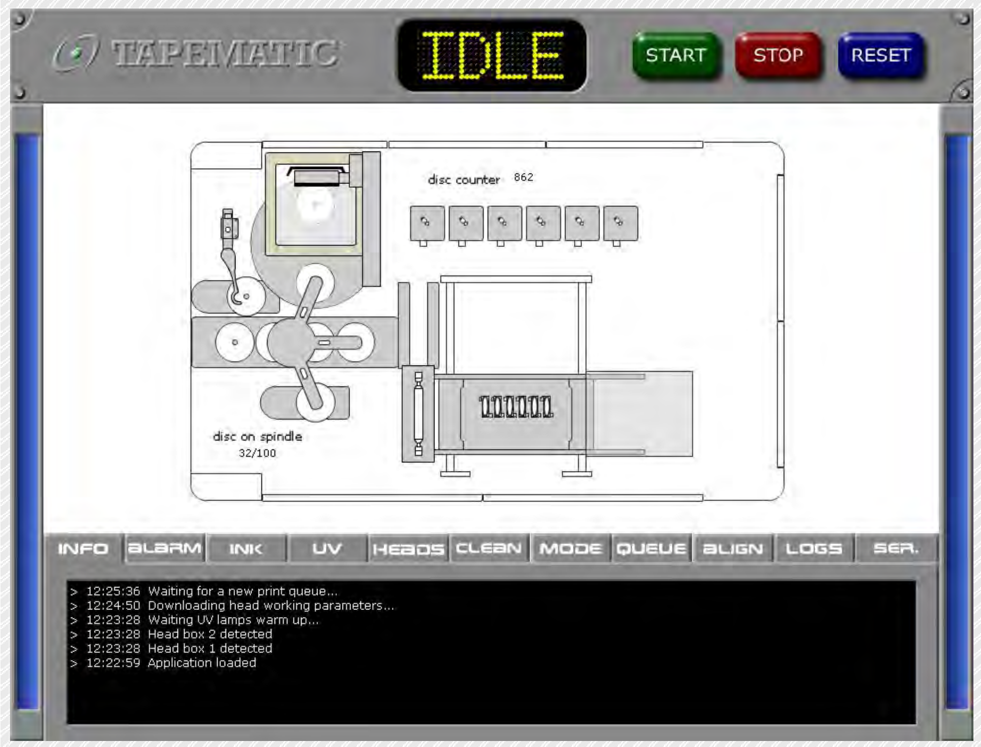
4.02 USING THE SUPERVISOR

N.B. **IF THE EMERGENCY PUSHBUTTON HAS BEEN PRESSED, TO RE-START THE MACHINE IT IS NECESSARY TO RE-ESTABLISH COMMUNICATION BETWEEN THE CPU AND THE SUPERVISOR : TO DO THIS PRESS 'ALT+TAB' or CLOSE AND RE-OPEN THE SUPERVISOR AS PER THE INSTRUCTION IN SECTION 4.02.02**

4.02.01 MAIN SCREEN

EACH TIME THE **2Print mini** SUPERVISOR IS OPENED FROM THE DESKTOP THE **MAIN SCREEN** WILL BE DISPLAYED.

PICTURE SHOWS 6 HEADS VERSION WITH SILK SCREEN



THE DISPLAY WILL INDICATE THE STATUS OF THE VARIOUS GROUPS AND THE LAST DIAGNOSIS MESSAGES.

WHEN THE MACHINE IS IN **IDLE** or **STOP** THE GROUPS WILL BE DISPLAYED IN GREY.

TO START PRODUCTION THE OPERATOR NEEDS ONLY TO PRESS THE **START** COMMAND FROM THE PUSHBUTTONS OR THE ICON ON THE MONITOR.

IF ONE OR MORE GROUPS ARE INDICATED IN RED THE MACHINE IS IN A STATUS OF **BLOCK-ALARM.**
BY CLICKING THE **ALARM** TAB DETAILS OF THE ALARMS WILL BE DISPLAYED : THE OPERATOR SHOULD CHECK, ADJUST AND CORRECT ANY ERROR IN THE GROUPS INDICATED IN RED.
THEN PRESS **RESET** FROM THE PUSHBUTTONS OR ICON ON THE DISPLAY AND WAIT UNTIL THE INITIALIZATION HAS FINISHED.

IF ONE OR MORE GROUPS ARE INDICATED IN BLUE THE MACHINE IS INITIALIZING MODE **(INT)** .

4.02.02 CLOSING THE SUPERVISOR

THE LEVEL OF THE SUPERVISOR IS DISPLAYED UNDER THE **TAPEMATIC** LOGO (*EXAMPLE* version 1.3.7)

TO CLOSE THE SUPERVISOR AND DISPLAY THE DESKTOP, TOUCH THE **TAPEMATIC** LOGO LOCATED IN THE TOP LEFT HAND CORNER OF THE SCREEN.

THEN SELECT **OK** IN THE WINDOW THAT WILL BE VISUALIZED

“**ARE YOU SURE YOU WANT TO CLOSE THE APPLICATION ?**”

N.B. **TO RETURN TO THE SUPERVISOR PAGE FROM THE DESKTOP, DOUBLE TOUCH ON THE 2Print mini ICON**

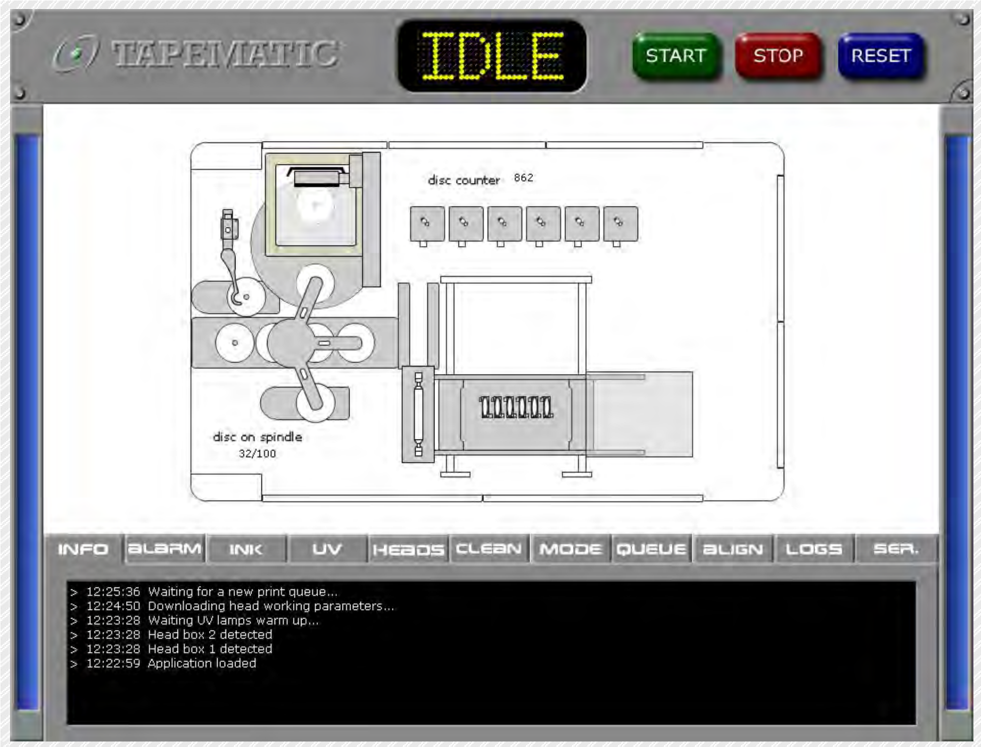
N.B. **IF THE EMERGENCY PUSHBUTTON HAS BEEN PRESSED, TO RE-START THE MACHINE IT IS NECESSARY TO RE-ESTABLISH THE COMMUNICATION BETWEEN THE CPU AND THE SUPERVISOR : TO DO THIS PRESS ‘ALT+TAB’ ON THE KEYBOARD or CLOSE AND RE-OPEN THE SUPERVISOR AS PER THE INSTRUCTION IN SECTION 4.02.02**

4.02.03 INFO. SCREEN

FROM THE MAIN MENU CLICK THE **INFO.** TAB.

THIS WILL DISPLAY THE LAST NINE DIAGNOSTIC MESSAGES TOGETHER WITH THE TIME AT WHICH THEY TOOK PLACE.

PICTURE SHOWS 6 HEADS VERSION WITH SILK SCREEN



DOUBLE CLICK ON THE **INFO.** TAB TO DISPLAY DETAILS THE LAST THIRTY DIAGNOSTIC MESSAGES TOGETHER WITH THE TIME THEY TOOK PLACE.

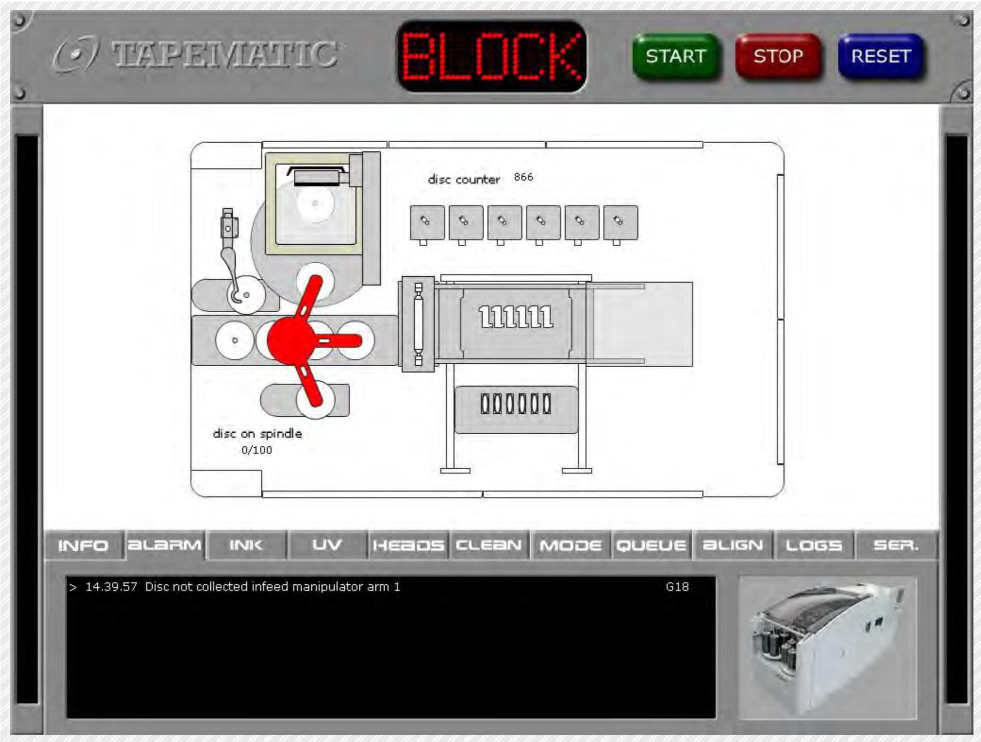
CLICK THE UP AND DOWN ARROWS TO SCROLL THOUGH ALL THE MESSAGE WHICH HAVE TAKEN PLACE DURING THE DAY.

4.02.04 ALARM SCREEN

FROM THE MAIN MENU CLICK THE **ALARM** TAB.

THIS WILL DISPLAY THE LAST NINE ALARMS WITH THEIR IDENTIFICATION NUMBER AND PREFIX '**G**' TOGETHER WITH THE TIME AT WHICH THEY TOOK PLACE.

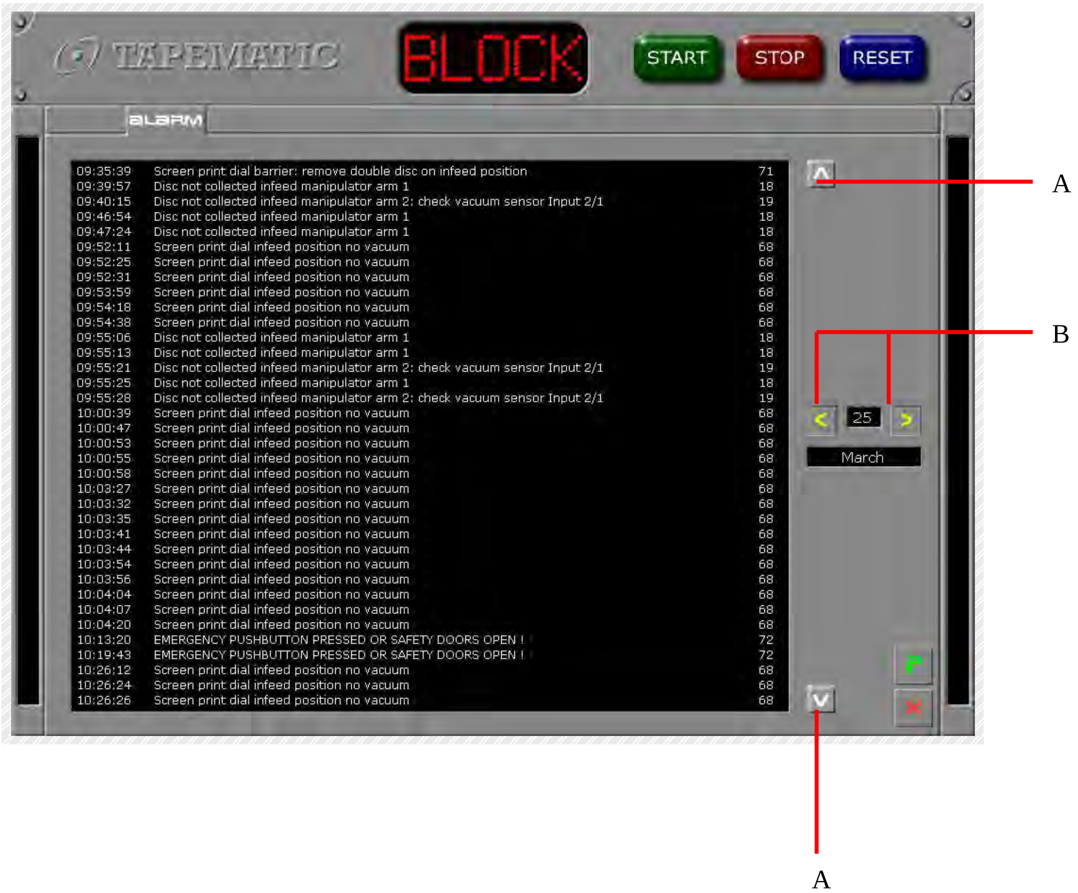
PICTURE SHOWS 6 HEADS VERSION WITH SILK SCREEN



DOUBLE CLICK THE **ALARM** TAB TO DISPLAY IN DETAIL THE LAST THIRTY-FIVE ALARM MESSAGES TOGETHER WITH THE TIME THEY TOOK PLACE.

CLICK ON THE UP AND DOWN ARROWS '**A**' TO SCROLL THOUGH ALL THE MESSAGE WHICH HAVE TAKEN PLACE DURING THE DAY.

TO DISPLAY THE ALARMS WHICH TOOK PLACE IN A DETERMINED DAY CLICK ON THE '**B**' ARROWS TO SELECT THE DAY AND THEN CLICK ON THE GREEN **SAVE** ICON IN THE BOTTOM RIGHT HAND CORNER.



N.B. **WHEN THE FRONT COVER IS OPEN OR THE TWO SPINDLES ARE NOT IN POSITION IT IS NOT POSSIBLE TO RESET THE MACHINE**

(THE RESET BUTTON IS NOT ACTIVE)

4.02.05 INK SCREEN

N.B. USE ONLY INK RECOMMENDED BY TAPEMATIC

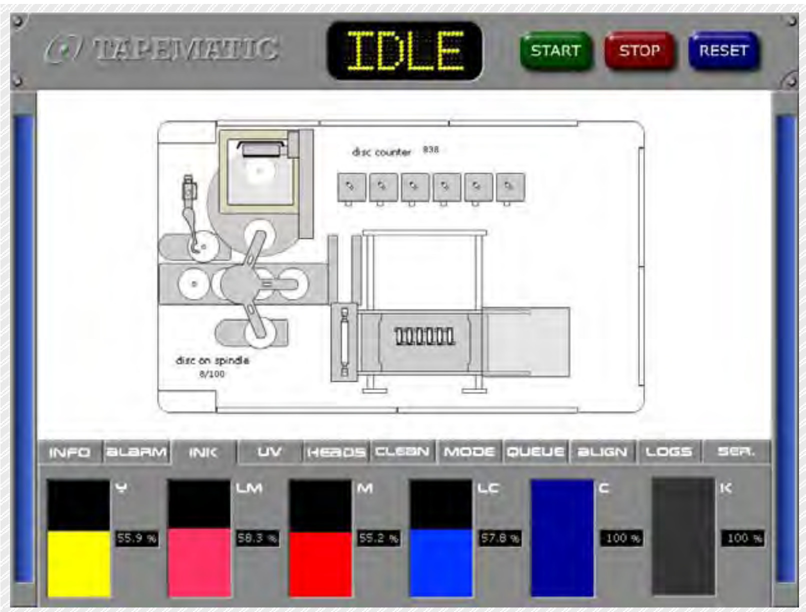
N.B. THE INK IS GUARANTEED BY TAPEMATIC FOR SIX MONTHS FROM THE DATE OF DELIVERY, AS LONG AS THE INK WILL BE STORED AT A TEMPERATURE BETWEEN 10°C & 20°C AND NOT EXPOSED TO A LIGHT SOURCE

FROM THE MAIN MENU CLICK THE **INK** TAB TO VISUALIZE IN PERCENTAGE THE AMOUNT OF INK REMAINING IN THE CONTAINERS, NAMED AS **'BAG IN BOX'.**

100 % = BAG IN BOX FULL

YELLOW	**Y**
LIGHT MAGENTA	**LM**
MAGENTA	**M**
LIGHT CYAN	**LC**
CYAN	**C**
BLACK	**K**

PICTURE SHOWS 6 HEADS VERSION WITH SILK SCREEN

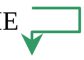


DOUBLE CLICK ON THE **INK** TAB : THIS ENABLES THE INK LEVEL TO BE RESET AND SELECT THE CAPACITY OF THE BAG IN BOX.

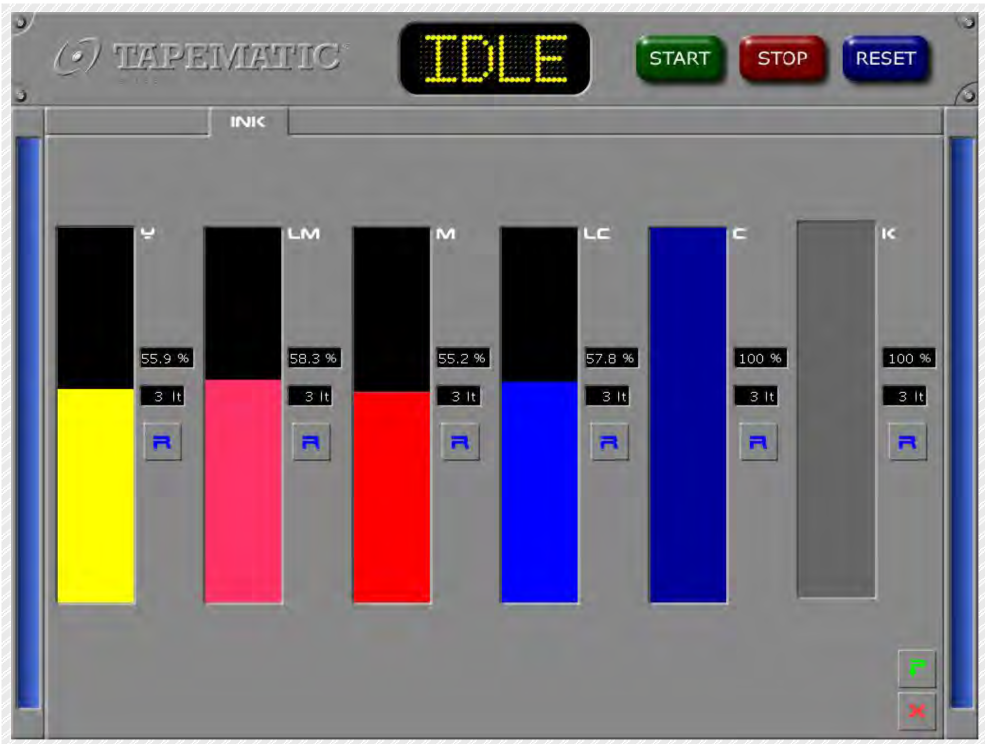
TO RESET THE INK LEVEL CLICK ON THE **'R'** NEXT TO THE COLOUR YOU WISH TO RESET, THEN IN THE WINDOW WHICH WILL APPEAR CLICK **OK** .

100 % = BAG IN BOX FULL

TO CHANGE THE CAPACITY OF THE INK BAG IN BOX, CLICK ON THE CAPACITY WINDOW THEN TYPE IN THE VALVE IN THE WINDOW WHICH WILL APPEAR *(EXAMPLE 1 Lt.)*

FIRST CLICK **OK** , THEN CLICK ON THE  ICON TO CONFIRM AND MEMORIZE THE DATA.

PICTURE SHOWS 6 HEADS VERSION



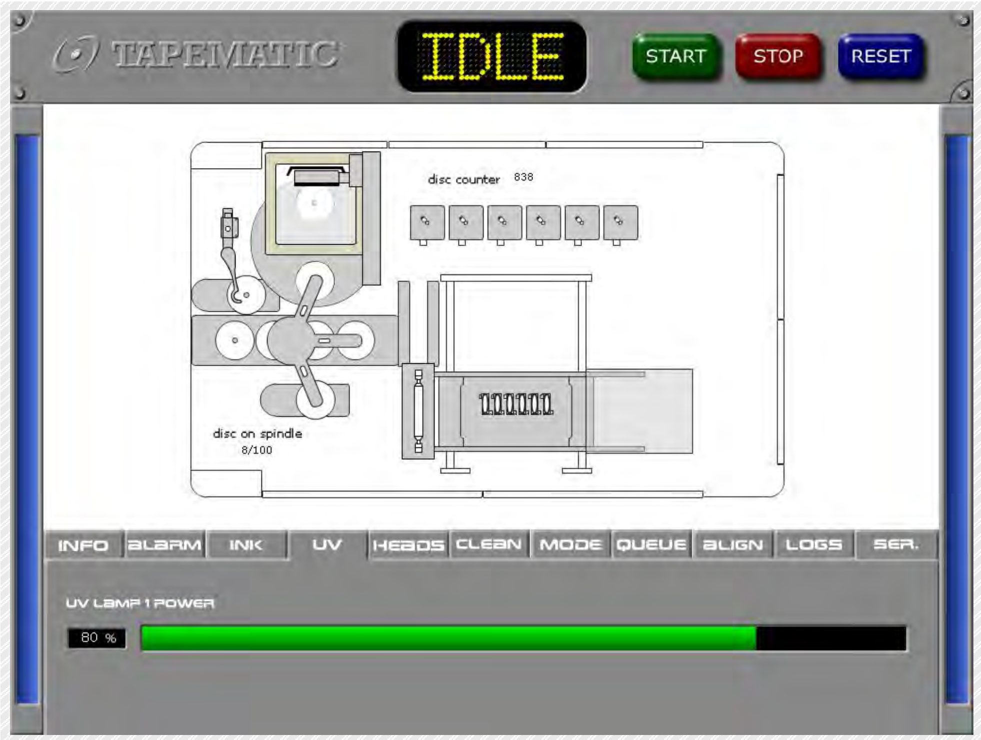
N.B. **TO CHANGE THE PARAMETERS THE MACHINE MUST BE IN 'IDLE' MODE**

4.02.06 UV SCREEN

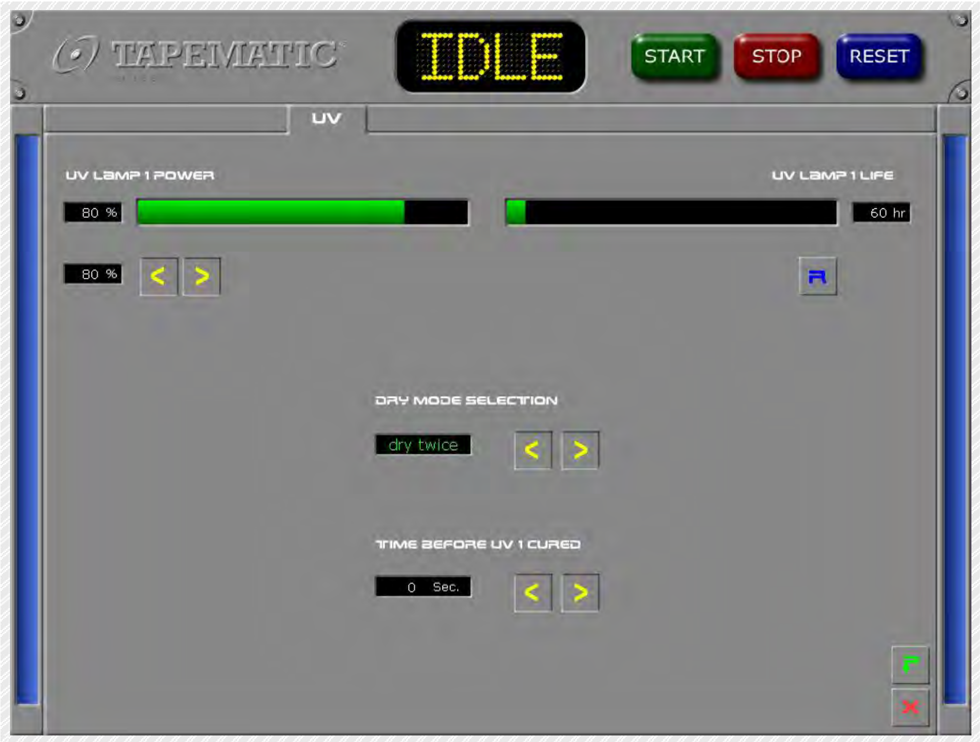
FROM THE MAIN MENU CLICK THE **UV** TAB.

THE GREEN BAR INDICATES THE ACTUAL **UV LAMP POWER** TOGETHER WITH THE VALUE IN A SMALL WINDOW ON THE LEFT EXPRESSED IN PERCENTAGE.

PICTURE SHOWS 6 HEADS VERSION WITH SILK SCREEN



DOUBLE CLICK **UV** TAB TO ENABLE CHANGES TO BE MADE TO THE UV LAMP PARAMETERS.



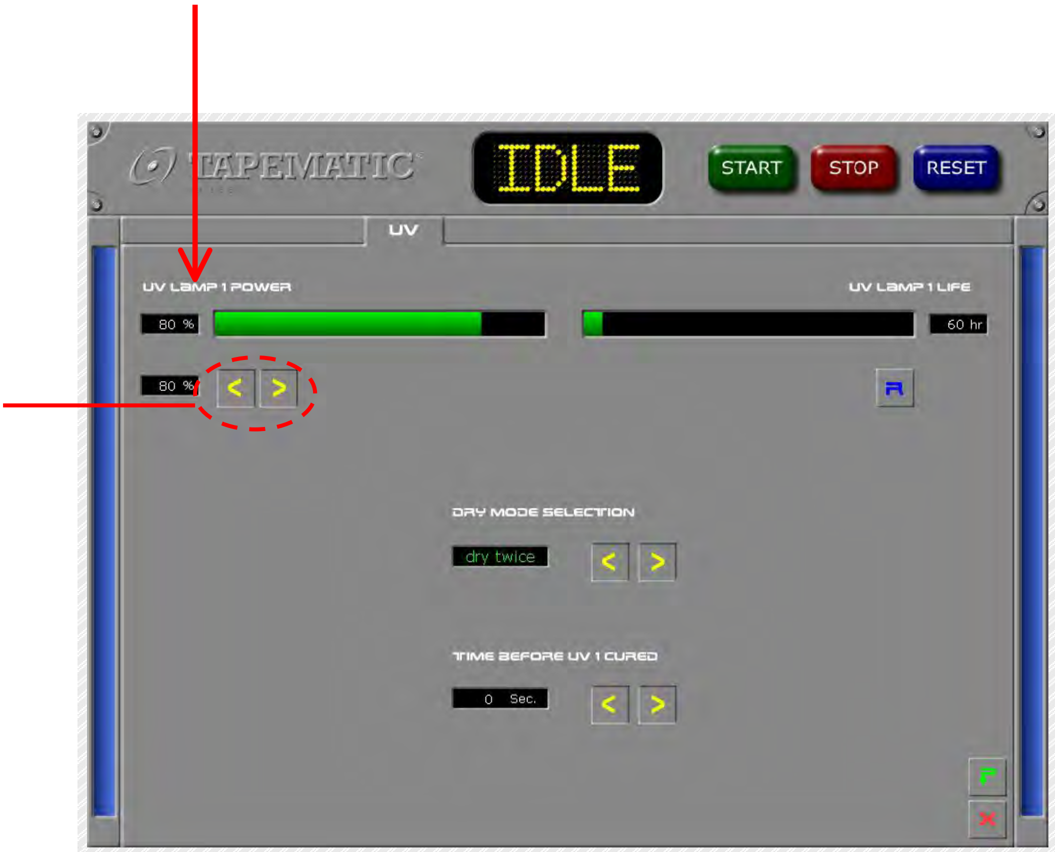
N.B. **TO CHANGE THE PARAMETERS THE MACHINE MUST BE IN 'IDLE' MODE**

UV LAMP POWER

TO SET THE MAXIMUM LEVEL OF THE UV LAMPS CLICK ON THE ‘**A**’ ARROWS OR CLICK ON THE POWER RATING WINDOW, THEN TYPE THE VALUE IN THE WINDOW WHICH WILL APPEAR.

CLICK ON THE ICON TO CONFIRM AND MEMORIZE THE DATA

A



N.B. **THE RECOMMENDED UV POWER FOR AN OPTIMUM CURE OF THE INK IS BETWEEN 80% AND 100%**

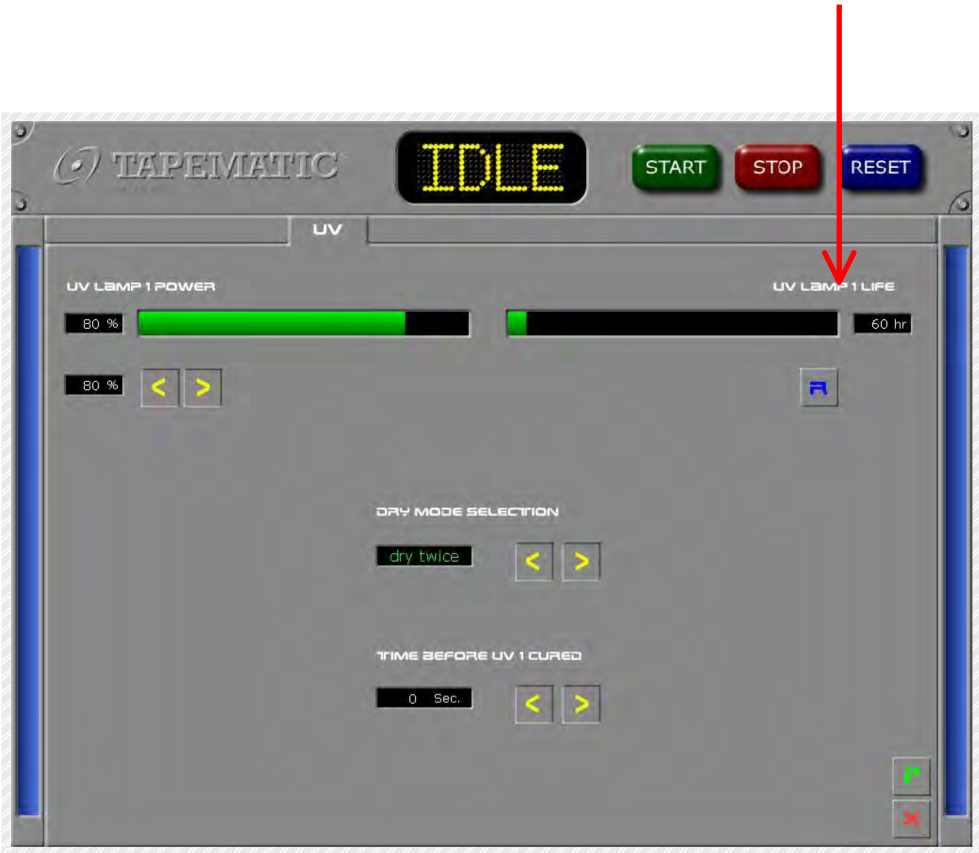
N.B. **TO CHANGE THE PARAMETERS THE MACHINE MUST BE IN ‘IDLE’ MODE**

UV LAMP LIFE

AFTER REPLACING THE UV LAMP IT IS NECESSARY TO RESET THE LAMP LIFE TO ZERO

PRESS THE **'R'** ICON, THEN CLICK **OK** WITHIN THE WINDOW WHICH WILL APPEAR TO CONFIRM AND MEMORIZE THE OPERATION.

(FOR DETAILS ON LAMP CHANGING SEE SECTION 7.02.01)



N.B. **TO CHANGE THE PARAMETERS THE MACHINE MUST BE IN 'IDLE' MODE**

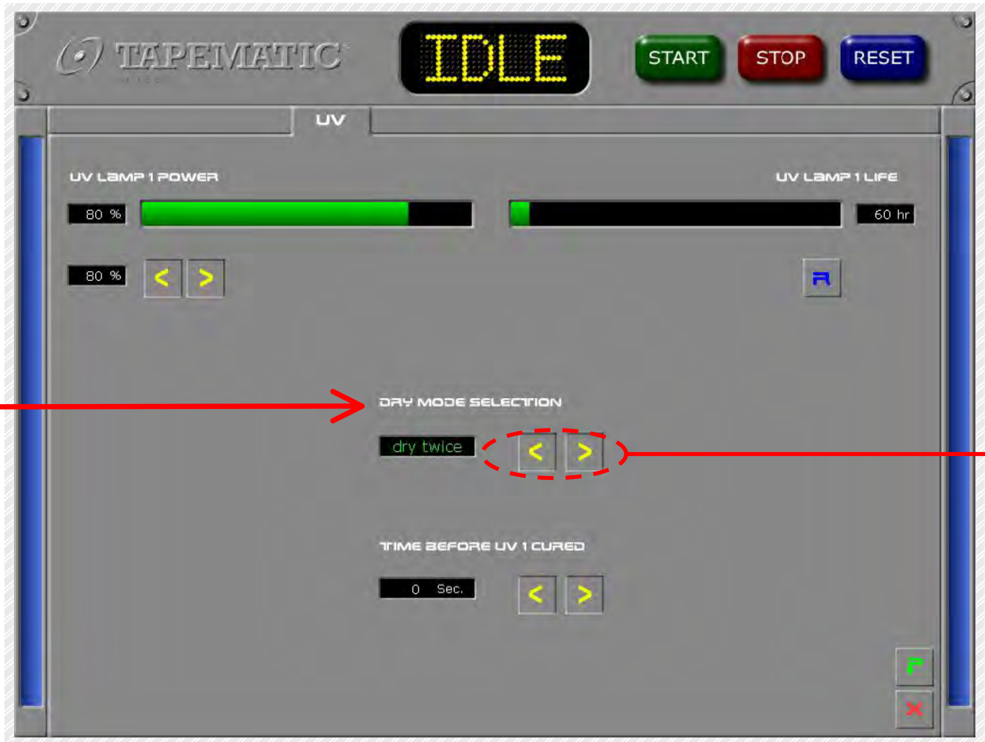
DRY MODE SELECTION

N.B. **THE FINAL PRINT QUALITY IS VERY DEPENDENT UPON THE WHITE INK USE WITHIN THE SILK SCREEN STATION**

N.B. **THE TYPE OF CURING REQUIRED IS VERY CLOSELY CONNECTED WITH THE TYPE OF IMAGE TO BE PRINTED**

THE VARIOUS TYPE OF CURING CAN BE FOUND BY CLICKING ON THE '**B**' ARROWS.

ONCE THE DESIRED TYPE OF CURING IS SELECTED, CLICK ON THE ICON TO CONFIRM AND MEMORIZE THE DATA.



B

N.B. **TO CHANGE THE PARAMETERS THE MACHINE MUST BE IN 'IDLE' MODE**

DRY MODE SELECTIONS

DRY TWICE	**'STANDARD'**	**SUITABLE FOR ALL IMAGES**
DRY ONCE	**'SEMI-GLOSS'**	**SUITABLE FOR MOST IMAGES**
GLOSS DRY	**'GLOSS'**	**NOT SUITABLE FOR ALL IMAGES**

DRY TWICE

THE SHUTTERS REMAIN OPEN WHEN THE PRINTING SHUTTLE ENTERS AND EXITS THE PRINTING TUNNEL.
THE DISC IS EXPOSED TWICE TO THE UV RAYS.
ENABLE THE **PRE-DRYING** METHOD IS OBLIGATORY.

DRY ONCE

THE SHUTTERS REMAIN OPEN WHEN THE PRINTING SHUTTLE EXITS THE PRINT TUNNEL.
THE DISC IS EXPOSED ONCE TO THE UV RAYS.

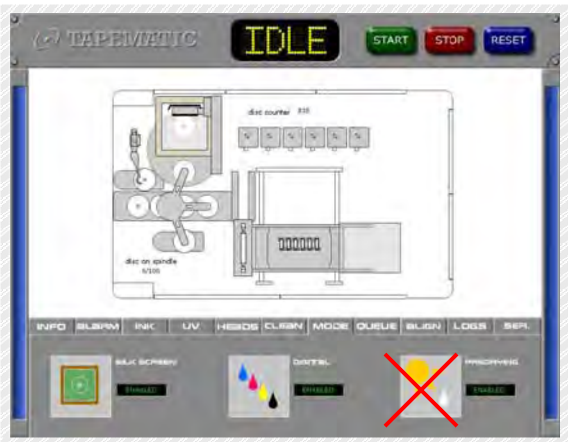
GLOSS DRY

THE DISCS ARE EXPOSED TO THE UV RAYS ONLY ONCE THE PRINTING IS COMPLETED.
THIS TYPE OF CURING IS RECOMMENDED WHEN THE IMAGE CONTAINS SMALL AMOUNTS OF INK.

IT IS RECOMMENDED TO SET THE POWER OF THE LAMP TO **100% .**

THE SET-UP FOR THE '**GLOSS DRY**' METHOD ARE AS FOLLOWS :

SILK SCREEN	**ENABLED**
DIGITAL	**ENABLED**
PRE-DRYING	**DISABLED**



TIME BEFORE UV CURED

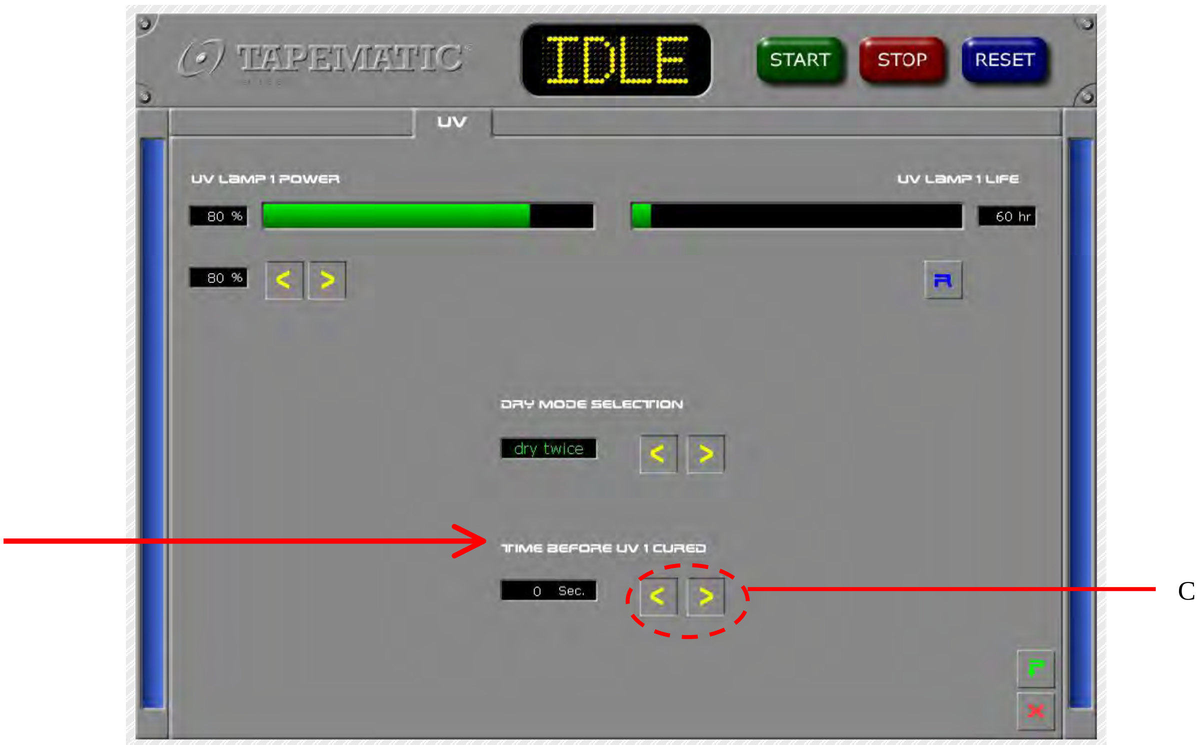
TO SET THE FUNCTION **TIME BEFORE UV CURED** CLICK ON THE **'C'** ARROWS.

SET A VALUE BETWEEN **0.1 sec.** AND **0.5 sec.** (THE MORE DELAY THE HIGHER THE GLOSS).

THEN CLICK THE ICON TO CONFIRM AND MEMORIZE THE OPERATION.

THIS DELAY IS APPLIED TO THE MOVEMENT OF THE PRINTING SHUTTLE PRIOR TO ENTERING THE PRINTING TUNNEL.

THE DELAY INCREASES THE INK SPREAD AND MAKES THE DISCS MORE '**GLOSSY**'.



N.B. **THIS SETTING IS POSSIBLE ONLY IF "DRY TWICE" IS SELECTED**

N.B. **THIS TYPE OF CURING IS NOT SUITABLE FOR ALL TYPES OF IMAGES**

N.B. **TO CHANGE THE PARAMETERS THE MACHINE MUST BE IN 'IDLE' MODE**

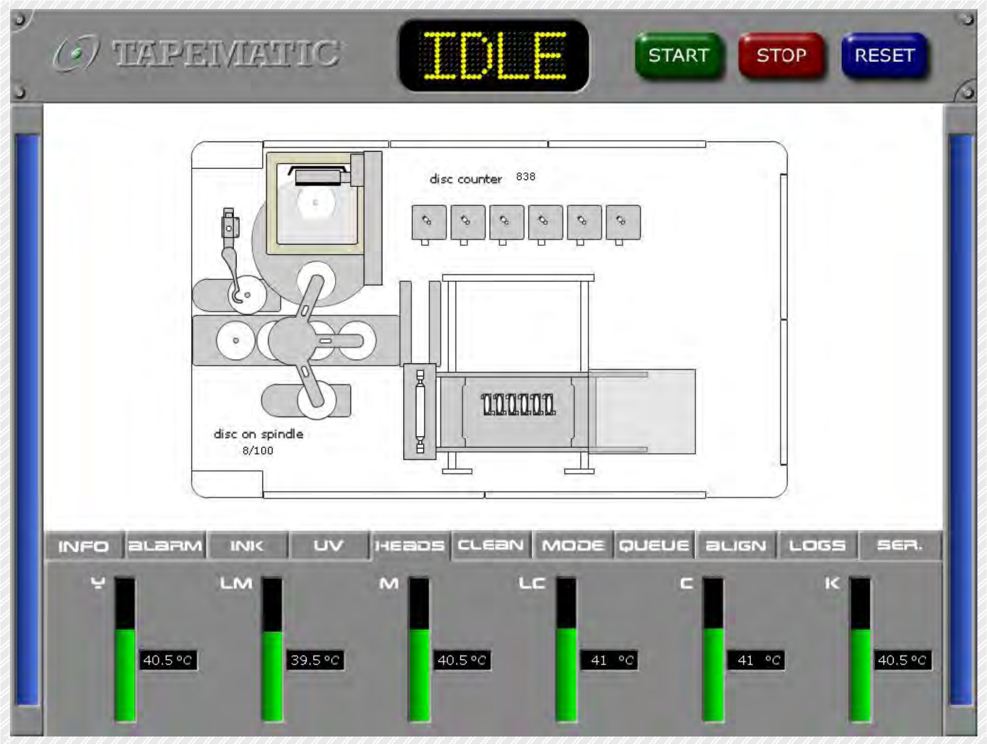
4.02.07 HEADS SCREEN

FROM THE MAIN MENU SELECT THE **HEADS** TAB.

THIS PAGE INDICATES THE HEAD TEMPERATURE SETTINGS.

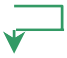
YELLOW	**Y**
LIGHT MAGENTA	**LM**
MAGENTA	**M**
LIGHT CYAN	**LC**
CYAN	**C**
BLACK	**K**

PICTURE SHOWS 6 HEADS VERSION WITH SILK SCREEN

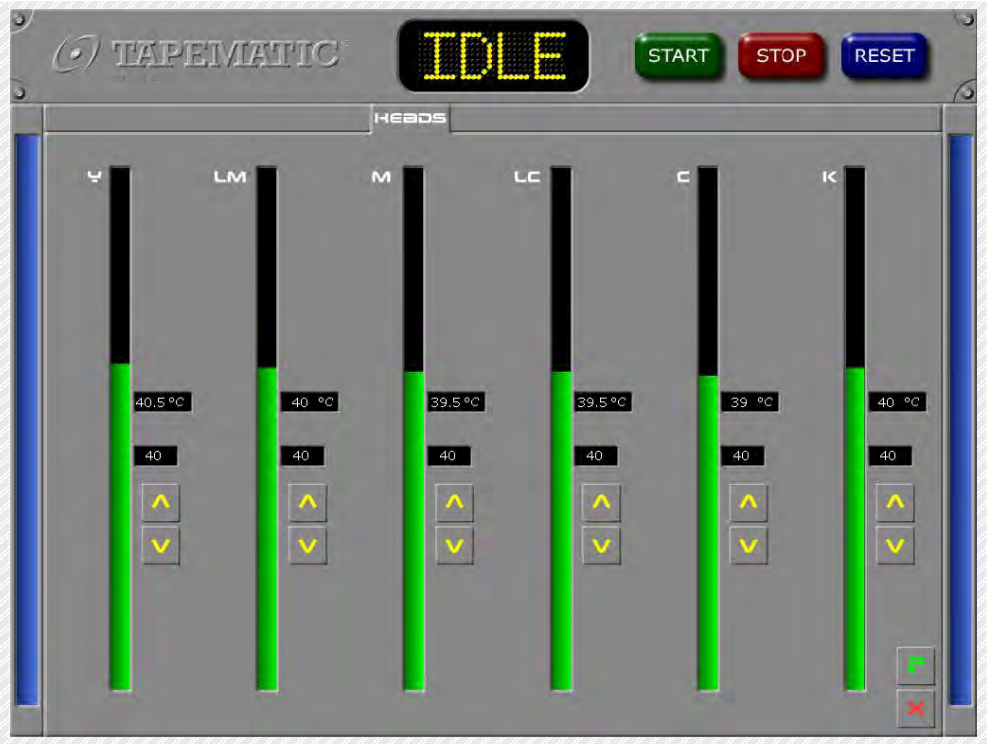


DOUBLE CLICK THE **HEADS** TAB TO ALLOWS THE HEAD TEMPERATURE TO BE CHANGED.

TO CHANGE THE TEMPERATURE CLICK ON THE YELLOW UP AND DOWN ARROWS CORRESPONDING THE HEAD TO BE CHANGED.

CLICK ON THE GREEN  ICON TO CONFIRM AND MEMORIZE THE NEW SETTING.

PICTURE SHOWS 6 HEADS VERSION



N.B. **THE CORRECT SETTING IS BETWEEN 40°C & 42°C**

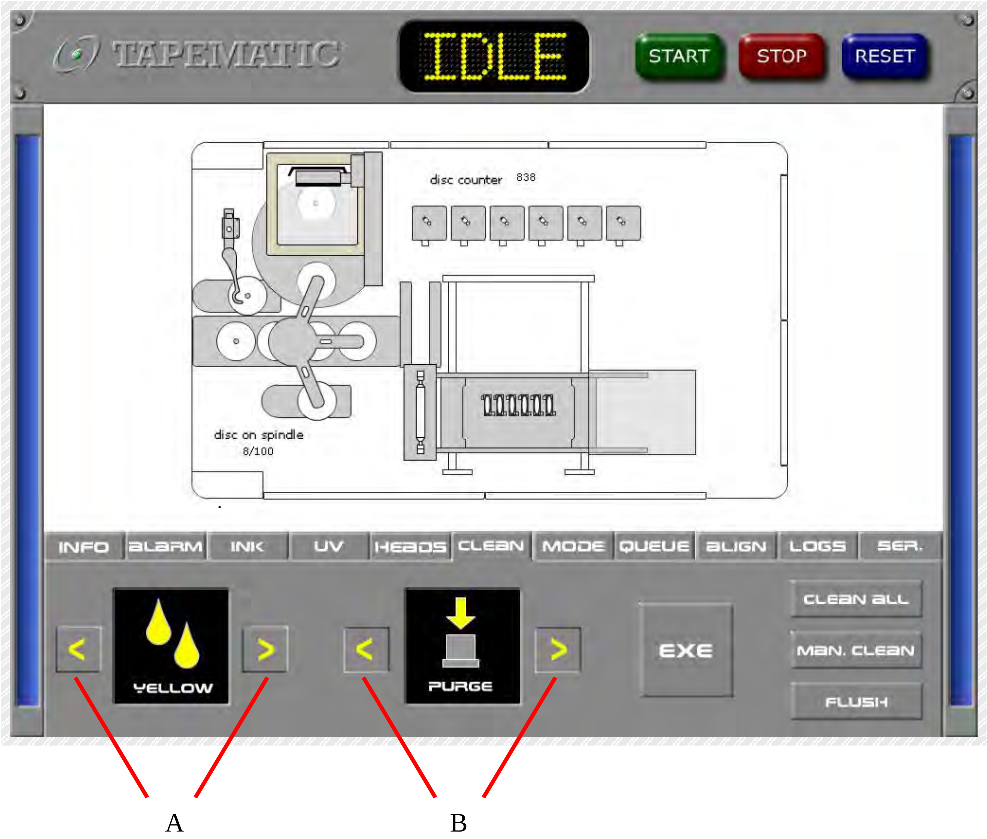
IT IS NOT RECOMMENDED TO CHANGE THE HEAD TEMPERATURE UNLESS ADVISED TO DO SO BY A TAPEMATIC ENGINEER

N.B. **TO CHANGE THE PARAMETERS THE MACHINE MUST BE IN 'IDLE' MODE**

4.02.08 CLEAN SCREEN ("software" head cleaning)

CLICK THE **CLEAN** TAB TO CLEAN THE INKJET HEADS VIA SOFTWARE.

PICTURE SHOWS 6 HEADS VERSION WITH SILK SCREEN



N.B. **HEAD CLEANING MUST BE CARRIED OUT USING THE 'FLUSHING SOLUTION' , 'WIPES' AND 'SWABS' SUPPLIED BY TAPEMATIC.**

USE OF ANY OTHER MATERIAL MAY CAUSE IRREVERSIBLE DAMAGE TO THE INKJET HEADS

N.B. **THE ONLY OPERATION OF AUTOMATIC HEAD CLEANING THAT SHOULD BE USED REGULARLY IS 'PURGE'.**

THE OTHER METHODS SHOULD ONLY BE USED WHEN REQUESTED BY A TAPEMATIC ENGINEER

N.B. **HEAD CLEANING MUST BE CARRIED OUT ONLY WHEN THE MACHINE IS IN 'IDLE' MODE.**

THE HEADS GROUP MUST BE IN CLEANING POSITION

PURGE – STANDARD LEVEL

N.B. **THIS METHOD OF CLEANING IS RECOMMENDED WHEN THERE IS NO INK PRESENT ON THE NOZZLES, THERE IS AIR WITHIN THE INK CIRCUIT AND FOR DAILY HEADS CLEANING**

SELECTING **PURGE** WILL CAUSE AN AIR PRESSURE ON THE INK BUFFER MEMBRANE : INK WILL FLOW THROUGH THE HEAD INTO THE RE-CYCLING INK BOTTLE.

CLICK ON THE '**A**' ARROWS TO SELECT THE HEAD TO BE PURGED.

CLICK ON THE '**B**' ARROWS TO SELECT **PURGE**.

NOW CLICK ON THE **EXE** ICON TO EXECUTE THE OPERATION: DURING THE OPERATION THE **EXE** ICON WILL FLASH RED AND THE **MAN. CLEAN** ICON WILL BE ALIGHT.

ONCE THE **EXE** WINDOW STOPS FLASHING, THE INK WELLS PLATE WILL MOVE DOWN TO AID THE OPERATOR TO CARRY OUT A MANUAL CLEANING OF THE HEAD WHICH HAS BEEN PURGED.

PUT ON LATEX GLOVES, SOAK THE SWAB IN 'FLUSHING SOLUTION' THEN WIPE THE NOZZLES AREA FROM BACK TO FRONT OF THE HEAD (**Y** AXIS DIRECTION).

FOLD A WIPE TO FORM AN 'n' , DO NOT WET WITH FLUSHING SOLUTION, THEN USING THE TOP OF THE 'n' TAMPON VERY CAREFULLY AND DELICATELY THE NOZZLES AREA TO REMOVE ANY EXCESSIVE INK.

IF NECESSARY REPEAT THIS PROCEDURE A NUMBER OF TIMES ALWAYS USING NEW CLEAN SWABS AND WIPES UNTIL THE NOZZLES AREA IS CLEAN AND FREE OF EXCESS INK (A SMALL TORCH IS USEFUL TO SEE THE HEAD UNDERSIDE VERY WELL).

MAKE SURE NOTHING TOUCHES THE HEAD EXCEPT SWABS AND WIPES.

UPON CONCLUSION CLICK THE **MAN. CLEAN** : THE INK WELLS PLATE WILL MOVE UP TO PROTECT THE HEAD UNDERSIDE.

N.B. **DO NOT TOUCH, LOOSEN OR REMOVE THE HEAD FIXING SCREWS AS TO DO SO WILL MISALIGN THE IMAGE**

N.B. **AFTER CARRYING OUT THESE OPERATIONS IT IS HIGHLY RECOMMENDED TO LEAVE THE MACHINE IN 'STOP' FOR ABOUT FIVE MINUTES TO ALLOW THE AUTOMATIC 'FLUSHING SEQUENCE' TO COMMENCE**

VACUUM – HIGH LEVEL

N.B. THIS METHOD OF CLEANING IS RECOMMENDED WHEN LARGE AMOUNTS OF AIR IS PRESENT IN THE INK CIRCUIT

SELECTING **VACUUM** INK WILL BE SUCKED FROM THE HEAD BY VACUUM PASSING THROUGH THE INK WELL : INK WILL FLOW THROUGH THE HEAD INTO THE RE-CYCLING BOTTLE.

CLICK ON THE ‘**A**’ ARROWS TO SELECT THE HEAD TO BE VACUUMED.

CLICK ON THE ‘**B**’ ARROWS TO SELECT **VACUUM.**

NOW CLICK ON THE **EXE** ICON TO EXECUTE THE OPERATION: DURING THE OPERATION THE **EXE** ICON WILL FLASH RED AND THE **MAN. CLEAN** ICON WILL BE ALIGHT.

ONCE THE **EXE** WINDOW STOPS FLASHING, THE INK WELLS PLATE WILL MOVE DOWN TO AID THE OPERATOR TO CARRY OUT A <u>MANUAL CLEANING</u> OF THE HEAD WHICH HAS BEEN VACUUMED.

PUT ON LATEX GLOVES, SOAK THE SWAB IN ‘FLUSHING SOLUTION’ THEN WIPE THE NOZZLES AREA FROM BACK TO FRONT OF THE HEAD (**Y** AXIS DIRECTION).

FOLD A WIPE TO FORM AN ‘n’ , <u>DO NOT WET WITH FLUSHING SOLUTION</u>, THEN USING THE TOP OF THE ‘n’ TAMPON VERY CAREFULLY AND DELICATELY THE NOZZLES AREA TO REMOVE ANY EXCESSIVE INK.

IF NECESSARY REPEAT THIS PROCEDURE A NUMBER OF TIMES ALWAYS USING NEW CLEAN SWABS AND WIPES UNTIL THE NOZZLES AREA IS CLEAN AND FREE OF EXCESS INK (A SMALL TORCH IS USEFUL TO SEE THE HEAD UNDERSIDE VERY WELL).

MAKE SURE NOTHING TOUCHES THE HEAD EXCEPT SWABS AND WIPES.

UPON CONCLUSION CLICK THE **MAN. CLEAN** : THE INK WELLS PLATE WILL MOVE UP TO PROTECT THE HEAD UNDERSIDE.

N.B. DO NOT TOUCH, LOOSEN OR REMOVE THE HEAD FIXING SCREWS AS TO DO SO WILL MISALIGN THE IMAGE

N.B. AFTER CARRYING OUT THESE OPERATIONS IT IS HIGHLY RECOMMENDED TO LEAVE THE MACHINE IN ‘STOP’ FOR ABOUT FIVE MINUTES TO ALLOW THE AUTOMATIC ‘FLUSHING SEQUENCE’ TO COMMENCE

FILL – SPECIAL LEVEL

N.B. **FILL IS RECOMMENDED WHEN A NEW HEAD OR BUFFER HAS BEEN REPLACED**

THIS METHOD SHOULD BE USED WHEN THE MACHINE IS BEING SWITCH 'ON' FOR THE FIRST TIME OR AFTER REPLACING A HEAD OR BUFFER.
FILL WILL ALLOW INK TO FLOW FROM THE 'BAG IN BOX' THROUGH TO THE HEAD FILLING ALL INK CIRCUIT.

AUTOMATICALLY THE INK SUPPLY VALVE WILL BE CLOSED CAUSING VACUUM TO BE CREATED IN THE CIRCUIT.
THE INK VALVE WILL THEN OPEN CAUSING INK TO FLOW FROM THE 'BAG IN BOX' THROUGH TO THE HEAD.

CLICK ON THE '**A**' ARROWS TO SELECT THE HEAD TO BE FILLED.

CLICK ON THE '**B**' ARROWS TO SELECT **FILL.**

NOW CLICK ON THE **EXE** ICON TO EXECUTE THE OPERATION: DURING THE OPERATION THE **EXE** ICON WILL FLASH RED AND THE **MAN. CLEAN** ICON WILL BE ALIGHT.

ONCE THE **EXE** WINDOW STOPS FLASHING, THE INK WELLS PLATE WILL MOVE DOWN TO AID THE OPERATOR TO CARRY OUT A MANUAL CLEANING OF THE HEAD WHICH HAS BEEN FILLED.

PUT ON LATEX GLOVES, SOAK THE SWAB IN 'FLUSHING SOLUTION' THEN WIPE THE NOZZLES AREA FROM BACK TO FRONT OF THE HEAD (**Y** AXIS DIRECTION).
FOLD A WIPE TO FORM AN 'n' , DO NOT WET WITH FLUSHING SOLUTION, THEN USING THE TOP OF THE 'n' TAMPON VERY CAREFULLY AND DELICATELY THE NOZZLES AREA TO REMOVE ANY EXCESSIVE INK.

IF NECESSARY REPEAT THIS PROCEDURE A NUMBER OF TIMES ALWAYS USING NEW CLEAN SWABS AND WIPES UNTIL THE NOZZLES AREA IS CLEAN AND FREE OF EXCESS INK (A SMALL TORCH IS USEFUL TO SEE THE HEAD UNDERSIDE VERY WELL).

MAKE SURE NOTHING TOUCHES THE HEAD EXCEPT SWABS AND WIPES.

UPON CONCLUSION CLICK THE **MAN. CLEAN** : THE INK WELLS PLATE WILL MOVE UP TO PROTECT THE HEAD UNDERSIDE.

N.B. **DO NOT TOUCH, LOOSEN OR REMOVE THE HEAD FIXING SCREWS AS TO DO SO WILL MISALIGN THE IMAGE**

N.B. **AFTER CARRYING OUT THESE OPERATIONS IT IS HIGHLY RECOMMENDED TO LEAVE THE MACHINE IN 'STOP' FOR ABOUT FIVE MINUTES TO ALLOW THE AUTOMATIC 'FLUSHING SEQUENCE' TO COMMENCE**

FLUSH

FLUSH IS AN AUTOMATIC CYCLE FOR ALL HEADS WHERE EACH NOZZLE IS ‘FIRED’ VERY BRIEFLY.

TO CARRY OUT A MANUAL FLUSH, CLICK ON THE **MAN. CLEAN** ICON THEN CLICK THE **FLUSH** ICON.
A WINDOW WILL APPEAR : TYPE IN THE NUMBER OF ‘FLUSH CYCLES’ YOU WISH TO PERFORM.

WHEN THE OPERATION HAS TERMINATED, DISABLE THE **MAN. CLEAN** .

N.B. **DO NOT TOUCH, LOOSEN OR REMOVE THE HEAD FIXING SCREWS AS TO DO SO WILL MISALIGN THE IMAGE**

N.B. **AFTER CARRYING OUT THESE OPERATIONS IT IS HIGHLY RECOMMENDED TO LEAVE THE MACHINE IN ‘STOP’ FOR ABOUT FIVE MINUTES TO ALLOW THE AUTOMATIC ‘FLUSHING SEQUENCE’ TO COMMENCE**

CLEAN ALL

CLICKING THE **CLEAN ALL** ICON WILL START AN AUTOMATIC CLEANING SEQUENCE OF ALL HEADS.
AIR PRESSURE APPLIED TO THE MEMBRANES WITHIN THE BUFFERS WILL CAUSE INKS TO FLOW FROM THE BUFFERS THOUGHT THE HEADS AND INTO THE INK RE-CYCLING BOTTLES.

THE INK WELLS PLATE WILL MOVE DOWN, THE ICON **CLEAN ALL** WILL FLASH RED AND THE **MAN. CLEAN** ICON WILL ALIGHT.

ONCE THE CYCLE HAS TERMINATED THE **CLEAN ALL** ICON WILL STOP FLASHING AND THE INK WELLS PLATE WILL MOVE DOWN TO AID THE OPERATOR TO CARRY OUT A MANUAL CLEANING OF ALL HEADS.

PUT ON LATEX GLOVES, SOAK THE SWAB IN 'FLUSHING SOLUTION' THEN WIPE THE NOZZLES AREA FROM BACK TO FRONT OF THE HEAD (**Y** AXIS DIRECTION).

FOLD A WIPE TO FORM AN 'n' , DO NOT WET WITH FLUSHING SOLUTION, THEN USING THE TOP OF THE 'n' TAMPON VERY CAREFULLY AND DELICATELY THE NOZZLES AREA TO REMOVE ANY EXCESSIVE INK.

IF NECESSARY REPEAT THIS PROCEDURE A NUMBER OF TIMES ALWAYS USING NEW CLEAN SWABS AND WIPES UNTIL THE NOZZLES AREA IS CLEAN AND FREE OF EXCESS INK (A SMALL TORCH IS USEFUL TO SEE THE HEAD UNDERSIDE VERY WELL).

MAKE SURE NOTHING TOUCHES THE HEAD EXCEPT SWABS AND WIPES.

UPON CONCLUSION CLICK THE **MAN. CLEAN** : THE INK WELLS PLATE WILL MOVE UP TO PROTECT THE HEAD UNDERSIDE

N.B. **DO NOT TOUCH, LOOSEN OR REMOVE THE HEAD FIXING SCREWS AS TO DO SO WILL MISALIGN THE IMAGE**

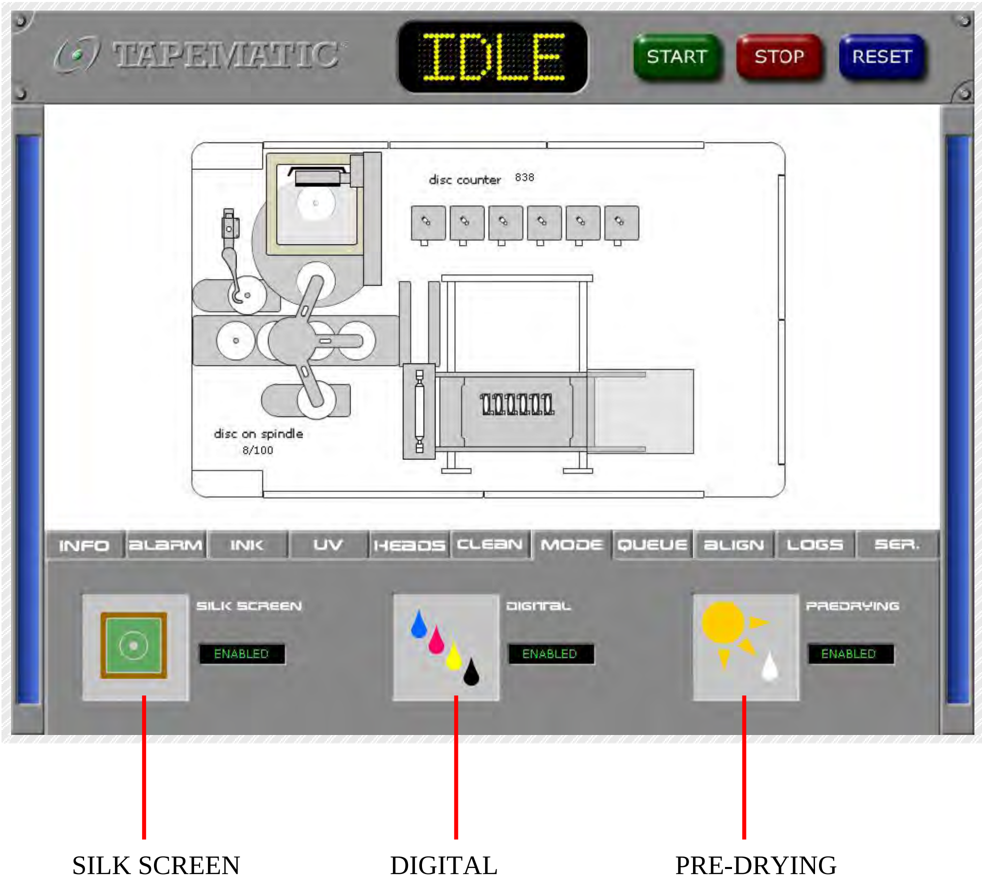
N.B. **AFTER CARRYING OUT THESE OPERATIONS IT IS HIGHLY RECOMMENDED TO LEAVE THE MACHINE IN 'STOP' FOR ABOUT FIVE MINUTES TO ALLOW THE AUTOMATIC 'FLUSHING SEQUENCE' TO COMMENCE**

N.B. **FOR THE MANUAL HEADS CLEANING PROCEDURE SEE SECTION 7.01.03**

4.02.09 MODE SCREEN

FROM THE MAIN MENU CLICK ON THE **MODE** TAB TO SELECT THE METHOD OF PRINTING.

PICTURE SHOWS 6 HEADS VERSION WITH SILK SCREEN



N.B. **TO CHANGE THE PARAMETERS THE MACHINE MUST BE IN 'IDLE' MODE**

SILK SCREEN

CLICK ON THE **SILK SCREEN** ICON AND SELECT **ENABLED** : THE ICON WILL ALIGHT AND THE SILK SCREEN STATION WILL FUNCTION NORMALLY.

CLICK ON THE **SILK SCREEN** ICON AND SELECT **DISABLED** : THE ICON WILL GO OFF AND THE SILK SCREEN STATION WILL BE INACTIVE
(USED WHEN NOT MOUNTED AS OPTIONAL).

CLICK ON THE **SILK SCREEN** ICON AND SELECT **DRY RUN** : THE DISC WILL ENTER THE SILK SCREEN STATION BUT WILL BE NOT PRINTED.

DIGITAL

CLICK ON THE **DIGITAL** ICON AND SELECT **ENABLED** : THE ICON WILL ALIGHT AND THE DIGITAL PRINT STATION WILL FUNCTION NORMALLY.

CLICK ON THE **DIGITAL** ICON AND SELECT **DISABLED** : THE ICON WILL GO OFF AND THE DIGITAL PRINT STATION WILL BE INACTIVE.

PRE-DRYING

CLICK ON THE **PRE-DRYING** ICON AND SELECT **ENABLED** : THE ICON WILL ALIGHT AND PRE-DRYING MODE WILL FUNCTION NORMALLY.

CLICK ON THE **PRE-DRYING** ICON AND SELECT **DISABLED** : THE ICON WILL GO OFF AND PRE-DRYING MODE WILL BE INACTIVE.

PRE-DRYING MODE ENABLE DISCS PASSING UNDER THE UV LAMP TO DRY THE ‘WHITE FLOOD’ PRIOR TO DIGITALLY PRINTING.

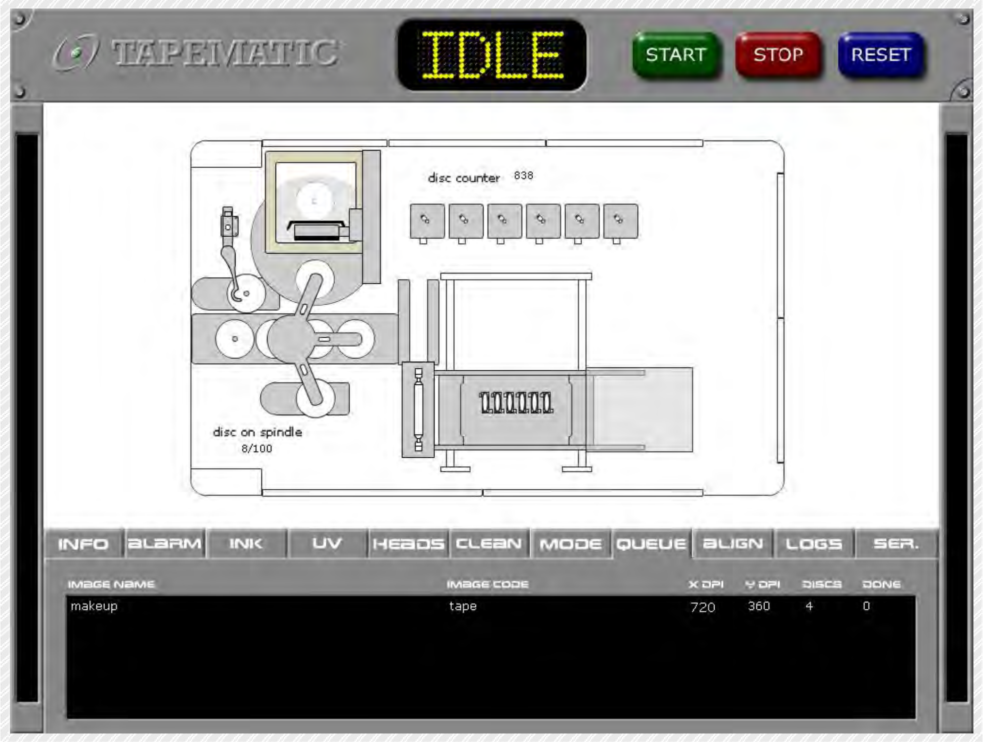
PRE-DRYING IS OBLIGATORY IF THE MACHINE IS USED ONLY TO PRINT THE ‘WHITE FLOOD’ WITH **DIGITAL** MODE DISABLED.

4.02.10 QUEUE SCREEN

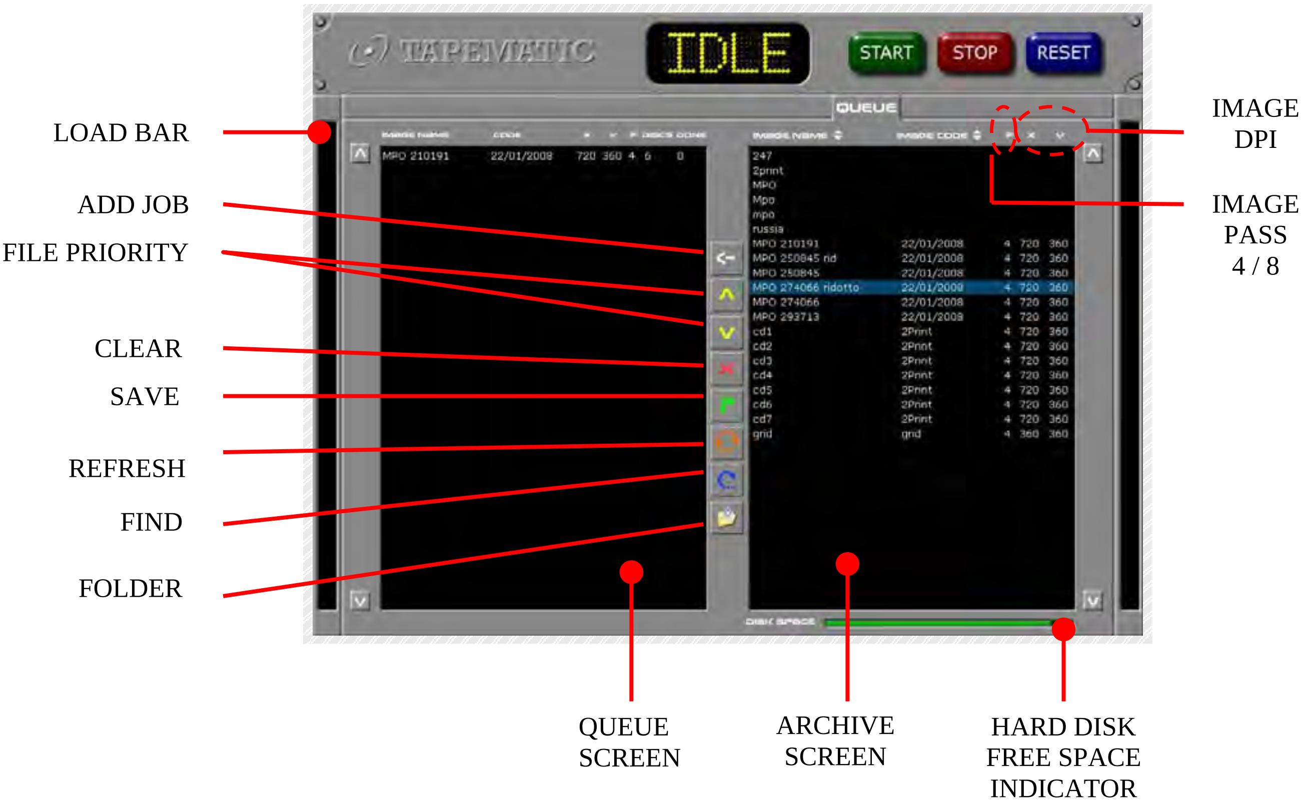
FROM THE MAIN MENU SELECT THE **QUEUE** TAB TO DISPLAY THE INFORMATION REGARDING THE IMAGES LOADED READY FOR PRINTING.

IMAGE NAME
IMAGE CODE
X DPI
Y DPI
DISCS
DONE

PICTURE SHOWS 6 HEADS VERSION WITH SILK SCREEN



DOUBLE CLICK THE **QUEUE** TAB TO DISPLAY ALL OF THE IMAGES IN THE ACHIEVE AND SELECT IMAGES TO BE PRINTED.



N.B. **TO LOAD AN IMAGE TO PRINT, FOLLOW THE INSTRUCTIONS IN SECTION 3.02.01**

LOAD BAR

INDICATES THE PROGRESS OF LOADING THE IMAGE INTO THE HEAD MEMORY BOXES.

ADD JOB

TO ADD A JOB TO BE PRINTED TO THE QUEUE, SELECT THE FILE FROM THE **ARCHIVE SCREEN,** CLICK ON THE IMAGE NAME AND IT WILL BECOME BLUE.
CLICK ON **ADD JOB** : IN THE WINDOW WHICH WILL APPEAR, DIGIT THE QUANTITY TO RUN AND CLICK **OK.**
THEN CLICK **SAVE** TO CONFIRM AND MEMORIZE THE OPERATION.

FILE PRIORITY

IN THE **QUEUE SCREEN** SELECT THE IMAGE YOU WISH TO CHANGE THE PRINTING PRIORITY.
CLICK ON THE UP & DOWN ARROWS AND MOVE THE IMAGE INTO THE DESIRED POSITION.
CLICK THE **SAVE** ICON TO CONFIRM AND MEMORIZE THE OPERATION.

CLEAR

TO CANCEL AN IMAGE FROM THE **ARCHIVE SCREEN** or **QUEUE SCREEN,** CLICK ON THE IMAGE NAME AND IT WILL HIGHLIGHTED IN BLUE.
CLICK THE **CLEAR** ICON FOLLOWED BY **OK.**
CLICK **SAVE** TO CANCEL THE IMAGE FROM THE LIST.

SAVE

CLICK THE **SAVE** ICON TO CONFIRM AND MEMORIZE THE OPERATIONS CARRIED OUT.

REFRESH

AFTER RIPPING SOME IMAGES AND DOWNLOADING TO THE **2Print-mini** COMPUTER, IT IS NECESSARY TO CARRY OUT A **REFRESH** TO ENABLE AN UPDATE OF THE **ARCHIVE SCREEN** AND DISPLAY THE NEW IMAGES WITHIN THE LIST.

FIND

THE **FIND** ICON ENABLES AN IMAGE TO BE FOUND WITHIN THE **ARCHIVE SCREEN**.
IN THE WINDOW WHICH WILL APPEAR, DIGIT THE NAME OF THE IMAGE TO BE FOUND, THEN
CLICK THE **SAVE** ICON TO CONFIRM AND MEMORIZE THE OPERATION.
THE LARGE BLACK SQUARE WILL DISPLAY ALL OF THE IMAGES WITH THE NAME THAT HAS BEEN SEARCHED.
FROM THAT LIST, CLICK ON THE IMAGE NAME YOU WISH TO RE-CALL AND IT WILL BE HIGHLIGHTED IN BLUE.
CLICK THE **ADD JOB** ICON AND ADD THE QUANTITY TO RUN.
CLICK **OK** THEN CLICK THE **SAVE** ICON TO CONFIRM AND MEMORIZE THE OPERATION.

FOLDER

N.B. **IN THE 'ARCHIVE SCREEN' THE TITLE WHICH ARE ONLY NAMES WITHOUT ANY OTHER INFORMATION ARE NOT IMAGES BUT FOLDERS**

MOVING AN IMAGE INTO AN 'EXISTING FOLDER'

SELECT THE IMAGE TO BE MOVED WITHIN AN EXISTING FOLDER: THE TITLE WILL BE HIGHLIGHTED BLUE.
CLICK ON THE **FOLDER** ICON: WITHIN THE WINDOW WHICH WILL APPEAR DIGIT THE NAME OF THE EXISTING HOLDER AND CLICK **OK.**
OPEN THAT FOLDER AND CONTROL THE IMAGE IS THERE.

CREATING A 'NEW FOLDER' AND MOVING AN IMAGE

SELECT THE IMAGE TO BE MOVED WITHIN AN NEW FOLDER: THE TITLE WILL BE HIGHLIGHTED BLUE.
CLICK ON THE **FOLDER** ICON: WITHIN THE WINDOW WHICH WILL APPEAR DIGIT THE NAME OF THE NEW FOLDER AND CLICK **OK.**
OPEN THAT FOLDER AND CONTROL THE IMAGE IS THERE.

REMOVING AN IMAGE FROM A FOLDER

OPEN THE FOLDER AND SELECT THE IMAGE TO BE MOVED.
CLICK THE **FOLDER** ICON: IN THE SMALL BLACK WINDOW WHICH WILL APPEAR LEAVE BLANK AND CLICK **OK.**
CHECK THAT THE IMAGE APPEARS IN THE **ARCHIVE SCREEN.**

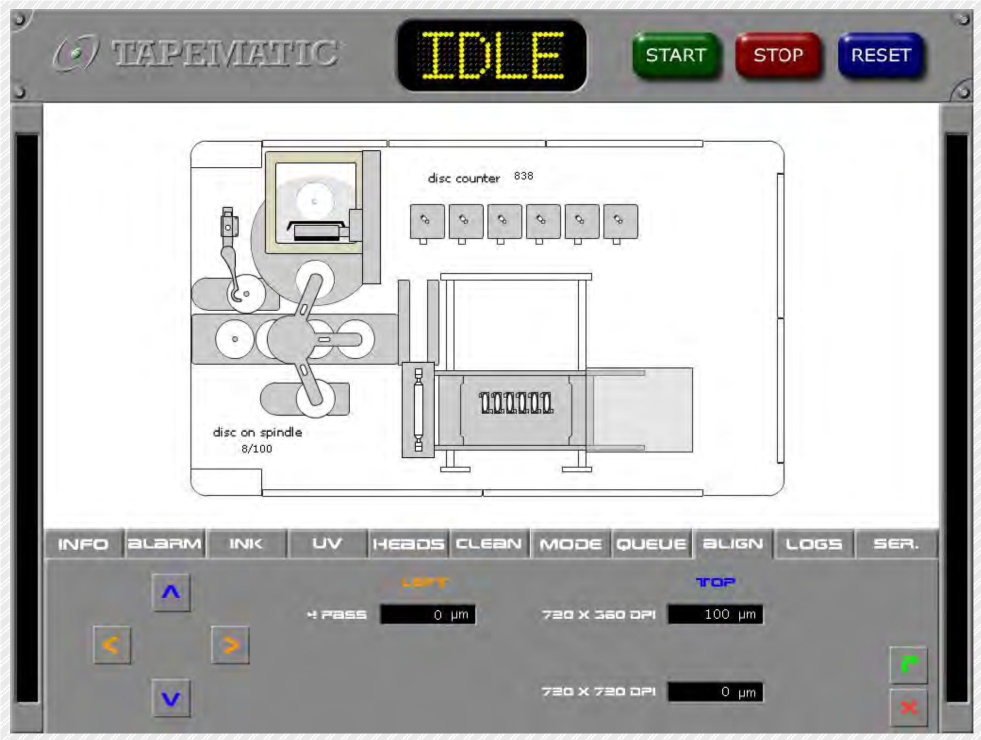
N.B. **CLICKING ON 'IMAGE NAME' WITHIN THE 'ARCHIVE SCREEN' WILL DISPLAY THE LIST IN 'NAME ORDER'**

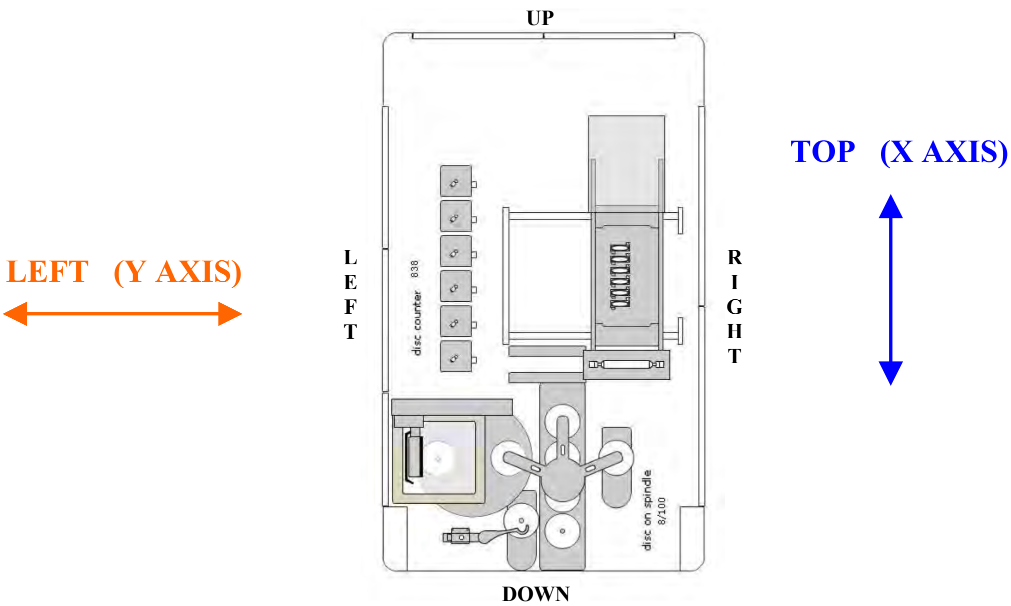
N.B. **CLICKING ON 'IMAGE CODE' WITHIN THE 'ARCHIVE SCREEN' WILL DISPLAY THE LIST IN 'CODE ORDER'**

4.02.11 ALIGN. SCREEN

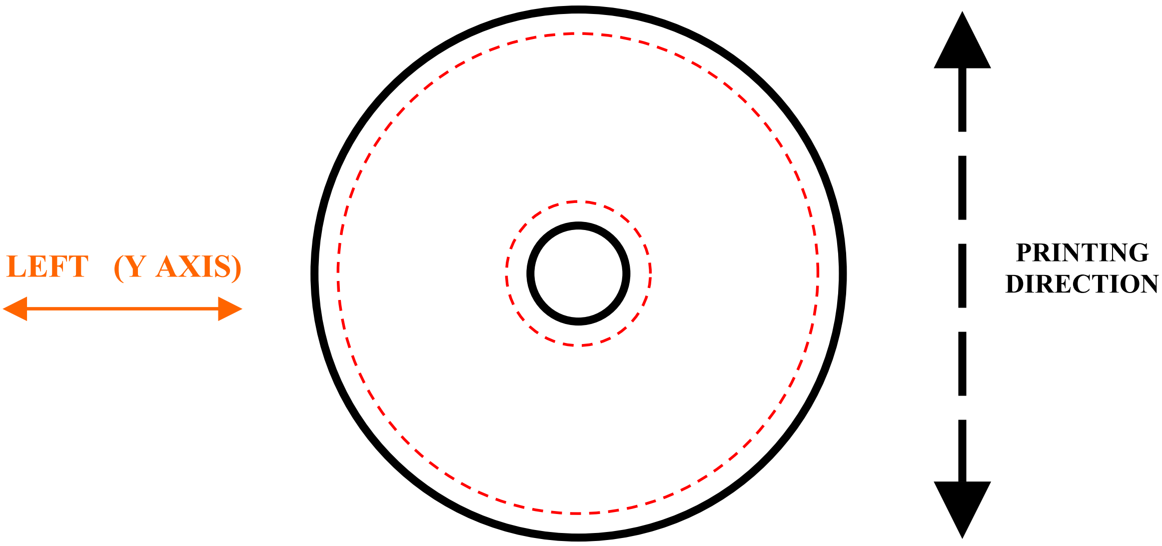
FROM THE MAIN MENU SELECT THE **ALIGN.** TAB : THIS PAGE ALLOWS THE ALIGNMENT OF THE IMAGINE ON THE DISC.

PICTURE SHOWS 6 HEADS VERSION WITH SILK SCREEN





MOVING THE IMAGE 'LEFT & RIGHT'



- CLICK ON THE SMALL WINDOW UNDER THE HEADING **LEFT** THAT SHOWS THE ACTUAL VALUE IN '**um.**' **(4 PASS)**

- A RED DOT WILL FLASH NEXT TO THE WINDOW

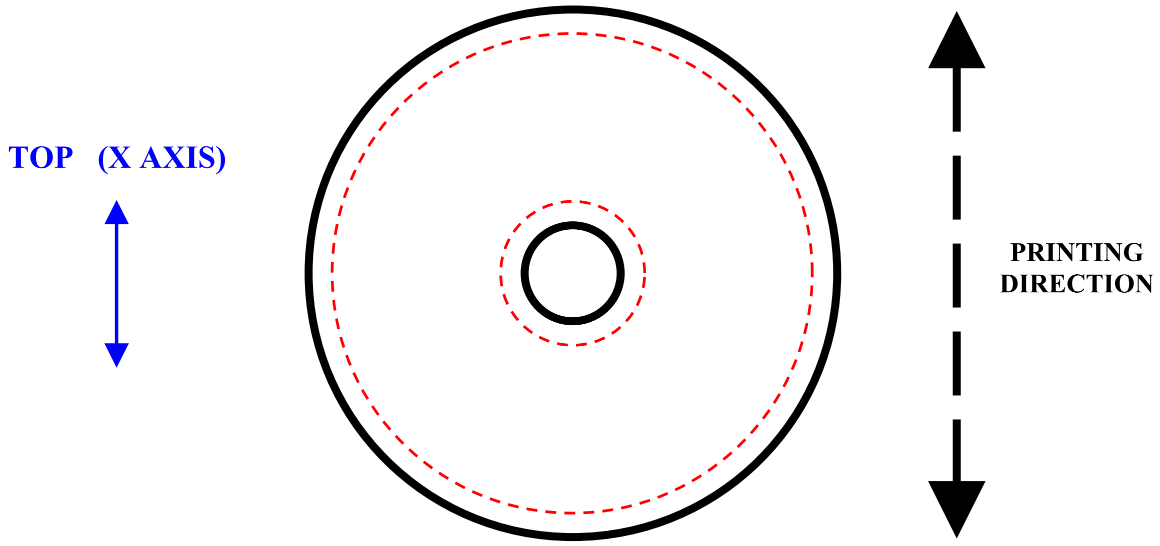
- CLICK ON THE ORANGE ARROW > TO MOVE THE IMAGE TO THE RIGHT. EACH CLICK WILL MOVE THE IMAGE + **100 um** TO THE RIGHT ON THE DISC

- CLICK ON THE ORANGE ARROW < TO MOVE THE IMAGE TO THE LEFT. EACH CLICK WILL MOVE THE IMAGE **- 100 um** TO THE LEFT ON THE DISC

- CLICK ON THE ICON TO CONFIRM AND MEMORIZE THE NEW VALUE

N.B. **TO CHANGE THE PARAMETERS THE MACHINE MUST BE IN 'IDLE' MODE**

MOVING THE IMAGE UP & DOWN



- CLICK ON THE SMALL WINDOW UNDER THE HEADING **TOP** CORRESPONDING TO THE ACTUAL IMAGE RESOLUTION **720 x 360** or **720 x 720**

- A RED DOT WILL FLASH NEXT TO THE WINDOW

- CLICK ON THE BLUE ARROW ⋁ TO MOVE THE IMAGE DOWN.
  EACH CLICK WILL MOVE THE IMAGE **+ 100 um.** DOWN

- CLICK ON THE BLUE ARROW ⋀ TO MOVE THE IMAGE UP.
  EACH CLICK WILL MOVE THE IMAGE **- 100 um.** UP

- CLICK ON THE ICON TO CONFIRM AND MEMORIZE THE NEW VALUE

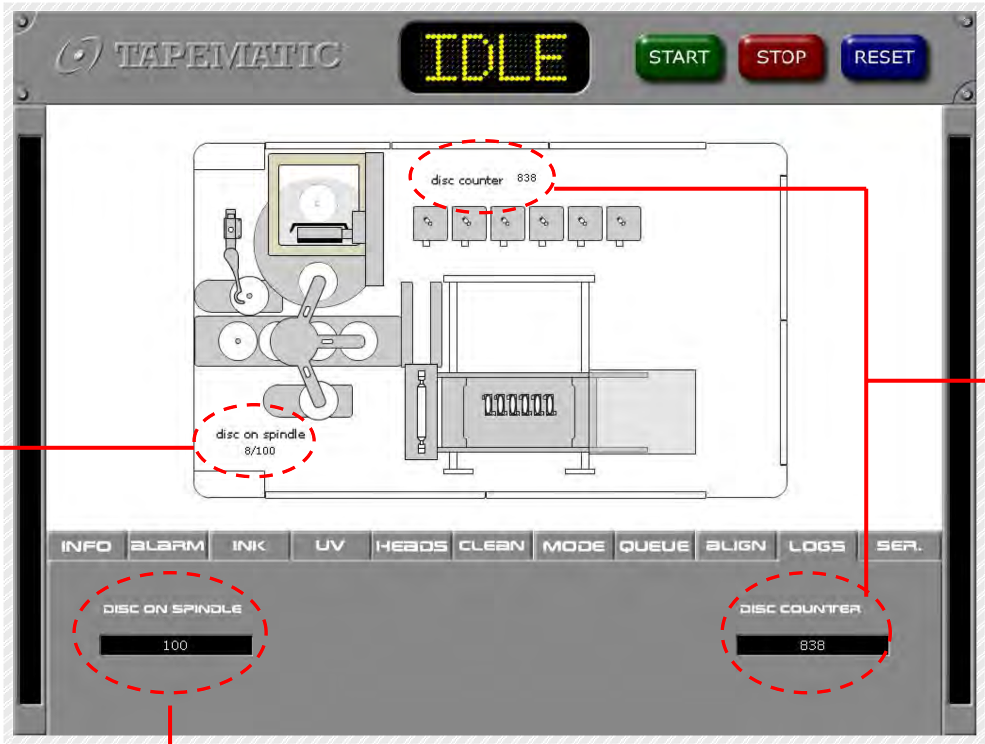
N.B. **TO CHANGE THE PARAMETERS THE MACHINE MUST BE IN 'IDLE' MODE**

4.02.12 LOGS SCREEN

FROM THE MAIN MENU SELECT THE **LOGS** TAB TO MODIFY THE NUMBER OF DISCS THAT CAN BE LOADED ONTO THE OFF-LOAD SPINDLE **(DISC ON SPINDLE)** AND TO VISUALIZE THE TOTAL NUMBER OF DISCS SINCE THE FIRST MACHINE SWITCHING 'ON' UNTIL THE COUNTER IS RESET **(DISC COUNTER)** : THESE VALUE ARE ALSO DISPLAYED ON THE **MAIN SCREEN.**

TO SET THE MAXIMUM NUMBER OF DISCS TO BE LOADED ON THE OFF-LOAD SPINDLE, CLICK ON THE SMALL BLACK WINDOW UNDER THE HEADING: IN THE WINDOW WHICH WILL APPEAR DIGIT THE NEW QUANTITY AND CLICK **OK .**

PICTURE SHOWS 6 HEADS VERSION WITH SILK SCREEN



DISC ON SPINDLE *(ACTUAL / MAXIMUM)*

DISC COUNTER

DISC ON SPINDLE *(MAXIMUM)*

DOUBLE CLICK THE **LOGS** TAB TO OPEN THE PRODUCTION DATA PAGE LOGS.

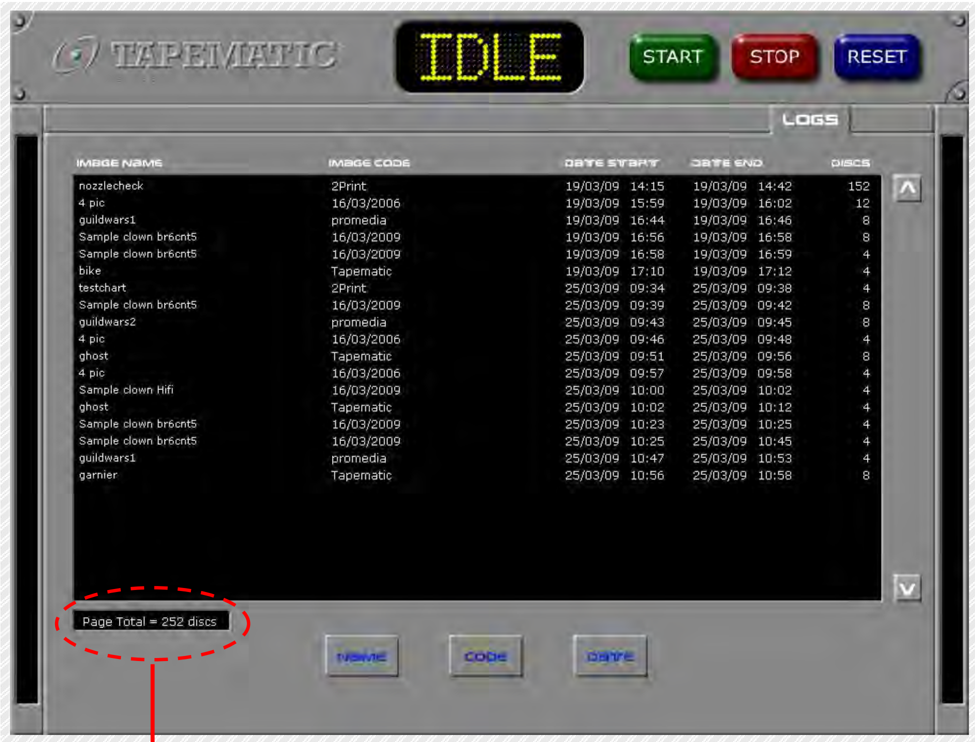
IT IS POSSIBLE TO DISPLAY THE DATA OF PRODUCTION IN ORDER OF :

NAME
CODE
DATE

SELECT NAME, **CODE** or **DATE** THEN CLICK ON THE IMAGE YOU WISH TO INVESTIGATE THEN CLICK THE ICON TO SAVE THE OPERATION.

AUTOMATICALLY ALL OF THE DATA REFERRING TO THIS IMAGE WILL BE DISPLAYED.

PAGE TOTAL DISPLAYS THE TOTAL NUMBER OF DISCS PRODUCED WITH THE LIST OF IMAGES SHOWN.



PAGE
TOTAL

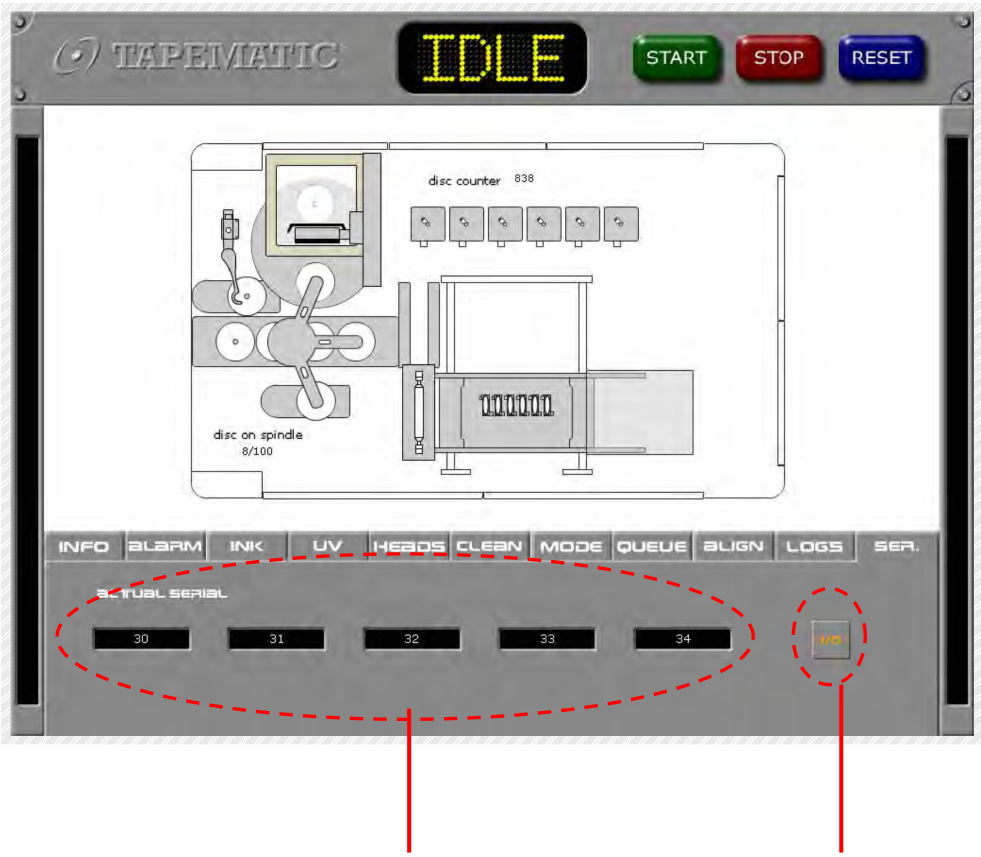
4.02.13 SERIALIZATION SCREEN *(optional)*

THE SERIALIZATION SOFTWARE OFFERS THE POSSIBILITY TO PRINT ONTO THE DISCS, PROGRESSIVE NUMBERING, TEXT, CODES OR BARCODES.

TO ENABLE THE SERIALIZATION, SELECT **SER.** FROM THE MAIN PAGE , CLICK ON **I/O** AND ENSURE THE ICON ALIGHTS.

THE SCREEN OF THE SERIALIZATION WILL DISPLAY THE **LAST FIVE NUMBERS PRINTED**.

PICTURE SHOWS 6 HEADS VERSION WITH SILK SCREEN



LAST 5 NUMBERS PRINTED

I / O

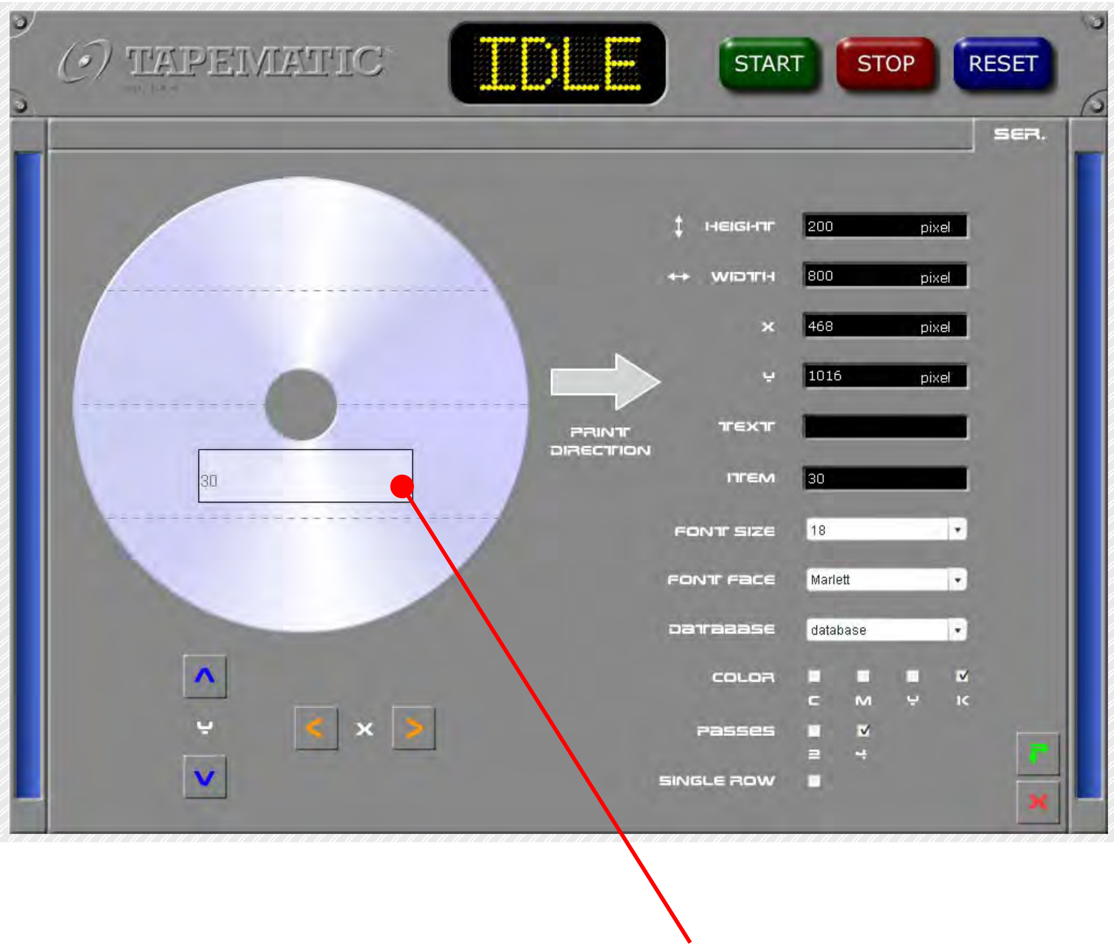
DOUBLE CLICK ON THE TAB **SER.** TO DISPLAY THE SERIALIZATION OPTIONS.

IT IS POSSIBLE TO SELECT ONE OF THE FOLLOWING SERIALIZATION METHODS :

1° AUTOMATIC NUMBER INCREMENT

2° DATA BASE

3° BAR CODE



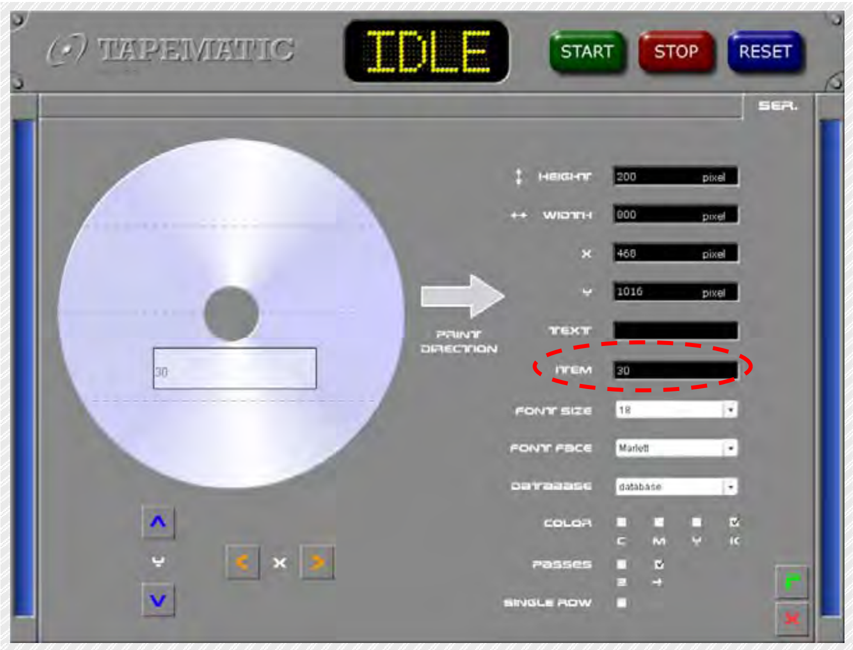
TEXT
WINDOW

<u>1° AUTOMATIC NUMBER INCREMENT</u>

TO ENABLE THE AUTOMATIC NUMBER INCREMENT MODE, CLICK ON THE **I/O** ICON AND CHECK THAT IT IS ALIGHT.

CLICK ON THE VALUE IN THE WINDOW **ITEM** : A WINDOW WILL OPEN WITH A KEYBOARD THEN TYPE IN THE <u>START VALUE NUMBER</u>.
THE MACHINE WILL PRINT EACH DISC WITH A NUMBER PROGRESSIVELY HIGHER BY ONE, <u>STARTING WITH THE NUMBER TYPED IN THE ITEM WINDOW.</u>

CLICK ON THE ARROW OF THE BOX **DATA BASE** : WITHIN THE DROP DOWN WINDOW SELECT ‘**NONE’ .**



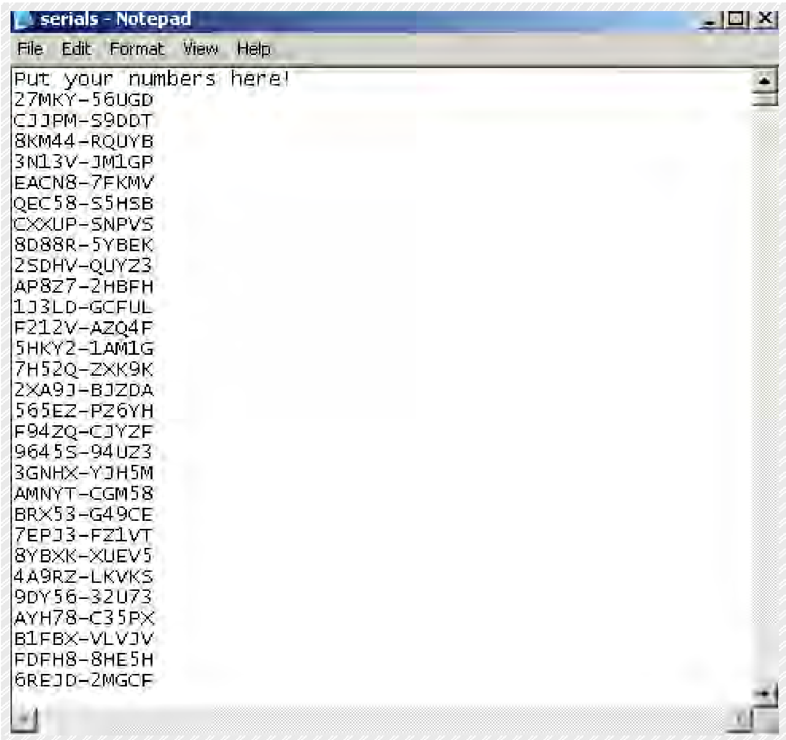
CLICK ON THE ICON  TO CONFIRM AND MEMORIZE THE DATA.

N.B. **SEE THE PAGES TOWARDS THE END OF THIS SECTION FOR ALL THE PRINT OPTIONS**

2° DATA BASE

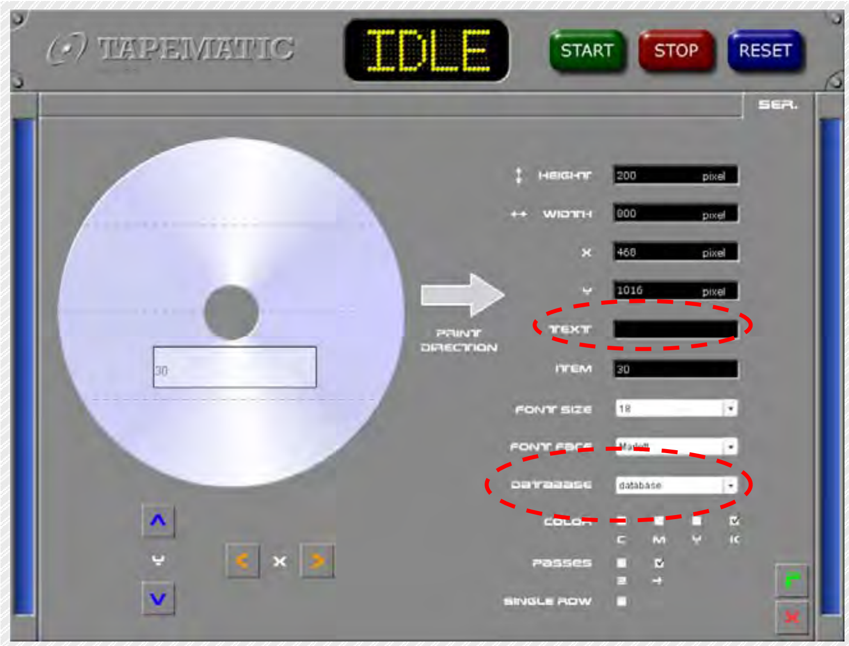
TO ENABLE THE PROGRESSIVE NUMBER MODE CLICK ON THE **I/O** ICON AND CHECK THAT IT IS ALIGHT.

KEEPING THE **2**Print **mini** SUPERVISOR OPEN, OPEN THE FILE NAMED **SERIALS.txt** FROM THE PATH **C:\ PLC \ 2PRINT **



INSERT <u>ON EACH LINE</u> OF THE FILE THE TEXT OR CODE TO BE PRINTED ON EACH DISC THEN SAVE THE FILE.

ON THE SUPERVISION PAGE OF THE SERIALIZATION CLICK ON THE ARROW OF THE **DATABASE** BOX : WITHIN THE DROP DOWN WINDOW SELECT **DATA BASE.**



CLICK ON THE VALUE IN THE BOX **TEXT** AND INPUT THE ROW NUMBER CORRESPONDING TO THE TEXT IN THE FILE **SERIALS.txt** AFTER WHICH <u>YOU WISH TO START AND PRINT.</u>

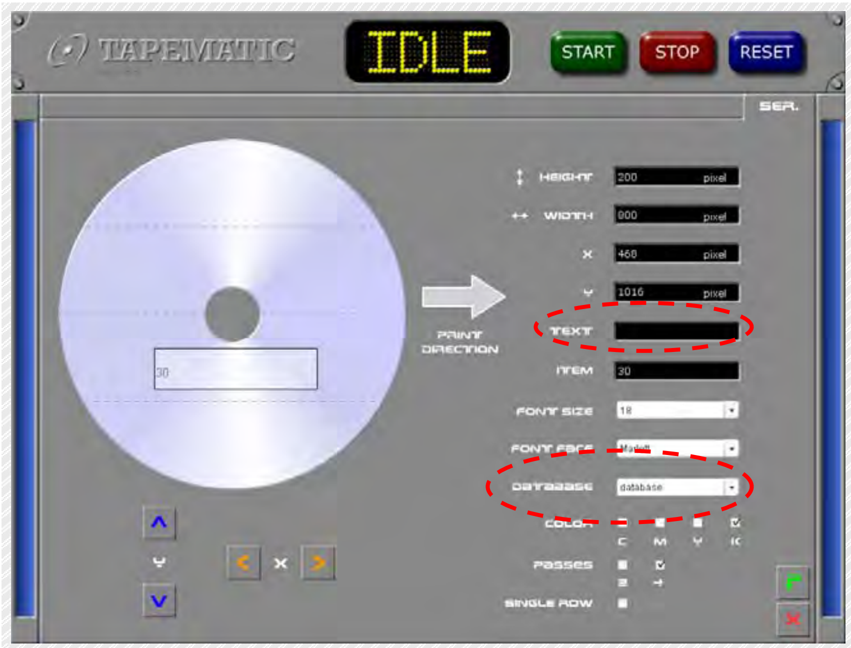
CLICK ON THE ICON  TO CONFIRM AND MEMORIZE THE DATA.

N.B. **SEE THE PAGES TOWARDS THE END OF THIS SECTION FOR ALL THE PRINT OPTIONS**

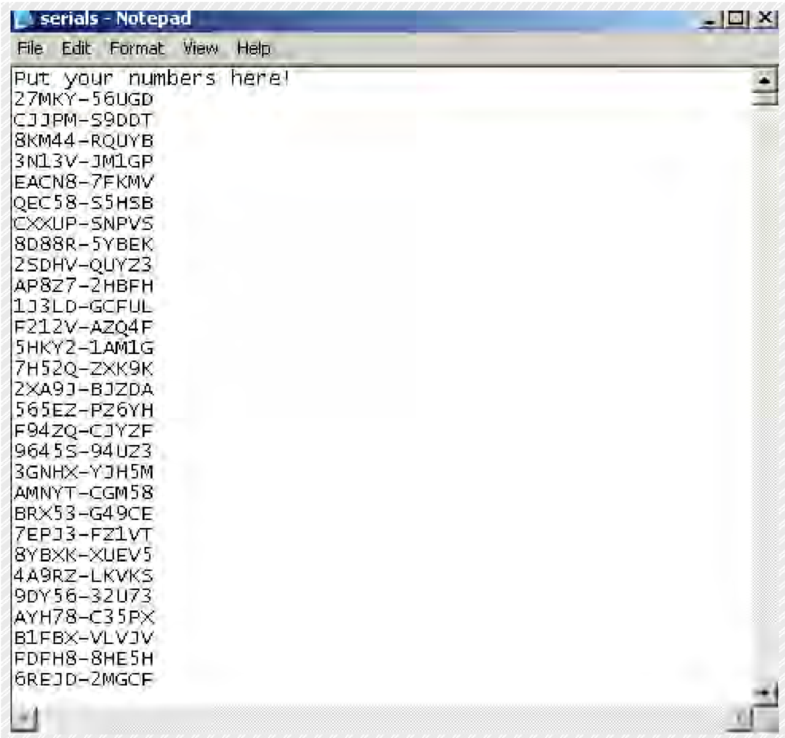
<u>3° BAR CODE</u>

TO ENABLE THE PROGRESSIVE NUMBER MODE CLICK ON THE **I/O** ICON AND CHECK THAT IT IS ALIGHT.

CLICK ON THE ARROW NEXT TO THE **DATA BASE** BOX : WITHIN THE DROP DOWN WINDOW SELECT THE <u>TYPE</u> OF BAR CODE YOU WISH TO PRINT.



THE TEXT OR CODE CORRESPONDING TO THE LINE MEMORIZED IN THE FILE **SERIALS.txt** FROM THE PATH **C:\ PLC \ 2PRINT ** WILL BE PRINTED IN '**BAR CODE'** FORM PROGRESSIVELY ON EACH DISC.


serials - Notepad

File Edit Format View Help

Put your numbers here!
27MKY-56UGD
CJJPM-S9DDT
8KM44-RQUYB
3N13V-JM1GP
EACN8-7FKMV
QEC58-S5HSB
CXXUP-SNPVS
8D88R-5YBEK
2SDHV-QUYZ3
AP8Z7-2HBFH
1J3LD-GCFUL
F212V-AZQ4F
5HKY2-1AM1G
7H52Q-ZXK9K
2XA9J-BJZDA
565EZ-PZ6YH
F94ZQ-CJYZF
9645S-94UZ3
3GNHX-YJH5M
AMNYT-CGM58
BRX53-G49CE
7EPJ3-FZ1VT
8YBXK-XUEV5
4A9RZ-LKVKS
9DY56-32U73
AYH78-C35PX
B1FBX-VLVJV
FDFH8-8HE5H
6REJD-2MGCF

CLICK ON THE ICON TO CONFIRM AND MEMORIZE THE DATA.

N.B. SEE THE PAGES TOWARDS THE END OF THIS SECTION FOR ALL THE PRINT OPTIONS


4A6KC-BYGZ3

PRINT OPTIONS

HEIGHT – pixel

TO SET THE HEIGHT ↕ OF THE WINDOW WITHIN WHICH THE SERIALIZATION TEXT WILL BE PRINTED, CLICK ON THE **HEIGHT** ICON.
WITHIN THE WINDOW WHICH WILL APPEAR DIGIT THE VALUE REQUIRED.
CLICK **OK** THEN CLICK THE TO CONFIRM AND MEMORIZE THE DATA.

WIDTH - pixel

TO SET THE WIDTH ↔ OF THE WINDOW WITHIN WHICH THE SERIALIZATION TEXT WILL BE PRINTED, CLICK IN THE **WIDTH** ICON.
WITHIN THE WINDOW WHICH WILL APPEAR DIGIT THE VALUE REQUIRED.
CLICK **OK** THEN CLICK THE TO CONFIRM AND MEMORIZE THE DATA.

X – Pixel

TO SET THE POSITION OF THE WINDOW IN THE '**X**' AXIS, CLICK ON THE "**X**" ICON.
WITHIN THE WINDOW WHICH WILL APPEAR DIGIT THE VALUE REQUIRED.
CLICK **OK** THEN CLICK THE TO CONFIRM AND MEMORIZE THE DATA.

Y – Pixel

TO SET THE POSITION OF THE WINDOW IN THE '**Y**' AXIS, CLICK ON THE "**Y**" ICON.
WITHIN THE WINDOW WHICH WILL APPEAR DIGIT THE VALUE REQUIRED.
CLICK **OK** THEN CLICK THE TO CONFIRM AND MEMORIZE THE DATA.

N.B. **THE POSITION OF THE WINDOW CAN ALSO BE MADE BY CLICKING ON THE WINDOW AND USING A 'DRAG AND DROP' .**

IN ADDITION THE UP–DOWN / LEFT –RIGHT ARROWS CAN BE USED AS FINE ADJUSTMENT

TEXT

TO SET THE TEXT OR CODE TO BE PRINTED, CLICK ON THE **TEXT** ICON.
WITHIN THE WINDOW WHICH WILL APPEAR DIGIT THE VALUE REQUIRED.
CLICK **OK** THEN CLICK THE TO CONFIRM AND MEMORIZE THE DATA.

ITEM

TO SET THE STARTING NUMBER FOR PROGRESSIVE NUMBERING, CLICK ON THE **NUMBER** ICON.
WITHIN THE WINDOW WHICH WILL APPEAR DIGIT THE VALUE REQUIRED.
CLICK **OK** THEN CLICK THE TO CONFIRM AND MEMORIZE THE DATA.

THE MACHINE WILL PRINT A DIFFERENT NUMBER BY INCREMENTS OF ONE ON EACH DISC <u>STARTING FROM THE NUMBER SETTED</u> *OTHERWISE* PRINT CODES OR TEXT SAVED IN THE FILE **SERIALS.txt** <u>STARTING FROM THE NUMBER OF ROW SET</u>.

FONT SIZE

TO SET THE FONT SIZE OF THE TEXT, CLICK ON THE **FONT SIZE** ICON.
WITHIN THE DROP DOWN WINDOW SELECT THE SIZE REQUIRED.
CLICK **OK** THEN CLICK THE TO CONFIRM AND MEMORIZE THE DATA.

FONT FACE

TO SET THE FONT SIZE OF THE TEXT, CLICK ON THE **FONT FACE** ICON.
WITHIN THE DROP DOWN WINDOW SELECT THE FONT REQUIRED.
CLICK **OK** THEN CLICK THE TO CONFIRM AND MEMORIZE THE DATA.

DATA BASE

TO SET THE TYPE OF SERIALIZATION TO BE USED CLICK ON THE ARROW NEXT TO THE **DATA BASE** BOX.
WITHIN THE DROP DOWN WINDOW SELECT THE TYPE REQUIRED
(SEE THE PREVIOUS PAGES FOR DETAILED INFORMATION).

CLICK **OK** THEN CLICK THE TO CONFIRM AND MEMORIZE THE DATA

COLOUR

TO SET THE COLOUR OF THE TEXT, CLICK THE BOX CORRESPONDING TO THE COLOUR REQUIRED **C / M / Y / K .**
CLICK **OK** THEN CLICK THE TO CONFIRM AND MEMORIZE THE DATA.

PASSES

TO SET THE NUMBER OF PASSES DEPENDING UPON THE IMAGE TO BE PRINTED, CLICK THE BOX CORRESPONDING TO THE PASSES REQUIRED **2** or **4 PASSES.**
CLICK **OK** THEN CLICK THE TO CONFIRM AND MEMORIZE THE DATA.

SINGLE ROW

TICKING THE **SINGLE ROW** BOX THE DATA IN THE **TEXT** BOX WILL BE SEPARATED FROM THE DATA IN THE BOX **ITEM.**
THIS MEANS THAT THE WRITING WILL BE ON TWO SEPARATE LINES.

CLICK **OK** THEN CLICK THE TO CONFIRM AND MEMORIZE THE DATA.

EXAMPLE :

TEXT TAPEMATIC
ITEM 30

SINGLE ROW **NOT CHECKED** → TAPEMATIC 30

SINGLE ROW **CHECKED** → TAPEMATIC
30


I
Leggere attentamente il manuale dell'operatore prima di far funzionare la macchina. Osservare le norme e le istruzioni di sicurezza durante il funzionamento.
F
Lire le livret d'entretien et le conseil de sécurité avant la mise en marche et en tenir compte pendant le fonctionnement.
GB
Carefully read Operator's Manual before handling the machine. Observe instructions and safety rules when operating.
D
Vor Inbetriebnahme die Betriebsanleitung und Sicherheitshinweise lesen und beachten.
E
Leer con cuidado el manual de instrucciones antes de la utilización de la máquina. Observar las normas de seguridad mientras la máquina está funcionando.


CAUTION
Do not open while machinery is in motion.
Brimar 800-274-6271 / E2151-AA

5. 'SHIRAZ' RIP SOFTWARE

!!! ATTENTION !!!

- **CAREFULLY READ THIS MANUAL PRIOR TO ATTEMPTING TO USE THE MACHINE**
- **ADJUSTMENTS, MAINTENANCE AND REPAIRS TO THE MACHINE MUST BE CARRIED OUT BY QUALIFIED PERSONNEL WORKING WITHIN THE SAFETY NORMS**
- **IT IS ABSOLUTELY FORBIDDEN TO TAMPER OR REMOVE SAFETY DEVICES OR MODIFY ELECTRICALLY OR MECHANICALLY THE MACHINE**
- **PRESS THE "STOP" OR "IDLE PRIOR TO WORKING INSIDE THE MACHINE OR OPENING THE PANELS**
- **DO NOT TOUCH ANY ELECTRICAL DEVICES WITH WET HANDS OR OTHER PARTS OF THE BODY**
- **ALWAYS USE PROTECTIVE GLASSES AND GLOVES WHEN WORKING WITH OR TOUCHING THE UV LAMP OR INKS**
- **DO NOT LOOK DIRECTLY INTO THE RAYS OF THE UV LAMP**
- **IN CASE OF AN EMERGENCY IMMEDIATELY PUSH THE EMERGENCY "RED MUSHROOM"**
- **THE MANUFACTURER CAN NOT BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED TO PERSONS OR MACHINERY DUE TO LACK OF OBSERVATION OF THE SAFETY REGULATIONS IN THE COUNTRY OF INSTALLATION**

IMAGE SPECIFICATIONS

TYPE OF FILES

VECTOR	PHOTOSHOP LEVEL 2 & 3 PDF LEVEL 1.5 OR LESS EPS
RASTER	TIFF JPEG

FILE SPECIFICATIONS

RESOLUTION SHOULD NOT BE LESS THAN 300 DPI.

PDF FILE MUST BE MONO LEVEL.

PDF FILE MUST CONTAIN ALL FONTS USED WITHIN THE IMAGE.

THE IMAGE MUST BE CENTRALIZED WITHIN A SQUARE CANVAS.

A SQUARE CANVAS MEANS A RATIO OF 1:1

THE SOFTWARE WILL CHANGE THE RATIO AND DISTORT THE IMAGE IF NOT 1:1

A PREFERRED SIZE OF THE CANVAS IS 120 mm X 120 mm

IF THE CANVAS IS SQUARE BUT NOT 120 mm X 120 mm THE SOFTWARE WILL CORRECT THE SIZE.

THE CANVAS SHOULD CONTAIN ONLY THE IMAGE NO TARGETS OR ALIGNMENT MARKS.

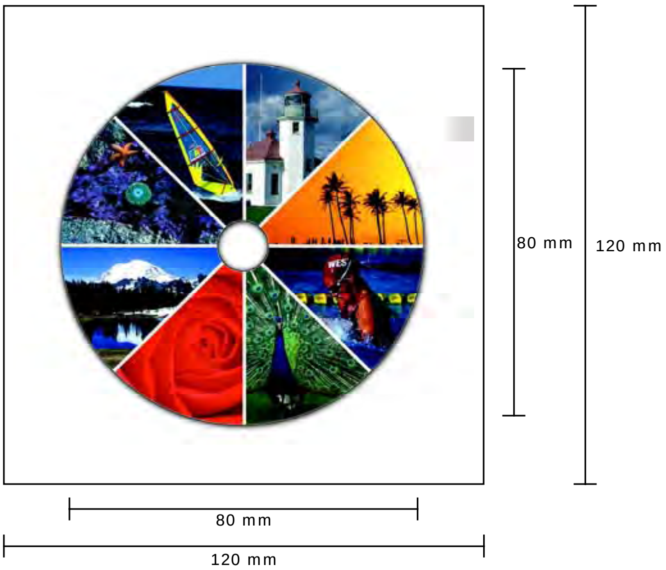
IT IS PREFERABLE THAT THE IMAGES DO NOT HAVE THE INTERNAL AND EXTERNAL DIAMETERS CUT.

IF THE IMAGE IS LEFT COMPLETE AS BELOW THE RIP SOFTWARE WILL AUTOMATICALLY MASK OFF THE AREA WHICH IS NOT TO BE PRINTED.

IF THE IMAGE IS ALREADY CUT TO SIZE, MAKE SURE THE OUTSIDE AND INSIDE DIAMETERS ARE CORRECT FOR THE SILK SCREEN INSTALLED.

IF THE IMAGE IS ALREADY CUT, CHECK THAT IT IS CENTRAL WITHIN THE CANVAS.

EVEN IF THE IMAGE IS A 80 mm THE IMAGE MUST BE WITHIN A CANVAS MEASURING
120 mm X 120 mm.



THE FILE NAME MUST NOT BE MORE THAN 100 CHARACTERS AND MUST NOT CONTAIN CHARACTERS SUCH AS **" £ $, . ; : @ - _ / * & % ^** etc…..

THE **RIP SOFTWARE** IS A DEDICATED SOFTWARE WRITTEN FOR THE **2**Print **SERIES** OF MACHINES CREATED BY **SHIRAZ** EXCLUSIVE FOR **TAPEMATIC S.p.A.**

THE RIP SOFTWARE SHOULD BE INSTALLED IN A DEDICATED ARTWORK **RIP COMPUTER**.

THIS COMPUTER SHOULD BE USED FOR THE EXCLUSIVELY PROCESS OF 'RIPPING'.

THE FILES WHICH ARE PRODUCED CAN BE TRANSFERRED TO THE **2**Print **mini** COMPUTER VIA :

USB KEYS
USB DRIVES
CD
DVD
ETHERNET

N.B. **DURING THE RIP PROCESS THE 'SHIRAZ DONGLE KEY' MUST REMAIN IN THE USB PORT OF THE RIP COMPUTER**

RIP FAULTS	***POSSIBLE REASONS***
Error "Unknown Image Type" in the RIP software	Type of file is not supported by the software
Error "Missing Fonts" in the RIP software	PDF file does not have the fonts imbedded
Part of the image is missing when printed on the disc	PDF file was from a multilevel file
Image is not printed on the disc	PDF is multilevel File name with special characters or long
Image is not centred on disc	PDF file multilevel Image is not in centred of canvas
Saw tooth effect of image or text	Original image small, under 120 x 120 mm
Low resolution of image or text	Raster file low resolution

5.01 INSTALLING 'SHIRAZ' RIP SOFTWARE

N.B. **THE END USER MUST PROVIDE A SUITABLE COMPUTER TO BE USED EXCLUSIVELY FOR IMAGES RIPPING**

N.B. **THE RIP SOFTWARE WILL BE INSTALLED ON THE END USERS COMPUTER DURING THE INSTALLATION OF THE 2P**rint **mini BY TAPEMATIC ENGINEER**

5.02 IMAGE INFORMATION

5.02.01 IMAGE FORMATS

THE **SHIRAZ** RIP SOFTWARE SUPPORTS THE FOLLOWING FILE FORMATS :

RASTER IMAGES	**JPEG**	**TIFF**	
VECTOR IMAGES	**PDF**	**EPS**	**PS**

WHEN AN IMAGE FILE IS LOADED INTO THE SHIRAZ SOFTWARE THE FILE IS INTERROGATED AND ANALYSED READY FOR THE RIP PROCESS **(RIPPING PROCESS).**

IF THE IMAGE LOADED IS RECOGNISED BY THE SHIRAZ OPERATING SYSTEM THE IMAGE WILL
BE DISPLAYED ON THE MONITOR OF THE RIP COMPUTER.

IF THE IMAGE IS NOT RECOGNISED A MESSAGE WILL APPEAR IN THE FORM OF AN ICON :
CLICK ON THIS ICON TO VISUALIZE THE IMAGE WHICH IS NOT RECOGNISED.

THIS CAN HAPPEN WHEN **PDF** or **PS** FILES ARE USED.

5.02.02 IMAGE RESOLUTION

TO ACHIEVE A HIGH QUALITY PRINTED IMAGE ON THE PRODUCT IT IS NECESSARY TO START OFF WITH AN HIGH QUALITY IMAGE FILE, NOT LESS THAN **300 PIXELS / INCH** or **DPI** (DOTS PER INCH).

THE FILE IS MADE UP OF A NUMBER OF SMALL QUADRANTS CALLED **PIXEL** : THESE PIXELS ARE IN THE FORM OF A GRILL.

THE MORE QUADRANTS IN A GIVEN AREA, THE HIGHER THE DEFINITION.

ALSO THE SMALLER THE DIMENSION OF A SINGLE PIXEL, THE HIGHER THE RESOLUTION.

THE RESOLUTION IS NORMALLY MEASURED IN **DPI** (DOTS PER INCH) : THIS IS THE SAME AS PIXELS PER INCH.
THIS NUMBER IS FUNDAMENTAL FOR THE QUALITY OF THE FINAL DIGITALLY PRINTED IMAGE.

5.02.03 IMAGE COLOURS

THE **2**P**rint** **mini** PRINTS USING EITHER FOUR OR SIX COLOURS DEPENDING UPON THE MODEL.

2Print **mini** IV CYAN - YELLOW - MAGENTA - BLACK

2Print **mini** VI CYAN - YELLOW – MAGENTA - BLACK - LIGHT CYAN - LIGHT MAGENTA

FOR BEST RESULTS THE ORIGINAL IMAGE MUST BE **C Y M K** AND NOT **R G B.**

THE RIP SOFTWARE IS NOT ABLE TO CONVERT **R G B** FILES TO **C Y M K** FORMAT.

5.02.04 IMAGE DIMENSIONS

THE STANDARD DIAMETER OF AN OPTICAL DISC IS 120 mm.

THE RIP SOFTWARE USES WHAT IS CALLED A ‘CANVAS’ FOR THE TOTAL AREA OF THE DISC.

THIS ‘CANVAS’ MUST BE SQUARED AND PREFERABLE 120 mm X 120 mm

IF THE IMAGE TO BE PRINTED ON THE DISC IS LESS DIAMETER 118 mm THERE SHOULD BE A GAP AROUND THE OUTSIDE DIAMETER OF THE IMAGE.

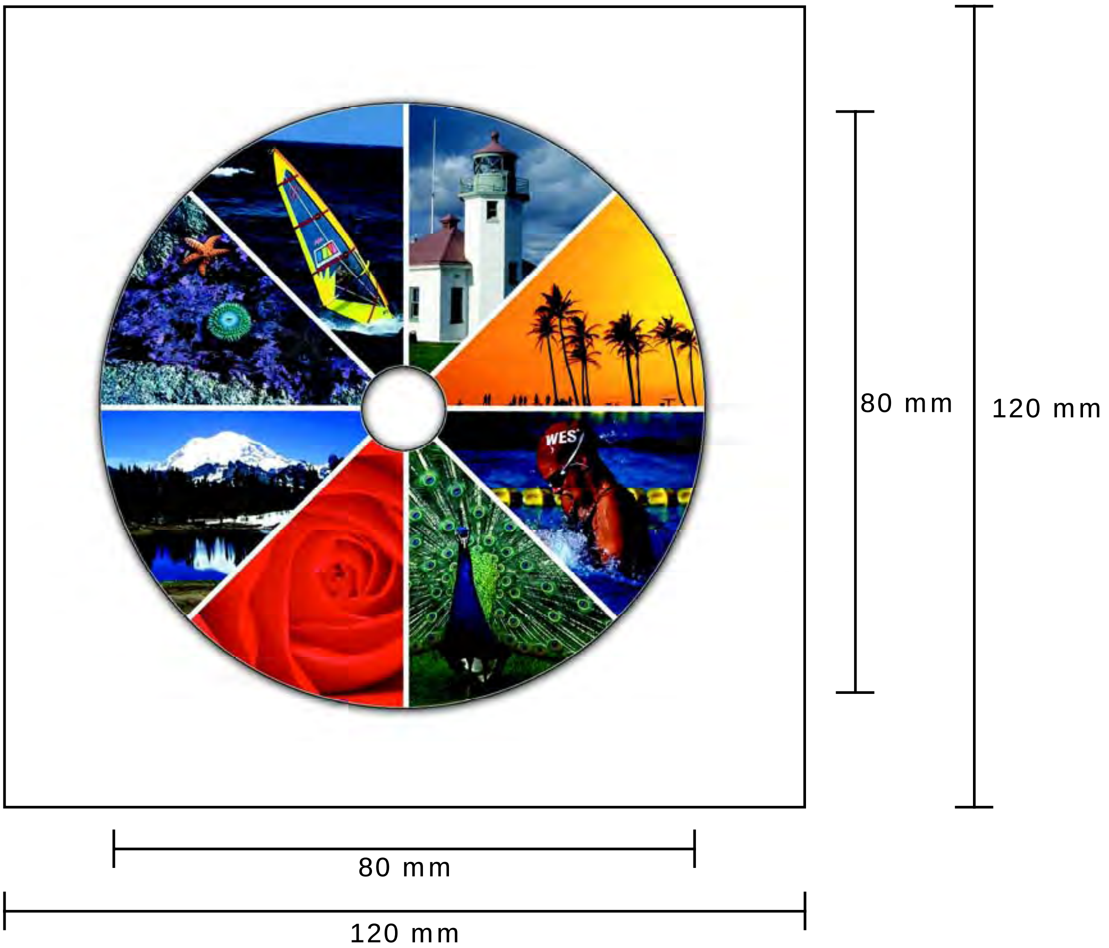
IF AN 80 mm DISC IS TO BE PRINTED THE ‘CANVAS’ SHOULD STILL BE 120 X 120 WITH AN 80 mm DIAMETER IMAGE IN THE CENTRE (FOR DETAILS SEE SECTION 5.02.05).

THE IMAGE SHOULD ALSO BE ‘CLEAN’ : THIS MEANS WITHOUT ANY ALIGNMENT MARKS OR CROSSES.

5.02.05 IMAGE 80 mm.

TO PRINT A MINI DISC 80 mm X 80 mm , THE IMAGE MUST BE SUPPLIED TO THE RIP AS A ‘CANVAS’ OF 120 mm X 120 mm WITH THE IMAGE.

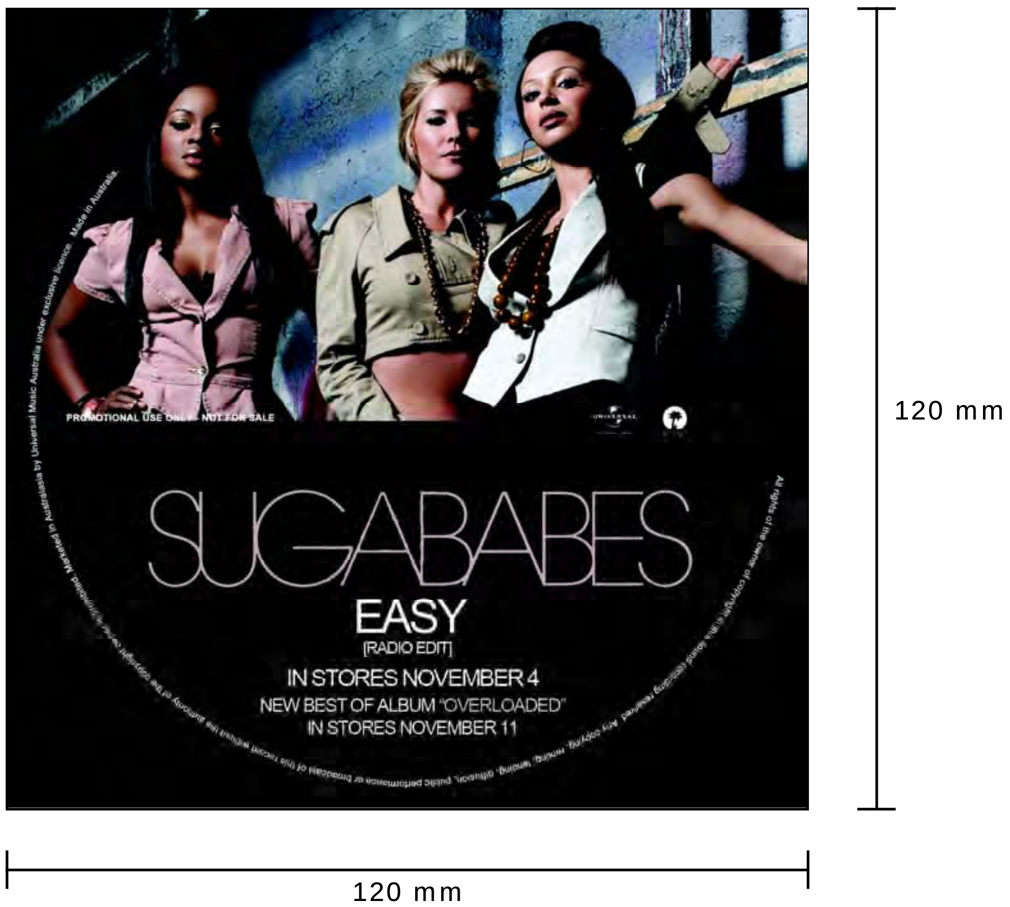
THE CORRECT SIZE 80 mm X 80 mm MUST BE CENTRALIZED WITHIN THE ‘CANVAS’.



5.02.06 IMAGE INTERNAL AND EXTERNAL DIMENSIONS

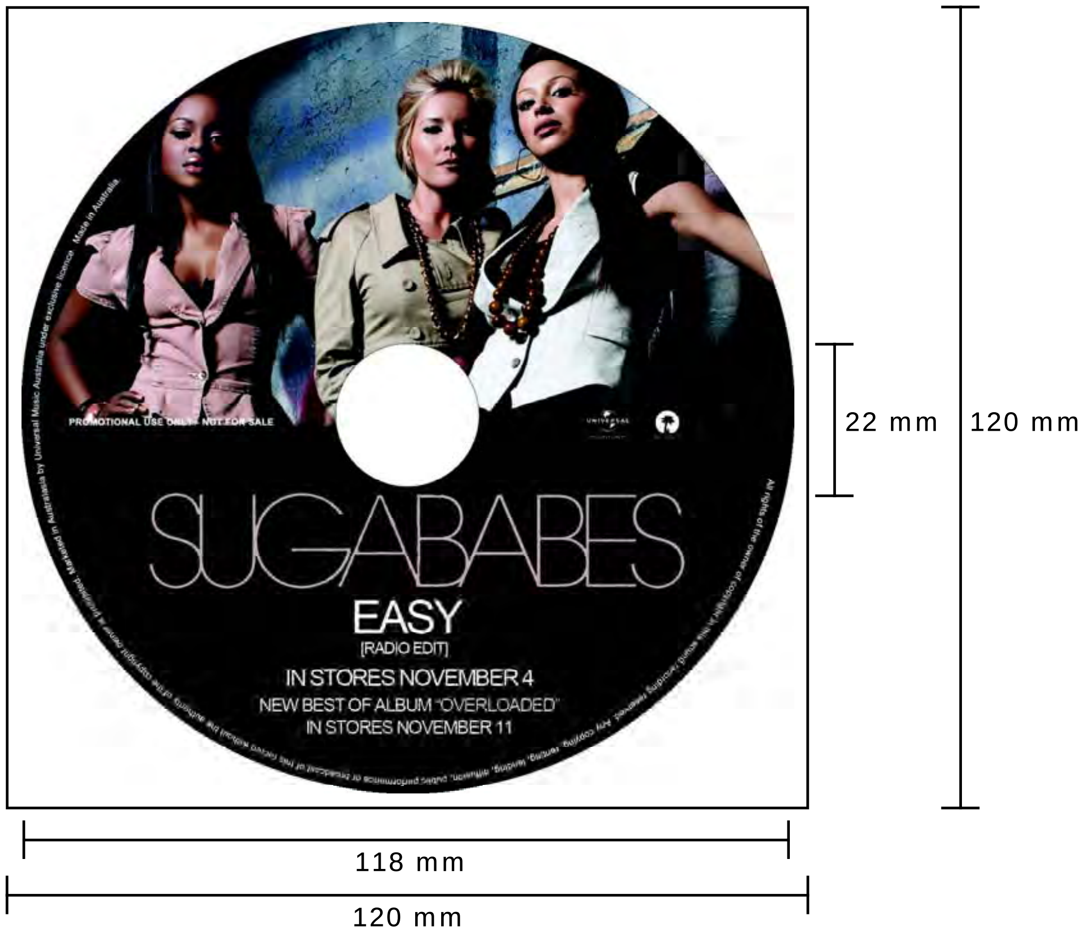
THE RIP SOFTWARE WILL MASK OFF THE INTERNAL AND EXTERNAL DIAMETERS OF THE IMAGE.

THE FOLLOWING TWO IMAGES DEMONSTRATES A FULL 120 mm X 120 mm IMAGE MASKED OFF.



THE FOLLOW PICTURE SHOWS THE IMAGE AFTER THE RIPPING PROCESS.

(IMAGE MASKED OFF AT 22 mm AND 118 mm)



NORMAL PROCEDURE WHICH IS HIGHLY RECOMMENDED IS TO MASK OFF THE IMAGE 1 mm. LARGER THAN THE SILK SCREEN ON THE OUTSIDE DIAMETER AND 1 mm. SMALLER ON THE INTERNAL DIAMETER.

THIS GUARANTEES THAT THE WHITE IS COVERED 100% AND PRODUCES A VERY HIGH QUALITY OF FINISHED PRODUCT.

EXAMPLE

SILK SCREEN   118 mm X 22mm

RIP MASK   119 mm X 21 mm

5.03 RIPPING AN IMAGE

N.B. **FOR FAST AND EASY TRANSFER OF FILES MAKE AN 'ETHERNET' CONNECTION BETWEEN THE 2Print mini COMPUTER AND THE RIP COMPUTER**

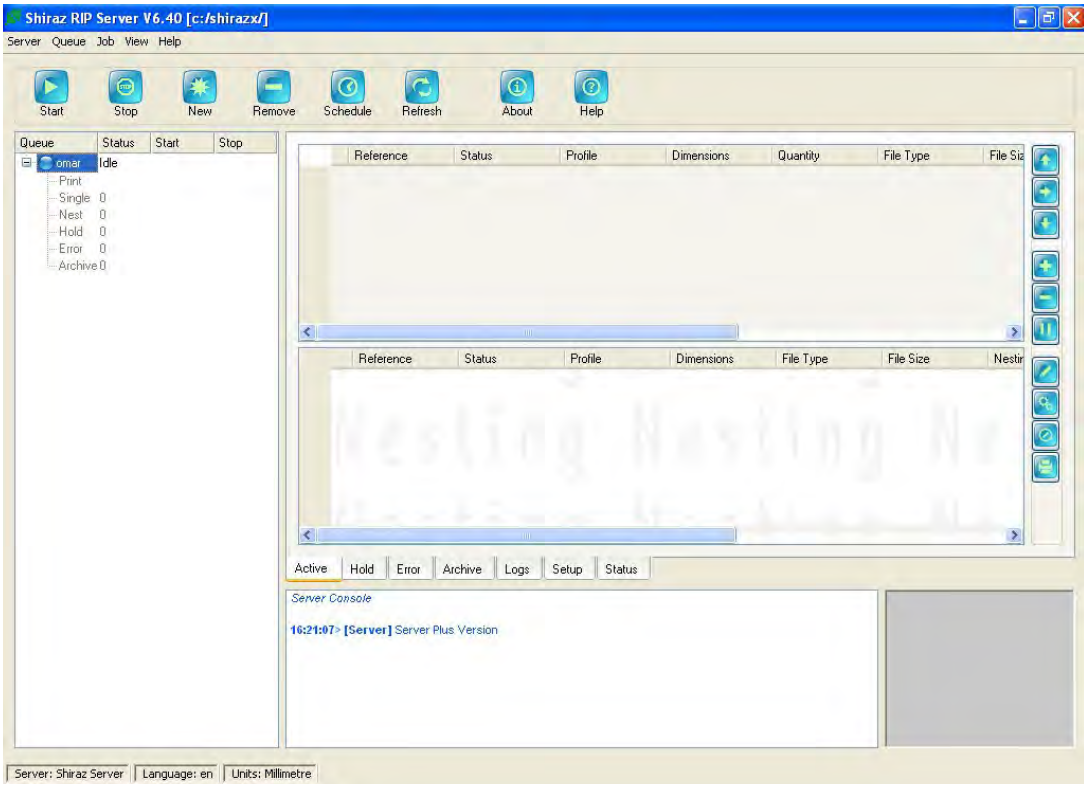
N.B. **MAKE SURE THAN THE SHIRAZ RIP DONGLE IS ALWAYS IN THE RIP COMPUTER WHEN IMAGES ARE BEING RIPPED**

- INSERT THE **SHIRAZ DONGLE KEY** IN THE USB PORT OF THE RIP COMPUTER

- CLICK THE **SHIRAZ RIP** ICON TO OPEN THE RIP PROGRAMME

- CLICK THE **SERVER** ICON IN THE VERTICAL MENU

- THE MONITOR WILL DISPLAY THE FOLLOW SCREEN

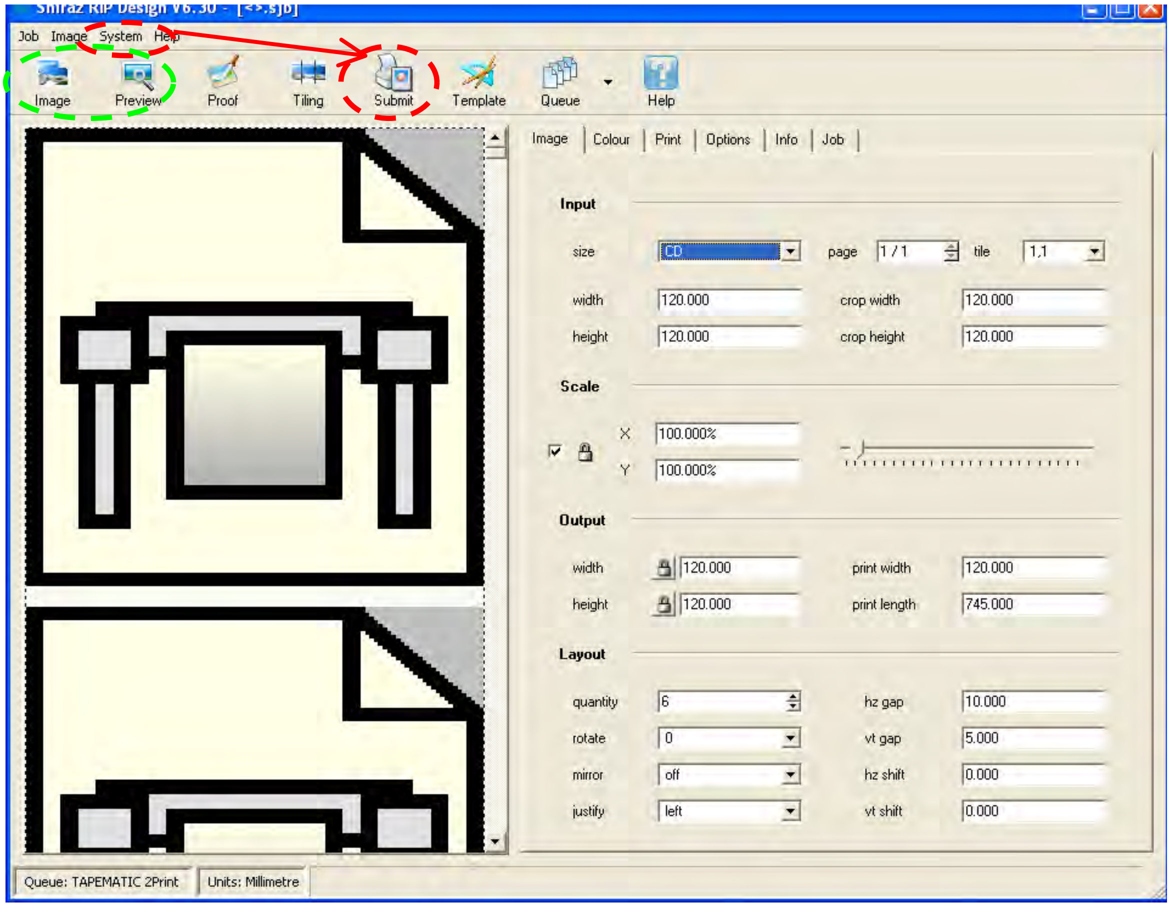


- SELECT FROM THE LOWER TABS **SETUP** , THEN **INTERFACE :** TYPE IN THE FOLLOWING FILE PATH **OUTPUT PATH :**

  2PRINT-mini COMPUTER \ DESKTOP \ IMAGES

- CLICK ON THE TAB **ACTIVE** AND MINIMIZE THE WINDOW **SERVER**

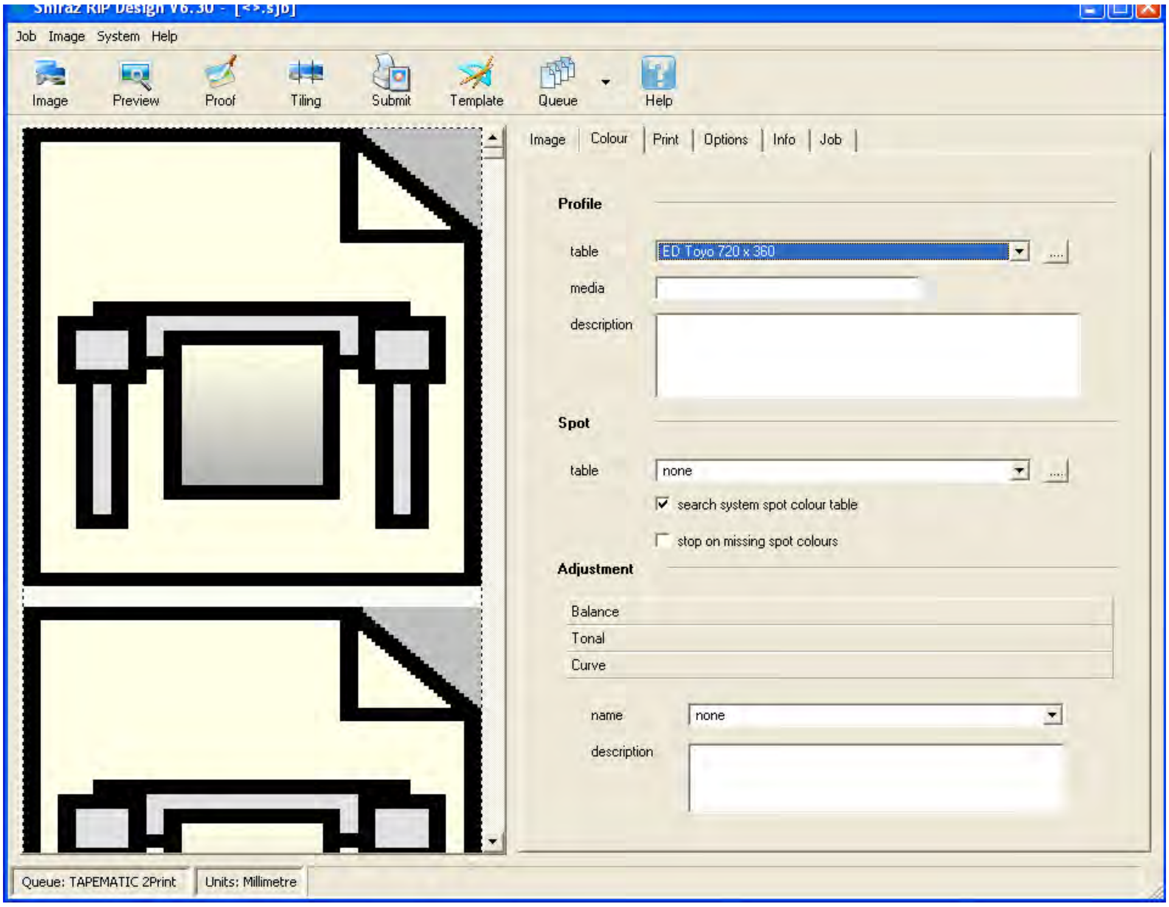
- CLICK ON THE **DESIGN** ICON FROM THE VERTICAL MENU
- CLICK **OK**
- FROM THE TOP MENU SELECT **SYSTEM,** DESELECT PRINT **DIRECT :** THE FIFTH ICON **PRINT** FROM THE LEFT WILL CHANGE TO **SUBMIT**
- FROM THE LOWER RIGHT HAND TABS SELECT **IMAGE**
- THE MONITOR WILL DISPLAY THE FOLLOW SCREEN



- CLICK THE **IMAGE** ICON, THEN LOAD THE IMAGE.
  CLICK THE **PREVIEW** ICON THEN CLOSE THE WINDOW: THE IMAGE WILL BE DISPLAYED MANY TIMES IN THE LEFT HAND AREA OF THE SCREEN
- IN THE WINDOW **SIZE** SELECT **CD**
- IN THE WINDOW **ROTATE** SET **90 :** THIS IS RECOMMENDED AS IT TURNS THE IMAGE 90° DURING THE DIGITAL PRINTING
- KEEP ALL THE DEFAULT VALUES AS SHOWN IN THE IMAGE ABOVE

- FROM THE LOWER RIGHT HAND TABS SELECT **COLOUR**

- THE MONITOR WILL DISPLAY THE FOLLOW SCREEN



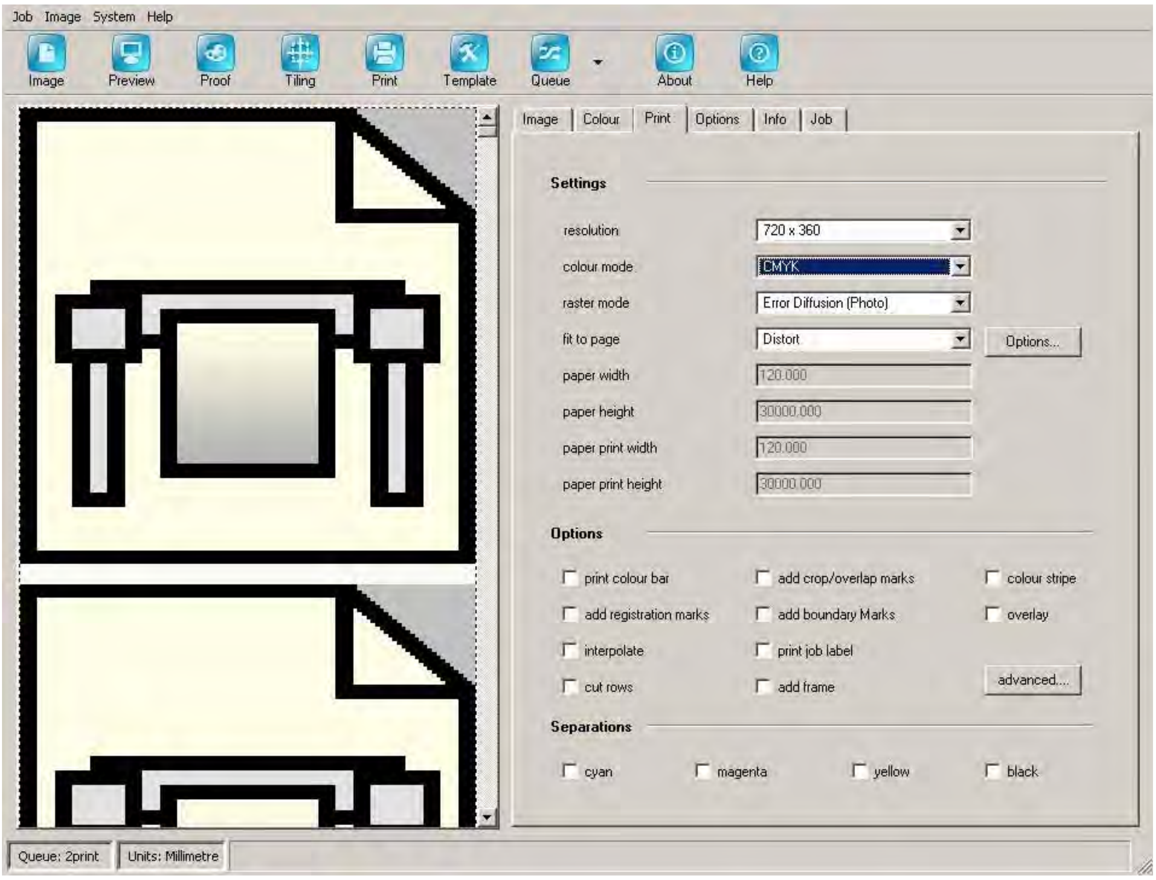
- IN THE WINDOW **"TABLE"** SELECT THE DESIRED RESOLUTION

- ADJUSTMENT OF THE PARAMETERS **BALANCE - TONAL – CURVE** IS OPTIONAL AND CAN BE USED TO IMPROVE THE QUALITY OF THE FINAL IMAGE

- KEEP ALL THE DEFAULT VALUES AS SHOWN IN THE IMAGE ABOVE

- FROM THE LOWER RIGHT HAND TABS SELECT **PRINT**

- THE MONITOR WILL DISPLAY THE FOLLOW SCREEN



- KEEP ALL THE DEFAULT VALUES AS SHOWN IN THE IMAGE ABOVE

- FROM THE LOWER RIGHT HAND TABS SELECT **OPTIONS**
- THE MONITOR WILL DISPLAY THE FOLLOW SCREEN

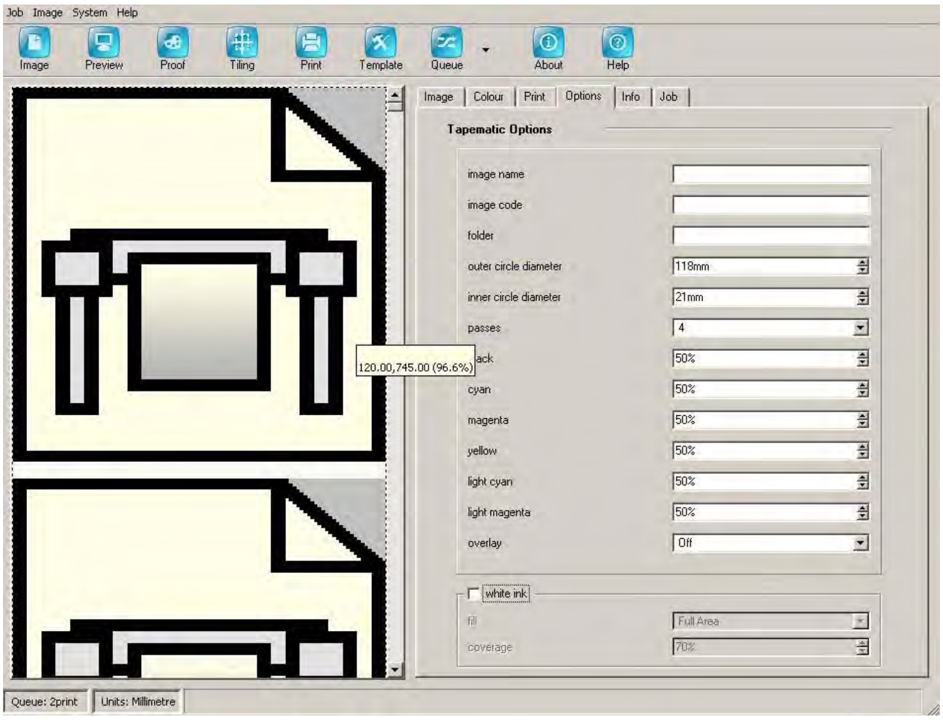
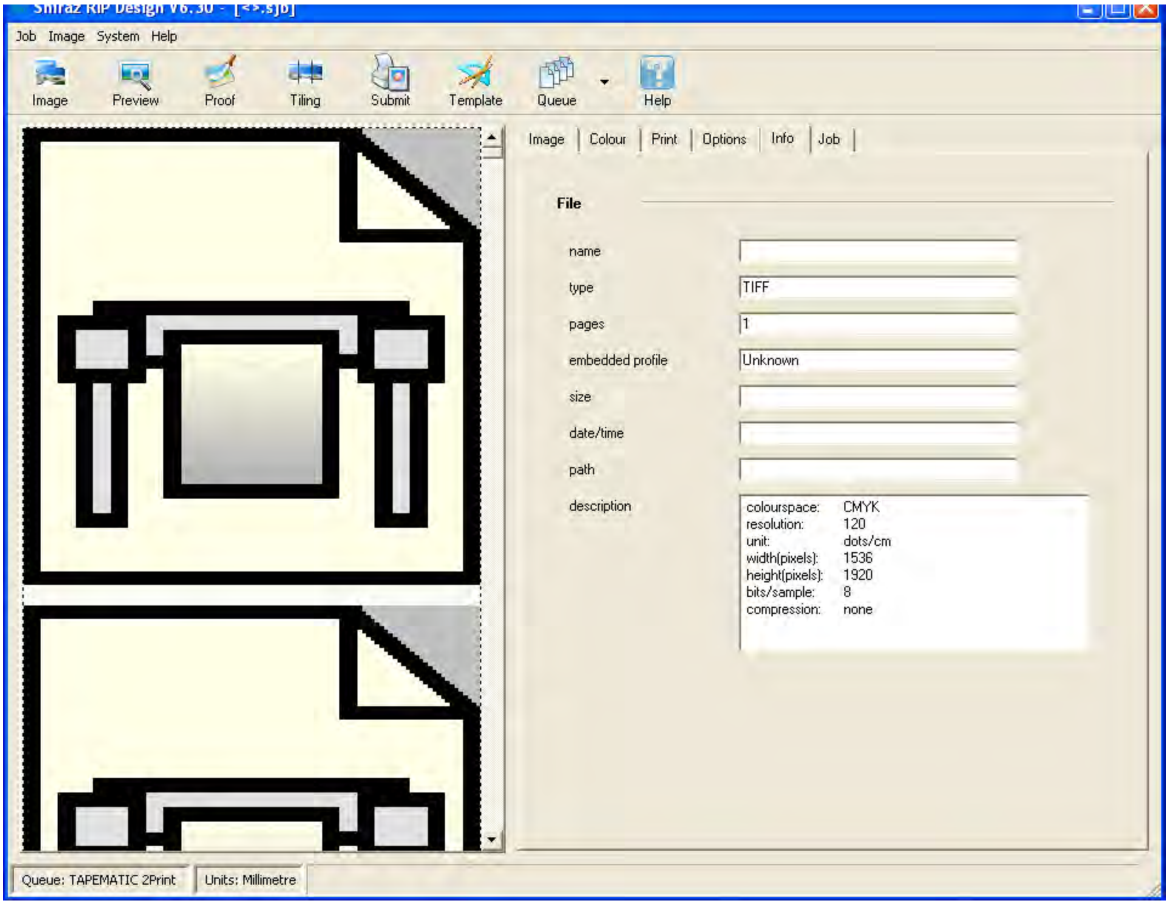


IMAGE NAME	TYPE IN THE NAME OF THE IMAGE TO BE RIPPED
IMAGE CODE	TYPE IN THE CODE OF THE IMAGE TO BE RIPPED
FOLDER	TYPE IN THE NAME OF THE FOLDER IN WHICH THE IMAGE WILL BE SAVED IN THE **2PRINT-mini** COMPUTER. (IT IS POSSIBLE TO SEND THE IMAGE TO THE 2PRINT-mini COMPUTER INTO A NAMED FOLDER <u>ONLY</u> IF THE COMPUTER IS CONNECTED VIA ETHERNET AND A FOLDER HAS BEEN CREATED WITHIN THE ARCHIVE SCREEN)
OUTER CIRCLE DIAMETER	TYPE IN THE MAXIMUM DIAMETER OF THE IMAGE AFTER WHICH IT WILL BE MASKED OFF. RECOMMENDED VALUES ARE : **119 mm FOR STANDARD DISCS** **79 mm FOR MINI DISCS**
INNER CIRCLE DIAMETER	TYPE IN THE MINIMUM DIAMETER OF THE IMAGE AFTER WHICH THE IMAGE WILL BE MASKED OFF. THIS DEPENDS UPON THE SILK SCREEN FORMAT BEING USED
PASSES	SET THE NUMBER OF PASSES YOU WISH TO USE WHEN PRINTING THE IMAGE

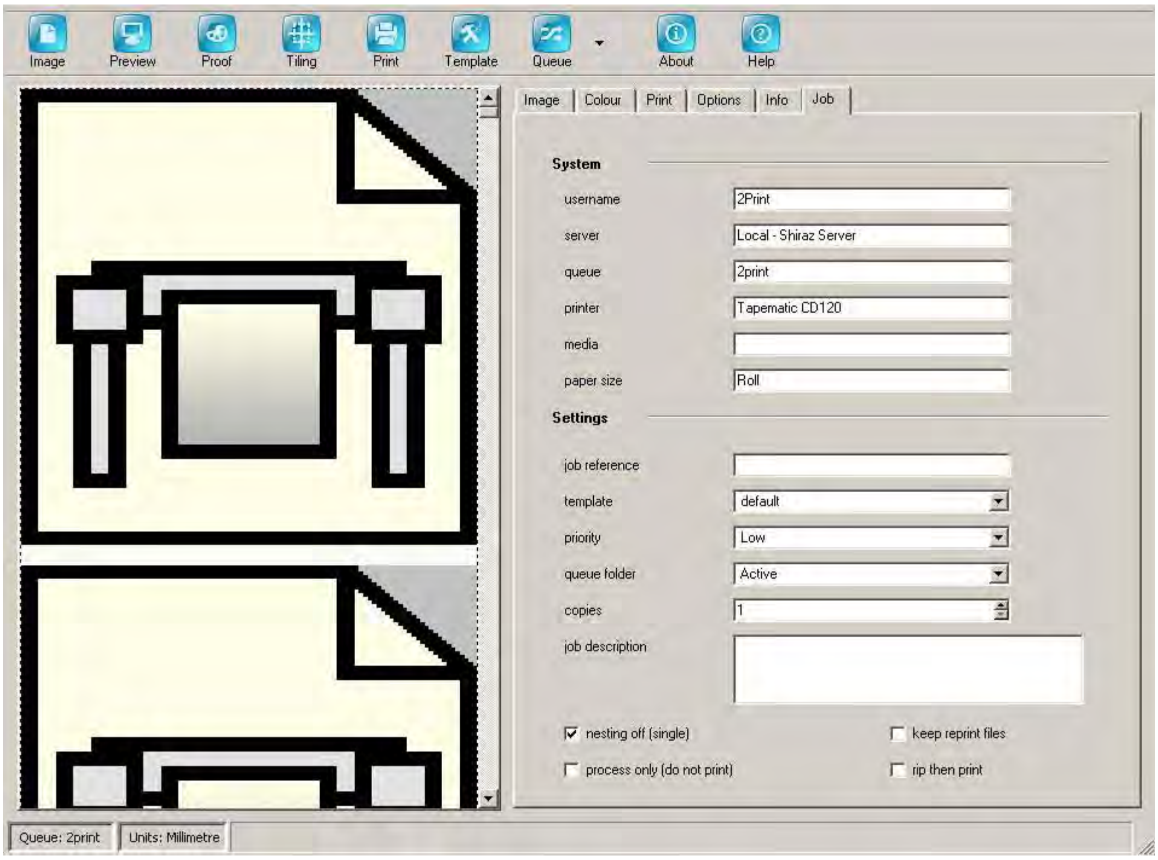
- KEEP ALL THE DEFAULT VALUES AS SHOWN IN THE IMAGE ABOVE

- FROM THE LOWER RIGHT HAND TABS SELECT **INFO**
- THE MONITOR WILL DISPLAY THE FOLLOW SCREEN



- KEEP ALL THE DEFAULT VALUES AS SHOWN IN THE IMAGE ABOVE

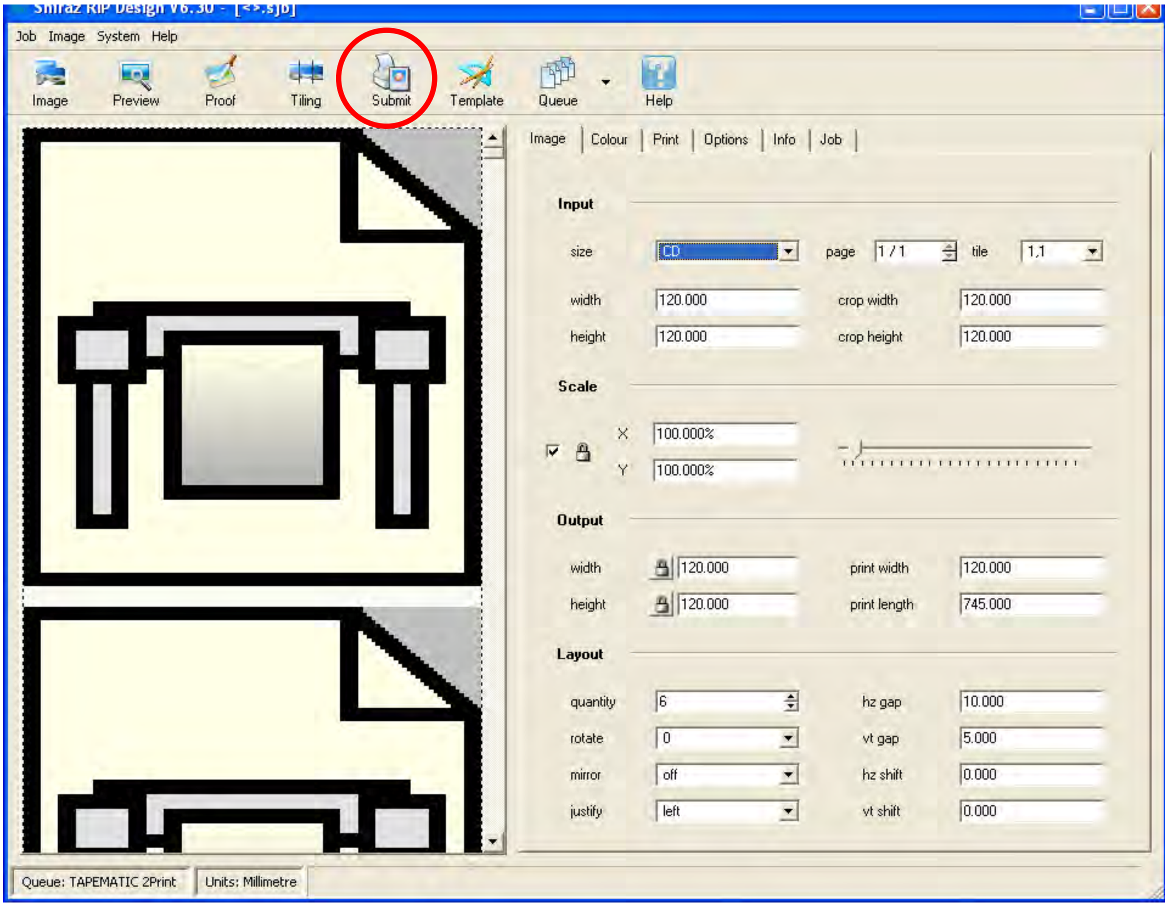
- FROM THE LOWER RIGHT HAND TABS SELECT **JOB**
- THE MONITOR WILL DISPLAY THE FOLLOW SCREEN



- CHECK THAT THE DATA INPUTTED EARLIER ARE CORRECT
- KEEP ALL THE DEFAULT VALUES AS SHOWN IN THE IMAGE ABOVE

- IN THE MAIN MENU BAR CLICK **SUBMIT**

- IN THE WIDOW WHICH WILL APPEAR CLICK **OK**



- MINIMIZE THE **DESIGN** SCREEN

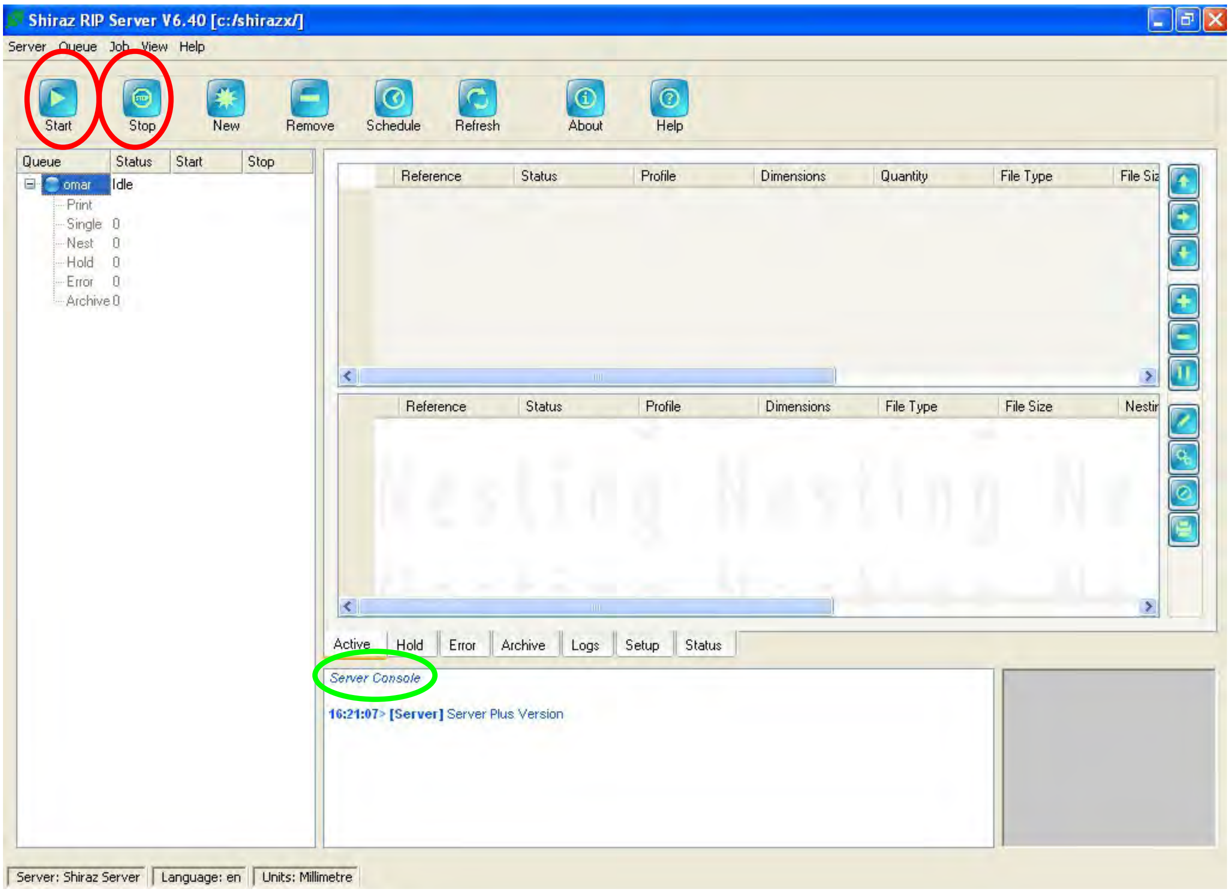
- MAXIMIZE THE **SERVER** SCREEN

- IN THE **SERVER** CONSOLE WINDOW CHECK THAT THE NAME GIVE IS CORRECT

- CLICK THE **START** ICON TO COMMENCE THE RIP PROCESS.
  THE PROGRESS OF THE RIP PROCESS WILL BE SHOWN IN THE **SERVER** CONSOLE WINDOW

- ONCE THE MESSAGE **[xxx] PROCESS EXIT** APPEARS IN THE **SERVER** CONSOLE WINDOW, THE RIP PROCESS IS COMPLETED

- CLICK THE **STOP** ICON TO TERMINATE THE PROCESS



N.B. **IF THE 2PRINT-mini IS CONNECTED VIA 'ETHERNET' ONCE RIPPING IS COMPLETE CLICK 'REFRESH' IN THE 'QUEUE SCREEN' TO UPDATE THE IMAGES LIST.**

THE IMAGES CAN ALSO BE TRANSFER USING A 'USB KEY' AND TRANSFER USING THE FOLLOW PATH :

2PRINT-mini COMPUTER \ DESKTOP \ IMAGES

N.B. **FOR MORE DETAILED INFORMATION REGARDING THE 'SHIRAZ RIP SOFTWARE' CONSULT THE INFORMATION ON THE INSTALLATION DISC**


I
Leggere attentamente il manuale dell'operatore prima di far funzionare la macchina. Osservare le norme e le istruzioni di sicurezza durante il funzionamento.
F
Lire le livret d'entretien et le conseil de sécurité avant la mise en marche et en tenir compte pendant le fonctionnement.
GB
Carefully read Operator's Manual before handling the machine. Observe instructions and safety rules when operating.
D
Vor Inbetriebnahme die Betriebsanleitung und Sicherheitshinweise lesen und beachten.
E
Leer con cuidado el manual de instrucciones antes de la utilización de la máquina. Observar las normas de seguridad mientras la máquina está funcionando.


CAUTION
Do not open while machinery is in motion.
Brimar 800-274-6271 / E2151-AA

6. GROUP DESCRIPTIONS

!!! ATTENTION !!!

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- **IT IS ABSOLUTELY FORBIDDEN TO TAMPER OR REMOVE SAFETY DEVICES OR MODIFY ELECTRICALLY OR MECHANICALLY THE MACHINE**
- **PRESS THE "STOP" OR "IDLE PRIOR TO WORKING INSIDE THE MACHINE OR OPENING THE PANELS**
- **DO NOT TOUCH ANY ELECTRICAL DEVICES WITH WET HANDS OR OTHER PARTS OF THE BODY**
- **ALWAYS USE PROTECTIVE GLASSES AND GLOVES WHEN WORKING WITH OR TOUCHING THE UV LAMP OR INKS**
- **DO NOT LOOK DIRECTLY INTO THE RAYS OF THE UV LAMP**
- **IN CASE OF AN EMERGENCY IMMEDIATELY PUSH THE EMERGENCY "RED MUSHROOM"**
- **THE MANUFACTURER CAN NOT BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED TO PERSONS OR MACHINERY DUE TO LACK OF OBSERVATION OF THE SAFETY REGULATIONS IN THE COUNTRY OF INSTALLATION**

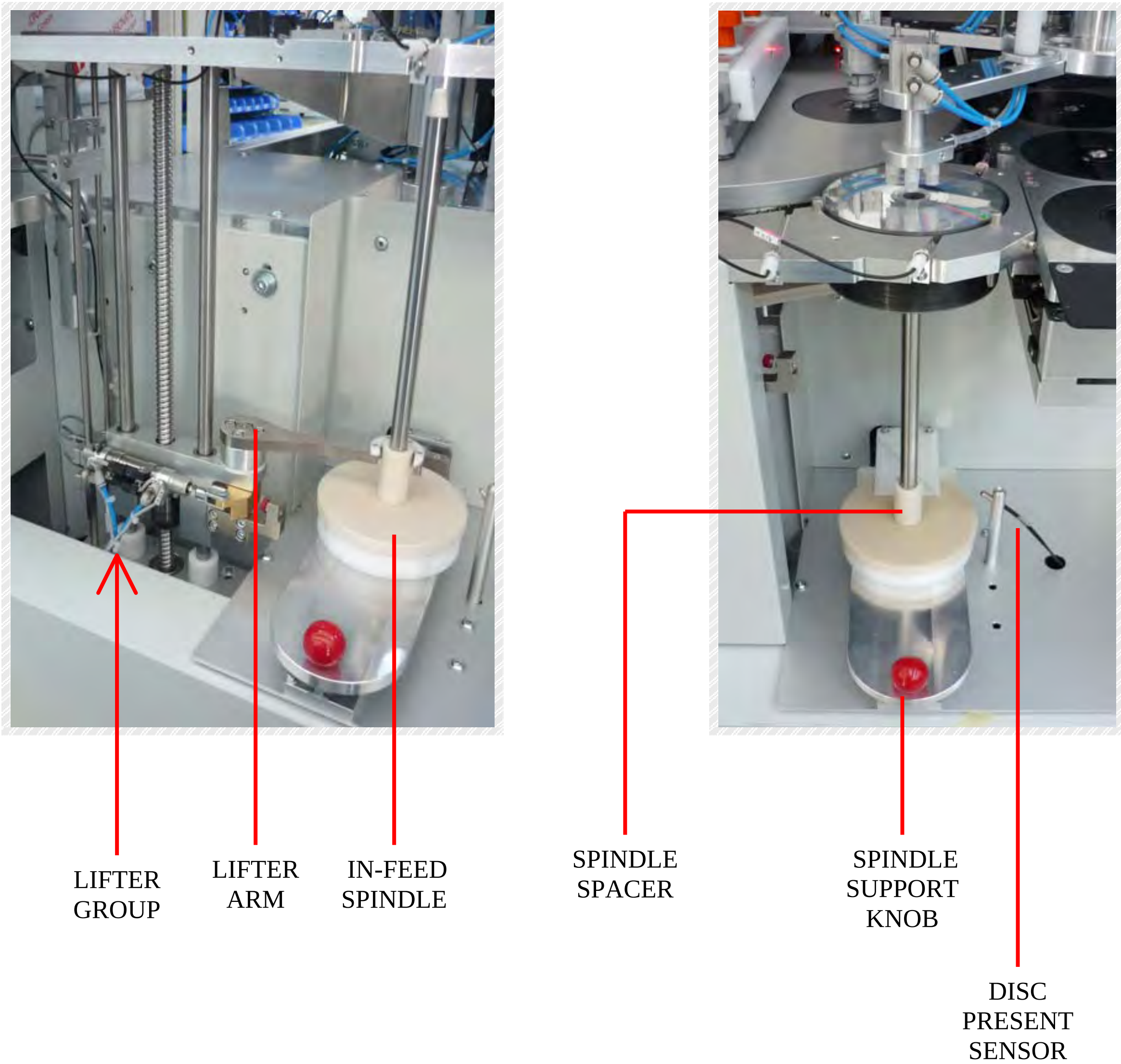
6.01 DISC LOADING

THE **LIFTER GROUP** RAISES THE DISCS TO BE PRINTED VERTICALLY SO THEY CAN BE PICKED UP BY THE TRANSFER ARMS.

THE **IN-FEED SPINDLE** IS USED TO STORE THE DISCS TO BE PRINTED.

THE SPINDLE CAN HOLD A MAXIMUM OF 160 DISCS, WITH A STANDARD THICKNESS OF 1.5 mm.

THE SPINDLE MUST HAVE A **SPINDLE SPACER** TO ENABLE THE LIFTER TO ENTER UNDER THE DISCS.



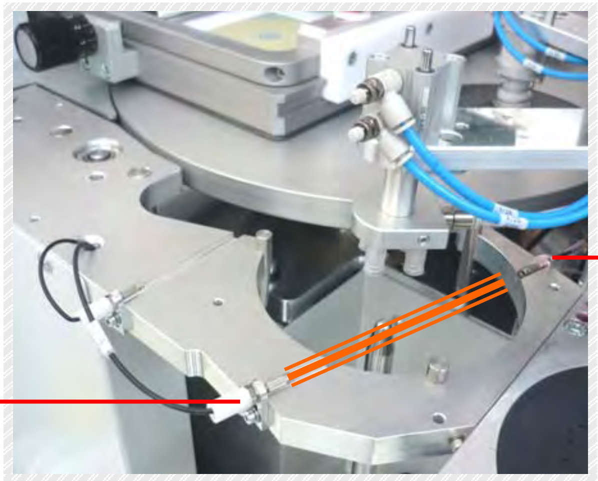
TO LOAD THE DISCS TO BE PRINTED PUSH THE **STOP** or **IDLE** PUSHBUTTON, PULL THE SPINDLE SUPPORT OUT BY USING THE **SPINDLE SUPPORT KNOB**, LOAD THE DISCS OR A NEW SPINDLE AND PUSH BACK INTO POSITION, THEN PRESS **START** TO RECOMMENCE PRODUCTION.

DURING PRODUCTION THE OFF-LOAD SPINDLE CAN BE PULLED OUT: THE MACHINE WILL GO AUTOMATICALLY INTO **STOP** AND THE **CHANGE SPINDLE** PUSHBUTTON WILL ALIGHT.
AFTER RE-POSITIONING THE SPINDLE, PRESS **START** TO RECOMMENCE PRODUCTION.

IF THE IN-FEED SPINDLE REQUIRES CHANGING DURING PRODUCTION, PRESS THE **CHANGE SPINDLE** : THE **LIFTER ARM** WILL GO DOWN ALLOWING THE SPINDLE TO BE REMOVED.
THE **CHANGE SPINDLE** PUSHBUTTON WILL FLASH.
ONCE A NEW SPINDLE IS LOADED, PRESS AGAIN THE **CHANGE SPINDLE** (THE LIGHT WILL GO OUT) THEN PRESS **START** TO RECOMMENCE THE PRODUCTION.

THE **LIFTER ARM** HAS THE JOB OF KEEPING THE TOP DISC OF THE STACK IN THE CORRECT POSITION SO THAT THE **IN-FEED MANIPULATOR** CAN COLLECT THE TOP DISC AND TRANSFER IT TO THE SILK SCREEN STATION.
EACH TIME THE **PHOTOCELL BARRIER** IS ‘OFF’ THE LIFT WILL RAISE.

WHEN CHANGING THE TYPE OF OPTICAL DISC SUPPORT (CD / DVD / CD±R / DVD±R / BLU RAY) WE RECOMMEND THAT THE **PHOTOCELL BARRIER** IS CHECK FOR A CORRECT FUNCTIONING BOTH MECHANICALLY THE POSITION AND ELECTRICALLY THE SENSITIVITY OF THE AMPLIFIER.



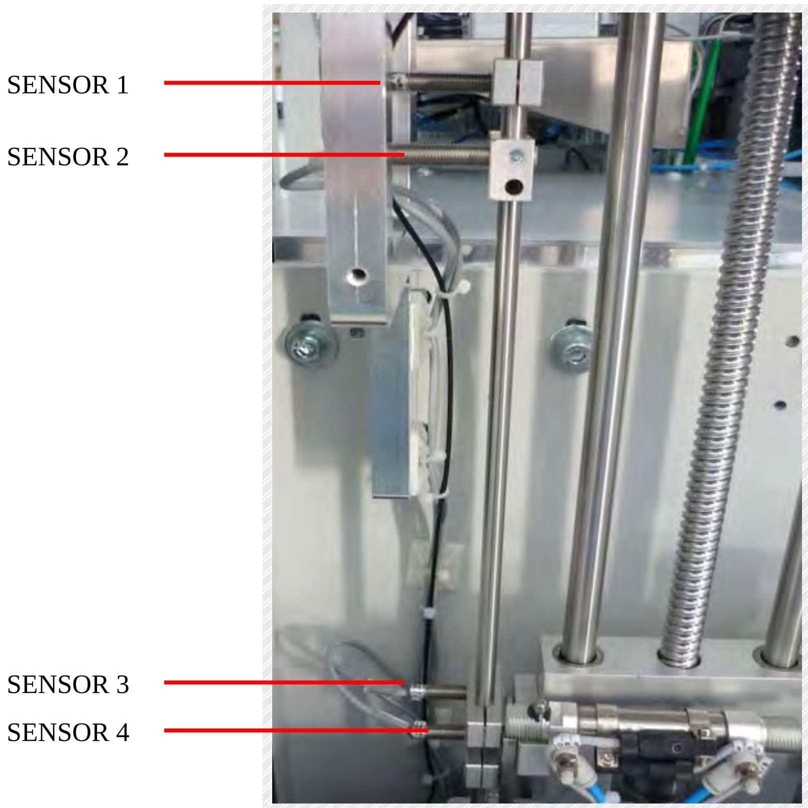
THE LIFTER ARM HAS FOUR SENSORS : TWO AT THE TOP AND TWO AT THE BOTTOM.

SENSOR 1 SAFETY LIMIT FOR UPWARD TRAVEL WHEN THE SPINDLE IS EMPTY

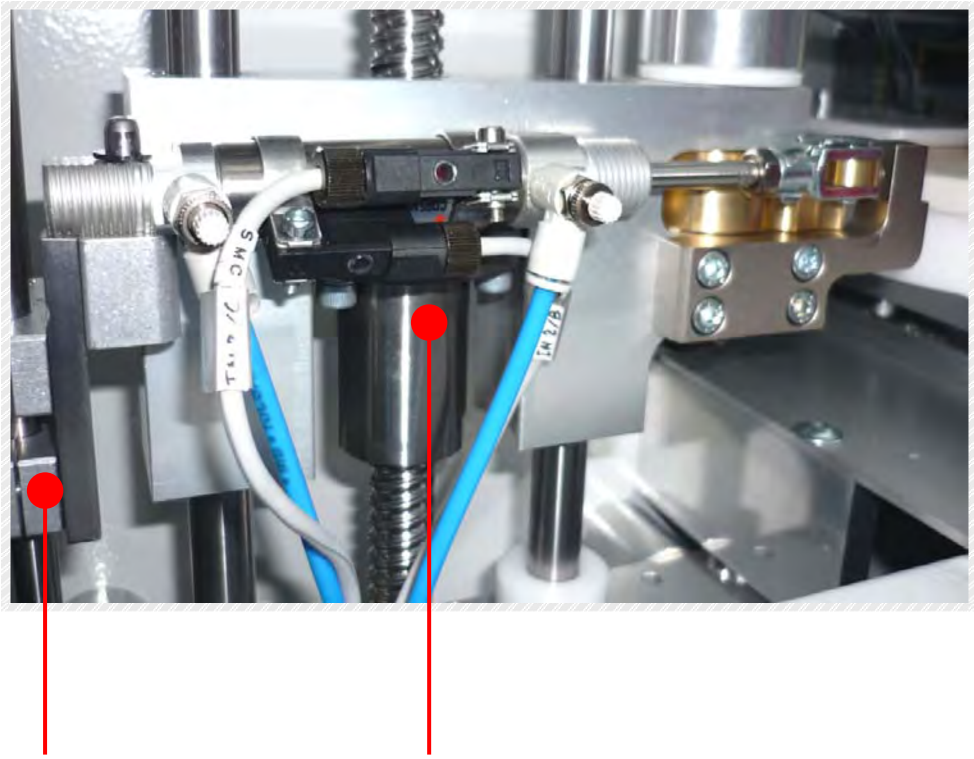
SENSOR 2 DETERMINES THE WINDOW OF TRAVEL IN THE UPWARD DIRECTION

SENSOR 3 HOMING POSITION OF THE LIFTER ARM

SENSOR 4 SAFETY LIMIT FOR THE DOWNWARD TRAVEL OF THE LIFTER ARM



IF THE LIFT FOR ANY DEFECT EXCEEDS THE SAFETY LIMIT OF **SENSOR 4** THE **LIFTER TORQUE LIMITER CLUTCH** PROTECTS THE COMPLETE GROUP FROM BEING DAMAGED.



SENSOR 4

LIFTER TORQUE
LIMITER CLUTCH

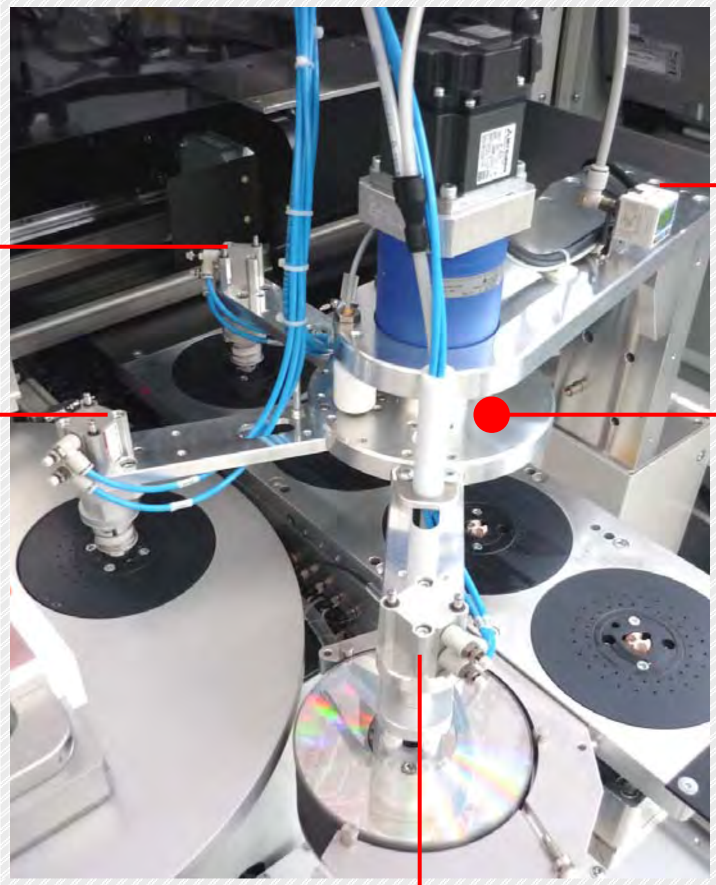
N.B. **WHEN THE IN-FEED SPINDLE IS NOT IN THE WORKING POSITION IT IS NOT POSSIBLE TO RESET THE MACHINE**

(THE RESET BUTTON IS NOT ACTIVE)

6.02 IN-FEED MANIPULATOR

THE **IN-FEED MANIPULATOR** HAS THREE ARMS **(ARMS 1-2-3)** WHICH CONTEMPORARILY COLLECT AND DEPOSIT DISCS.

PICTURE SHOWS THE IN-FEED MANIPULATOR IN HOMING POSITION



ARM 1 SUCTION CUPS

ARM 1 PICKS UP DISCS FROM THE IN-FEED SPINDLE AND DEPOSITS THEM ON THE SILK SCREEN TABLE USING SUCTION CUPS

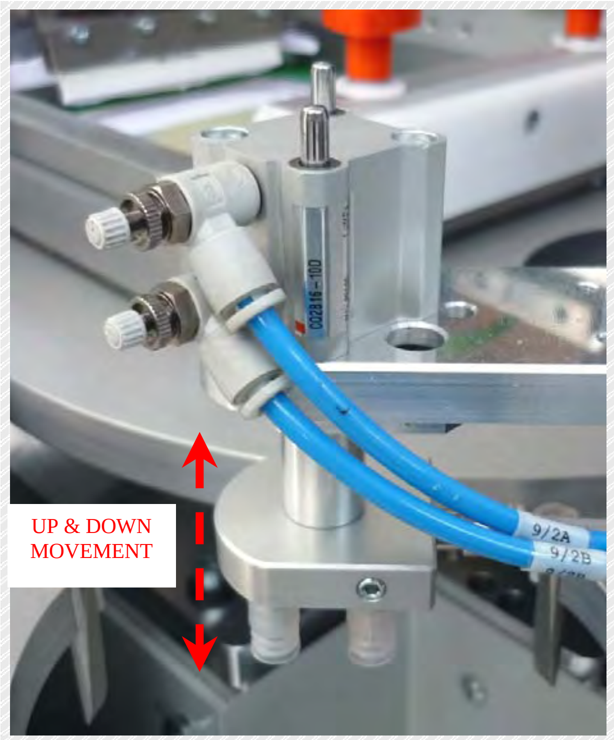
ARM 2 GRIPPER

ARM 2 COLLECTS DISCS FROM THE SILK SCREEN TABLE AND DEPOSITS THEM ON THE PRINTING SHUTTLE USING GRIPPER PINS

ARM 3 GRIPPER

ARM 3 COLLECTS DISCS FROM THE PRINTING SHUTTLE AND DEPOSITS THEM ON THE OFF-LOAD SPINDLE USING GRIPPER PINS

DURING THE COLLECT AND RELEASE OF THE DISCS THE MANIPULATOR ARMS MAKE AN **UP & DOWN MOVEMENT .**



ON TOP OF THE MANIPULATOR THERE IS A DIGITAL VACUUM SENSOR: THIS MONITORS THE LEVEL OF VACUUM ON **ARM 1.**

WHEN THE **ARM 1** IS WITHOUT DISC, THE READING WILL BE CLOSE TO ZERO **. 000 BAR** AND THE LED **'OUT'** WILL BE 'OFF'.

WHEN THE ARM 1 HAS A DISC PRESENT, THE READING WILL BE ABOUT **-.750 BAR** AND THE LED **'OUT'** WILL BE 'ON'.

IF THIS VALUE IS INCORRECT CHECK THE MAIN VACUUM SUPPLY IS **-0.80 BAR / -0.90 BAR.** or CHECK THAT THE DISC IS POSITIONED CORRECTLY ON THE SUCTION CUPS or THAT THERE IS NO LOSS OF VACUUM.

LED
"OUT"

DIGITAL
VACUUM
SENSOR
IN 2/0

N.B. **THE MINIMUM THRESHOLD OF THE MANIPULATOR ARM 1 DIGITAL VACUUM SENSOR SHOULD BE SET AT -.400 BAR**

N.B. **FOR MORE DETAILED INFORMATION REGARDING THE DIGITAL VACUUM SENSOR SEE SECTION 6.08**

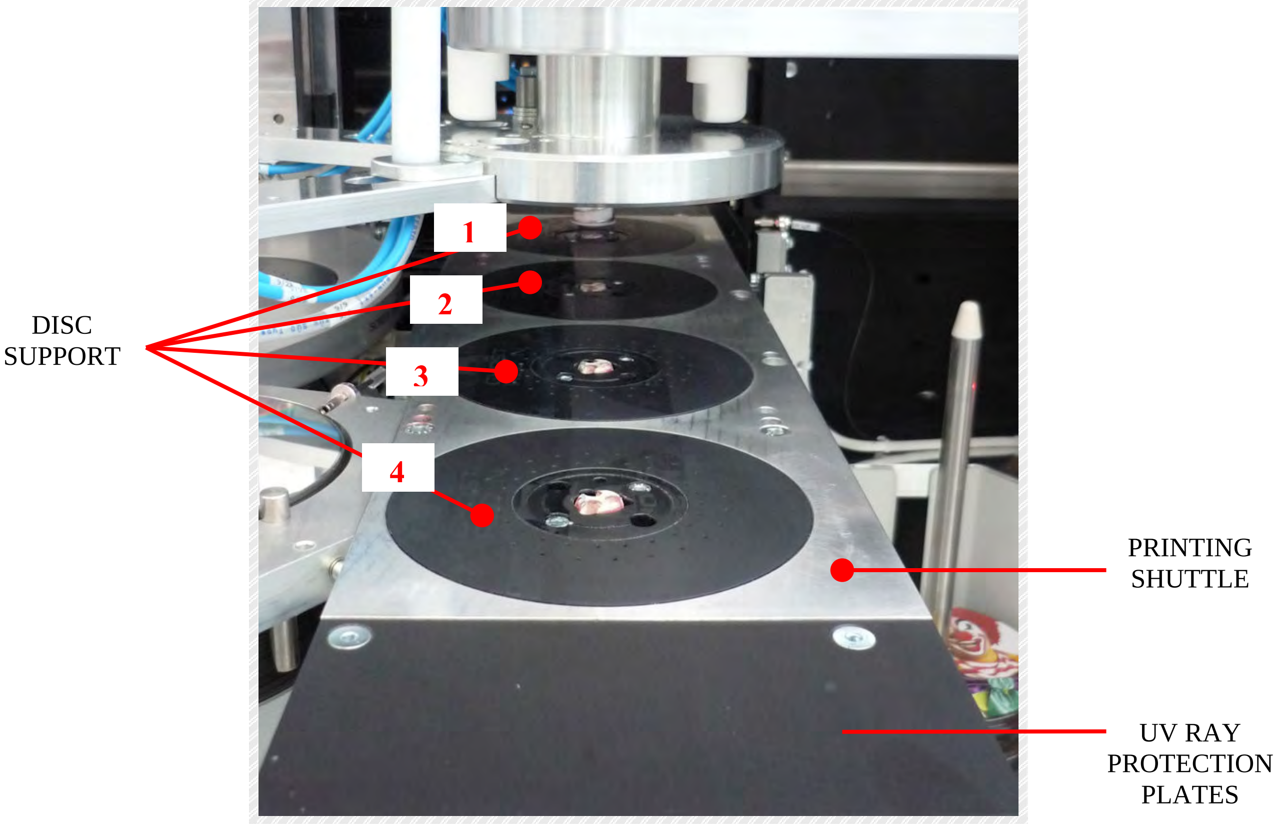
6.03 PRINTING SHUTTLE

THE **PRINTING SHUTTLE** IS CONTROLLED BY A LINEAR MOTOR AND IS MADE UP MAINLY OF FOUR **DISC SUPPORTS (DISC SUPPORT 1-2-3-4).**

PRINTING IS PERFORMED IN A BI-DIRECTIONAL MODE : THIS MEANS THE DISC IS PRINTED EACH TIME THE PRINTING SHUTTLE MOVES.

ONCE THE DISCS ARE LOADED ONTO THE SHUTTLE AND UNTIL THE PRINTING PROCESS IS COMPLETED, THE FOUR DISCS WILL BE HOLD FIRMLY IN POSITION BY VACUUM : THIS VACUUM PREVENTS THE DISCS FROM MOVING.

AT THE TWO ENDS OF THE PRINTING SHUTTLE THERE ARE **UV RAY PROTECTION PLATES :** THESE EXTENSIONS PREVENT ANY STRAY UV LIGHT FROM DISPERSING WITHIN THE MACHINE.



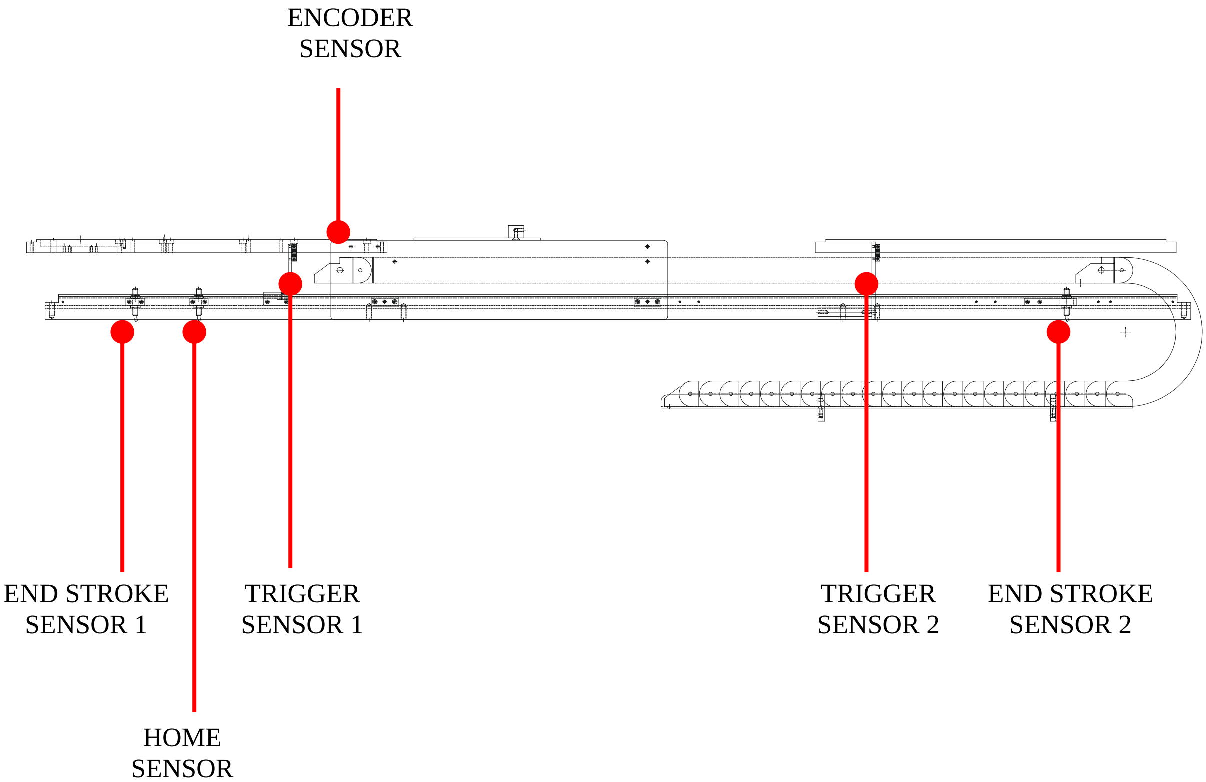
THE MOVEMENT OF THE PRINTING SHUTTLE IS CONTROLLED BY THE FOLLOWING SENSORS :

Qty. 2 **END STROKE SENSORS**

Qty. 1 **HOME SENSOR**

Qty. 2 **TRIGGER SENSORS**

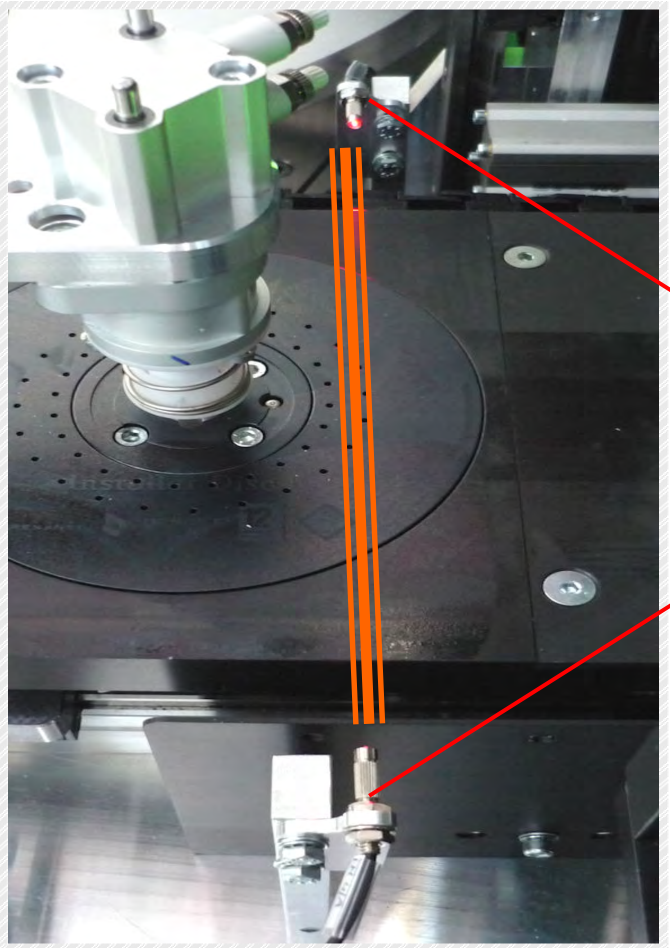
THE **TRIGGER SENSOR 1 & 2** PROVIDE THE COUNTER 'START COMMAND' CONTROLLING THE PRINT ALIGNMENT IN BOTH DIRECTIONS.



N.B. **DO NOT MOVE THE POSITION OF THE 'TRIGGER SENSORS' AS DOING SO WILL MISALIGN THE IMAGE**

JUST PRIOR TO THE UV LAMP GROUP IS MOUNTED A **PHOTOCELL BARRIER :** IF THE BARRIER IS INTERRUPTED THE PRINTING SHUTTLE WILL STOP IMMEDIATELY.

THE PHOTOCELL BARRIER CAN BE INTERRUPTED DUE TO TWO DISCS STICKING TOGETHER or THE DISCS THICKNESS BEING INCORRECT : THIS PROVIDES A PROTECTION FOR THE HEAD NOZZLES.



PHOTOCELL BARRIER

BELOW THE PRINTING SHUTTLE THERE IS A DIGITAL VACUUM SENSOR : THIS CHECKS THE LEVEL OF VACUUM ON THE FOUR **DISC SUPPORT**.

WHEN THE PRINTING SHUTTLE IS WITHOUT DISC, THE READING WILL BE CLOSE TO ZERO **. 000 BAR** AND THE LED **'OUT'** WILL BE 'OFF'.

WHEN THE PRINTING SHUTTLE HAS A DISC PRESENT, THE READING WILL BE ABOUT **-.750 BAR** AND THE LED **'OUT'** WILL BE 'ON'.

IF THIS VALUE IS INCORRECT CHECK THE MAIN VACUUM SUPPLY IS **-0.80 BAR / -0.90 BAR**

IF THIS VALUE IS INCORRECT CHECK THE MAIN VACUUM SUPPLY IS **-0.80 BAR / -0.90 BAR.** or CHECK THAT THE DISC IS POSITIONED CORRECTLY ON THE SUCTION CUPS or THAT THERE IS NO LOSS OF VACUUM.

N.B. **THE MINIMUM THRESHOLD OF THE PRINTING SHUTTLE DIGITAL VACUUM SENSOR SHOULD BE SET AT -.400 BAR**

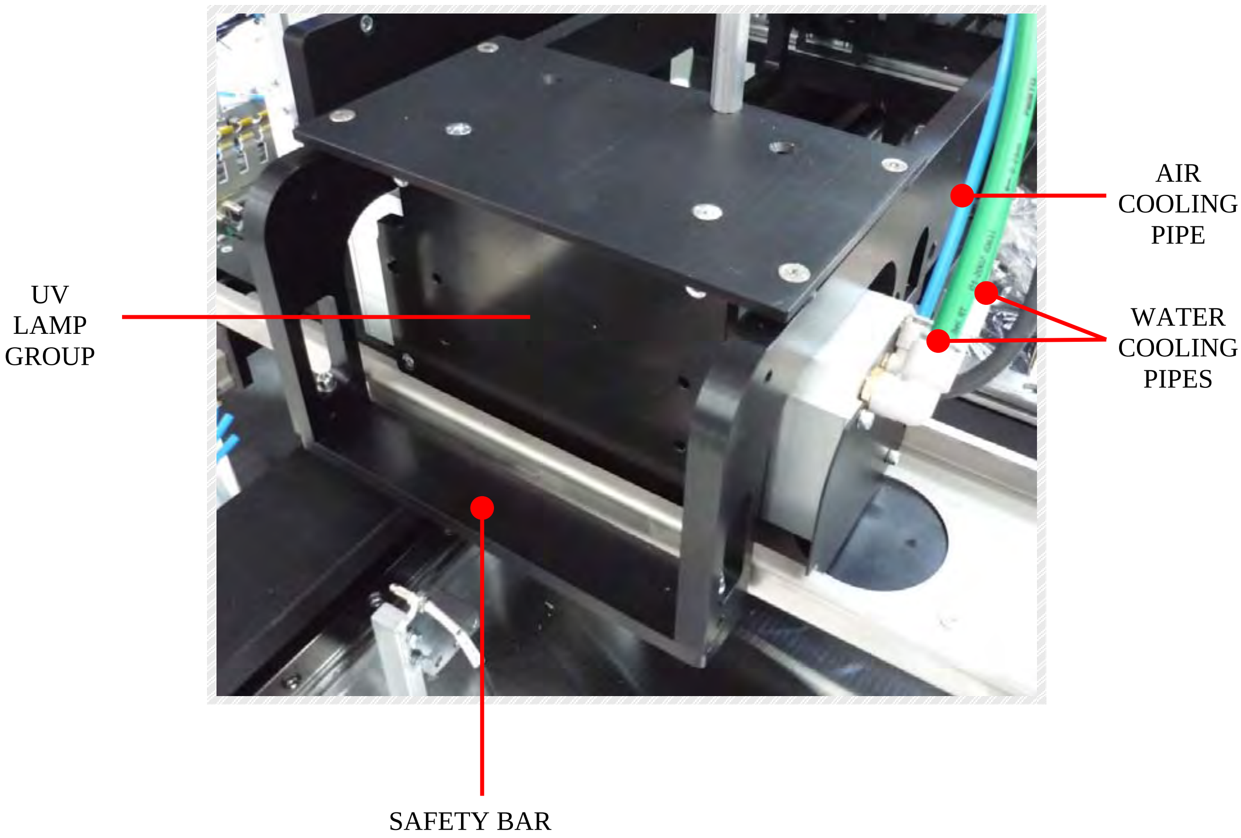
N.B. **FOR MORE DETAILED INFORMATION REGARDING THE DIGITAL VACUUM SENSOR SEE SECTION 6.08**

6.04 UV LAMP AND SHUTTERS

UV RAYS ARE DANGEROUS TO THE HUMAN EYE : DO NOT LOOK DIRECTLY AT THE UV LIGHT EMITTED BY THE LAMP.

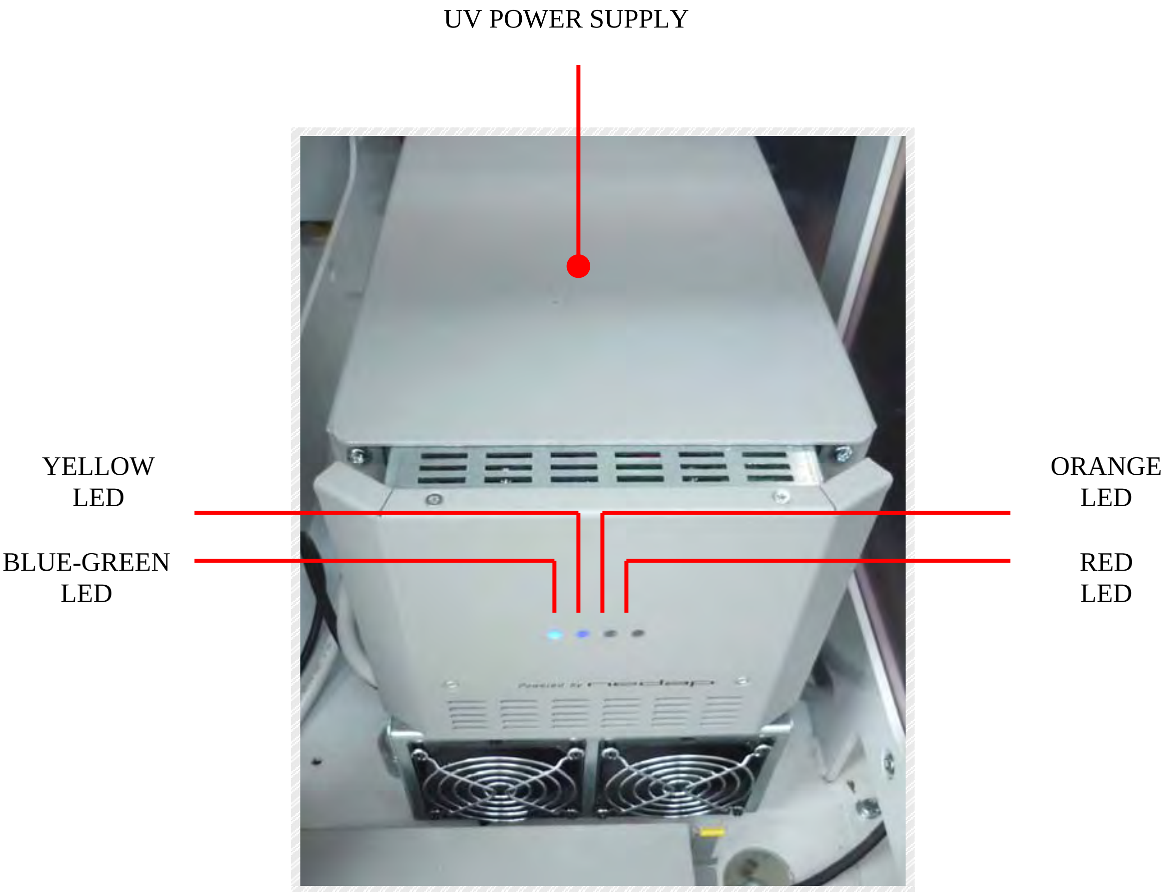
THE **UV LAMP** HAS THE FUNCTION TO CURE THE INK DEPOSITED ON THE DISCS.

AT THE ENTRANCE OF THE UV LAMP THERE IS A **SAFETY BAR** TO GUARANTEE THAT ONLY DISCS WITH A MAXIMUM THICKNESS OF 1.2 mm PASS UNDER : THIS PROVIDES A MECHANICAL SAFETY FEATURE TO PROTECT THE HEAD NOZZLES FROM CONTACT WITH SUBSTRATE MATERIAL.



THE POWER FOR THE UV LAMP COMES FROM THE **UV POWER SUPPLY** HAVING A MAXIMUM POWER OF 3800 WATTS.

THIS POWER IS ADJUSTABLE IN PERCENTAGE VIA PARAMETER **UV LAMP POWER** ON THE **UV SCREEN** PAGE OF THE SUPERVISOR.



THE STATE OF THE POWER SUPPLY AND LAMP IS GIVEN VIA FOUR LEDS POSITIONED ON THE FRONT OF THE UNIT.

BLUE-GREEN LED	→	LAMP 'ON'
RED LED	→	SYSTEM IN ERROR
ORANGE LED	→	LAMP DRIVER IN ERROR
YELLOW LED	→	LAMP IN ERROR

THE UV BULB IS COOLED BY A JET OF COMPRESSED AIR **(AIR COOLING PIPE).**
THE HEAT GENERATED BY THE LAMP IS REMOVED BY THE DEIONISED WATER PASSING THROUGH QUARTZ WATER TUBE BELOW THE UV BULB.

THE AIR COOLING IS CONTROLLED BY TWO **AIR COOLING VALVES** AND ADJUSTED BY TWO **AIR COOLING REGULATORS** , THE PRESSURE OF WHICH CAN BE CHECKED ON THE **DIGITAL PRESSURE SENSOR.**

AIR COOLING VALVES

AIR COOLING REGULATORS

DIGITAL PRESSURE SENSOR **IN 4/8**

WHEN THE MACHINE IS IN **IDLE** THE VALVE **24V UV AIR BLOW** IS 'ON' : THIS KEEPS THE LAMP COOL WITH A MINIMUM LEVEL OF AIR FLOW.
THE DIGITAL PRESSURE SENSOR WILL INDICATE ABOUT **. 280 BAR** ADJUSTABLE WITH THE **24V AIR COOLING REGULATOR** AND THE LED **'OUT'** WILL BE 'OFF'**.**
IN **IDLE** MODE THE CONSUMPTION OF AIR IS ABOUT **60 Lt/min**.

WHEN THE MACHINE IS IN **START** THE VALVES **24V UV AIR BLOW** AND **D/5** ARE 'ON' : THIS KEEPS THE LAMP COOL WITH A HIGHER LEVEL OF AIR FLOW.
THE DIGITAL PRESSURE SENSOR WILL INDICATE ABOUT **.950 BAR** ADJUSTABLE WITH THE **D/5 AIR COOLING REGULATOR** AND THE LED **'OUT'** WILL BE 'ON'.
IN **START** MODE THE CONSUMPTION OF AIR IS ABOUT **100 Lt/min.**

DIGITAL
PRESSURE
SENSOR

LED
"OUT"

N.B. **THE THRESHOLD OF THE DIGITAL PRESSURE SENSOR SHOULD BE SET BETWEEN .220 BAR AND 1.000 BAR**

N.B. **FOR MORE DETAILED INFORMATION REGARDING THE DIGITAL PRESSURE SENSOR SEE SECTION 6.09**

THE AIR FOR THE UV LAMP IS FILTERED TWICE : ONE OF **1.0 micron** AN OTHER OF **0.01 micron** .

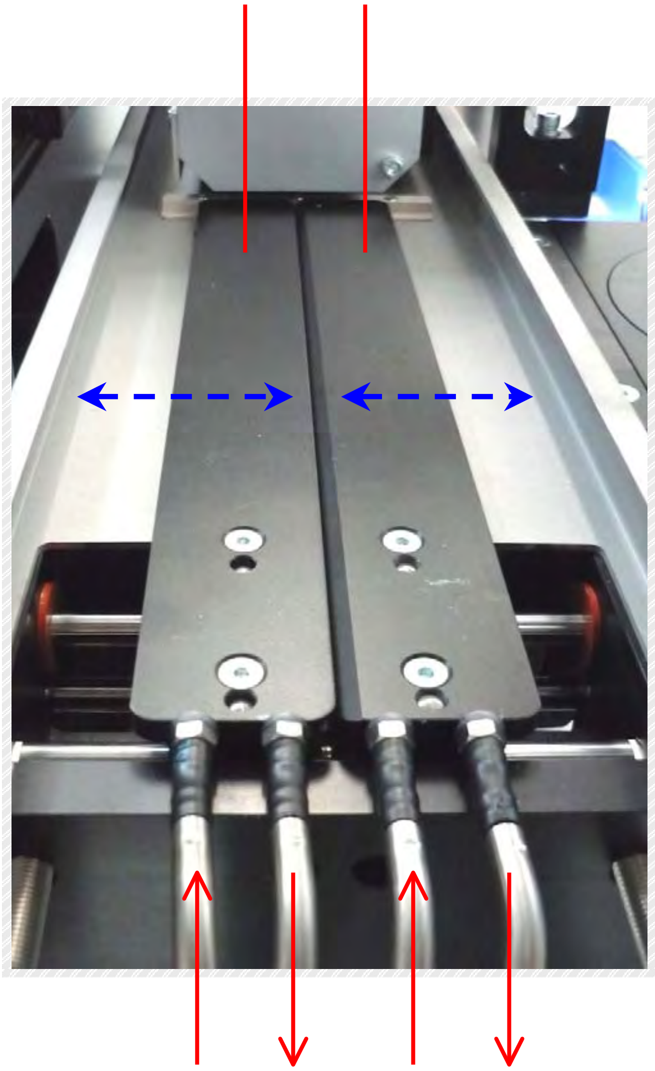
ANY CONDENSED WATER WILL BE RELEASED EXTERNAL TO THE MACHINE VIA **CONDENSE RELEASING PIPES.**

UNDER THE UV LAMP THERE ARE TWO **SHUTTERS.**

DEPENDING UPON THE SETTING IN THE SUPERVISOR PAGE **(UV SCREEN – DRY MODE SELECTION)** EACH TIME THE PRINTING SHUTTLE MOVES, THE SHUTTERS WILL OPEN AND CLOSE TO ALLOW THE UV RAYS TO MAKE CONTACT WITH THE INK AND CURE TO A DRY STATE.

THE **SHUTTERS** ARE COOLED DUE TO A CONSTANT FLOW OF DEIONISED WATER VIA **COOLING WATER PIPES.**

SHUTTERS



COOLING WATER PIPES

N.B. **THE MOVEMENT OF THE SHUTTERS MUST BE FAST BUT WITHOUT MAKING NOISE : THEY MUST ALSO BE SYNCHRONIZED**

6.05 PRINT HEADS GROUP

PRINTING THE DIGITAL IMAGE IS ACHIEVED BY USING INKJET HEADS OF THE TYPE **‘DROP ON DEMAND’.**

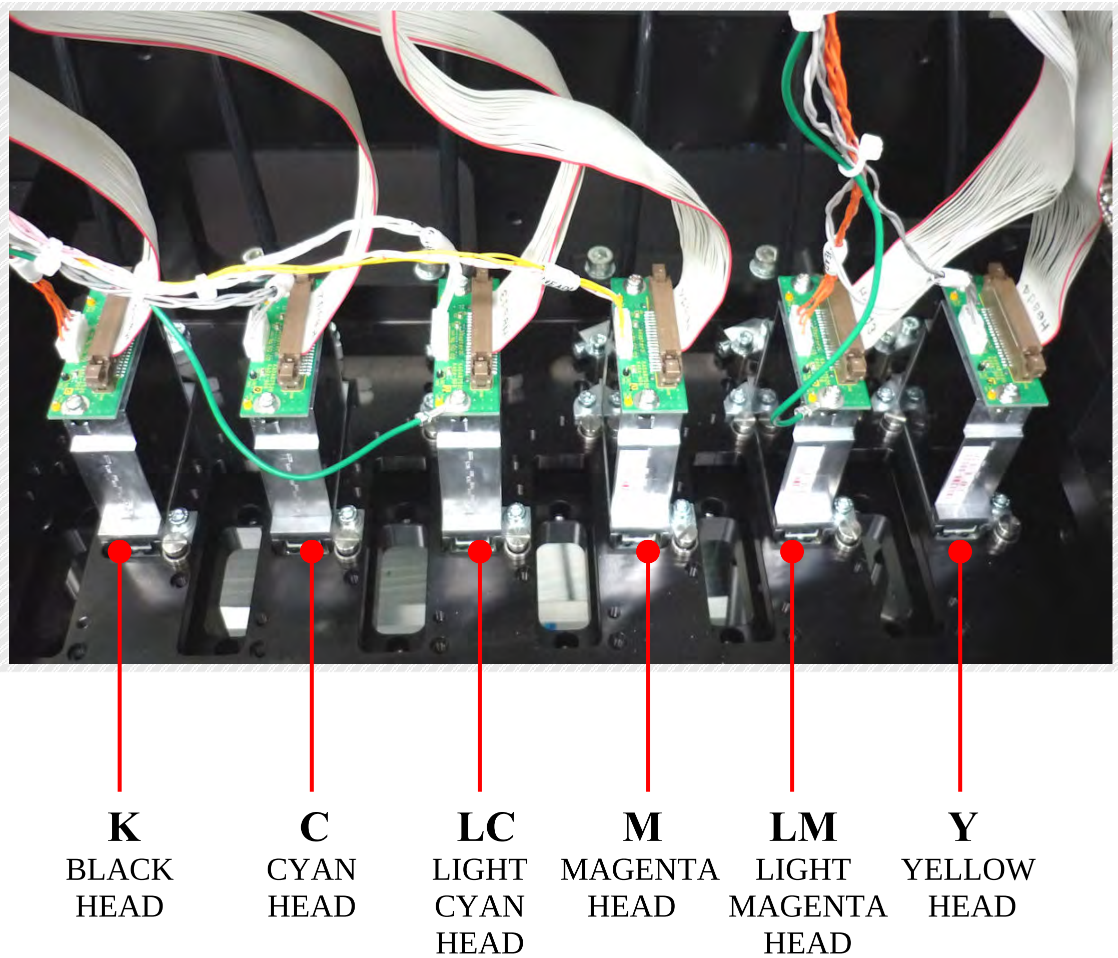
PRINTING IS CARRIED OUT BI-DIRECTIONALLY : THIS MEANS INK IS LAID DOWN EACH TIME THE PRINTING SHUTTLE PASSES UNDER THE HEADS.

EACH HEAD HAS A SMALL **PCB** TO CONNECT THE FLAT CABLE COMING FROM THE CORRESPONDENT CONTROL BOX TO THE HEAD.

THE RIBBON CABLE CONTAINS THE PRINTING DATA.

THE SINGLE WIRES CONTAIN THE HEAD TEMPERATURE CONTROL : THE TEMPERATURE IS CONTROL VIA THERMOSTAT MOUNTED WITHIN THE HEAD.

PICTURE SHOWS 6 HEADS VERSION



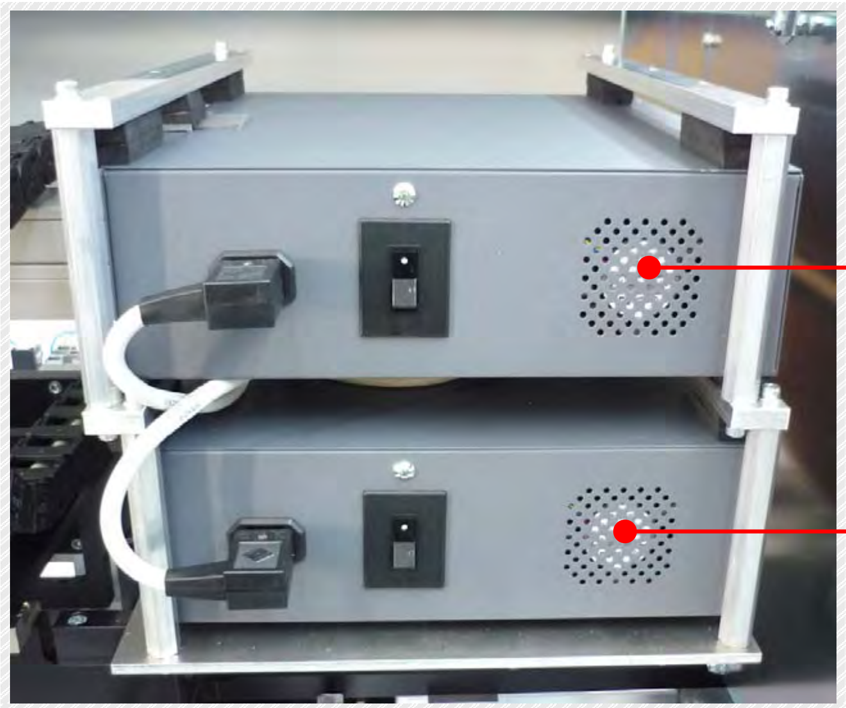
THE **FOUR HEADS - FOUR COLOURS VERSION** HAS ONLY ONE HEAD CONTROL BOX NAMED **HEAD BOX 1 ,** CONTROLLING THE DATA FOR **K / C / M / Y .**

IN THE **FOUR HEAD - FOUR COLOUR VERSION** THE **HEAD BOX 2** IS NOT MOUNTED.

THE **SIX HEADS - SIX COLOURS VERSION** HAS TWO CONTROL BOXES :

HEAD BOX 1 CONTROLLING THE DATA FOR THE HEADS **K / C / LC / M**

HEAD BOX 2 CONTROLLING THE DATA FOR THE HEADS **Y / LM**



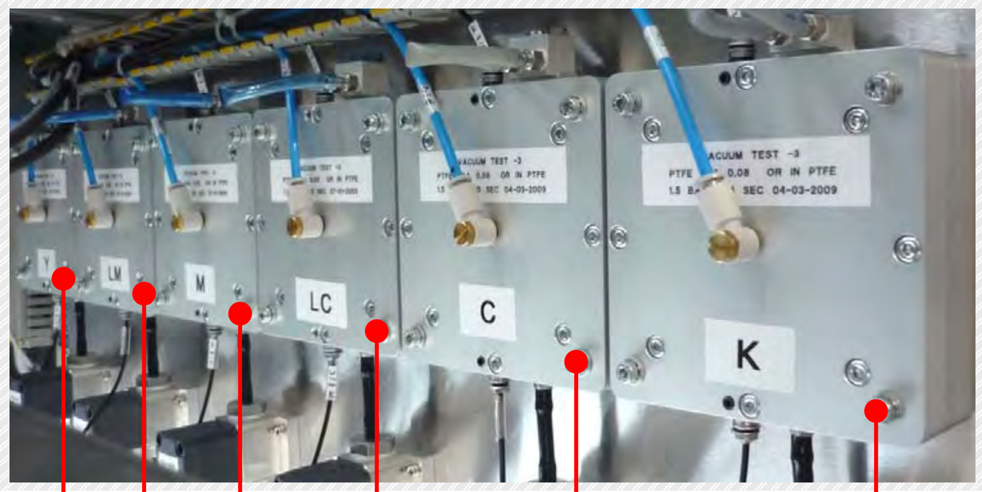
HEAD
BOX 2
(only for 6 heads version)

HEAD
BOX 1

N.B. **THE RECOMMENDED HEADS TEMPERATURE IS BETWEEN 40° C AND 42° C**

THE INK BUFFER ISOLATES THE INK SUPPLY **BAG IN BOX** FROM THE **HEAD.**

EACH BUFFER SUPPLIES ONE HEAD.



Y
YELLOW
HEAD

M
YELLOW
HEAD

LC
LIGHT
CYAN
HEAD

C
CYAN
HEAD

K
BLACK
HEAD

LM
LIGHT
MAGENTA
HEAD

INK BUFFER
FIBRE SENSOR
(receiver)

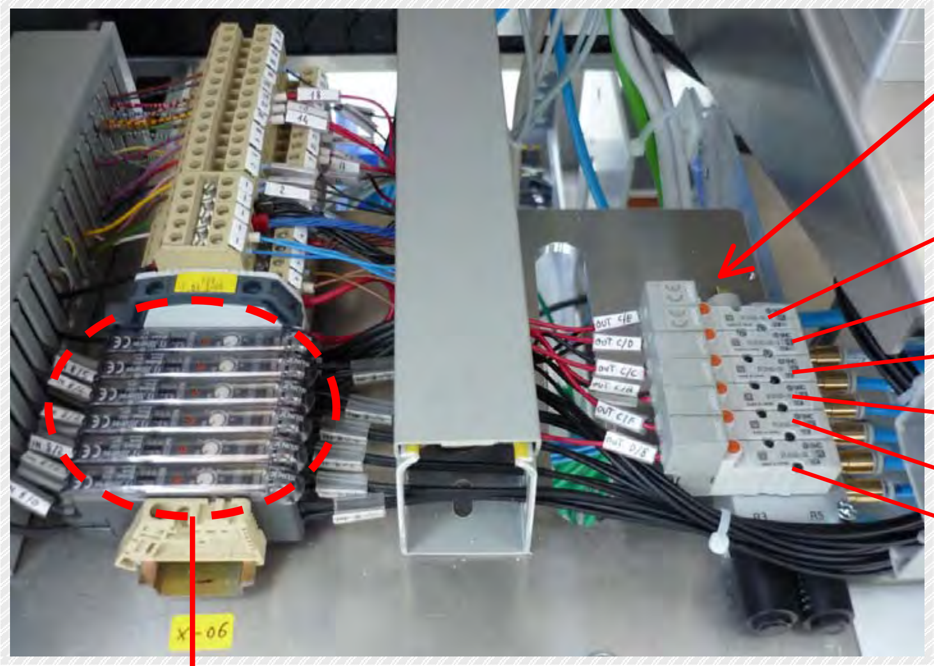
INK BUFFER

INK BUFFER
FIBRE SENSOR
(transmitter)

BUFFER VALVE

BUFFER
PNEUMATIC
VALVE
REGULATOR

THE AMOUNT OF INK HELD WITHIN THE BUFFER IS CLOSELY CONTROLLED BY A FIBER SENSOR.
EACH TIME THE **RED** LED OF THE **INK BUFFER AMPLIFIER** GOES 'OFF' , THE CORRESPONDENT **BUFFER VALVE** OPENS AND ALLOWS INK TO FLOW FROM THE BAG IN BOX INTO ITS BUFFER.
WHEN THE LED TURNS 'ON' , THE BUFFER IS FULL AND THE **BUFFER VALVE** WILL BE CLOSED.



BUFFER PNEUMATIC VALVES

C/E BLACK

C/D YELLOW

C/C MAGENTA

C/B CYAN

C/F L. MAGENTA

D/8 L. CYAN

8/5 LIGHT CYAN

8/4 LIGHT MAGENTA

8/3 BLACK

8/2 YELLOW

8/1 MAGENTA

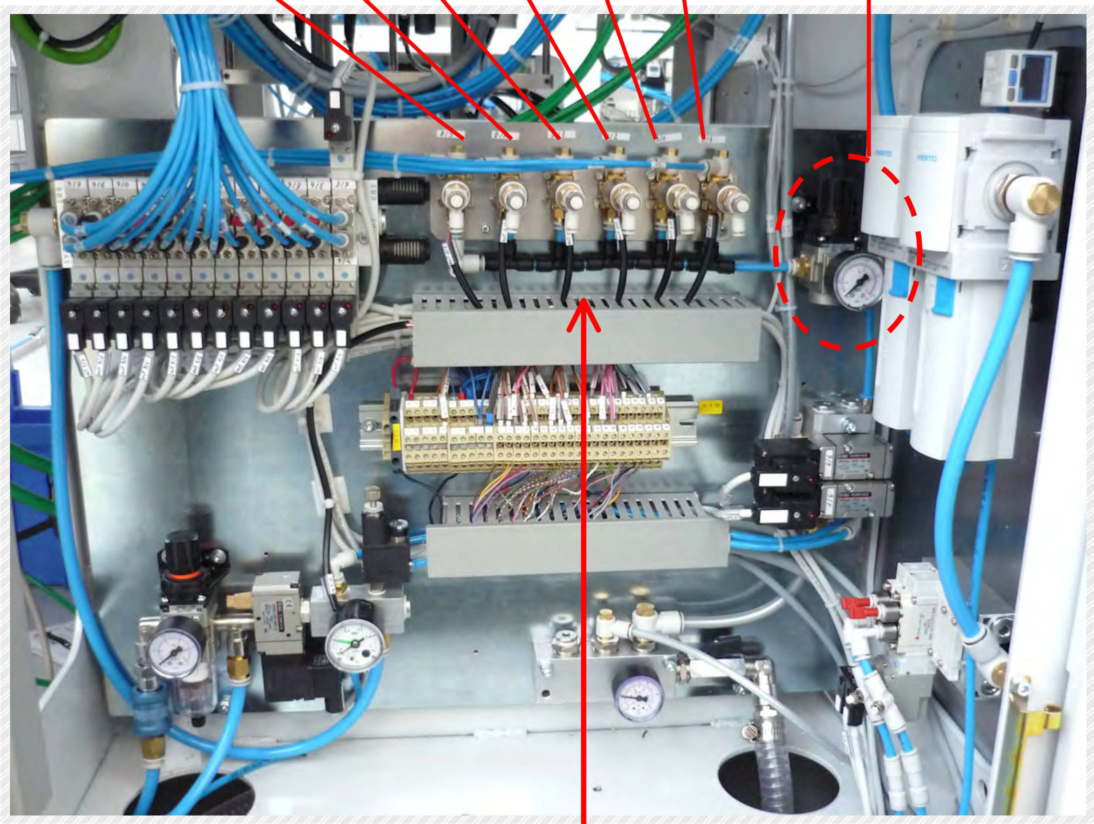
8/0 CYAN

INK BUFFER AMPLIFIERS

RED LED 'ON' = BUFFER FULL

RED LED 'OFF' = BUFFER REQUIRES TOP-UP

N.B. **FOR DETAILS REGARDING THE SETTINGS OF THE AMPLIFIERS SEE SECTION 6.11**

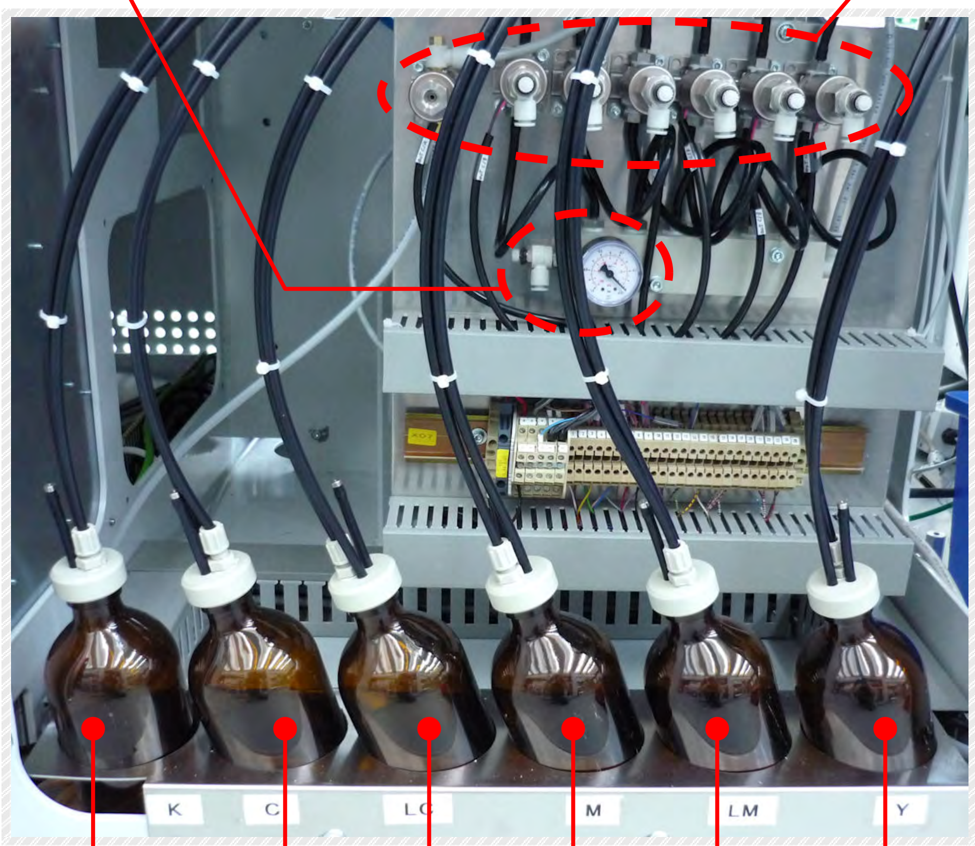


N.B. **FOR HEADS CLEANING PROCEDURE, SEE SECTIONS 4.02.08 AND 7.01.03**

6.05.01 INK RECYCLING

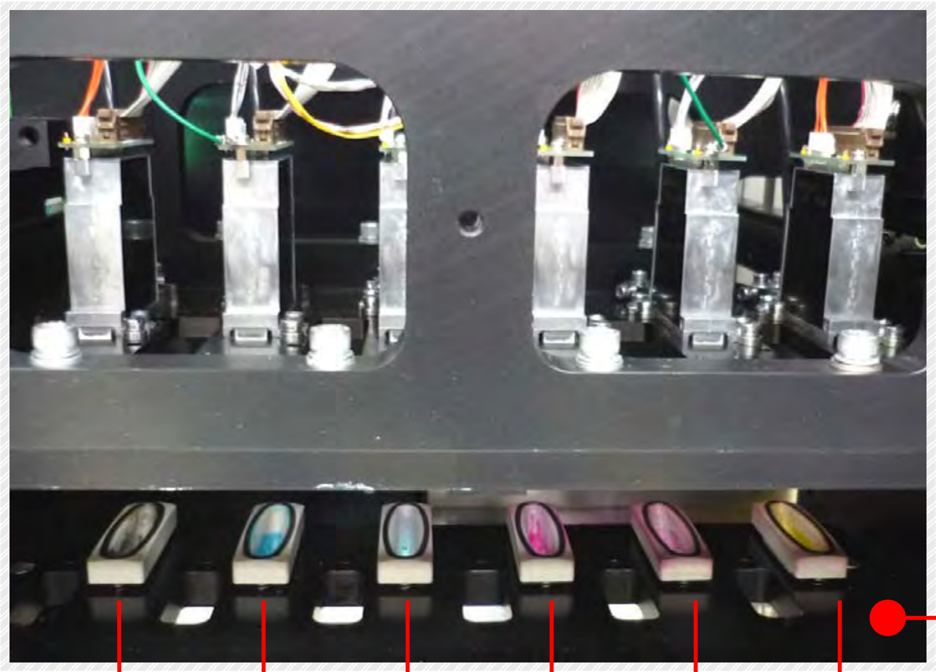
THE INK WHICH FLOWS THROUGH THE HEADS DURING **PURGE / VACUUM / FILL / CLEAN ALL / / FLUSH** SEQUENCES IS RECOVERED INTO THE **RECYCLING BOTTLES.**

THE GROUP OF **INK RECYCLING VACUUM VALVES** IS ACTIVATED ONLY WHEN THE **VACUUM** CLEANING METHOD IS SELECTED.



DURING THE AUTOMATIC CLEANING PROCESS THE HEADS GROUP WILL MOVE INTO THE CLEANING POSITION AND THE **INK WELL PLATE** WILL RAISE SO THAT THE HEADS REST WITHIN THE INK WELLS DURING THE CLEANING PROCEDURE.

PICTURE SHOWS 6 HEADS VERSION



N.B. **CHECK AT REGULAR INTERVALS THAT THE INK RECYCLING BOTTLES ARE NOT FULL.**

ONCE THE BOTTLES ARE MORE THAN HALF FULL, EMPTY THE BOTTLES BY HOLDING THE CAP FIRM AND TWIST THE BOTTLE.

DO NOT REMOVE THE TUBES FROM THE CAP !

6.05.02 ADJUSTING THE INK QUANTITY

THE AMOUNT OF INK AT THE HEAD IS VERY IMPORTANT.

MORE INK

LOOSEN THE TWO **FIXING KNOBS.**
TURN ANTI-CLOCKWISE THE **BUFFER LEVEL REGULATOR** : THIS WILL INCREASE THE HEIGHT OF THE BUFFER GROUP.

THE **BUFFER LEVEL INDICATOR** WILL MOVE TOWARD POSITIVE VALUES.

AFTER MAKING THE ADJUSTMENT LEAVE THE MACHINE IN **IDLE** FOR ABOUT 15 MINUTES, THEN CHECK THAT THE HEADS UNDERSIDE DO NOT HAVE AN EXCESSIVE AMOUNT OF INK OR DROPS INK.

LESS INK

LOOSEN THE TWO **FIXING KNOB.**
TURN CLOCKWISE THE **BUFFER LEVEL REGULATOR** : THIS WILL LOWER THE HEIGHT OF THE BUFFER GROUP.

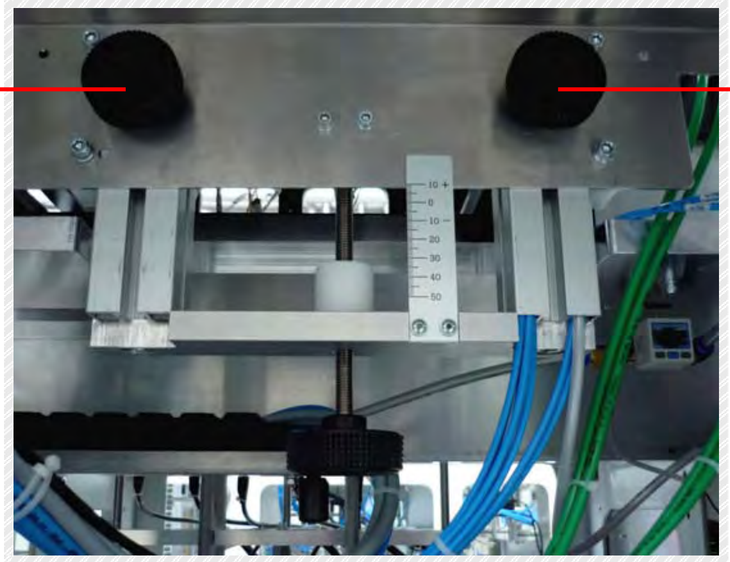
THE **BUFFER LEVEL INDICATOR** WILL MOVE TOWARD NEGATIVE VALUES.

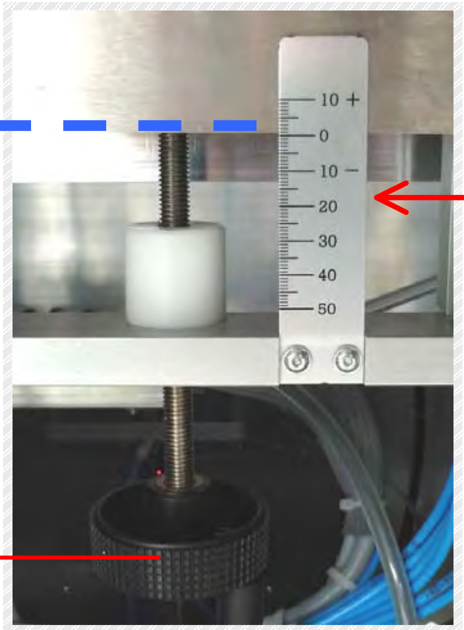
AFTER MAKING THE ADJUSTMENT LEAVE THE MACHINE IN **IDLE** FOR ABOUT 15 MINUTES, THEN CHECK BY PRINTING AN IMAGE THAT THERE IS NOT A LACK OF INK WITHIN THE IMAGE.

THE REFERENCE POINT FOR THE LEVEL OF THE BUFFER IS SHOWN IN THE NEXT PICTURE BY THE **REFERENCE LINE .**

N.B. **THE NORMAL POSITION FOR THE BUFFER GROUP IS BETWEEN + 5 mm AND - 10 mm .**

THIS MAY VARY DEPENDING UPON THE ATMOSPHERIC PRESSURE OF THE PLACE WHERE THE MACHINE IS INSTALLED





N.B. **THE NORMAL POSITION FOR THE BUFFER GROUP IS BETWEEN + 5 mm AND - 10 mm .**

THIS MAY VARY DEPENDING UPON THE ATMOSPHERIC PRESSURE OF THE PLACE WHERE THE MACHINE IS INSTALLED

6.06 OFF-LOAD SPINDLE

THE **OFF-LOAD SPINDLE** IS USED TO COLLECT THE PRINTED DISCS.

THE OFF-LOAD SPINDLE CAN HOLD A MAXIMUM OF 160 DISCS, WITH A STANDARD THICKNESS OF 1.5 mm.

THE SPINDLE MUST HAVE THE SPINDLE SPACER.

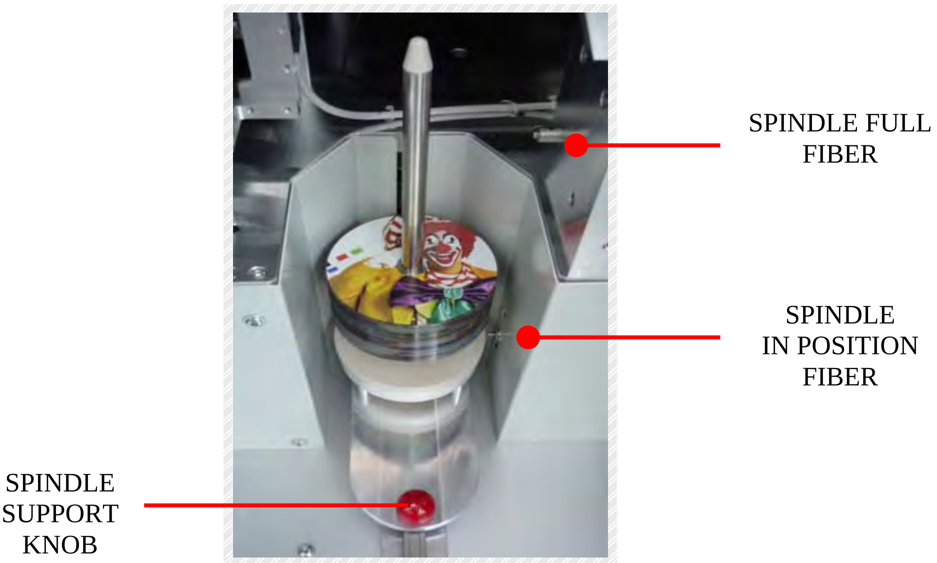
THE QUANTITY OF DISCS TO BE STORED ON EACH SPINDLE CAN BE SET ON THE **LOGS** PAGE OF THE SUPERVISOR.

OFF-LOAD SPINDLE

TO COLLECT THE PRINTED DISCS PRESS THE **STOP** or **IDLE** BUTTON: PULLING OUT ON THE **SPINDLE SUPPORT KNOB UNTIL** THE OFF-LOAD SPINDLE WILL BE FULLY EXTENDED.
ONCE THE PRINTED DISCS ARE REMOVED, PUSH THE SPINDLE BACK INTO THE WORKING POSITION AND PRESS **START.**

DURING PRODUCTION IT IS POSSIBLE TO PULL OUT THE OFF-LOAD SPINDLE: THE MACHINE WILL GO AUTOMATICALLY INTO **STOP** AND THE WHITE **CHANGE SPINDLE** PUSHBUTTON WILL ALIGHT.
ONCE THE PRINTED DISCS ARE REMOVED OR THE OFF-LOAD SPINDLE REPLACED, PUSH THE SUPPORT BACK INTO THE WORKING POSITION AND PRESS **START.**

IF THE **SPINDLE FULL FIBER** REMAINS ‘ON’ FOR MORE THAN 2 SECONDS or ONCE THE SET NUMBER OF DISCS IS REACHED, THE MACHINE WILL AUTOMATICALLY GO INTO **IDLE** AND THE YELLOW **IDLE** LIGHT WILL FLASH FAST INDICATING THAT THE OFF-LOAD SPINDLE IS FULL AND REQUIRES CHANGING.
PULLING OUT THE OFF-LOAD SPINDLE WILL MAKE THE MACHINE GO AUTOMATICALLY INTO **STOP.**
ONCE THE DISCS ARE REMOVED or THE SPINDLE HAS BEEN REPLACED, PUSH THE SPINDLE BACK INTO THE WORKING POSITION AND PRESS **START.**



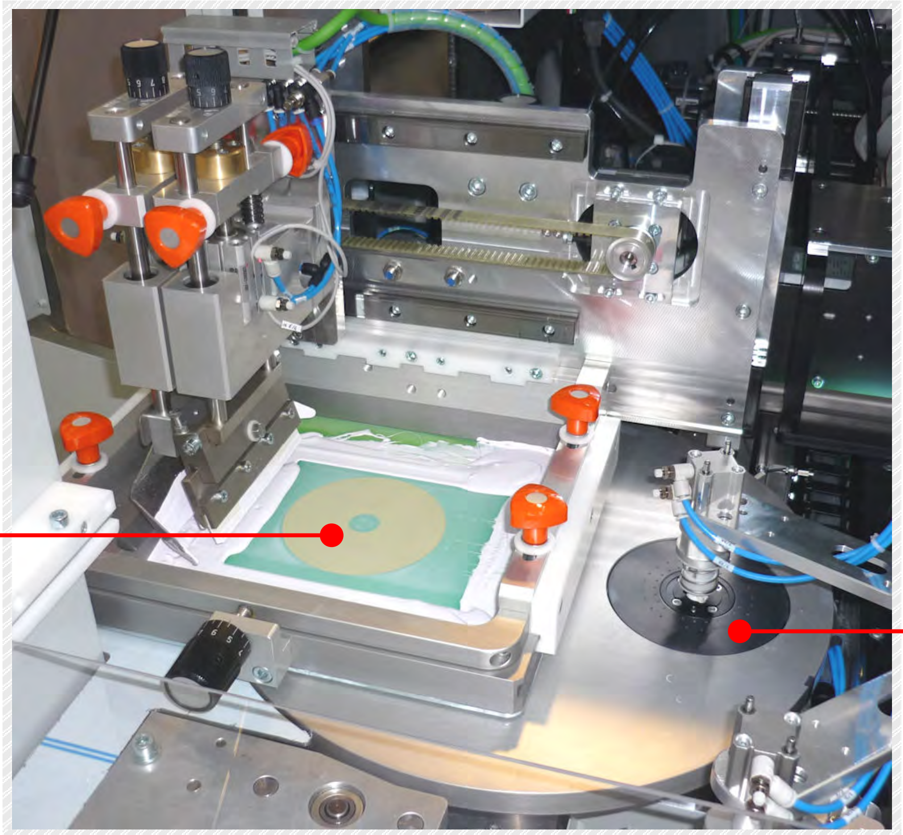
N.B. **WHEN THE OFF-LOAD SPINDLE IS NOT IN POSITION IT IS NOT POSSIBLE TO RESET ALARMS**

(THE RESET BUTTON IS NOT ACTIVE)

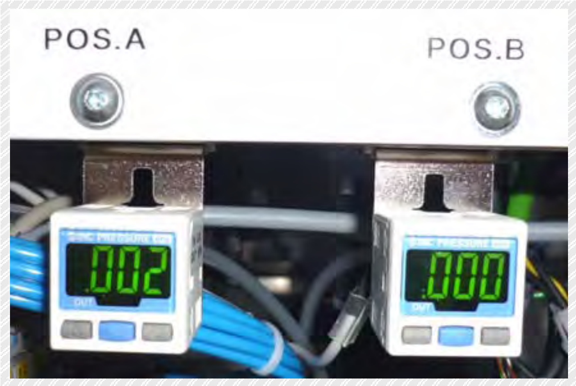
6.07 SILK SCREEN STATION

PICTURE SHOWS SILK SCREEN DIAL IN HOMING POSITION

POSITION "B"



POSITION "A"



N.B. **THE MINIMUM THRESHOLD FOR THE DIGITAL VACUUM SENSORS OF THE SILK SCREEN DIAL SHOULD BE SET AT -.500 BAR .**

FOR DETAILED INFORMATION SEE SECTION 6.08

N.B. **FOR DETAILED INFORMATION ABOUT THE DIGITAL VACUUM SENSOR SEE SECTION 6.08**

6.07.01 SILK SCREEN PUSHBUTTONS

UNIT UP / DOWN

MAINTENANCE ENABLE

STEP BY STEP

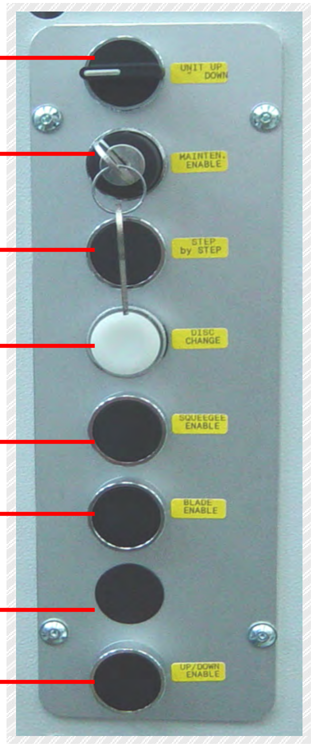
DISC CHANGE

SQUEEGEE ENABLE

BLADE ENABLE

INK PUMP (not available)

UNIT UP / DOWN ENABLE (SAFETY)



UNIT UP / DOWN

THE **UNIT UP / DOWN** SWITCH ALLOWS THE COMPLETE GROUP TO BE RAISED OR LOWERED.

TO ENABLE THIS MOVEMENT THE TOP DOOR MUST BE OPENED AND THE **MAINTENANCE ENABLE** KEY TURNED CLOCKWISE.

TO RAISE THE SILK SCREEN GROUP TURN & HOLD THE **UNIT UP / DOWN** SWITCH ANTI-CLOCKWISE WHILE PUSH & HOLD THE **UNIT UP / DOWN ENABLE (SAFETY)** : ONCE THE GROUP REACHES THE UPPER POSITION RELEASE ALL PUSHBUTTONS.

TO LOWER THE SILK SCREEN GROUP TURN & HOLD THE **UNIT UP / DOWN** SWITCH CLOCKWISE WHILE PUSH & HOLD THE **UNIT UP / DOWN ENABLE (SAFETY)** : ONCE THE GROUP REACHES THE LOWER POSITION RELEASE ALL PUSHBUTTONS.

MAINTENANCE ENABLE

THE **MAINTENANCE ENABLE** KEY ENABLES AND DISABLES THE MANUAL FUNCTIONING OF THE SILK SCREEN STATION.

WHEN THE KEY IS TURNED ANTI-CLOCKWISE OR THE KEY IS REMOVED, THE SILK SCREEN STATION IS IN AUTOMATIC MODE.

WHEN THE KEY IS TURNED CLOCKWISE THE SILK SCREEN STATION IS IN MANUAL MODE : IN MANUAL MODE IT IS IMPOSSIBLE TO REMOVE THE KEY.

TO WORK IN THE MANUAL MODE IT IS NECESSARY TO OPEN THE TOP FRONT DOOR.

STEP BY STEP & DISC CHANGE (MANUAL MODE)

SILK SCREEN COMPLETE CYCLE

- ENABLE THE MANUAL MODE BY TURNING THE **MAINTENANCE** KEY CLOCKWISE
- DURING NORMAL PRODUCTION PRESS **DISC CHANGE** : THE PUSHBUTTON WILL ALIGHT AND THE START AND STOP LIGHTS WILL FLASH
- PRESS ONCE **STEP-BY-STEP** TO CARRY OUT A COMPLETE SILK SCREEN CYCLE
- TO DISABLE THE MANUAL FUNCTION PRESS **DISC CHANGE** : THE LIGHT WILL GO ‘OFF’
- DISABLE THE MANUAL MODE BY TURNING THE **MAINTENANCE** KEY ANTI-CLOCKWISE

STEP-BY-STEP MACHINE CYCLE

- ENABLE THE MANUAL MODE BY TURNING THE **MAINTENANCE** KEY CLOCKWISE
- DURING NORMAL PRODUCTION PRESS **DISC CHANGE** : THE PUSHBUTTON WILL LIGHT AND THE START AND STOP WILL FLASH
- PRESS ONCE **STEP-BY-STEP** TO CARRY OUT A COMPLETE SILK SCREEN CYCLE
- PRESS THE **STEP-BY-STEP** FOR TWO SECONDS : THE PUSHBUTTON AND THE START AND STOP LIGHTS WILL FLASH
- AT EACH PRESS OF **STEP-BY-STEP** THE COMPLETE MACHINE STEP BY STEP PROCEDURE WILL CARRY OUT
- TO DISABLE THE MANUAL FUNCTION PRESS **DISC CHANGE** : THE LIGHT WILL GO ‘OFF’
- DISABLE THE MANUAL MODE BY TURNING THE **MAINTENANCE** KEY ANTI-CLOCKWISE

N.B. **IF AFTER TWO MINUTES FROM ENABLING THE MANUAL FUNCTION THIS OPERATION IS NOT CARRIED OUT , THE MACHINE WILL AUTOMATICALLY GO INTO ‘STOP’.**
TO RE-ENTER INTO THE MANUAL FUNCTION PRESS ‘START’ AND CHECK THAT THE ‘START-STOP’ LIGHTS FLASH

SQUEEGEE ENABLE

SQUEEGEE ENABLE MOVES THE SQUEEGEE UP AND DOWN.

PRESS THE PUSHBUTTON TO MOVE THE SQUEEGEE UP AND DOWN.

THIS MOVEMENT FUNCTIONS ONLY IN MANUAL MODE.

BLADE ENABLE

BLADE ENABLE MOVES THE BLADE UP AND DOWN.

PRESS THE PUSHBUTTON TO MOVE THE BLADE UP AND DOWN.

THIS MOVEMENT FUNCTIONS ONLY IN MANUAL MODE.

INK PUMP

THIS IS NOT AVAILABLE ON THE **2PRINT-mini** VERSION.

UNIT UP / DOWN ENABLE (SAFETY)

THIS PUSHBUTTON **UNIT UP / DOWN ENABLE (SAFETY)** NEED TO BE PRESSED TOGETHER WITH **UNIT UP / DOWN.**

THIS PROCEDURE REQUIRES BOTH HANDS TO BE USED AND REMOVES ANY DANGER OF THE OPERATOR HANDS BEING TRAPPED WITHIN THE MOVING MECHANISM.

6.07.02 SILK SCREEN MECHANICAL SET-UP

N.B. **ADJUSTMENTS AND SETTINGS OF THE MACHINE MUST BE CARRIED OUT BY QUALIFIED ENGINEERS.**
ENGINEERS MUST STRICTLY FOLLOW THE PROCEDURES SET FORTH IN THIS MANUAL

N.B. **THE ORANGE KNOBS ARE USED TO BLOCK THE MOVEMENTS, THE BLACK KNOBS TO ADJUST THE MOVEMENTS**

ENABLING AND DISABLING THE SILK SCREEN MANUAL FUNCTION

- PRESS THE **IDLE** PUSHBUTTON AND WAIT FOR THE MACHINE TO FINISH THE CYCLE (YELLOW LAMP ALIGHT)
- LIFT UP THE TOP FRONT DOOR
- TURN THE **MAINTENANCE ENABLE** KEY CLOCKWISE TO ENABLE THE MANUAL FUNCTION OF THE SILK SCREEN STATION

- TO DISABLE THE MANUAL FUNCTION LOWER THE TOP FRONT DOOR AND TURN THE **MAINTENANCE ENABLE** KEY ANTI-CLOCKWISE

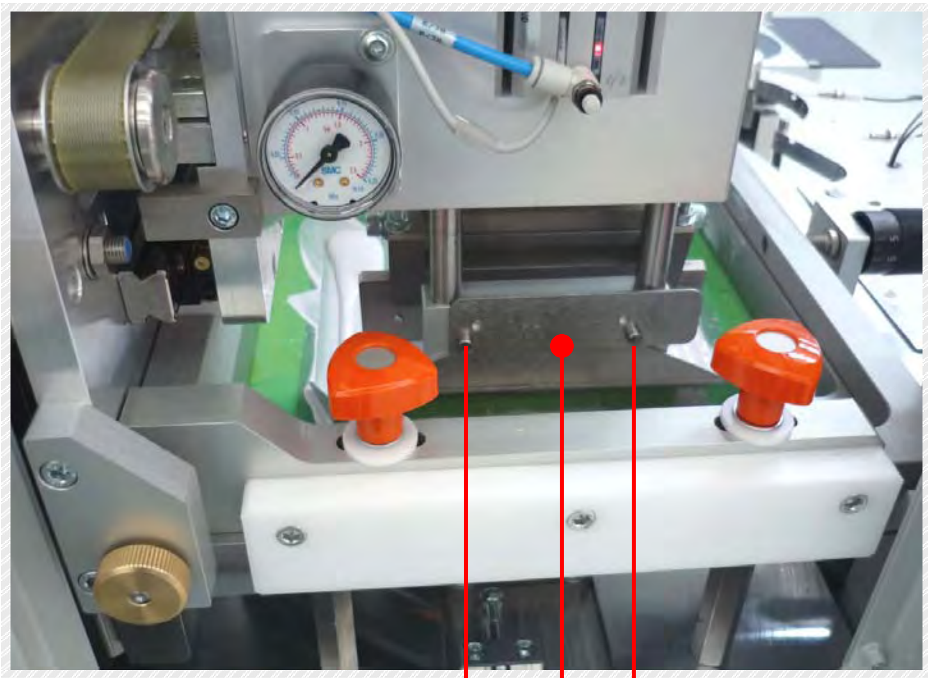
POSITIONING AND REGULATING THE BLADE

- LIFT THE TOP FRONT DOOR AND PLACE THE MACHINE IN MANUAL MODE

- RAISE THE SILK SCREEN GROUP.

  TO RAISE THE SILK SCREEN GROUP TURN & HOLD THE **UNIT UP / DOWN** SWITCH ANTI-CLOCKWISE WHILE PUSH & HOLD THE **UNIT UP / DOWN ENABLE (SAFETY)** : ONCE THE GROUP REACHES THE UPPER POSITION RELEASE ALL PUSHBUTTONS

- POSITION THE BLADE SO THAT THE CURVED SECTION IS TOWARDS THE SQUEEGEE THEN INSERT INTO THE **PINS** : THE BLADE WILL BE HELD IN POSITION BY A MAGNET ON ITS SUPPORT



- PRESS THE PUSHBUTTON **BLADE ENABLE** TO LOWER THE DEVICE

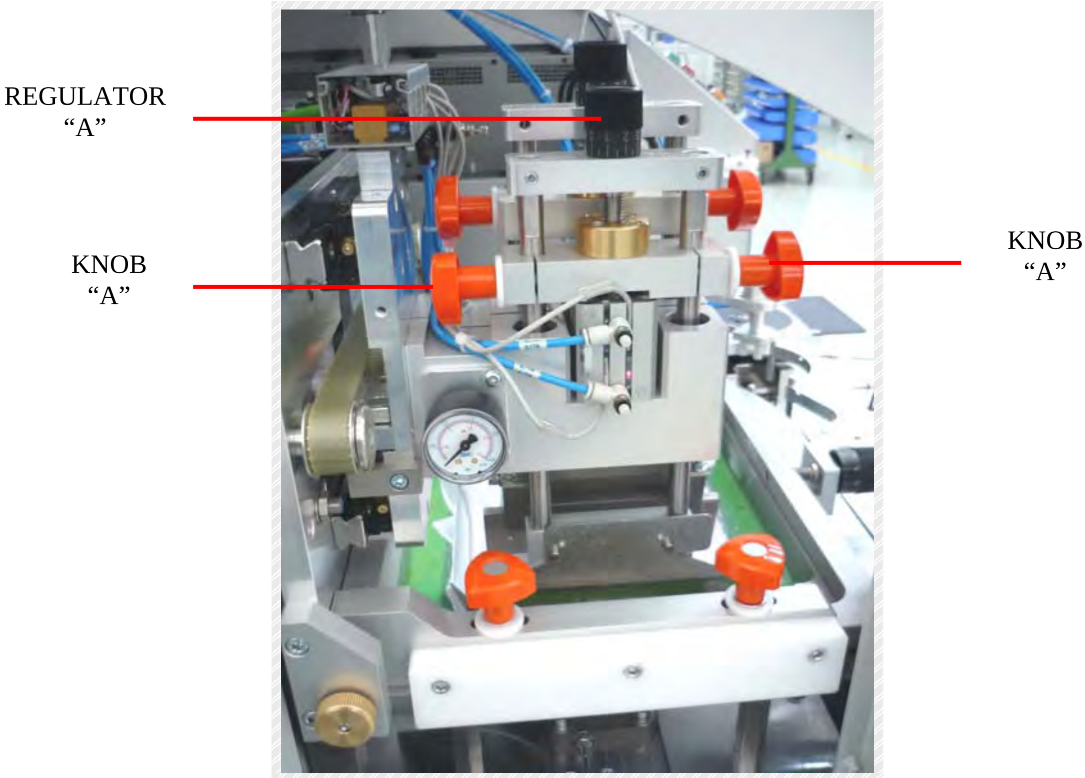
- LOOSEN THE TWO **KNOBS "A"** AND TURN THE **REGULATOR "A"** UNTIL THE BLADE IS ABOUT **1.0 mm.** FROM THE SCREEN

- CLOCKWISE WILL LOWER THE BLADE.

  ANTI-CLOCKWISE WILL RAISE THE BLADE.

- ONCE IN THE CORRECT POSITION TIGHTEN THE TWO **KNOBS "A"**

- PRESS THE **BLADE ENABLE** TO RAISE THE BLADE GROUP



- FOLLOWING THE ADJUSTMENTS, LOWER THE COMPLETE SILK SCREEN GROUP BY TURNING & HOLDING THE **UNIT UP / DOWN** SWITCH CLOCKWISE WHILE PUSHING & HOLDING THE **UNIT UP / DOWN ENABLE (SAFETY)** PUSHBUTTON : ONCE THE GROUP IS LOWERED RELEASE ALL THE PUSHBUTTONS

- LOWER THE TOP FRONT DOOR

POSITIONING AND REGULATING THE SQUEEGEE

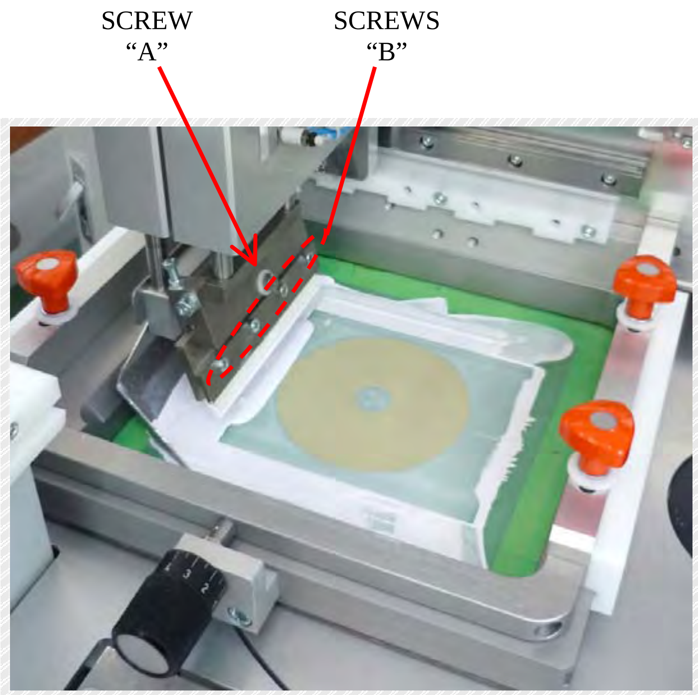
N.B. **USE ONLY SQUEEGEES THAT HAVE THE FOLLOWING SPECIFICATIONS :**

HARDNESS 75 shA (shore)
DIMENSION 15 x 25 x 130 mm.

N.B. **THE SQUEEGEE MUST NOT COME INTO CONTACT WITH THE SCREEN UNLESS INK IS PRESENT : CONTACT WITHOUT INK WILL DAMAGE THE SCREEN**

- LIFT UP THE TOP FRONT DOOR
- TURN THE **MAINTENANCE ENABLE** KEY <u>CLOCKWISE</u> TO ENABLE THE MANUAL FUNCTION OF THE SILK SCREEN STATION
- RAISE THE SILK SCREEN GROUP.

  TO RAISE THE SILK SCREEN GROUP TURN & HOLD THE **UNIT UP / DOWN** SWITCH <u>ANTI-CLOCKWISE</u> WHILE PUSH & HOLD THE **UNIT UP / DOWN ENABLE (SAFETY)** : ONCE THE GROUP REACHES THE <u>UPPER POSITION</u> RELEASE ALL PUSHBUTTONS
- REMOVE THE **SCREW "A"** AND REMOVE THE SQUEEGEE SUPPORT
- LOOSEN THE **SCREWS "B"** AND POSITION THE **SQUEEGEE** IN THE SEAT AND TIGHTEN THE **SCREWS "B"** , TAKING CARE NOT TO OVER TIGHTEN
- MOUNT THE SUPPORT PLATE AND TIGHTEN **SCREW "A"**



- PRESS **SQUEEGEE ENABLE** TO LOWER THE SQUEEGEE GROUP

- LOOSEN THE **KNOB "B"** AND TURN THE **REGULATOR "B"** SO THAT THE SQUEEGEE APPLIES A SMALL AMOUNT OF PRESSURE ON THE SCREEN

- CLOCKWISE WILL LOWER THE SQUEEGEE.

  ANTI-CLOCKWISE WILL RAISE THE SQUEEGEE.

- THE SQUEEGEE MUST APPLY A LIGHT AN EVEN PRESSURE ON THE SCREEN SO ALLOW AN EVEN AND COMPLETE COVERAGE OF THE DISC.
  TO ACHIEVE THIS HOMOGENISES, LOOSEN THE TWO **NUTS "C"** AND THEN ADJUSTED THE **SCREW "C".** ONCE ADJUSTED TIGHTEN THE **NUTS "C"**

- AFTER ALL ADJUSTMENTS ARE MADE TIGHTEN THE **KNOBS "B"**

- PRESS A NUMBER OF TIMES THE **SQUEEGEE ENABLE** AND CHECK THE AMOUNT OF PRESSURE APPLIED BY THE SQUEEGEE ONTO THE SCREEN.

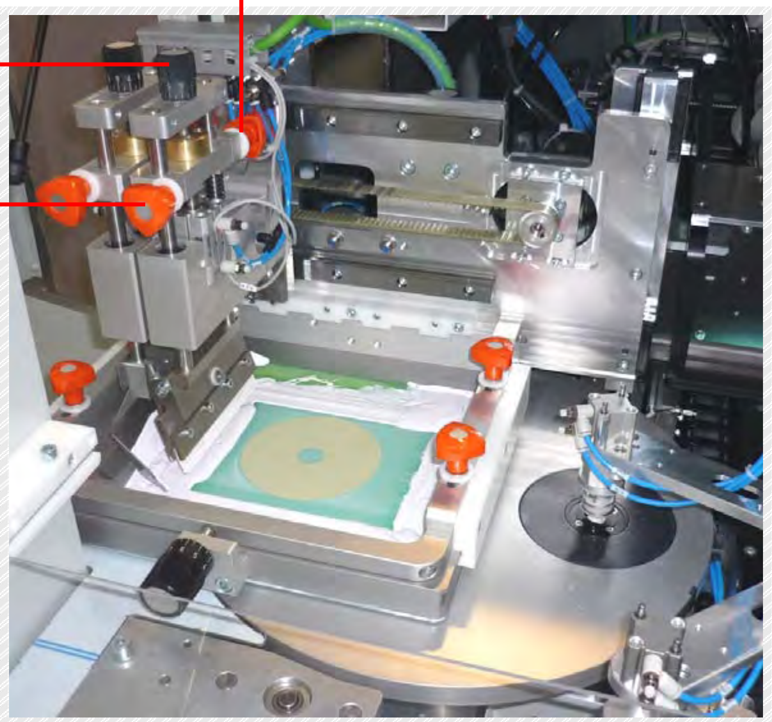
  THE **SQUEEGEE PRESSURE REGULATOR** SHOULD BE SET BETWEEN **1.5 BAR** & **1.8 BAR** READING ON THE **SQUEEGEE PRESSURE MANOMETER.**
  DO NOT ADJUST ABOVE **2.0 BAR** AS THIS WILL CAUSE DAMAGE TO THE SCREEN !

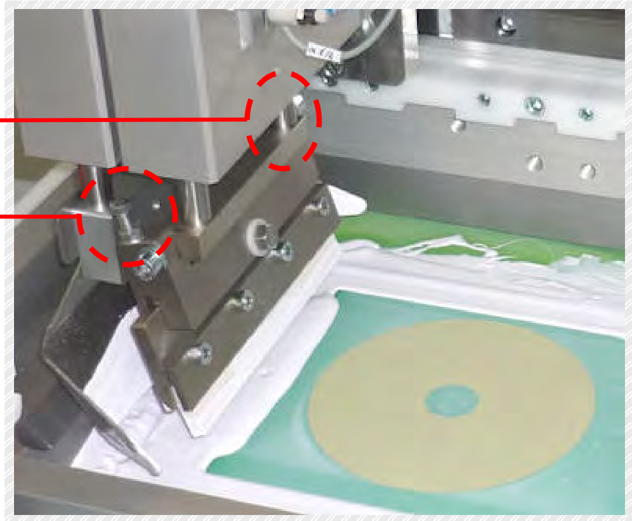
- PRESS SQUEEGEE **ENABLE TO** RAISE THE SQUEEGEE

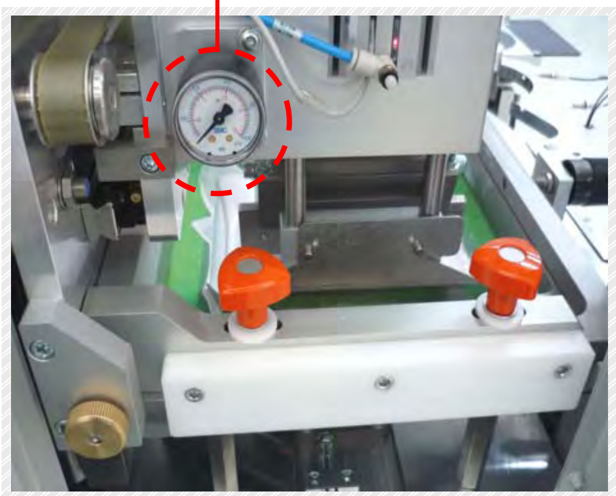
KNOB "B"

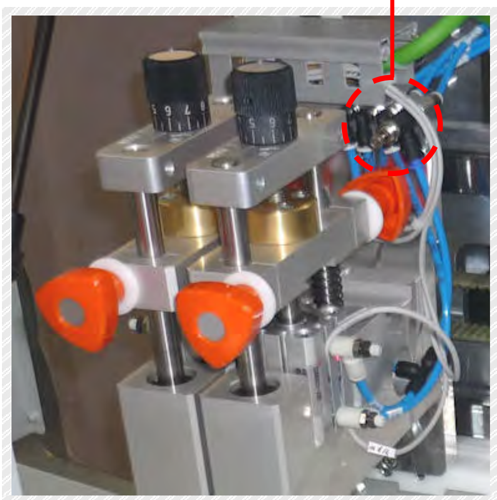
REGULATOR "B"

KNOB "B"









- FOLLOWING THE ADJUSTMENTS, LOWER THE COMPLETE SILK SCREEN GROUP BY TURNING & HOLDING THE **UNIT UP / DOWN** SWITCH CLOCKWISE WHILE PUSHING & HOLDING THE **UNIT UP / DOWN ENABLE (SAFETY)** PUSHBUTTON : ONCE THE GROUP IS LOWERED RELEASE ALL PUSHBUTTONS

- LOWER THE TOP FRONT DOOR

POSITIONING AND REGULATING THE FRAME

N.B. **THE SCREEN MUST HAVE THE WHITE FLOOD AREA CORRECT FOR THE TYPE OF DISC AND IMAGE TO BE PRINTED**

THE STANDARD DIMENSIONS ARE :

120 mm DISC	**WHITE FLOOD AREA 22 – 118 mm**
80 mm DISC	**WHITE FLOOD AREA 22 – 78 mm**

- LIFT THE TOP FRONT DOOR AND PLACE THE MACHINE IN MANUAL MODE

- RAISE THE SILK SCREEN GROUP.

  TO RAISE THE SILK SCREEN GROUP TURN & HOLD THE **UNIT UP / DOWN** SWITCH <u>ANTI-CLOCKWISE</u> WHILE PUSH & HOLD THE **UNIT UP / DOWN ENABLE (SAFETY)** : ONCE THE GROUP REACHES THE <u>UPPER POSITION</u> RELEASE ALL PUSHBUTTONS

- CLEAN THE SCREEN WITH A SOFT CLOTH DAMPENED WITH A SUITABLE CLEANING SOLUTION.
  MOUNT THE FRAME WITH THE MASKED OFF AREA ON THE UNDERSIDE.
  MAKE SURE THAT THE WHITE FLOOD AREA IS CORRECT FOR THE IMAGE TO BE PRINTED DIGITALLY

- ALIGN THE FRAME UNDER THE MAIN SUPPORT AND ALLOW IT TO BE HELD FIRMLY IN PLACE BY THE MAGNETS IN THE SUPPORT.
  MAKE SURE IT FITS SQUARELY AND FLAT.
  TO REMOVE THE FRAME PRESS DOWN FIRMLY ON THE CURVED AREA AT THE LEFT-HAND SIDE : APPLY SUFFICIENT PRESSURE TO OVERCOME THE MAGNETIC FORCE.
  THE SCREEN CAN BE REMOVED EVEN IF THERE IS INK PRESENT ON THE SCREEN

- FOLLOWING THE ADJUSTMENTS, LOWER THE COMPLETE SILK SCREEN GROUP BY TURNING & HOLDING THE **UNIT UP / DOWN** SWITCH <u>CLOCKWISE</u> WHILE PUSHING & HOLDING THE **UNIT UP / DOWN ENABLE (SAFETY)** PUSHBUTTON : ONCE THE GROUP IS <u>LOWERED</u> RELEASE ALL PUSHBUTTONS

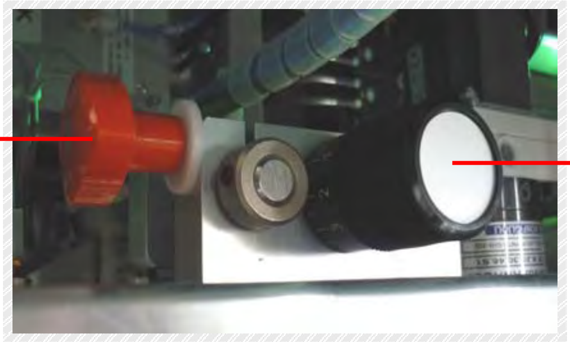
- CHECK THAT THE DISTANCE BETWEEN THE SCREEN AND TABLE IS ABOUT **2.0 mm / 2.5 mm**

  TO INCREASE THIS DISTANCE LOOSEN **KNOB "C"** AND TURN THE **REGULATOR "C"** <u>ANTI-CLOCKWISE</u>

  TO DECREASE THE DISTANCE LOOSEN **KNOB "C"** AND TURN THE **REGULATOR "C"** <u>CLOCKWISE</u>

- ONCE THE ADJUSTMENT IS MADE TIGHTEN THE **KNOB “C”**

KNOB
“C”



REGULATOR
“C”

- LOWER THE TOP FRONT DOOR AND DISABLE THE MANUAL MODE

N.B. **THE DISTANCE BETWEEN THE DISC AND SCREEN SHOULD BE ABOUT 1.0 mm**

SILK SCREEN INK SUPPLY

- PLACE THE MACHINE IN **IDLE** THEN MAKE SURE THE SILK SCREEN STATION IS IN THE LOWER POSITION
- LIFT THE TOP FRONT DOOR
- WEARING GLOVES MIX THE INK IN THE CONTAINER: POUR A SMALL AMOUNT OF INK INTO THE CENTRE OF THE SCREEN
- LOWER THE TOP FRONT DOOR

N.B. **DO NOT POUR AN EXCESSIVE AMOUNT OF INK ON THE SCREEN : A LARGE QUANTITY OF INK WILL DAMAGE THE SCREEN**

N.B. **INK MAY BE LEFT ON THE SCREEN FOR SHORT PERIODS THIS WILL NOT EFFECT THE WORKING OF THE MACHINE.**

TAKE CARE THAT THE INK DOES NOT CURE OR DRY OUT.

DO NOT ALLOW THE INK TO REMAIN FOR LONG PERIODS OF TIME : REMOVE THE INK AND CLEAN THE SCREEN USING A SPATULA AND SOFT CLOTH DAMPENED WITH A CLEANING SOLUTION

CENTRALISING THE SCREEN

N.B. **WHEN SCREENS ARE PRODUCED THE CENTRE OF THE IMAGE IS NOT ALWAYS 100% IN THE CORRECT POSITION : CENTRING THE IMAGE TO THE DISC IS GENERALLY NECESSARY**

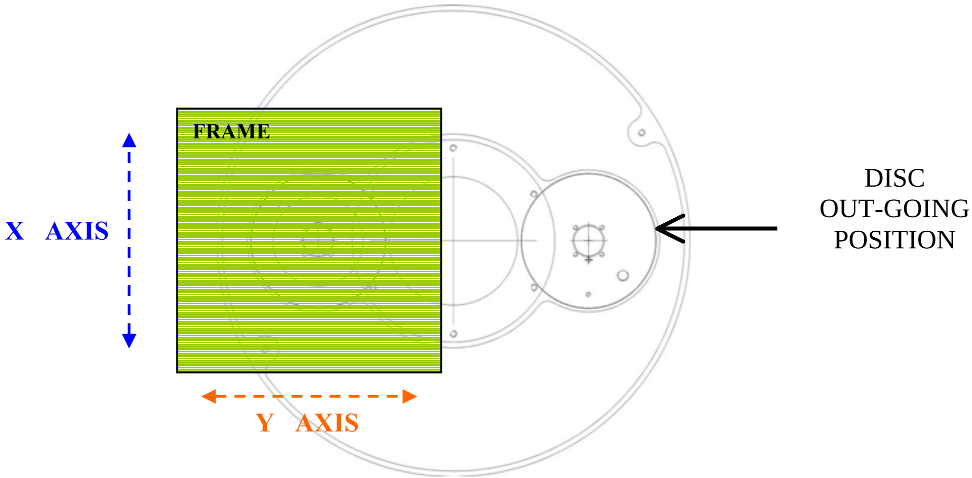
"X" AXIS SCREEN ALIGNMENT

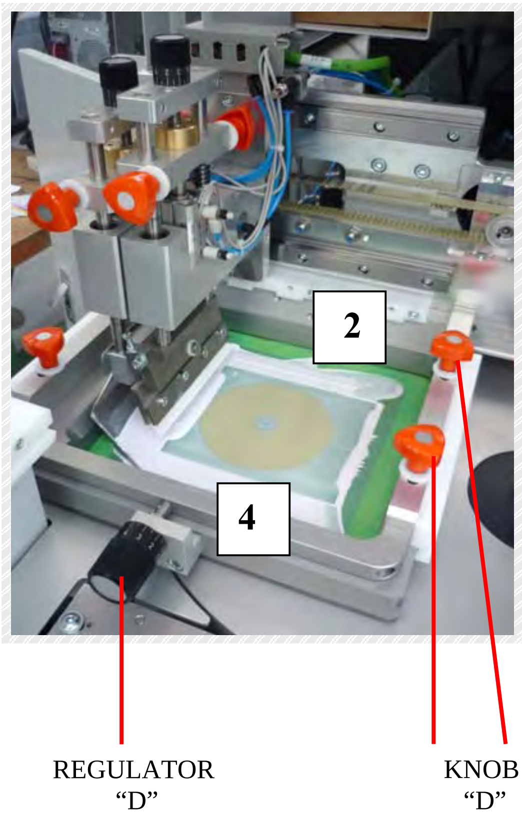
- OPEN THE TOP FRONT DOOR AND PLACE THE MACHINE INTO MANUAL
- USE THE MANUAL '**SILK SCREEN COMPLETE CYCLE**'
  (FOR DETAILS SEE SECTION 6.07.01)
- PRESS **'STEP-BY-STEP'** UNTIL A DISC IS 'SILK SCREENED' AND IS IN THE **DISC OUT-GOING POSITION**
- LOOSEN THE FOUR **KNOB "D"**
- TURN THE **REGULATOR "D"** CLOCKWISE TO MOVE TOWARDS THE NUMBER **2**

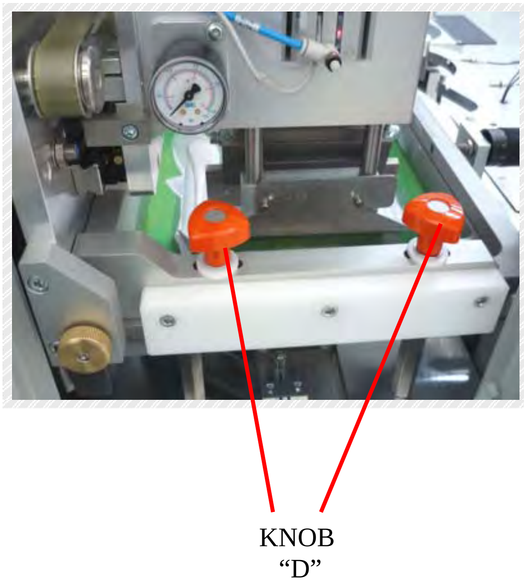
  TURN THE **REGULATOR "D"** ANTI-CLOCKWISE TO MOVE TOWARDS THE NUMBER **4**

N.B. **THE DISC AT THE EXIT OF THE SILK SCREEN TABLE IS TURNED 180° COMPARED TO THE POSITION OF SILK SCREENING**

- PRESS AGAIN **STEP-BY-STEP** TO 'SILK SCREEN' ANOTHER DISC AND POSITION IT IN THE **DISC OUT-GOING POSITION**
- IF THE ALIGNMENT IS CORRECT BLOCK THE FOUR **KNOB "D"**
- PLACE THE MACHINE BACK IN AUTOMATIC MODE


FRAME
X AXIS
Y AXIS
DISC
OUT-GOING
POSITION


2
4
REGULATOR
“D”
KNOB
“D”


KNOB
“D”

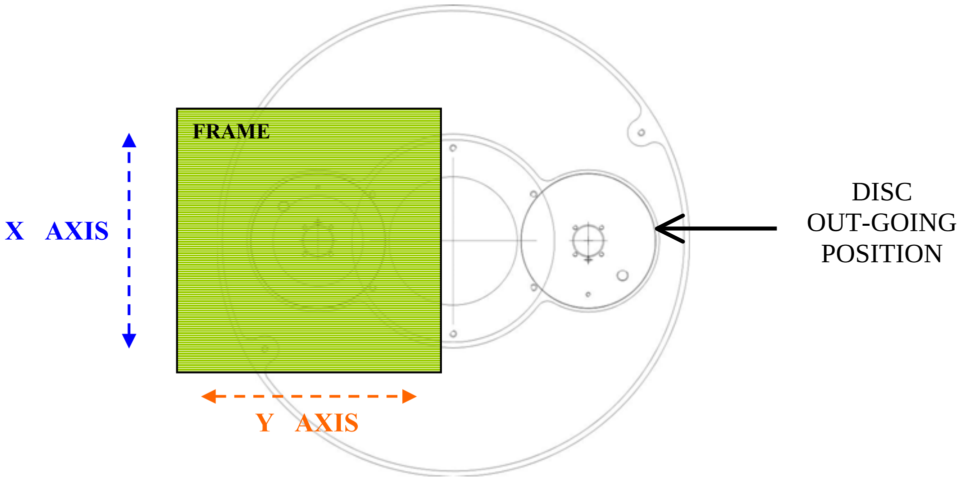
"Y" AXIS SCREEN ALIGNMENT

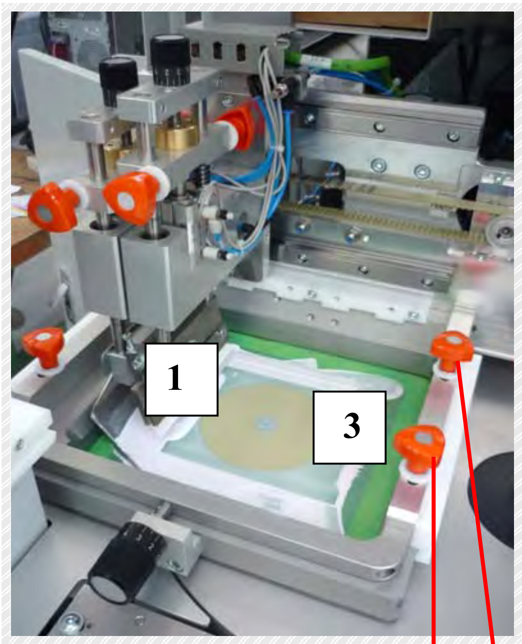
- OPEN THE TOP FRONT DOOR AND PLACE THE MACHINE IN MANUAL
- USE THE MANUAL '**SILK SCREEN COMPLETE CYCLE**'
(FOR DETAILS SEE SECTION 6.07.01)
- PRESS **'STEP-BY-STEP'** UNTIL A DISC IS 'SILK SCREENED' AND IS IN THE **DISC OUT-GOING POSITION**
- LOOSEN THE FOUR **KNOB "D"**
- TURN THE **REGULATOR "E"** CLOCKWISE TO MOVE TOWARDS THE NUMBER **1**

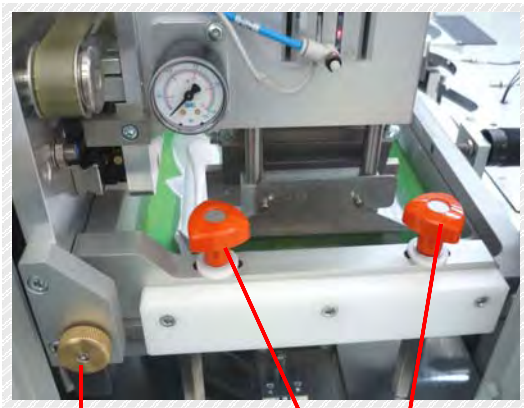
  TURN THE **REGULATOR "E"** ANTI-CLOCKWISE TO MOVE TOWARDS THE NUMBER **3**

N.B. **THE DISC AT THE EXIT OF THE SILK SCREEN TABLE IS TURNED 180° COMPARED TO THE POSITION OF SILK SCREENING**

- PRESS AGAIN **STEP-BY-STEP** TO 'SILK SCREEN' ANOTHER DISC AND POSITION IT IN THE **DISC OUT-GOING POSITION**
- IF THE ALIGNMENT IS CORRECT BLOCK THE FOUR **KNOB "D"**
- PLACE THE MACHINE BACK IN AUTOMATIC MODE







KNOB
“D”

REGULATOR
“E”

KNOB
“D”

6.08 SETTING THE DIGITAL VACUUM SENSOR

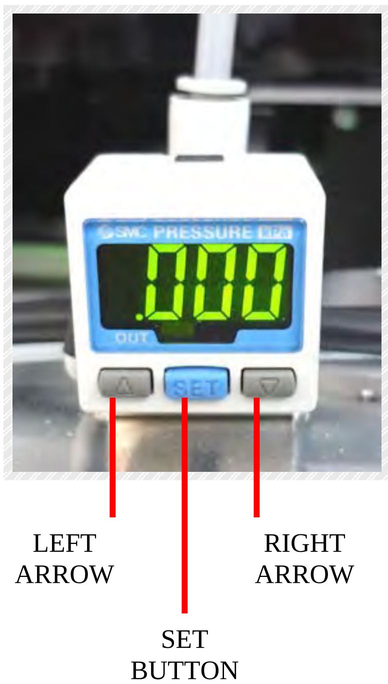
N.B. **THE MINIMUM THRESHOLD OF THE IN-FEED MANIPULATOR AND THE PRINTING SHUTTLE DIGITAL VACUUM SENSORS SHOULD BE SET AT -.400 BAR**

N.B. **THE MINIMUM THRESHOLD OF THE SILK SCREEN TABLE DIGITAL VACUUM SENSORS SHOULD BE SET AT -.400 BAR**

6.08.01 SETTING A ‘NEW’ SENSOR

N.B. **EACH STEP OF SETTING THE VACUUM SENSOR MUST BE CARRIED OUT IN LESS THAN 10 SECONDS OTHERWISE THE SENSOR WILL RETURN TO LEVEL A OR LEVEL B MAINTAINING THE VALUES SET AT THE TIME**

N.B. **MAKE SURE THAT THE MAIN AIR IS SET TO 5.0 BAR**



CONFIGURATION

- PRESS **SET** FOR AT LEAST 5 SECONDS TO DISPLAY THE MENU
- THE DISPLAY WILL SHOW **PA**
- PRESS THE **LEFT** OR **RIGHT** ARROWS UNTIL **BAR** IS SHOWN
- PRESS **SET**
- THE DISPLAY WILL SHOW **SOR** : THE DISPLAY WILL GO **'RED'** EACH TIME THE **'OUT'** IS ALIGHT
- PRESS **SET**
- THE DISPLAY WILL SHOW **HYS** (HYSTERESIS)
- PRESS **SET**
- THE DISPLAY WILL SHOW **n o**
- PRESS THE **LEFT** OR **RIGHT** ARROWS UNTIL **nc** (OUTPUT NORMALLY CLOSED)
- PRESS **SET**
- THE DISPLAY WILL BECOME **'RED'** AND DISPLAY **2.5** (REACTION TIME)
- PRESS **SET**
- THE DISPLAY WILL SHOW **ň A n** (MANUAL SETTING)
- PRESS **SET** TO RETURN TO THE MAIN MENU: THE DISPLAY WILL SHOW THE ACTUAL VALUE OF VACUUM

WORK THRESHOLD

- START THIS SETTING WITH THE DISPLAY SHOWING THE ACTUAL VALUE OF VACUUM

- PRESS **SET**

- **LEVEL A** THE DISPLAY WILL FLASH **P_1** OR **n_1** , SHOWING THE THRESHOLD LEVEL IN MEMORY

- PRESS THE **RIGHT** ARROW : THE **THIRD** DIGIT WILL FLASH.
  PRESS THE **RIGHT** ARROW TO SET THE DESIRED VALUE

- PRESS **SET**

- THE **SECOND** DIGIT WILL FLASH.
  PRESS THE **RIGHT** ARROW TO SET THE DESIRED VALUE

- PRESS **SET**

- THE **FIRST** DIGIT WILL FLASH.
  PRESS THE **RIGHT** ARROW TO SET THE DESIRED VALUE

- PRESS **SET**

- THE **“|”** SYMBOL JUST IN FRONT OF THE NUMBER WILL FLASH
  PRESS THE RIGHT ARROW UNTIL THE SYMBOL **“ ⌋ ”** IS DISPLAYED (NEGATIVE VALUE)

- WAIT FOR ABOUT 10 SECONDS UNTIL THE DISPLAY FLASHES **P_1** OR **n_1** , SHOWING THE NEW VALUE WHICH HAS BEEN SET

- PRESS **SET** TO CHANGE THE MENU

HYSTERESIS

- **LEVEL B** THE DISPLAY WILL FLASH **H** , SHOWING THE HYSTERESIS VALUE IN MEMORY **(.004)**

- PRESS **SET** TO RETURN TO THE MAIN MENU **:** THE DISPLAY WILL SHOW THE ACTUAL VALUE OF VACUUM

6.08.02 SETTING A 'PRE-SET' SENSOR

N.B. **EACH STEP OF SETTING THE VACUUM SENSOR MUST BE CARRIED OUT IN LESS THAN 10 SECONDS OTHERWISE THE SENSOR WILL RETURN TO LEVEL A OR LEVEL B MAINTAINING THE VALUES SET AT THE TIME**

N.B. **MAKE SURE THAT THE MAIN AIR IS SET TO 5.0 BAR**

LEFT ARROW

RIGHT ARROW

SET BUTTON

CONFIGURATION

- PRESS **SET** FOR AT LEAST 5 SECONDS TO DISPLAY THE MENU
- THE DISPLAY WILL SHOW **BAR**
- PRESS **SET**
- THE DISPLAY WILL SHOW **SOR** : THE DISPLAY WILL GO **'RED'** EACH TIME THE **'OUT'** IS ALIGHT
- PRESS **SET**
- THE DISPLAY WILL SHOW **HYS** (HYSTERESIS)
- PRESS **SET**
- THE DISPLAY WILL SHOW **n c** (OUTPUT NORMALLY CLOSED)
- PRESS **SET**
- THE DISPLAY WILL DISPLAY **2.5** (REACTION TIME)
- PRESS **SET**
- THE DISPLAY WILL SHOW **ň A n** (MANUAL SETTING)
- PRESS **SET** TO RETURN TO THE MAIN MENU : THE DISPLAY WILL SHOW THE ACTUAL VALUE OF VACUUM

WORK THRESHOLD

- START THIS SETTING WITH THE DISPLAY SHOWING THE ACTUAL VALUE OF VACUUM
- PRESS **SET**
- **LEVEL A** THE DISPLAY WILL FLASH **P_1** OR **n_1** , SHOWING THE THRESHOLD LEVEL IN PRE-SET
- PRESS THE **RIGHT** ARROW THE **THIRD** DIGIT WILL FLASH.
  PRESS THE **RIGHT** ARROW TO SET THE DESIRED VALUE
- PRESS **SET**
- THE **SECOND** DIGIT WILL FLASH.
  PRESS THE **RIGHT** ARROW TO SET THE DESIRED VALUE
- PRESS **SET**
- THE **FIRST** DIGIT WILL FLASH.
  PRESS THE **RIGHT** ARROW TO SET THE DESIRED VALUE
- PRESS **SET**
- THE “| “SYMBOL JUST IN FRONT OF THE NUMBER WILL FLASH
- PRESS THE RIGHT ARROW UNTIL THE SYMBOL “ ⌋ “ IS DISPLAYED (NEGATIVE VALUE)
- WAIT FOR ABOUT 10 SECONDS UNTIL THE DISPLAY FLASHES **P_1** OR **n_1** , SHOWING THE NEW VALUE WHICH HAS BEEN SET
- PRESS **SET** TO CHANGE THE MENU

HYSTERESIS

- **LEVEL B** THE DISPLAY WILL FLASH **H** , SHOWING THE HYSTERESIS VALUE PRE-SET **(.004)**

- PRESS **SET** TO RETURN TO THE MAIN MENU **:** THE DISPLAY WILL SHOW THE ACTUAL VALUE OF VACUUM

6.09 SETTING THE DIGITAL AIR SENSOR

N.B. **THE THRESHOLD OF THE DIGITAL PRESSURE SENSOR FOR THE UV LAMP SHOULD BE SET BETWEEN .220 BAR AND 1.000 BAR**

6.09.01 SETTING A ‘NEW’ SENSOR

N.B. **EACH STEP OF SETTING THE AIR SENSOR MUST BE CARRIED OUT IN LESS THAN 10 SECONDS OTHERWISE THE SENSOR WILL RETURN TO LEVEL A OR LEVEL B MAINTAINING THE VALUES SET AT THE TIME**

N.B. **MAKE SURE THAT THE MAIN AIR IS SET TO 5.0 BAR**

LEFT
ARROW

RIGHT
ARROW

SET
BUTTON

CONFIGURATION

- PRESS **SET** FOR AT LEAST 5 SECONDS TO DISPLAY THE MENU
- THE DISPLAY WILL SHOW **PA**
- PRESS THE **LEFT** OR **RIGHT** ARROWS UNTIL **BAR** IS SHOWN
- PRESS **SET**
- THE DISPLAY WILL SHOW **SOR**
- PRESS THE **LEFT** OR **RIGHT** ARROWS UNTIL **SOG :** THE DISPLAY WILL BECOME **'GREEN'** EVERY TIME THE LED **'OUT'** IS ALIGHT
- PRESS **SET**
- THE DISPLAY WILL SHOW **HYS**
- PRESS THE **LEFT** OR **RIGHT** ARROWS UNTIL **YND**
- PRESS **SET**
- THE DISPLAY WILL SHOW **n o** (OUTPUT NORMALLY OPEN)
- PRESS **SET**
- THE DISPLAY WILL SHOW **2.5** (REACTION TIME)
- PRESS **SET** TO RETURN TO THE MAIN MENU : THE DISPLAY WILL SHOW THE ACTUAL VALUE OF AIR

WORK THRESHOLD

- START THIS SETTING WITH THE DISPLAY SHOWING THE ACTUAL VALUE OF PRESSURE
- PRESS **SET**
- **LEVEL A** THE DISPLAY WILL FLASH **P_1** OR **n_1** , SHOWING THE FIRST THRESHOLD LEVEL IN MEMORY
- PRESS THE **RIGHT** ARROW : THE **THIRD** DIGIT WILL FLASH.
  PRESS THE **RIGHT** ARROW TO SET THE DESIRED VALUE
- PRESS **SET**
- THE **SECOND** DIGIT WILL FLASH.
  PRESS THE **RIGHT** ARROW TO SET THE DESIRED VALUE
- PRESS **SET**
- THE **FIRST** DIGIT WILL FLASH.
  PRESS THE **RIGHT** ARROW TO SET THE DESIRED VALUE
- PRESS **SET**
- THE “**I**“ SYMBOL JUST IN FRONT OF THE NUMBER WILL FLASH
- WAIT FOR ABOUT 10 SECONDS UNTIL THE DISPLAY FLASHES **P_1** OR **n_1** , SHOWING THE NEW VALUE WHICH HAS BEEN SET
- PRESS **SET TO** CHANGE THE MENU

- THE DISPLAY WILL FLASH **P_2** OR **n_2** , SHOWING THE SECOND THRESHOLD LEVEL IN MEMORY

- PRESS THE **RIGHT** ARROW : THE **THIRD** DIGIT WILL FLASH.
  PRESS THE **RIGHT** ARROW TO SET THE DESIRED VALUE

- PRESS **SET**

- THE **SECOND** DIGIT WILL FLASH.
  PRESS THE **RIGHT** ARROW TO SET THE DESIRED VALUE

- PRESS **SET**

- THE **FIRST** DIGIT WILL FLASH.
  PRESS THE **RIGHT** ARROW TO SET THE DESIRED VALUE

- PRESS **SET**

- THE "**I**" SYMBOL JUST IN FRONT OF THE NUMBER WILL FLASH

- WAIT FOR ABOUT 10 SECONDS UNTIL THE DISPLAY FLASHES **P_2** OR **n_2** , SHOWING THE NEW VALUE WHICH HAS BEEN SET

- PRESS **SET** TO CHANGE THE MENU

HYSTERESIS

- **LEVEL B** THE DISPLAY WILL FLASH **H** , SHOWING THE HYSTERESIS VALUE PRE-SET **(.004)**

- PRESS **SET** TO RETURN TO THE MAIN MENU **:** THE DISPLAY WILL SHOW THE ACTUAL VALUE OF AIR

6.09.02 SETTING A ‘PRE-SET’ SENSOR

N.B. **EACH STEP OF SETTING THE AIR SENSOR MUST BE CARRIED OUT IN LESS THAN 10 SECONDS OTHERWISE THE SENSOR WILL RETURN TO LEVEL A OR LEVEL B MAINTAINING THE VALUES SET AT THE TIME**

N.B. **MAKE SURE THAT THE MAIN AIR IS SET TO 5.0 BAR**

LEFT ARROW

RIGHT ARROW

SET BUTTON

CONFIGURATION

- PRESS **SET** FOR AT LEAST 5 SECONDS TO DISPLAY THE MENU
- THE DISPLAY WILL SHOW **BAR**
- PRESS **SET**
- THE DISPLAY WILL SHOW **SOG** : THE DISPLAY WILL BECOME **‘GREEN’** EVERY TIME THE LED **‘OUT’** IS ALIGHT
- PRESS **SET**
- THE DISPLAY WILL SHOW **YND**
- PRESS **SET**
- THE DISPLAY WILL SHOW **n o** (OUTPUT NORMALLY OPEN)
- PRESS **SET**
- THE DISPLAY WILL SHOW **2.5** (REACTION TIME)
- PRESS **SET** TO RETURN TO THE MAIN MENU : THE DISPLAY WILL SHOW THE ACTUAL VALUE OF AIR

WORK THRESHOLD

- START THIS SETTING WITH THE DISPLAY SHOWING THE ACTUAL VALUE OF PRESSURE
- PRESS **SET**
- **LEVEL A** THE DISPLAY WILL FLASH **P_1** , SHOWING THE FIRST THRESHOLD LEVEL IN MEMORY
- PRESS THE **RIGHT** ARROW : THE **THIRD** DIGIT WILL FLASH. PRESS THE **RIGHT** ARROW TO SET THE DESIRED VALUE
- PRESS **SET**
- THE **SECOND** DIGIT WILL FLASH. PRESS THE **RIGHT** ARROW TO SET THE DESIRED VALUE
- PRESS **SET**
- THE **FIRST** DIGIT WILL FLASH. PRESS THE **RIGHT** ARROW TO SET THE DESIRED VALUE
- PRESS **SET**
- THE "**I**" SYMBOL JUST IN FRONT OF THE NUMBER WILL FLASH
- WAIT FOR ABOUT 10 SECONDS UNTIL THE DISPLAY FLASHES **P_1** , SHOWING THE NEW VALUE WHICH HAS BEEN SET
- PRESS **SET** TO CHANGE THE MENU

- THE DISPLAY WILL FLASH **P_2** , SHOWING THE SECOND THRESHOLD LEVEL IN MEMORY

- PRESS THE **RIGHT** ARROW : THE **THIRD** DIGIT WILL FLASH.
  PRESS THE **RIGHT** ARROW TO SET THE DESIRED VALUE

- PRESS **SET**

- THE **SECOND** DIGIT WILL FLASH.
  PRESS THE **RIGHT** ARROW TO SET THE DESIRED VALUE

- PRESS **SET**

- THE **FIRST** DIGIT WILL FLASH.
  PRESS THE **RIGHT** ARROW TO SET THE DESIRED VALUE

- PRESS **SET**

- THE “**I**” SYMBOL JUST IN FRONT OF THE NUMBER WILL FLASH

- WAIT FOR ABOUT 10 SECONDS UNTIL THE DISPLAY FLASHES **P_2** , SHOWING THE NEW VALUE WHICH HAS BEEN SET

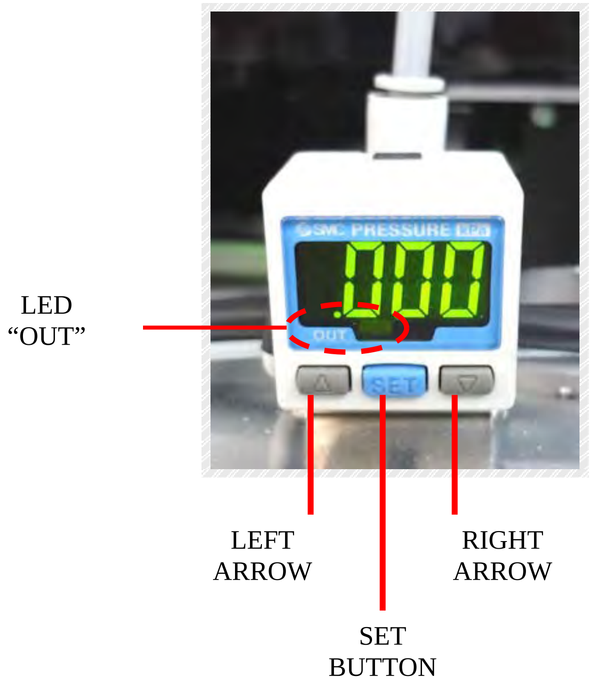
- PRESS **SET** TO CHANGE THE MENU

HYSTERESIS

- **LEVEL B** THE DISPLAY WILL FLASH **H** , SHOWING THE HYSTERESIS VALUE PRE-SET **(.004)**

- PRESS **SET** TO RETURN TO THE MAIN MENU **:** THE DISPLAY WILL SHOW THE ACTUAL VALUE OF AIR

6.10 ZEROING THE DIGITAL SENSOR



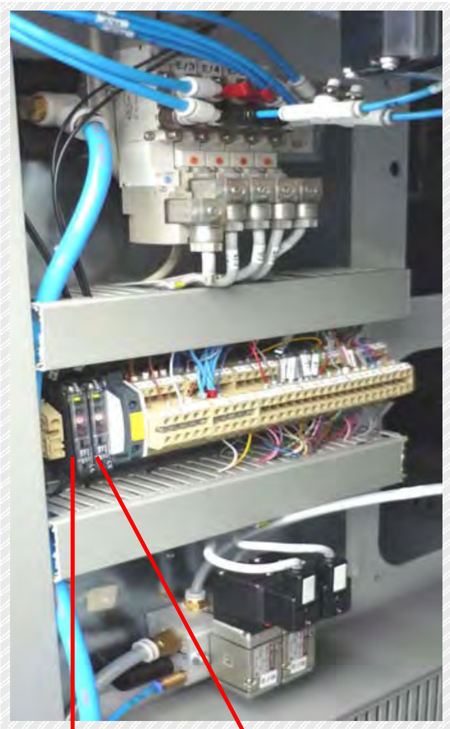
N.B. **THIS PROCEDURE MUST BE CARRIED OUT WITHOUT AIR OR VACUUM (LED ‘OUT’ OFF)**

WHEN THE DISPLAY SHOWS THE ACTUAL VALUE OF PRESSURE or VACUUM, PRESS BOTH **RIGHT** AND **LEFT** ARROWS TOGETHER.

CHECK THAT THE VALUE DISPLAYED IS CLOSE TO ZERO **(. 000)**

6.11 ADJUSTING BARRIERS & PHOTOCELLS

THE NEXT PAGE SHOWS THE RECOMMENDED SETTINGS FOR BARRIERS & PHOTOCELS.



4/4
IN-FEED
SPINDLE
DISC
COLLECTING
POSITION

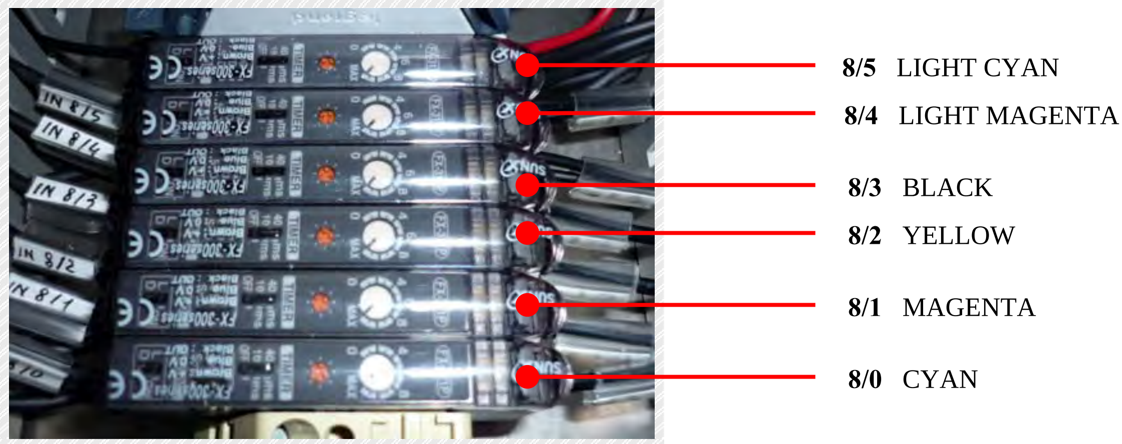
6/D
DOUBLE DISC
ON SILK
SCREEN DIAL
IN-FEED
POSITION

4/1
IN-FEED
SPINDLE
AVAILABLE

4/9
OFF-LOAD
SPINDLE
FULL

4/7
OFF-LOAD
SPINDLE
AVAILABLE

4/A
PRINTING
SHUTTLE
DOUBLE
DISC



‘SUNX’ AMPLIFIER

INPUT 4/4

SENSITIVITY **4-5**
TIMER **OFF – 40 ms**
MODE **STD**
OPERATION SELECTION **D - ON**

INPUT 6/D

SENSITIVITY **6-7**
TIMER **OFF**
MODE **LONG**
OPERATION SELECTION D **- ON**

INPUT 4/A

SENSITIVITY **6-7**
TIMER **OFF – 40 ms**
MODE **STD**
OPERATION SELECTION: **D - ON**

INPUT 8/0
INPUT 8/1
INPUT 8/2
INPUT 8/3
INPUT 8/4
INPUT 8/5

SENSITIVITY **6-7**
TIMER **OFF**
MODE **STD**
OPERATION SELECTION **D - ON**

‘DATA LOGIC’ AMPLIFIER

INPUT 4/1 SENSITIVITY ADJUSTMENT ONLY

INPUT 4/7 SENSITIVITY ADJUSTMENT ONLY

INPUT 4/9 SENSITIVITY ADJUSTMENT ONLY


I
Leggere attentamente il manuale dell'operatore prima di far funzionare la macchina. Osservare le norme e le istruzioni di sicurezza durante il funzionamento.
F
Lire le livret d'entretien et le conseil de sécurité avant la mise en marche et en tenir compte pendant le fonctionnement.
GB
Carefully read Operator's Manual before handling the machine. Observe instructions and safety rules when operating.
D
Vor Inbetriebnahme die Betriebsanleitung und Sicherheitshinweise lesen und beachten.
E
Leer con cuidado el manual de instrucciones antes de la utilización de la máquina. Observar las normas de seguridad mientras la máquina está funcionando.


CAUTION
Do not open while machinery is in motion.
Brimar 800-274-6271 / E2151-AA

7. MAINTENANCE

!!! ATTENTION !!!

- **CAREFULLY READ THIS MANUAL PRIOR TO ATTEMPTING TO USE THE MACHINE**
- **ADJUSTMENTS, MAINTENANCE AND REPAIRS TO THE MACHINE MUST BE CARRIED OUT BY QUALIFIED PERSONNEL WORKING WITHIN THE SAFETY NORMS**
- **IT IS ABSOLUTELY FORBIDDEN TO TAMPER OR REMOVE SAFETY DEVICES OR MODIFY ELECTRICALLY OR MECHANICALLY THE MACHINE**
- **PRESS THE "STOP" OR "IDLE PRIOR TO WORKING INSIDE THE MACHINE OR OPENING THE PANELS**
- **DO NOT TOUCH ANY ELECTRICAL DEVICES WITH WET HANDS OR OTHER PARTS OF THE BODY**
- **ALWAYS USE PROTECTIVE GLASSES AND GLOVES WHEN WORKING WITH OR TOUCHING THE UV LAMP OR INKS**
- **DO NOT LOOK DIRECTLY INTO THE RAYS OF THE UV LAMP**
- **IN CASE OF AN EMERGENCY IMMEDIATELY PUSH THE EMERGENCY "RED MUSHROOM"**
- **THE MANUFACTURER CAN NOT BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED TO PERSONS OR MACHINERY DUE TO LACK OF OBSERVATION OF THE SAFETY REGULATIONS IN THE COUNTRY OF INSTALLATION**

7.01 MAINTENANCE

N.B. **TO PREVENT CONTACT WITH INKS AND SOLVENTS ALWAYS WEAR PROTECTIVE GLOVES AND A FACE MASK WHEN SERVICING THE MACHINERY**

N.B. **WE HIGHLY RECOMMEND TO KEEP THE MACHINE IN AN EXCELLENT STATE OF CLEANLINESS**

DAILY MAINTENANCE (dd.)

- CLEAN THE HEADS AS DESCRIBED IN SECTION 7.01.03 –MANUAL CLEAN– WHEN :
  - SWITCHING ON THE MACHINE
  - AT EVERY SHIFT CHANGE OF EIGHT WORKING HOURS
  - A DETERIORATION OF THE QUALITY IS NOTICED
  - PRIOR TO SWITCHING OFF THE MACHINE

- BEFORE SWITCH OFF THE MACHINE, CLEAN VERY WELL THE PRINTING SHUTTLE USING A CUTTER BLADE AND A SCOTCH BRITE DAMPENED WITH ACETONE.
  CLEAN ALSO THE TOPS OF THE CENTRING PINS USING A SCOTCH BRITE DAMPENED WITH 'FLUSHING SOLUTION'

- CHECK THAT THE CENTRING PINS OF THE PRINTING SHUTTLE AND SILK SCREEN TABLE FUNCTION PROPERLY : IF NECESSARY CLEAN AS DESCRIBED IN SECTIONS 7.01.01 AND 7.01.02

- EVERY SHIFT CHANGE OR EIGHT WORKING HOURS, CLEAN USING A CLOTH DAMPENED WITH ACETONE THE SURFACE OF THE SILK SCREEN TABLE, THE DISC SUPPORTS AND THE CENTRING PINS

- BEFORE SWITCH OFF THE MACHINE, CLEAN THE SQUEEGEE AND THE BLADE USING A CLOTH DAMPENED WITH ALCOHOL

- EVERY SHIFT CHANGE OR EIGHT WORKING HOURS, CLEAN WITH CARE THE UNDERSIDE OF THE FRAME USING A SOFT CLOTH DAMPENED WITH ALCOHOL

- BEFORE SWITCH OFF THE MACHINE, CLEAN VERY WELL USING A SCOTCH BRITE DAMPENED WITH ACETONE THE UNDERSIDE OF THE SHUTTERS, THE UNDERSIDE OF THE TWO BARS OF THE PRINTING TUNNEL AND THE UNDERSIDE OF THE SAFETY DOUBLE DISC BAR FIXED AT THE ENTRANCE OF THE UV LAMP

- CHECK THE WATER CHILLER IS MAINTAINING THE SET TEMPERATURE
  (FOR DETAILED INFORMATION SEE THE MANUFACTURE'S MANUAL)

WEEKLY MAINTENANCE (ww.)

- REMOVE AN CLEAN VERY WELL THE PRINTING SHUTTLE AND CENTRING PINS AS DESCRIBED IN SECTION 7.01.01

- CHECK THAT THE SHUTTERS MOVEMENT IS FUNCTIONING PROPERLY: THE SHUTTERS OPENING SHOULD BE FAST BUT NOT NOISY AND MUST BE SYNCHRONIZED.
  CLEAN VERY WELL THE TWO GUIDES AND APPLY A <u>VERY SMALL</u> AMOUNT OF OIL

- CHECK THAT THE IN-FEEDMANIPULATOR GRIPPERS ARE FUNCTIONING PROPERLY

- CLEAN VERY CAREFULLY THE SUCKERS MOUNTED ON ARM 1 OF THE IN-FEED MANIPULATOR USING A SOFT CLOTH DAMPENED WITH ALCOHOL.
  IF WORN OR DAMAGED REPLACE THE SUCKERS

- CHECK FOR ANY LEAKS IN THE COMPLETE INK CIRCUIT

- REMOVE AND CLEAN THE 'O' RINGS OF THE RE-CYCLING INK WELLS.
  TO DO THAT, THE HEADS GROUP MUST BE IN PRINTING POSITION : ONCE THE HEADS GROUP REACHS THE PRINTING POSITION, PRESS THE EMERGENCY PUSHBUTTON

- CHECK THE WATER COOLING CIRCUIT FOR ANY LEAKS : PAY MAXIMUM ATTENTION WITH THE SHUTTERS AND UV LAMP GROUP

- CHECK THE WATER LEVEL INSIDE THE WATER CHILLER TANK : IF NECESSARY TOP UP USING ONLY DEIONISED WATER (20 µS MAXIMUM)

- CHECK THE CONDITION OF THE WATER FILTERS : IF THE DEIONISING FILTER IS LOOKING BROWNISH COLOUR, IT REQUIRES REPLACING

MONTHLY MAINTENANCE (mm.)

- CHECK THE MOVEMENTS OF ALL CYLINDERS : THEY SHOULD BE FAST BUT NOT NOISY

- USING A GREASE GUN LUBRICATE ALL THE NIPPLES OF THE LINEAR BEARING, USING ONLY SPECIFIED GREASE FOR BEARING

- EMPTY ALL OF THE RE-CYCLING BOTTLES.
  HOLD THE CAP FIRMLY AND TWIST THE BOTTLE : DO NOT REMOVE THE PIPES FROM THE CAP

  N.B. **THIS OPERATION CAN BE CARRIED OUT WHILE THE MACHINE IS IN PRODUCTION, BUT NOT WHILE CARRYING OUT 'PURGE / VACUUM / FILL / CLEAN ALL / FLUSH' SEQUENCES**

- CHECK THE CONDITION OF THE SQUEEGEE : IF WORE REPLACE WITH A NEW ONE
  (SEE SECTION 6.07.02 FOR DETAILED INFORMATION)

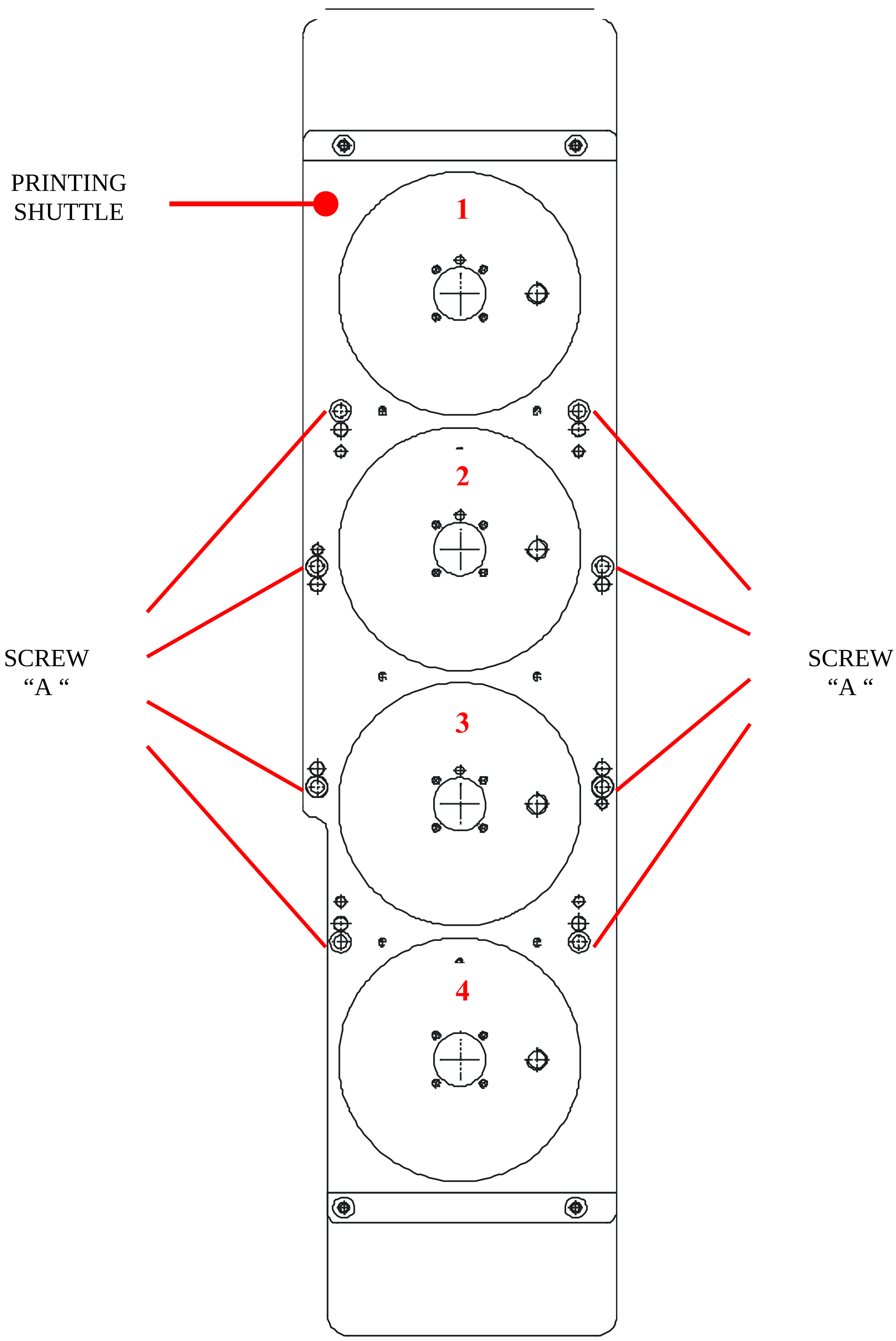
- OPEN THE UV LAMP GROUP AND CHECK THE CONDITION OF THE WATER COOLING TUBE AND THE TWO REFLECTORS.
  THE BULB MUST BE KEPT TRANSPARENT BOTH INSIDE AND OUTSIDE : IF OPAQUE OR DIRTY, REMOVE IT AND CLEAN USING A SCOTCH BRITE DAMPENED WITH AN ANTI-SCALE REMOVER.
  (SEE SECTION 7.02.02 FOR DETAILED INFORMATION)

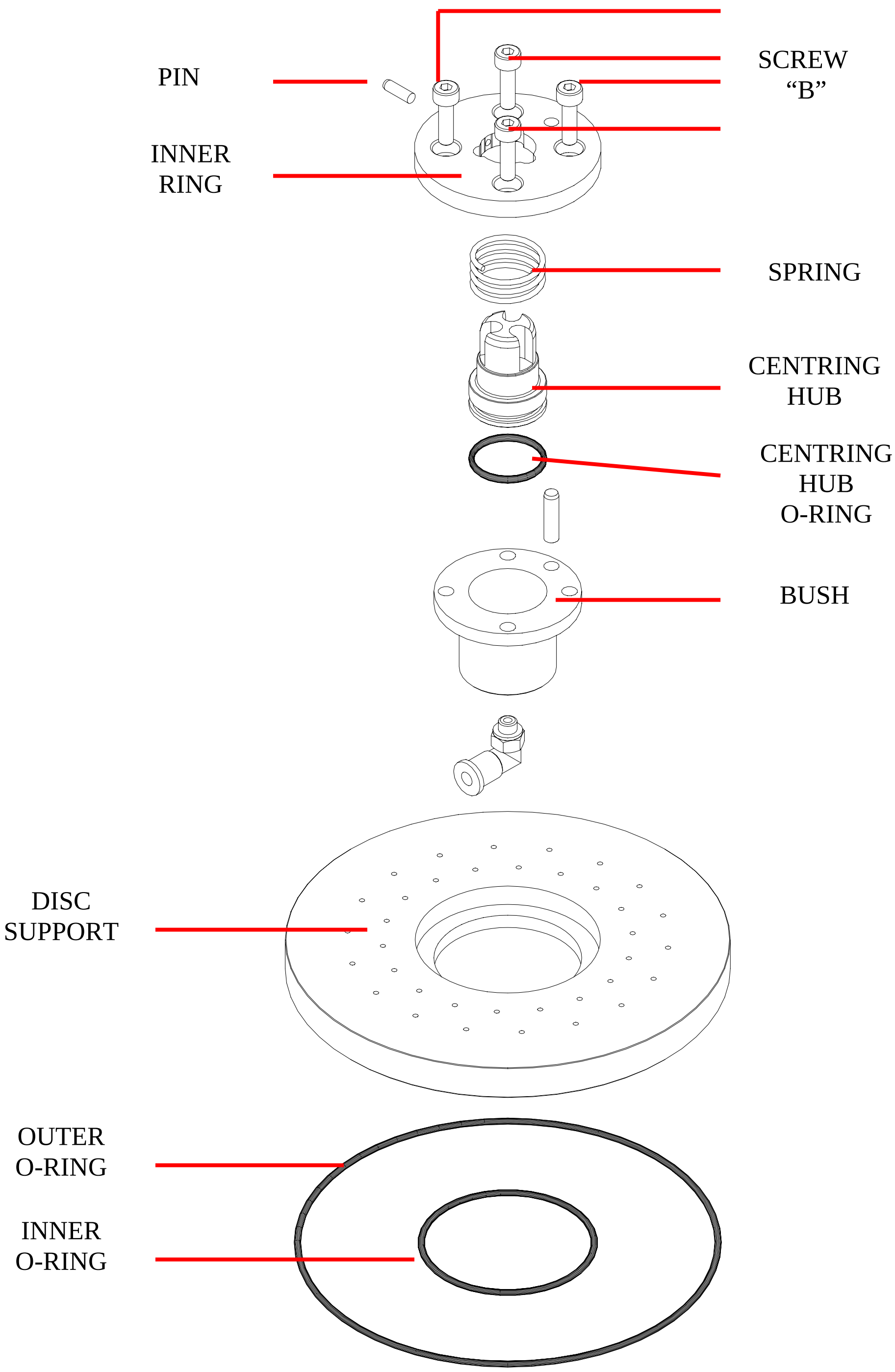
- CHECK THE CONDITION OF THE UV LAMP AIR FILTERS : CLEAN AND REPLACE IF DETERIORATED

- REMOVE THE WATER CHILLER GRILL AND CLEAN WELL
  (FOR DETAILED INFORMATION SEE THE MANUFACTURE'S MANUAL)

- CHECK THE CONDITION OF THE VACUUM PUMP FILTER : CHANGE IF DETERIORATED

7.01.01 CLEANING THE PRINTING SHUTTLE & CENTRING PINS





PIN
INNER RING
SCREW “B”
SPRING
CENTRING HUB
CENTRING HUB O-RING
BUSH
DISC SUPPORT
OUTER O-RING
INNER O-RING

- PRESS THE **EMERGENCY PUSHBUTTON**

- REMOVE THE EIGHT **SCREWS 'A'** WHICH HOLDS THE **PRINTING SHUTTLE**

- SLIDE OUT THE **PRINTING SHUTTLE** TOWARDS THE FRONT OF THE MACHINE IN THE **X AXIS** DIRECTION

- REMOVE THE **SCREW 'B'** WHICH HOLD THE **INNER RINGS**

- REMOVE THE **INNER RINGS** AND CLEAN USING A SCOTCH BRITE DAMPENED WITH ACETONE

- REMOVE THE **SPRINGS**

- REMOVE THE **CENTRING HUBS.**
  TAKE NOTE OF THE POSITION OF THE SEAT FOR THE **PINS.**
  REMOVE THE **CENTRING HUB O-RINGS** TAKING CARE <u>NOT TO DAMAGE</u> THE CENTRING HUBS.
  CLEAN THE CENTRING HUBS USING A SCOTCH BRITE DAMPENED WITH 'FLUSHING SOLUTION' : REMOVE THE CURED INK TAKING CARE <u>NOT TO DAMAGE</u> THE HUBS.
  RE-POSITION THE 'O' RING AND LUBRICATE THE EXTERNAL PART WITH 'SMC' GREASE SUPPLIED BY TAPEMATIC

- REMOVE THE FOUR **DISC SUPPORTS 1-2-3-4** , REMOVE THE **INNER & OUTER O-RINGS**.
  CLEAN THE PLATES USING THE SCOTCH BRITE DAMPENED WITH ACETONE.
  REPLACE THE **'O' RINGS** <u>WITHOUT LUBRICATING</u>

- CLEAN THE INTERNAL **BUSHES**

- CLEAN THE **PRINTING SHUTTLE** USING THE SCOTCH BRITE DAMPENED WITH ACETONE : IF NECESSARY USE A BLADE TO REMOVE LARGER QUANTITIES OF CURED INK

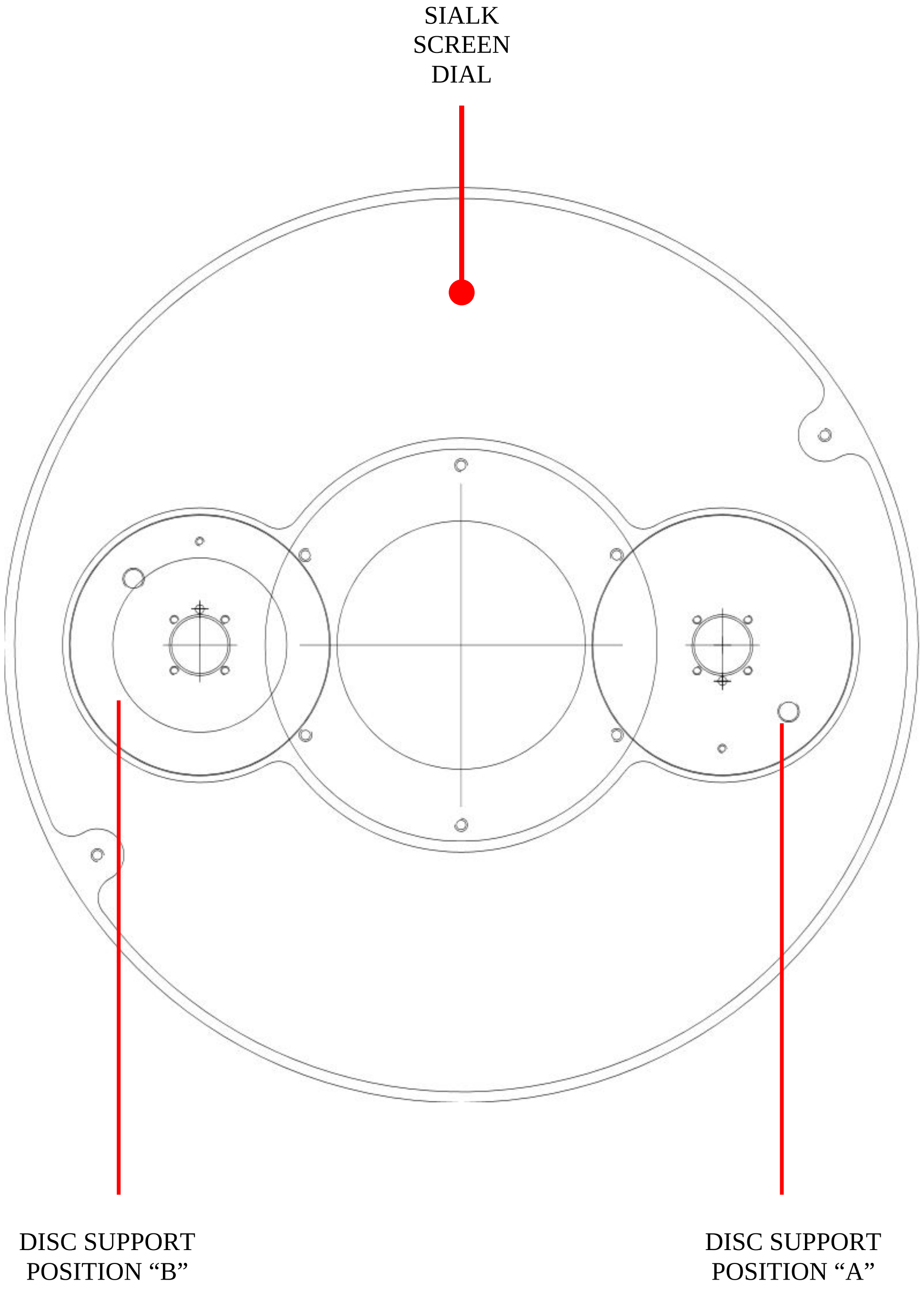
- RE-MOUNT THE **CENTRING HUBS** TAKING CARE THAT THE PINS ARE IN THE SAME POSITION AS BEFORE

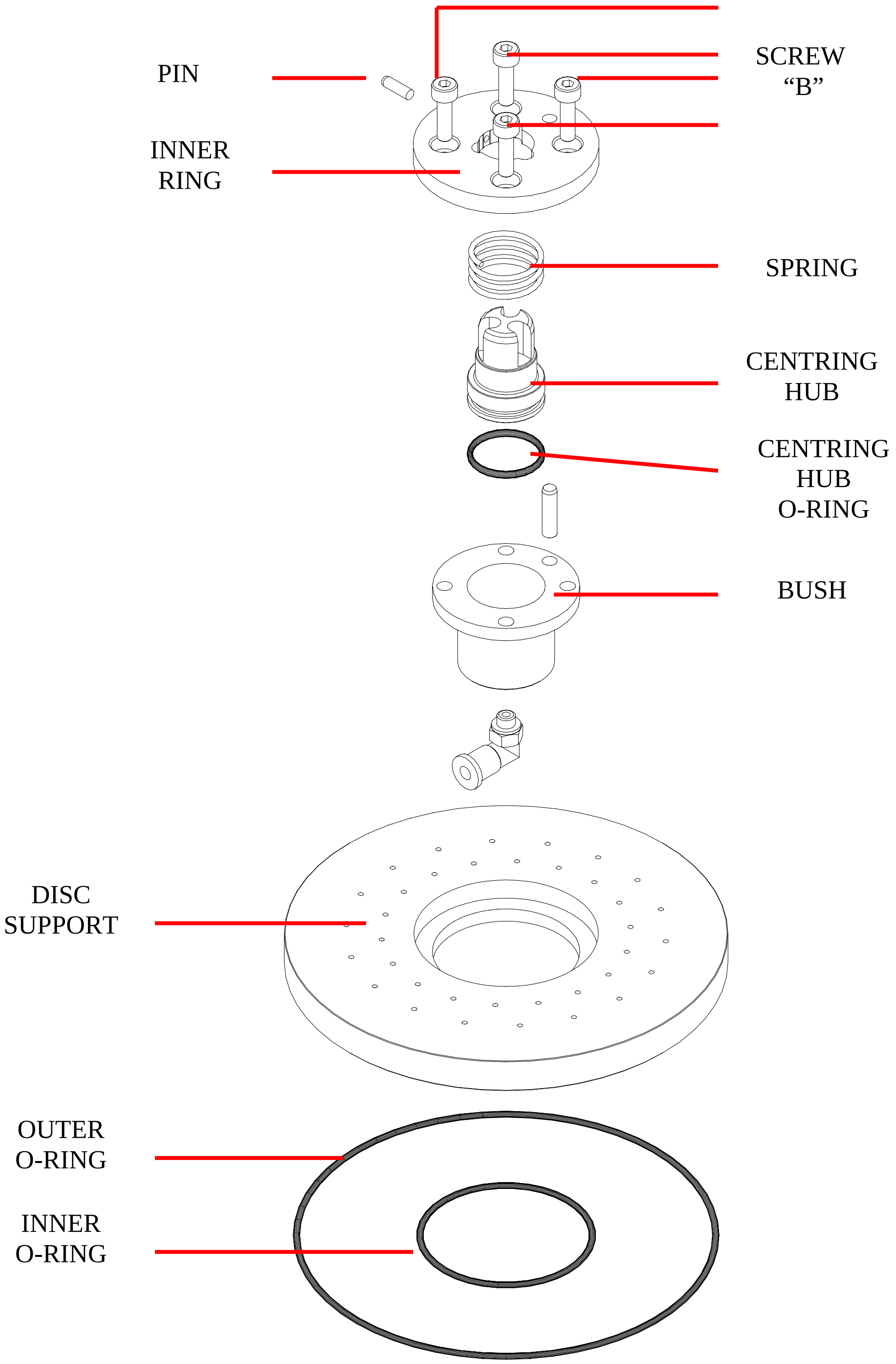
- REPLACE THE **SPRINGS**

- FIX THE **INNER RINGS** TAKING CARE THAT THE **PINS** ARE INSERTED IN THE SEATS WITHIN THE **CENTRING HUBS**

- REMOUNT THE **PRINTING SHUTTLE** MAKING SURE THAT THE FIVE **'O' RINGS** OF THE LEFT SUPPORT ARE PRESENT AND IN THEIR CORRECT POSITION.
  MOVE BY HAND THE **PRINTING SHUTTLE** IN THE '**X**' AXIS TO CHECK THAT THERE ARE NO OBSTRUCTIONS

7.01.02 CLEANING THE SILK SCREEN TABLE & CENTRING PINS




PIN
INNER
RING
SCREW
“B”
SPRING
CENTRING
HUB
CENTRING
HUB
O-RING
BUSH
DISC
SUPPORT
OUTER
O-RING
INNER
O-RING

- PRESS THE **EMERGENCY PUSHBUTTON**

- ROTATE THE **SILK SCREEN DIAL** BY HAND UNTIL THE **DISC SUPPORT POSITION “A”** IS IN A POSITION TO BE EASILY REMOVED

- REMOVE THE **SCREW ‘B’** HOLDING THE **INNER RING**

- REMOVE THE **INNER RING** FROM ITS SEAT AND CLEAN USING SCOTCH BRITE DAMPENED WITH ACETONE

- REMOVE THE **SPRING**

- REMOVE THE **CENTRING HUB.**
  TAKE NOTE OF THE POSITION OF THE SEAT FOR THE PIN.
  REMOVE THE **DISC CENTRING ‘O’ RING** TAKING CARE <u>NOT TO DAMAGE</u> THE CENTRING HUB.
  CLEAN THE **CENTRING HUB** USING A SCOTCH BRITE DAMPENED WITH ‘FLUSHING SOLUTION’ : REMOVE THE CURED INK TAKING CARE <u>NOT TO DAMAGE</u> THE HUB.
  RE-POSITION THE **‘O’ RING** AND LUBRICATE THE EXTERNAL PART WITH ‘SMC’ GREASE SUPPLIED BY TAPEMATIC

- REMOVE THE **DISC SUPPORT ‘A’**, REMOVE THE **INNER & OUTER ‘O’RING**, AND CLEAN THE **DISC SUPPORT** USING THE SCOTCH BRITE DAMPENED WITH ACETONE.
  REPLACE THE **‘O’ RINGS** <u>WITHOUT LUBRICATING</u>

- CLEAN THE INTERNAL **BUSH**

- RE-MOUNT THE **CENTRING HUB** TAKING CARE THAT THE PINS ARE IN THE SAME POSITION AS BEFORE

- REPLACE THE **SPRING**

- FIX THE **INNER RING** TAKING CARE THAT THE **PINS** ARE INSERTED IN THE SEATS WITHIN THE **CENTRING HUB**

- ROTATE THE **SILK SCREEN DIAL** BY HAND UNTIL THE **DISC SUPPORT POSITION ‘B’** IS IN A POSITION TO BE EASILY REMOVED

- CARRY OUT THE SAME PROCEDURE DESCRIBED ABOVE FOR THE **DISC SUPPORT ‘B’**

- WHEN TERMINATED THE OPERATIONS, CLEAN THE TOP OF THE **SILK SCREEN DIAL** USING A CLOTH DAMPENED WITH ACETONE

7.01.03 MANUAL HEAD CLEANING

N.B. **HEAD CLEANING MUST BE CARRIED OUT USING ONLY ‘FLUSHING SOLUTION’ , CLEANING WIPES AND SWABS SUPPLIED TOGETHER WITH THE MACHINE.**

USE OF ANY OTHER MATERIAL CAN CAUSE IRREVERSIBLE DAMAGE TO THE PRINTING HEADS

N.B. **THE PROCEDURE OF HEAD CLEANING IS A DELICATE OPERATION : MAXIMUM ATTENTION MUST BE GIVEN WILL CARRYING OUT THIS OPERATION TO AVOID SERIOUS DAMAGE TO THE PRINTING HEADS**

N.B. **IF THE MACHINE IS USED CONTINUOUSLY FOR 8 HOURS , A MANUAL CLEAN OF ALL HEADS MUST BE CARRIED OUT FOLLOWED BY A PRINT OUT OF THE ‘TEST CHART’ TO VERIFY THAT ALL NOZZLES ARE FIRING**

N.B. **HEADS CLEANING SHOULD BE CARRIED OUT WITH THE MACHINE IN ‘IDLE’, SO THAT THE HEADS GROUP IS IN CLEANING POSITION**

- PUT THE MACHINE IN **IDLE**

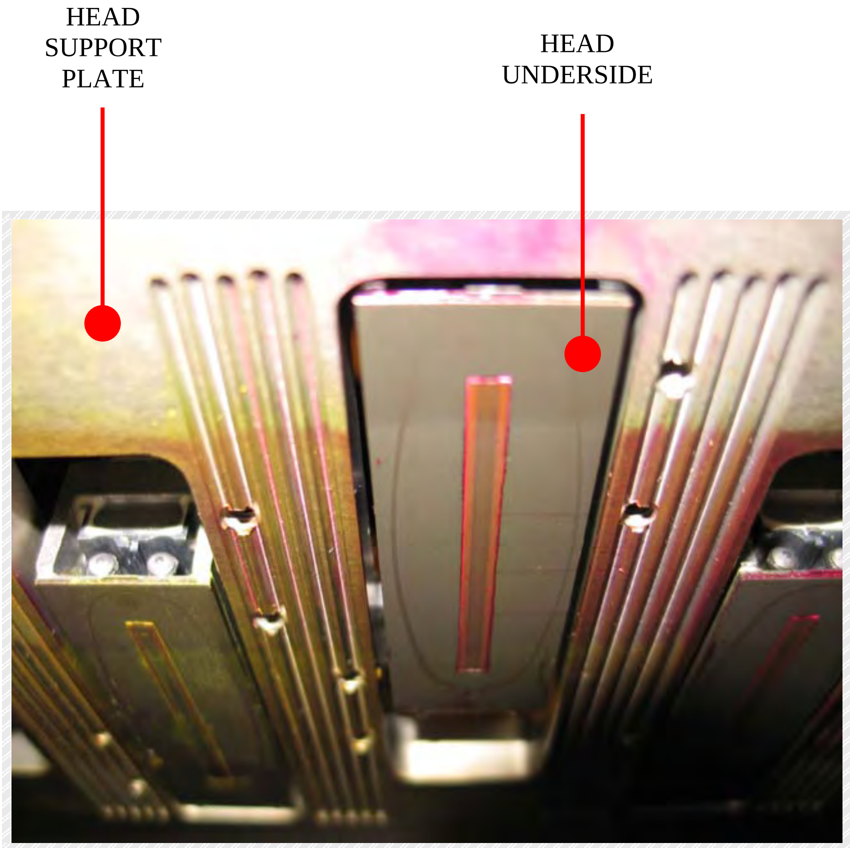
- FROM THE **CLEAN** SCREEN OF THE SUPERVISOR, CLICK **MAN. CLEAN** : THE INK WELLS PLATE WILL BE LOWERED TO ENABLE EASY ACCESS TO THE HEADS BY THE OPERATOR

- USING A SMALL TORCH AND WITH THE <u>MAXIMUM OF ATTENTION</u> CHECK THE UNDERSIDE OF THE **HEAD SUPPORT PLATE**

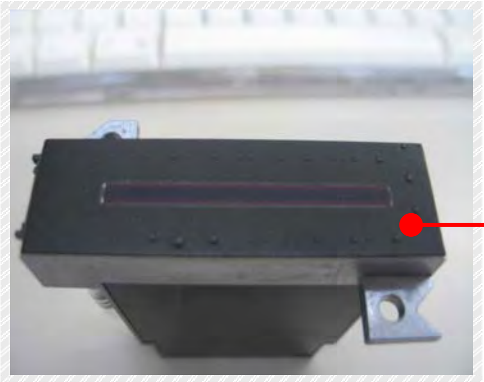
- THE **HEAD SUPPORT PLATE** MUST BE CLEAN AND NOT CONTAMINATED WITH INK. TO CLEAN THE **HEAD SUPPORT PLATE** USE A SOFT WIPE DAMPENED WITH '**FLUSHING SOLUTION'.**

  IF NECESSARY AND USING <u>THE MAXIMUM ATTENTION</u> A BLADE CAN BE USED TO REMOVE THE MOST STUBBORN OF THE CURED INK.

  MAKE SURE <u>DO NOT TOUCH</u> THE **HEAD UNDERSIDE** WITH ANYTHING OTHER THAN WIPES AND SWABS SUPPLIED BY TAPEMATIC

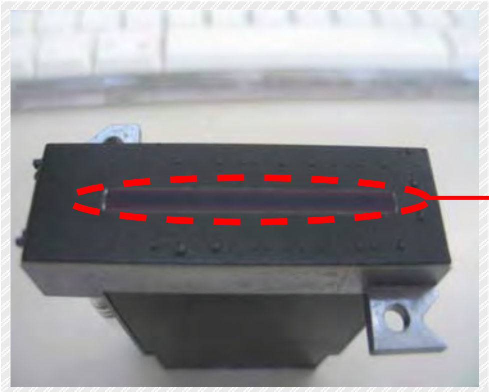


- WEARING LATEX GLOVES AND USING ONLY WIPES, SWABS AND 'FLUSHING SOLUTION' SUPPLIED BY TAPEMATIC, CLEAN VERY WELL THE **OUTSIDE NOZZLES AREA** AROUND THE NOZZLES : DO THIS CLEANING WITH A FIRM BUT CAREFUL PRESSURE



OUTSIDE NOZZLES AREA

- USING A SWAB DAMPENED WITH 'FLUSHING SOLUTION' CLEAN THE **NOZZLES AREA** APPLYING A SMALL AMOUNT OF PRESSURE TO ENSURE THAT ALL THE RESIDUAL INK WILL BE REMOVED



NOZZLES AREA

- IF NECESSARY REPEAT THIS OPERATION UNTIL THE HEAD UNDERSIDE WILL BE CLEANED AND FREE FROM INK AND STAINS

N.B. **DO NOT USE THE SAME CLOTH OR SWAB MORE THAN ONCE TO DO SO WILL ONLY DEPOSIT DIRT ONTO THE NOZZLES DAMAGING THE HEAD ITSELF**

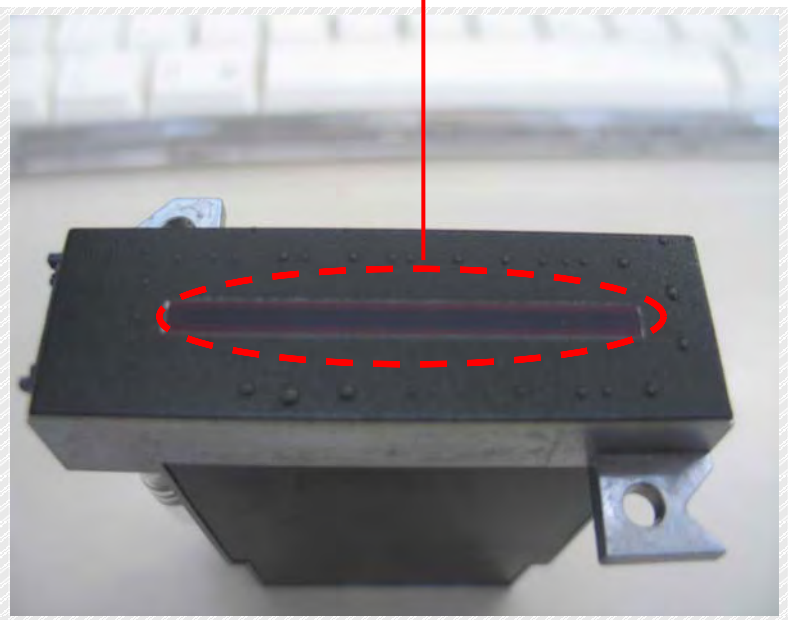
- CARRY OUT A **PURGE** SEQUENCE
  (SEE SECTION 4.02.08 FOR DETAILED INFORMATION)

- FOLD A WIPE TO FORM AN 'n' , <u>DO NOT WET WITH FLUSHING SOLUTION</u>, THEN USING THE TOP OF THE 'n' TAMPON VERY CAREFULLY AND DELICATELY THE HEAD TO REMOVE ANY EXCESSIVE INK INSIDE THE **NOZZLES AREA.**

  IF NECESSARY REPEAT THIS PROCEDURE A NUMBER OF TIMES ALWAYS USING NEW CLEAN SWABS AND WIPES UNTIL THE **NOZZLES AREA** WILL BE CLEANED AND FREE OF EXCESS INK

  (A SMALL TORCH IS USEFUL TO SEE THE HEAD UNDERSIDE VERY WELL).

NOZZLES AREA

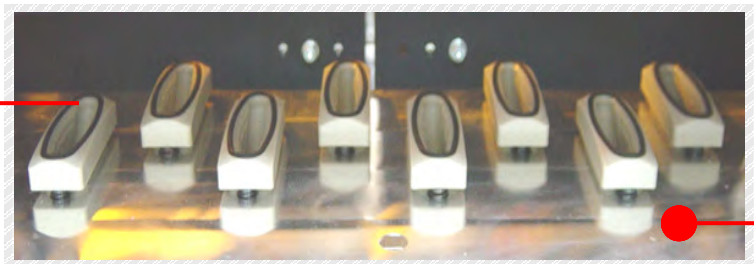


- THE **NOZZLES AREA** AND ALL HEAD UNDERSIDE MUST BE FREE FROM ANY **INK BUILD-UP**

INK
BUILD-UP

- COMPLETE THE CLEANING PROCESS BY USING A CLOTH DAMPENED WITH ALCOHOL AND WIPE VERY WELL THE **WELL 'O' RINGS** : DO NOT APPLY ANY LUBRICANT ON THE **'O' RINGS**

WELL
O-RING



INK
WELLS
PLATE

- CLICK THE **MAN. CLEAN** TO TERMINATE THE CLEANING OPERATION : THE INK WELLS PLATE WILL RAISE TO COVER AND PROTECT THE HEADS UNDERSIDE

7.02 PREVENTIVE MAINTENANCE

N.B. **TO PREVENT CONTACT WITH INKS AND SOLVENTS ALWAYS WEAR PROTECTIVE GLOVES AND A FACE MASK WHEN SERVICING THE MACHINERY**

N.B. **WE HIGHLY RECOMMEND TO KEEP THE MACHINE IN AN EXCELLENT STATE OF CLEANLINESS**

7.02.01 REPLACING THE UV LAMP

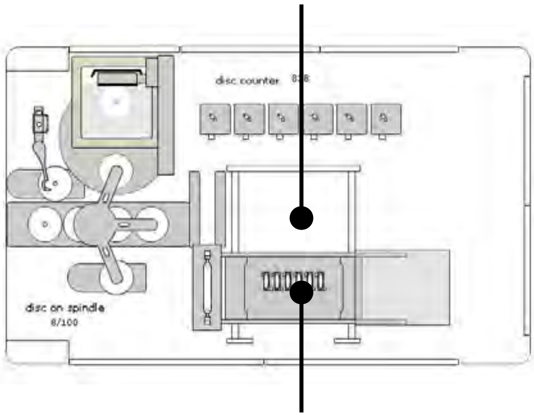
N.B. **TO CARRY OUT THE FOLLOWING OPERATIONS WEAR PROTECTIVE GLOVES AND DO NOT TOUCH THE LAMP DIRECTLY BY HAND**

N.B. **DO NOT LOOK DIRECTLY AT THE UV RAYS**

- PLACE THE MACHINE IN **IDLE** AND CHECK THAT A PRINT QUEUE EXISTS

- PRESS **START** AND AS SOON AS THE PRINT HEADS GROUP MOVES INTO THE **PRINTING POSITION** PRESS THE **EMERGENCY PUSHBUTTON**

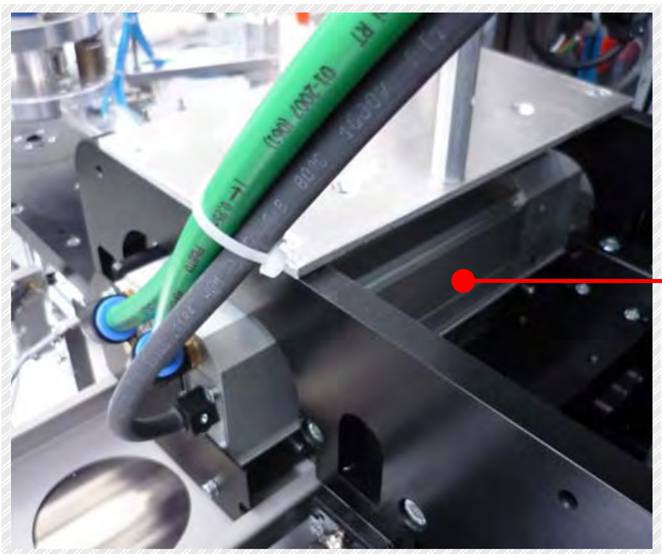
PRINTING POSITION



CLEANING POSITION

- PUT THE **UV POWER SWITCH** POSITIONED INSIDE THE MAIN ELECTRICAL CABINET INTO THE ‘OFF’ POSITION

- WAIT ABOUT 15 MINUTES FOR THE LAMP TO COOL DOWN

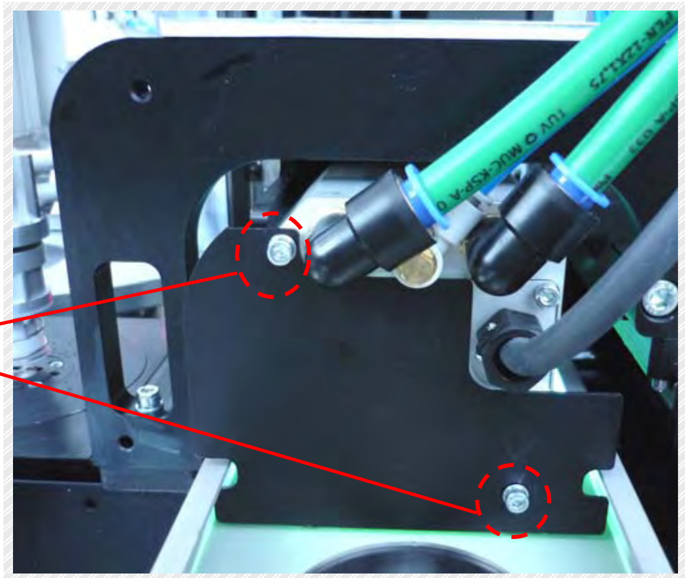


UV LAMP GROUP

N.B. **DO NOT REMOVE THE UV LAMP GROUP FROM ITS SEAT**

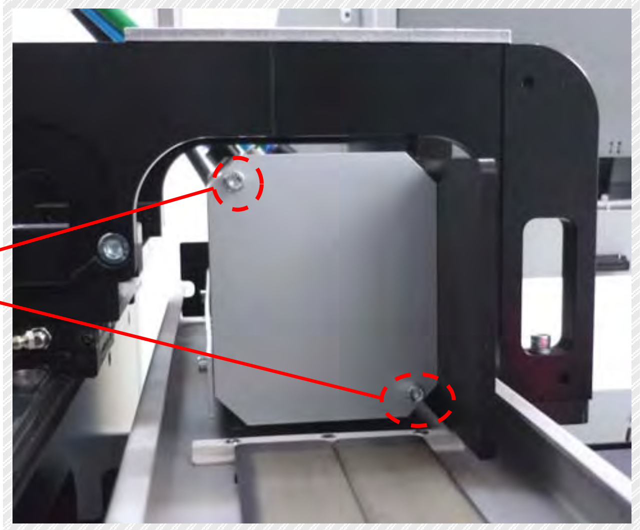
- UNSCREW THE **SCREW 'A'** AND REMOVE THE UV PROTECTION PLATE POSITIONED ON THE WATER PIPES SIDE

SCREW
"A"



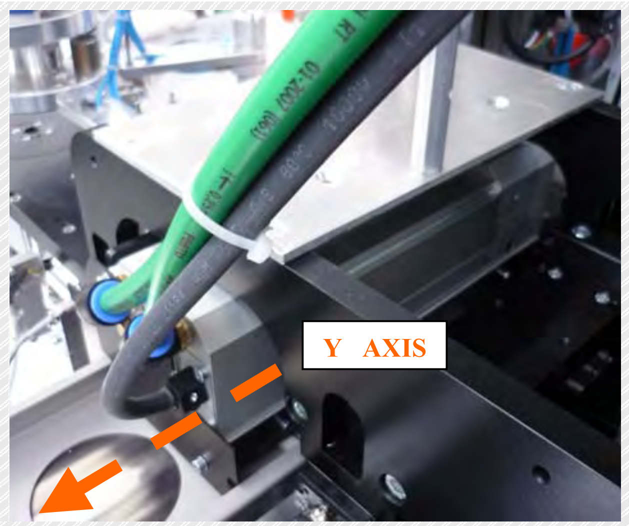
- REMOVE THE **SCREW 'B'** AND REMOVE <u>BOTH</u> END PLATES

SCREW
"B"



- DISCONNECT THE ELECTRICAL CONNECTION AT THE LAMP ENDS

- <u>CAREFULLY EXTRACT</u> THE LAMP FROM THE HOUSING IN THE DIRECTION OF THE **'Y' AXIS**



- CAREFULLY INSERT A NEW BULB INTO THE HOUSING, TAKING CARE NOT TO TOUCH THE LAMP BULB WITH BEAR HANDS : THE LAMP BULB IS HELD IN POSITION BY SMALL METAL SPRINGS MOUNTED INSIDE THE HOUSING

- RE-CONNECT THE ELECTRICAL WIRES TO THE ENDS OF THE LAMP

- MOUNT THE TWO LAMP ENDS BACK ON THE HOUSING

- RE-MOUNT THE UV PROTECTIVE COVER

- SWITCH BACK ‘ON’ THE **UV POWER SWITCH**

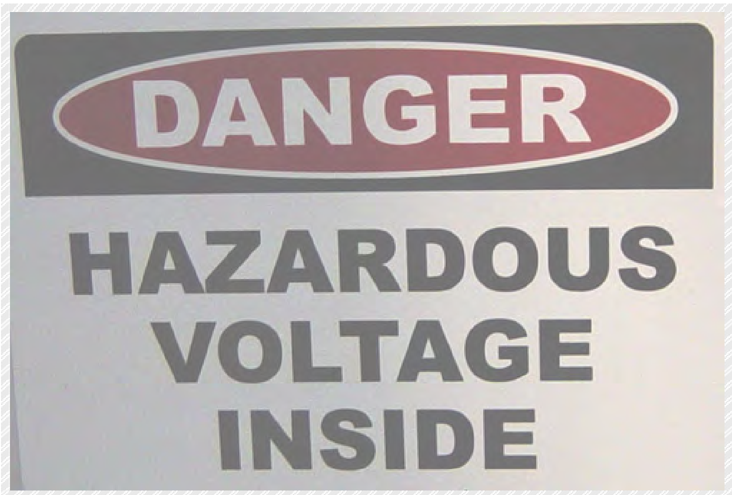
- PULL OUT THE **EMERGENCY PUSHBUTTON** , PRESS **RESET** THEN WAIT FOR THE MACHINE TO INITIALIZE AND THE **IDLE** LIGHT TO COMES ‘ON’

- CHECK THAT THE UV LAMP COMES ‘ON’

7.02.02 CLEANING THE WATER COOLING TUBE

N.B. **TO CARRY OUT THE FOLLOWING OPERATIONS WEAR PROTECTIVE GLOVES AND DO NOT TOUCH THE LAMP OR COOLING TUBE DIRECTLY BY HAND**

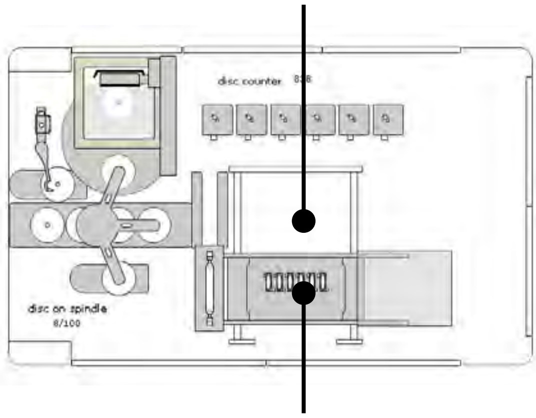
N.B. **DO NOT LOOK DIRECTLY AT THE UV RAYS**



- PLACE THE MACHINE IN **IDLE** AND CHECK THAT A PRINT QUEUE EXISTS

- PRESS **START** AND AS SOON AS THE PRINT HEADS GROUP MOVES INTO THE **PRINTING POSITION** PRESS THE **EMERGENCY PUSHBUTTON**

PRINTING POSITION



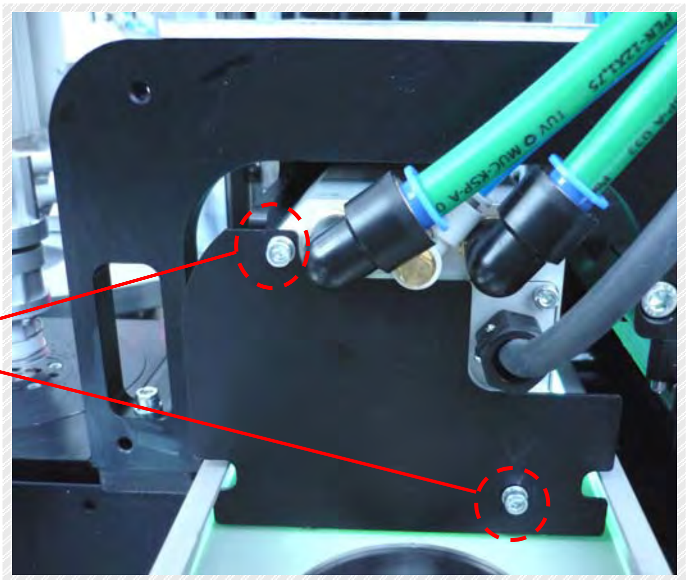
CLEANING POSITION

- PUT THE **UV POWER SWITCH** POSITIONED INSIDE THE MAIN ELECTRICAL CABINET INTO THE ‘OFF’ POSITION

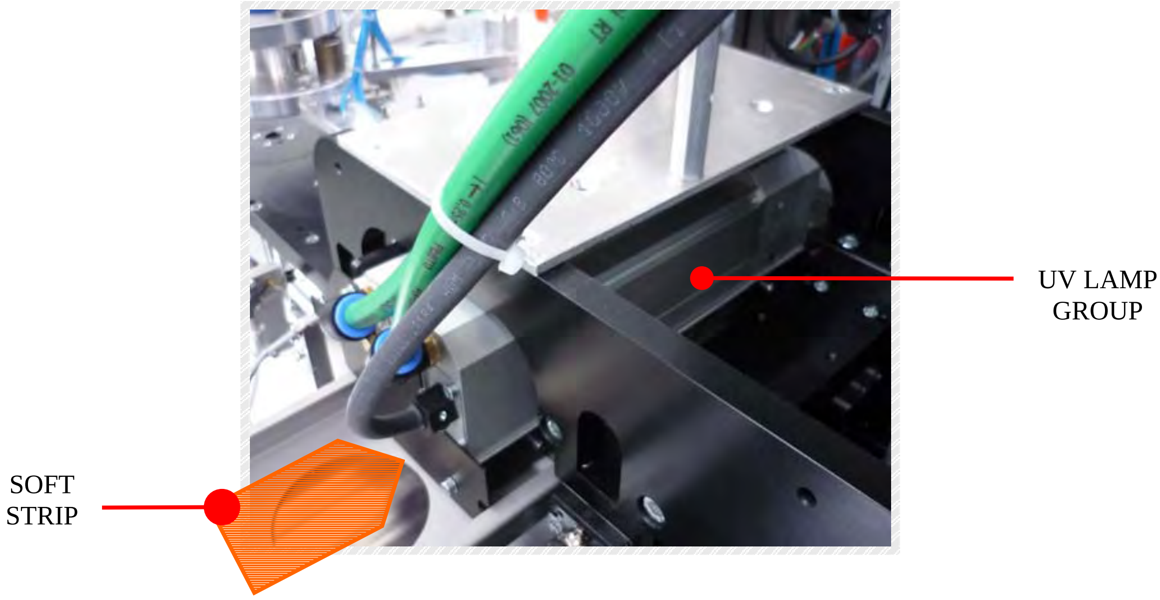
- WAIT ABOUT 15 MINUTES FOR THE LAMP TO COOL DOWN

- UNSCREW THE **SCREW ‘A’** AND REMOVE THE UV PROTECTION PLATE POSITIONED ON THE WATER PIPES SIDE

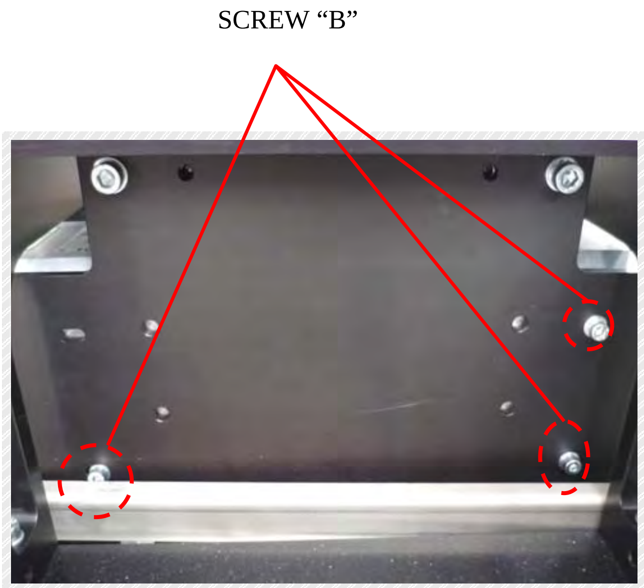
SCREW
“A“



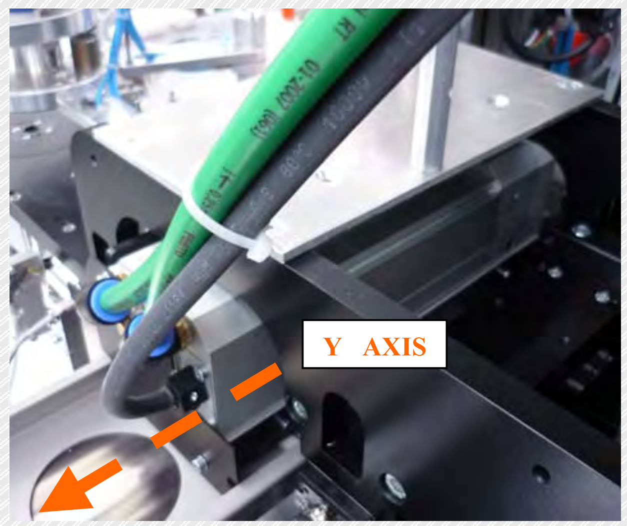
- SLIDE UNDER THE LAMP A **SOFT STRIP** OF MATERIAL TO PROTECT THE COOLING TUBE



- HOLDING THE COMPLETE **UV LAMP GROUP** BY HAND, REMOVE THE THREE **SCREW ‘B’** THEN GENTLY LOWER ONTO THE **SOFT STRIP**



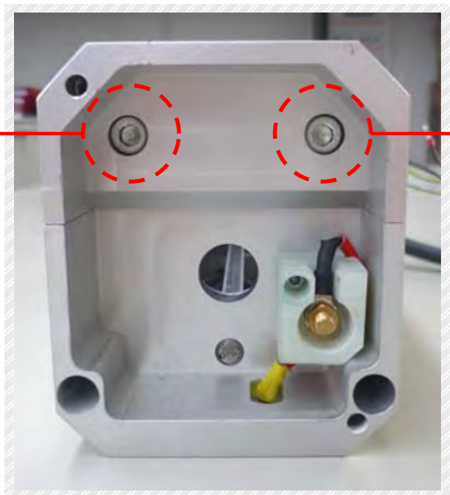
- <u>GENTLY SLIDE</u> THE **UV LAMP GROUP** OUT IN THE DIRECTION OF THE **‘Y’ AXIS** AND PLACE IT OUT OF THE MACHINE ON A TROLLEY OR TABLE NEAR THE MACHINE



- REMOVE THE TWO END COVERS AND THE LAMP AS DESCRIBED IN THE SECTION 7.02.01 . THE REMOVABLE OF THE LAMP IS TO SAVE IT FROM DAMAGE WHILE CLEANING THE WATER COOLING TUBE

- REMOVE THE **SCREW ‘C’**

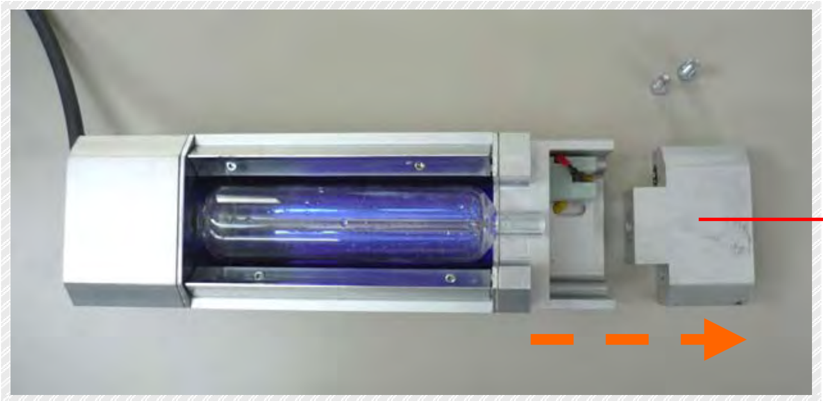
SCREW “C”



SCREW “C”

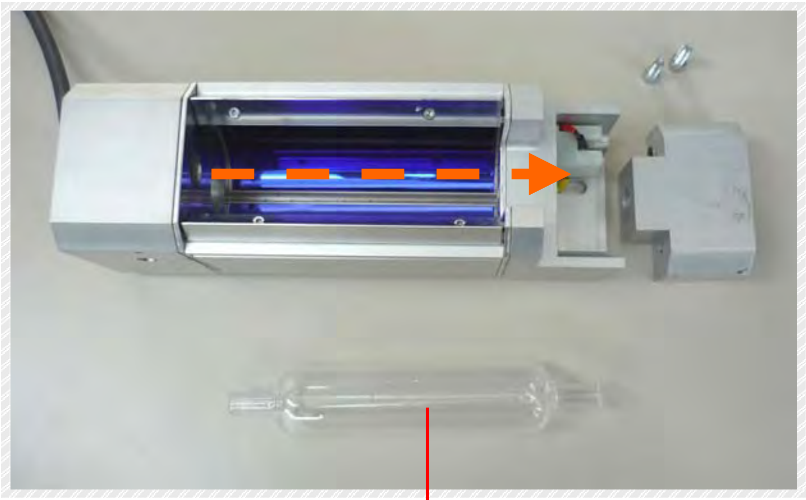
- GENTLY PULL OFF THE **BLOCK ‘D’** POSITIONED ON THE OPPOSITE END TO THE TUBES

  THIS OPERATION MAY REQUIRE SOME FORCE SO BE CAREFUL NOT TO DAMAGE THE COOLING TUBE



BLOCK “D”

- TURNING THE COOLING TUBE VERY CAREFULLY, REMOVE THE TUBE FROM THE OTHER END



COOLING TUBE

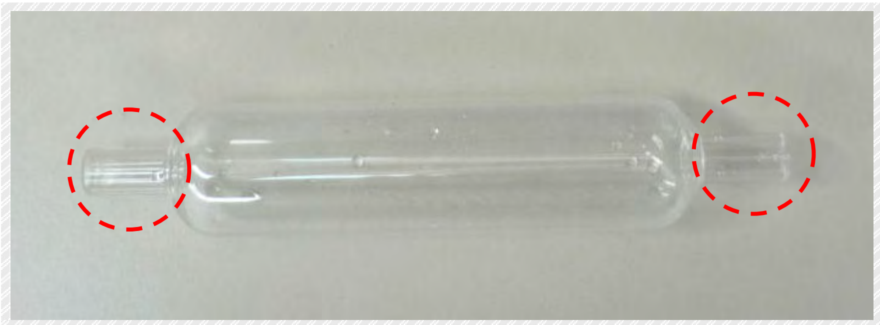
- CLEAN THE INSIDE AND OUTSIDE OF THE TUBE USING THE SCOTCH BRITE AND BRUSH WITH AN ANTI-SCALING REMOVER

IF THE COOLING TUBE IS VERY CONTAMINATED IT MAY TAKE SOME TIME TO CLEAN IT THOROUGHLY !

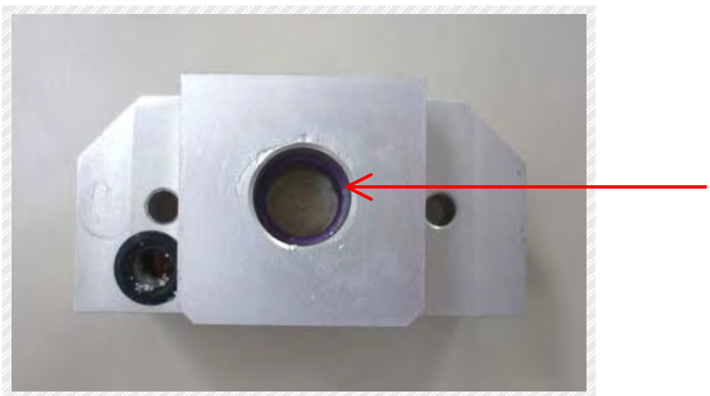
N.B. **THE QUARTZ COOLING TUBE MUST BE VERY CLEAN AND COMPLETELY TRANSPARENT**

- RINSE VERY WELL AND DRY THE COOLING TUBE : STAINS AND MARKS SHOW UP MORE WHEN THE TUBE IS DRY RATHER THAN WET

- CAREFULLY APPLY A <u>SMALL AMOUNT</u> OF GREASE EXTERNALLY TO THE ENDS OF THE COOLING TUBE : THIS WILL PREVENT LEAKING WHEN RE-ASSEMBLED

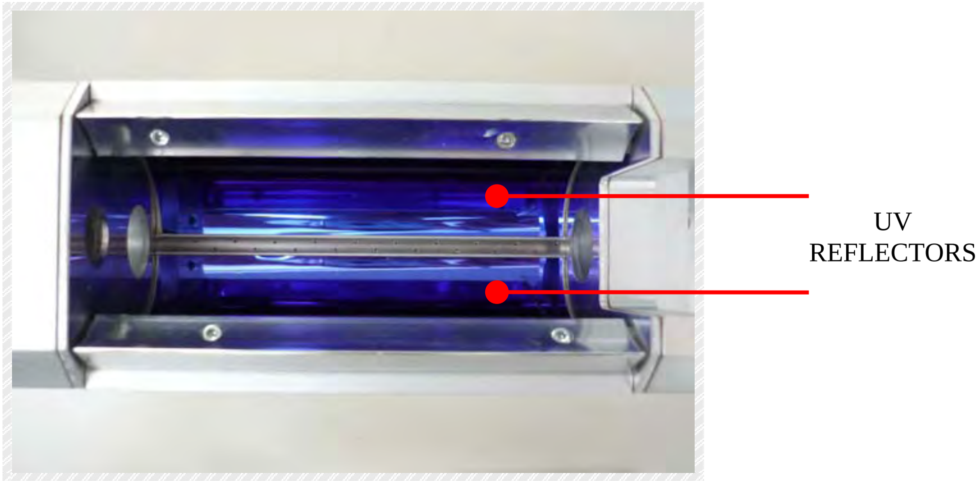


- CLEAN <u>CAREFULLY</u> THE **'O' RINGS** THEN APPLY A <u>SMALL AMOUNT</u> OF GREASE ON <u>BOTH</u> **'O' RINGS** : THIS WILL PREVENT LEAKING WHEN RE-ASSEMBLED



O-RING

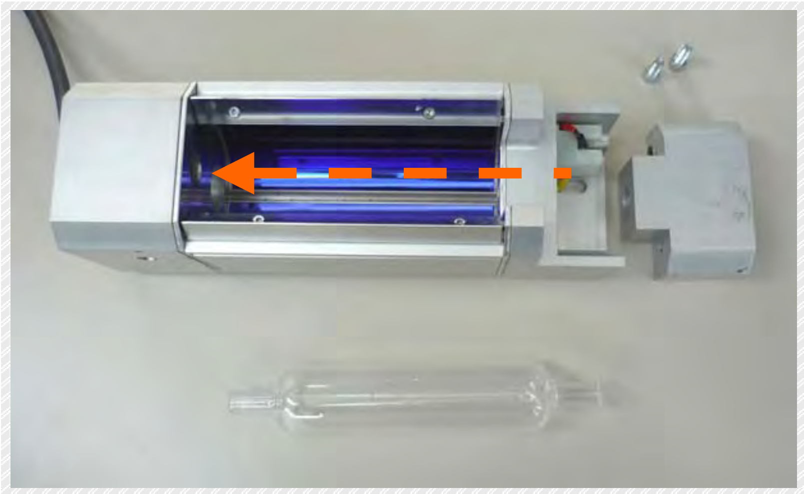
- CLEAN CAREFYLLY BOTH **UV REFLECTORS** USING A SOFT WIPE DAMPENED WITH AN ANTI- SCALE REMOVER



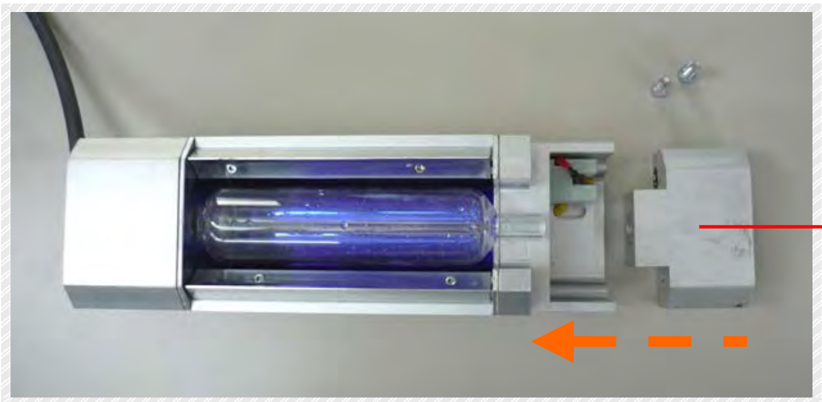
N.B. **THE UV REFLECTORS MUST BE VERY CLEAN AND WITHOUT ANY HAZE MARKINGS.**

CHECK THE CONDITION OF THE 'SPECIAL SURFACE COATING'

- CAREFULLY ROTATE THE COOLING TUBE AND PUSH IT UNTIL FULLY SEATED INTO ITS HOUSING

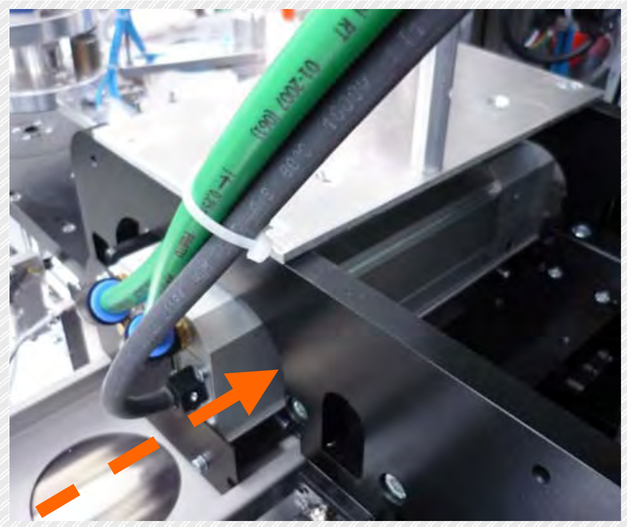


- CAREFULLY PUSH THE **BLOCK ‘D’** INTO PLACE AND TIGHTEN ITS FIXING SCREWS



- MOUNT THE UV LAMP BULB AND END PLATES AS DESCRIBED IN THE SECTION 7.02.01

- GENTLY SLIDE THE UV LAMP GROUP ONTO PLACE USING THE SOFT STRIP FOR PROTECTION



- FIX THE **UV LAMP GROUP** IN PLACE WITH THE **SCREWS ‘B’**

- MOUNT THE UV PROTECTION PLATE

- SWITCH ‘ON’ THE **UV POWER SWITCH** IN THE ELECTRICAL CABINET

- PULL OUT THE **EMERGENCY PUSHBUTTON** , PRESS **RESET** THEN WAIT UNTIL THE INITIALIZATION SEQUENCE IS COMPLETED AND THE **IDLE** LIGHT IS ‘ON’

7.02.03 REPLACING AN INK BUFFER

TAPEMATIC OFFER A REFURBISHING SERVICE FOR THE BUFFER UNIT.

REFURBISHING INCLUDES THE REPLACEMENT OF THE MEMBRANES AND 'O' RINGS AND FULLY TESTING IN CONDITION OF 'HIGH VACUUM'.

WE HIGHLY RECOMMEND RETURNING BUFFER FOR REFURBISHING TO TAPEMATIC AT THE FOLLOWING ADDRESS :

SERVICE DEPARTMENT

TAPEMATIC S.p.A.
VIA VIMERCATE 32
20060 ORNAGO
(MILANO) ITALY

N.B. **WE HIGHLY RECOMMEND THE PURCHASE OF A SPARE BUFFER TO BE HELD IN STOCK TO REDUCE DOWNTIME TO A MINIMUM**

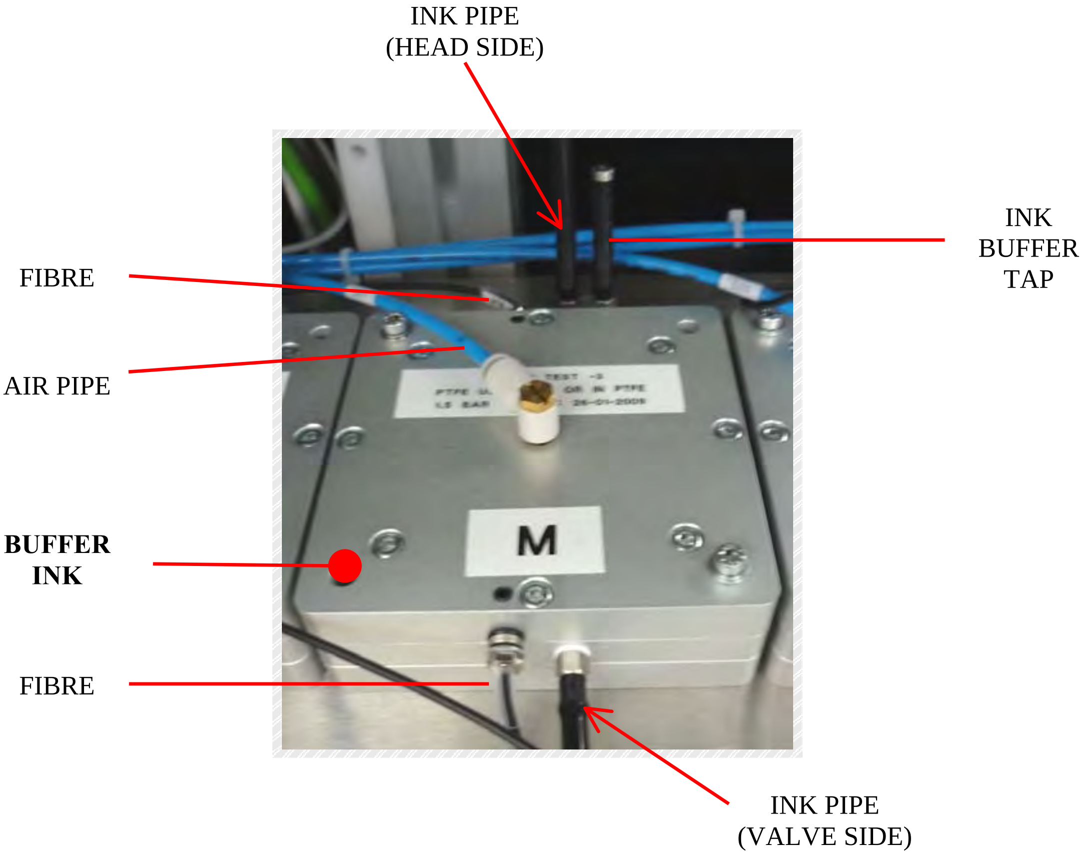
- REMOVE THE **AIR PIPE** AND THE TWO OPTICAL **FIBERS** : BE CAREFUL NOT TO LOOSE THE TWO SMALL ‘O’ RINGS

- PLACE A SMALL QUANTITY OF ABSORBENT PAPER OR CLOTH TO CONTAIN A SMALL AMOUNT OF INK WHICH WILL FLOW FROM THE **INK PIPE – HEAD SIDE .** CUT THE INK PIPE <u>AS CLOSE TO THE BUFFER</u> TO MAINTAIN THE FULL LENGTH OF THE TUBE AS POSSIBLE.

  IF THE TUBE HAS BEEN CUT BEFORE, REPLACE THE TUBE TO MAINTAIN THE ORIGINAL LENGTH.

- PLACE A SMALL QUANTITY OF ABSORBENT PAPER OR CLOTH TO CONTAIN A VERY SMALL AMOUNT OF INK WHICH WILL FLOW FROM THE **INK PIPE – VALVE SIDE .** CUT THE SMALL INK PIPE THEN PLUG OFF FROM THE INK VALVE : WHEN FIX THE NEW BUFFER, CUT AND PLUG A <u>NEW</u> INK PIPE WITH THE SAME ORIGINAL LENGTH

- REMOVE THE SCREWS WHICH FIX THE BUFFER TO THE SUPPORT PLATE AND REMOVE IT FROM ITS SEAT



- FIX IN POSITION A NEW OR REFURBISHED BUFFER, CONNECT THE INK PIPES, FIBERS AND AIR TUBE

- FROM THE SUPERVISOR, OPEN THE PAGE **CLEAN**, SELECT THE COLOUR CORRESPONDENT TO THE BUFFER THAT HAS BEEN CHANGED, SELECT **FILL** AND PRESS **EXE** : THE MACHINE WILL PROVIDE TO RE-FILL THE NEW BUFFER

- WHEN THE FILLING SEQUENCE IS TERMINATED, SELECT **PURGE** AND PRESS **EXE** <u>UP TO REMOVE ALL THE AIR BUBBLES INSIDE THE INK CIRCUIT</u>

- CLEAN THE CORRESPONDENT HEAD UNDERSIDE AS DESCRIBE IN THE SECTION 7.01.03

- BEFORE PROCEED TO PRODUCTION, PRINT THE “TESTCHART” IMAGE TO CHECK THE CONDITION OF THE HEAD

- ONCE IN OPERATION CHECK FOR ANY INK LEAKS FROM THE BUFFER


I
Leggere attentamente il manuale dell'operatore prima di far funzionare la macchina. Osservare le norme e le istruzioni di sicurezza durante il funzionamento.
F
Lire le livret d'entretien et le conseil de sécurité avant la mise en marche et en tenir compte pendant le fonctionnement.
GB
Carefully read Operator's Manual before handling the machine. Observe instructions and safety rules when operating.
D
Vor Inbetriebnahme die Betriebsanleitung und Sicherheitshinweise lesen und beachten.
E
Leer con cuidado el manual de instrucciones antes de la utilización de la máquina. Observar las normas de seguridad mientras la máquina está funcionando.


CAUTION
Do not open while machinery is in motion.
Brimar 800-274-6271 / E2151-AA

8. ALARMS & TROUBLE SHOOTING

!!! ATTENTION !!!

- **CAREFULLY READ THIS MANUAL PRIOR TO ATTEMPTING TO USE THE MACHINE**
- **ADJUSTMENTS, MAINTENANCE AND REPAIRS TO THE MACHINE MUST BE CARRIED OUT BY QUALIFIED PERSONNEL WORKING WITHIN THE SAFETY NORMS**
- **IT IS ABSOLUTELY FORBIDDEN TO TAMPER OR REMOVE SAFETY DEVICES OR MODIFY ELECTRICALLY OR MECHANICALLY THE MACHINE**
- **PRESS THE "STOP" OR "IDLE PRIOR TO WORKING INSIDE THE MACHINE OR OPENING THE PANELS**
- **DO NOT TOUCH ANY ELECTRICAL DEVICES WITH WET HANDS OR OTHER PARTS OF THE BODY**
- **ALWAYS USE PROTECTIVE GLASSES AND GLOVES WHEN WORKING WITH OR TOUCHING THE UV LAMP OR INKS**
- **DO NOT LOOK DIRECTLY INTO THE RAYS OF THE UV LAMP**
- **IN CASE OF AN EMERGENCY IMMEDIATELY PUSH THE EMERGENCY "RED MUSHROOM"**
- **THE MANUFACTURER CAN NOT BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED TO PERSONS OR MACHINERY DUE TO LACK OF OBSERVATION OF THE SAFETY REGULATIONS IN THE COUNTRY OF INSTALLATION**

N.B. **WHEN THE FRONT COVER IS OPEN OR THE TWO SPINDLES ARE NOT IN POSITION IT IS <u>NOT</u> POSSIBLE TO RESET THE MACHINE**

(THE RESET BUTTON IS NON ACTIVE)

8.01 ALARM LIST

ALARM 01	Motor movement axis X printing shuttle in error 1
ALARM 02	Motor movement axis X printing shuttle in error 2
ALARM 03	Motor movement axis X printing shuttle in error 3
ALARM 04	Motor movement axis Y print head group in error 1
ALARM 05	Motor movement axis Y print head group in error 2
ALARM 06	Motor movement axis Y print head group in error 3
ALARM 07	Motor movement vertical lifter in error 1
ALARM 08	Motor movement vertical lifter in error 2
ALARM 09	Motor movement vertical lifter in error 3
ALARM 10	Motor rotation in-feed manipulator in error 1
ALARM 11	Motor rotation in-feed manipulator in error 2
ALARM 12	Motor rotation in-feed manipulator in error 3
ALARM 13	Motor rotation in-feed dial has not turned or is not in position
ALARM 14	Cylinder lifting arm not forward
ALARM 15	Cylinder lifting arm not backward
ALARM 16	Motor rotation in-feed dial in error
ALARM 17	No discs on in-feed dial
ALARM 18	Disc not collected in-feed manipulator arm 1
ALARM 19	Disc not collected in-feed manipulator arm 2: check vacuum sensor Input 2/1
ALARM 20	Disc not collected in-feed manipulator arm 3
ALARM 21	Disc not collected in-feed manipulator arm 4
ALARM 22	Motor rotation in-feed conveyor has not turned or is not in position
ALARM 23	Motor lifter not in rest position: check Input 7/3
ALARM 24	Motor movement axis Y disc transfer in error 1
ALARM 25	Motor movement axis Y disc transfers in error 2
ALARM 26	Motor movement axis Y disc transfers in error 3
ALARM 27	Disc transfer not down
ALARM 28	Disc transfer not up
ALARM 29	Print tunnel entrance barrier: remove double disc
ALARM 30	Motor rotation offload conveyor has not turned or is not in position
ALARM 31	Motor rotation in-feed dial has not turned or is not in position
ALARM 32	Motor rotation offload dial in error
ALARM 33	No empty spindles on offload dial
ALARM 34	UV Lamps cooling water pressure low: check water pressure gauge Input 5/F
ALARM 35	UV Lamp 1 no response from the system: check power supply or if lamp is too hot, please wait!
ALARM 36	UV Lamp 1 no power or short circuit
ALARM 37	UV Lamp 1 turned off by the drive
ALARM 38	UV Lamp 1 power ground fault
ALARM 39	UV Lamp 1 drive fault: check driver lights
ALARM 40	Main air pressure low

ALARM 41	UV Lamps cooling water pressure low: check water pressure gauge Input 5/F
ALARM 42	UV Lamp 1 power in fault status
ALARM 43	UV Lamp 2 maximum power time-out: check power set point
ALARM 44	UV Lamp 2 no power or short circuit
ALARM 45	UV Lamp 2 power phase missing
ALARM 46	UV Lamp 2 power ground fault
ALARM 47	UV Lamp 2 power in fault status
ALARM 48	Print head group cleaning cylinder not up
ALARM 49	Print head group cleaning cylinder not down
ALARM 50	White print head cleaning cylinder not up
ALARM 51	White print head cleaning cylinder not down
ALARM 52	White ink buffers empty
ALARM 53	Cyan ink buffers empty
ALARM 54	Magenta ink buffers empty
ALARM 55	Yellow ink buffers empty
ALARM 56	Black ink buffers empty
ALARM 57	Remove double disc on in-feed conveyor
ALARM 58	Discs missing on printing shuttle
ALARM 59	Remove disc at last position on in-feed conveyor
ALARM 60	Squeegee cylinder not down
ALARM 61	Squeegee cylinders not up
ALARM 62	Blade cylinders not down
ALARM 63	Blade cylinders not up
ALARM 64	Silk manipulator not down
ALARM 65	Silk manipulator not up
ALARM 66	Silk manipulator not 0 degrees
ALARM 67	Silk manipulator not 180 degrees
ALARM 68	Screen print dial in-feed position no vacuum
ALARM 69	Screen print manipulator motor in error
ALARM 70	Screen print dials motor in error
ALARM 71	Screen print dial barrier: remove double disc on in-feed position
ALARM 72	EMERGENCY PUSHBUTTON PRESSED OR SAFETY DOORS OPENED!
ALARM 73	SAFETY DOORS OPENED!
ALARM 74	SILK SCREEN GROUP SAFETY DOOR OPENED!
ALARM 75	Silk screen group not in lower working position
ALARM 76	Disc missing on in-feed conveyor first position
ALARM 77	UV Lamp 1 air blow pressure not correct
ALARM 78	UV Lamp 2 air blow pressure not correct
ALARM 79	Remove disc on in-feed conveyor first position: wrong disc code!
ALARM 80	Light Cyan ink buffer empty
ALARM 81	Light Magenta ink buffer empty
ALARM 82	UV Lamp 1 shutter not open
ALARM 83	UV Lamp 1 shutter not close
ALARM 84	UV Lamp 2 shutter not open
ALARM 85	UV Lamp 2 shutter not close
ALARM 86	Remove disc over code station pin

8.02 TROUBLE SHOOTING

**COMING
SOON**


I
Leggere attentamente il manuale dell'operatore prima di far funzionare la macchina. Osservare le norme e le istruzioni di sicurezza durante il funzionamento.
F
Lire le livret d'entretien et le conseil de sécurité avant la mise en marche et en tenir compte pendant le fonctionnement.
GB
Carefully read Operator's Manual before handling the machine. Observe instructions and safety rules when operating.
D
Vor Inbetriebnahme die Betriebsanleitung und Sicherheitshinweise lesen und beachten.
E
Leer con cuidado el manual de instrucciones antes de la utilización de la máquina. Observar las normas de seguridad mientras la máquina está funcionando.


CAUTION
Do not open while machinery is in motion.
Brimar 800-274-6271 / E2151-AA

9. INPUTS & OUTPUTS

!!! ATTENTION !!!

- **CAREFULLY READ THIS MANUAL PRIOR TO ATTEMPTING TO USE THE MACHINE**
- **ADJUSTMENTS, MAINTENANCE AND REPAIRS TO THE MACHINE MUST BE CARRIED OUT BY QUALIFIED PERSONNEL WORKING WITHIN THE SAFETY NORMS**
- **IT IS ABSOLUTELY FORBIDDEN TO TAMPER OR REMOVE SAFETY DEVICES OR MODIFY ELECTRICALLY OR MECHANICALLY THE MACHINE**
- **PRESS THE "STOP" OR "IDLE PRIOR TO WORKING INSIDE THE MACHINE OR OPENING THE PANELS**
- **DO NOT TOUCH ANY ELECTRICAL DEVICES WITH WET HANDS OR OTHER PARTS OF THE BODY**
- **ALWAYS USE PROTECTIVE GLASSES AND GLOVES WHEN WORKING WITH OR TOUCHING THE UV LAMP OR INKS**
- **DO NOT LOOK DIRECTLY INTO THE RAYS OF THE UV LAMP**
- **IN CASE OF AN EMERGENCY IMMEDIATELY PUSH THE EMERGENCY "RED MUSHROOM"**
- **THE MANUFACTURER CAN NOT BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED TO PERSONS OR MACHINERY DUE TO LACK OF OBSERVATION OF THE SAFETY REGULATIONS IN THE COUNTRY OF INSTALLATION**

9.01 LIST OF INPUT SIGNALS

IN	DESCRIPTION	CABLE	STRIP / PIN	LED

DIGITAL INPUTS MOD.2 QX80

IN	DESCRIPTION	CABLE	STRIP / PIN	LED
IN 2/0	VACUUM SENSOR IN-FEED MANIP. POSITION 1 (UNLOAD)	J1	X-01/01	0
IN 2/1	NOT USED	J1	X-01/02	1
IN 2/2	NOT USED	J1	X-01/03	2
IN 2/3	NOT USED	J1	X-01/04	3
IN 2/4				4
IN 2/5				5
IN 2/6	VACUUM SENSOR PRINTING SHUTTLE POS.14-19	J6	X-06/23	6
IN 2/7	HEADS KCMY CYLINDER UPPER CLEAN POSITION	J7	X-07/08	7
IN 2/8	HEADS KCMY CYLINDER LOWER IDLE POSITION	J7	X-07/09	8
IN 2/9				9
IN 2/A				A
IN 2/B	LIFTING ARM FORWARD	J1	X-01/07	B
IN 2/C	LIFTING ARM BACKWARD	J1	X-01/08	C
IN 2/D	INPUT LIFT ARM FREE TO TURN	J1	X-01/09	D
IN 2/E	LIFTER MOTOR UPPER POS.	J1	X-01/10	E
IN 2/F				F

DIGITAL INPUTS MOD.4 QX80

IN	DESCRIPTION	CABLE	STRIP / PIN	LED
I N 4/0	IN-FEED SPINDLE IN POSITION	J1	X-01/11	0
I N 4/1	IN-FEED SPINDLE AVAILABLE	J1	X-01/12	1
IN4/2	NOT USED	J15/B	X-15/33	2
IN4/3	NOT USED	J15/B	X-15/34	3
I N 4/4	IN-FEED SPINDLE DISC COLLECTING POSITION	J1	X-01/13	4
I N 4/5	OFFLOAD SPINDLE IN POS.	J1	X-01/14	5
I N 4/6	UV 1 SHUTTER OPEN	J6	X-06/07	6
I N 4/7	OFFLOAD SPINDLE AVAILABLE	J1	X-01/15	7
I N 4/8	UV 1 AIR PRESSURE ON	J15/B	X-15/35	8
I N 4/9	OFFLOAD SPINDLE FULL	J1	X-01/16	9
I N 4/A	PRINTING SHUTTLE SINGLE DISC BARRIER	J1	X-01/05	A
I N 4/B				B
I N 4/C				C
I N 4/D				D
I N 4/E	UV 1 FAULT (ALARM)	J11	PS11-06	E
I N 4/F	NOT USED	J1	X-01/17 WHT-GREY	F

DIGITAL INPUTS MOD.5 QX80

I N 5/0	EMERGENCY PUSHBUTTON		MAIN CABINET INTERNAL LINK	0
I N 5/1	START CYCLE PUSHBUTTON	J8	NONE	1
I N 5/2	STOP CYCLE PUSHBUTTON	J8/J7/J19B	X-07/10 X-19/36	2
I N 5/3	RESET CYCLE PUSHBUTTON	J8	NONE	3
I N 5/4	IDLE PUSHBUTTON	J8	NONE	4
I N 5/5	CHANGE SPINDLE PUSHBUTTON	J9	NONE	5
I N 5/6				6
I N 5/7				7
I N 5/8				8
I N 5/9	UV 1 LAMP FAILURE	J11	PS11-07	9
I N 5/A	UV 1 LAMP DRIVER FAILURE	J11	PS11-08	A
I N 5/B	UV 1 LAMP ON	J11	PS11-09	B
I N 5/C	SAFETY DOOR SWITCH	J7	X-7/24	C
I N 5/D				D
I N 5/E	MAIN AIR PRESSURE SWITCH	J15/B	X-15/31	E
I N 5/F	UV LAMPS WATER ON	J15/B	X-15/32	F

DIGITAL INPUTS MOD.6 QX80

IN 6/0	SILK MANIPULATOR UPPER POSITION	J19A	X-19/01	0
IN 6/1	SILK MANIPULATOR LOWER POSITION	J19A	X-19/02	1
IN 6/2	NOT USED	J19A	X-19/03	2
IN 6/3	NOT USED	J19A	X-19/04	3
IN 6/4	SCREEN PRINT SQUEEGEE CYLINDER UPPER POSITION	J19A	X-19/05	4
IN 6/5	SCREEN PRINT SQUEEGEE CYLINDER LOWER POSITION	J19A	X-19/06	5
IN 6/6	SCREEN PRINT BLADE CYLINDER UPPER POSITION	J19A	X-19/07	6
IN 6/7	SCREEN PRINT BLADE CYLINDER LOWER POSITION	J19A	X-19/08	7
IN 6/8	SCREEN PRINT DIAL POS. "A" VACUUM SENSOR	J19A	X-19/09	8
IN 6/9	SCREEN PRINT DIAL POS. "B" VACUUM SENSOR	J19A	X-19/10	9
IN 6/A	SCREEN PRINT GROUP UPPER POSITION	J19A	X-19/11	A
IN 6/B	SCREEN PRINT GROUP LOWER POSITION	J19A	X-19/12	B
IN 6/C				C
IN 6/D	MULTIPLE DISC / CENTRING PIN SENSOR UP	J19B	X-19/35	D
IN 6/E				E
IN 6/F	SCREEN PRINT DOOR SWITCH (NOT USED)	J19A	X-19/19	F

DIGITAL INPUTS MOD.7 QX40-S1
(*NEG. LOGIC)*

IN 7/0				0
IN 7/1				1
IN 7/2				2
IN 7/3	LIFTER MOTOR HOME POS. // NEAR POINT DOG	J1/J4	X-01/25 X-04/03	3
IN 7/4	SCREEN PRINT MANIP. DRIVER (RD) READY	J18	CNIB/19	4
IN 7/5	SCREEN PRINT MANIP. DRIVER (PED) MOV. COMPLETE	J18	CNIB/06	5
IN 7/6	SCREEN PRINT MANIPULATOR DRIVER (ALM) TROUBLE	J18	CNIB/18	6
IN 7/7	SCREEN PRINT DIAL DRIVER (RD) READY	J21	CNIB/19	7
IN 7/8	SCREEN PRINT DIAL DRIVER (PED) MOV. COMPLETE	J21	CNIB/06	8
IN 7/9	SCREEN PRINT DIAL DRIVER (ALM) TROUBLE	J21	CNIB/18	9
IN 7/A				A
IN 7/B				B
IN 7/C				C
IN 7/D				D
IN 7/E				E
IN 7/F				F

DIGITAL INPUTS MOD.8 QX80

IN 8/0	CYAN COLOUR INK BUFFER SENSOR	J6	X-06/01	0
IN 8/1	MAGENTA COLOUR INK BUFFER SENSOR	J6	X-06/02	1
IN 8/2	YELLOW COLOUR INK BUFFER SENSOR	J6	X-06/03	2
IN 8/3	BLACK COLOUR INK BUFFER SENSOR	J6	X-06/04	3
IN 8/4	LIGHT MAGENTA COLOUR INK BUFFER SENSOR	J6	X-06/05	4
IN 8/5	LIGHT CYAN COLOUR INK BUFFER SENSOR	J6	X-06/06	5
IN 8/6				6
IN 8/7				7
IN 8/8				8
IN 8/9				9
IN 8/A	SCREEN PRINT GROUP MAINTENANCE ENABLE	J19A	X-19/20	A
IN 8/B	SCREEN PRINT GROUP STEP BY STEP PUSHBUTTON	J19A	X-19/21	B
IN 8/C	SCREEN PRINT GROUP DISC CHANGE PUSHBUTTON	J19A	X-19/22	C
IN 8/D	SCREEN PRINT GROUP SQUEEGEE ENABLE PUSHBUTTON	J19A	X-19/23	D
IN 8/E	SCREEN PRINT GROUP BLADE ENABLE PUSHBUTTON	J19A	X-19/24	E
IN 8/F	SCREEN PRINT GROUP INK PUMP PUSHBUTTON	J19A	X-19/25	F

9.02 LIST OF OUTPUT SIGNALS

OUT | **DESCRIPTION** | **CABLE** | **STRIP / PIN** | **LED**

DIGITAL OUTPUTS MOD. 9 QY80

OUT	DESCRIPTION	CABLE	STRIP / PIN	LED
OUT 9/0	GRIP 1 AIR VALVE	J15A	X-15/01	0
OUT 9/1	GRIP 2 AIR VALVE	J15A	X-15/02	1
OUT 9/2	IN-FEED MANIPULATOR ARM 1 DOWN	J15A	X-15/03	2
OUT 9/3	DISC CENTRING CYL. POS 4	J15A	X-15/04	3
OUT 9/4	PRINT HEADS KCMY CYLINDER CLEAN POS. AIR VALVE	J15A	X-15/05	4
OUT 9/5				5
OUT 9/6	LIFTER ARM AIR VALVE	J15A	X-15/07	6
OUT 9/7	UV1 SHUTTER AIR VALVE	J15A	X-15/08	7
OUT 9/8	IN-FEED MANIPULATOR ARM 3 DOWN	J15A	X-15/09	8
OUT 9/9	IN-FEED MANIP.ARM 1 VACUUM VALVE	J15A	X-15/10	9
OUT 9/A	NOT USED	J15A	X-15/11	A
OUT 9/B	NOT USED	J15A	X-15/12	B
OUT 9/C	DISC CENTRING CYLINDER POS 3	J15A	X-15/13	C
OUT 9/D	DISC CENTRING CYLINDER POS 2	J15A	X-15/14	D
OUT 9/E	DISC CENTRING CYLINDER POS 1	J15A	X-15/15	E
OUT 9/F	PRINTING SHUTTLE POS.VACUUM VALVE	J15A	X-15/16	F

DIGITAL OUTPUTS MOD. A QY80

OUT	DESCRIPTION	CABLE	STRIP / PIN	LED
OUT A/0				0
OUT A/1				1
OUT A/2				2
OUT A/3				3
OUT A/4	MAIN AIR VALVE	J15A	X-15/21	4
OUT A/5	PRINT TRIGGER 1 ON	J1	X-01/23	5
OUT A/6	PRINT TRIGGER 2 ON	J1	X-01/24	6
OUT A/7	EMERGENCY RELAY RESET		MAIN CABINET INTERNAL LINK	7
OUT A/8	PUSHBUTTON <START> LIGHT	J8	NONE	8
OUT A/9	PUSHBUTTON <STOP> LIGHT	J8	NONE	9
OUT A/A	PUSHBUTTON <IDLE> LIGHT	J8	NONE	A
OUT A/B	PUSHBUTTON <CHANGE SPINDLE> LIGHT	J9	NONE	B
OUT A/C	ALARM BUZZER	J10	XS-02/01	C
OUT A/D	SIGNAL TOWER GREEN LIGHT	J10	XS-02/02	D
OUT A/E	SIGNAL TOWER YELLOW LIGHT	J10	XS-02/03	E
OUT A/F	SIGNAL TOWER RED LIGHT	J10	XS-02/04	F

DIGITAL OUTPUTS MOD. C QY80

OUT C/0				0
OUT C/1	IN-FEED MANIPULATOR ARM 3 DOWN	J15A	X-15/17	1
OUT C/2	NOT USED			2
OUT C/3	NOT USED			3
OUT C/4	PRINT HEAD CLEAN. (LIGHT CYAN)	J7	X-07/01	4
OUT C/5	PRINT HEAD CLEAN. (CYAN)	J7	X-07/02	5
OUT C/6	PRINT HEAD CLEAN. (YELLOW)	J7	X-07/03	6
OUT C/7	PRINT HEAD CLEAN. (MAGENTA)	J7	X-07/04	7
OUT C/8	PRINT HEAD CLEAN. (LIGHT MAGENTA)	J7	X-07/05	8
OUT C/9	PRINT HEAD CLEAN. (BLACK)	J7	X-07/06	9
OUT C/A	PRINT HEAD CLEAN. MAIN VACUUM VALVE	J7	X-07/07	A
OUT C/B	CYAN COLOUR INK LOADING VALVE	J6	X-06/08	B
OUT C/C	MAGENTA COLOUR INK LOADING VALVE	J6	X-06/09	C
OUT C/D	YELLOW COLOUR INK LOADING VALVE	J6	X-06/10	D
OUT C/E	BLACK COLOUR INK LOADING VALVE	J6	X-06/11	E
OUT C/F	LIGHT MAGENTA COLOUR INK LOADING VALVE	J6	X-06/12	F

DIGITAL OUTPUTS MOD. D QY80

OUT D/0	CYAN COLOUR INK PRESSURE AIR VALVE	J15/B	X-15/26	0
OUT D/1	MAGENTA COLOUR INK PRESSURE AIR VALVE	J15/B	X-15/27	1
OUT D/2	YELLOW COLOUR INK PRESSURE AIR VALVE	J15/B	X-15/28	2
OUT D/3	BLACK COLOUR INK PRESSURE AIR VALVE	J15/B	X-15/29	3
OUT D/4	NOT USED	J15/B	X-15/30	4
OUT D/5	UV1 LAMP HOUSING BLOW AIR VALVE	J15A	X-15/18	5
OUT D/6				6
OUT D/7	PRINT HEADS KCMY CYLINDER IDLE POS. AIR VALVE	J15A	X-15/22	7
OUT D/8	LIGHT CYAN COLOUR INK LOADING VALVE	J6	X-06/13	8
OUT D/9	LIGHT MAGENTA COLOUR INK PRESSURE AIR VALVE	J15A	X-15/06	9
OUT D/A	LIGHT CYAN COLOUR INK PRESSURE AIR VALVE	J15A	X-15/23	A
OUT D/B	SCREEN PRINT GROUP DISC CHANGE PUSHBUTTON LIGHT	J22	X-19/34	B
OUT D/C	UV1 ON-OFF	J11	PS11-4	C
OUT D/D	PRINT HEADS POWER ON/OFF		MAIN CABINET INTERNAL LINK	D
OUT D/E				E
OUT D/F				F

DIGITAL OUTPUTS MOD. E QY80

OUT E/0				0
OUT E/1				1
OUT E/2				2
OUT E/3	SCREEN PRINT CENTRING A AIR VALVE	J19B	X-19/29	3
OUT E/4	SCREEN PRINT CENTRING B AIR VALVE	J19B	X-19/30	4
OUT E/5		J19B		5
OUT E/6	SCREEN PRINT SQUEEGEE CYLINDER AIR VALVE	J19B	X-19/32	6
OUT E/7	SCREEN PRINT BLADE CYLINDER AIR VALVE	J19B	X-19/33	7
OUT E/8	NOT USED	J19B	X-19/26	8
OUT E/9	NOT USED	J19B	X-19/27	9
OUT E/A				A
OUT E/B				B
OUT E/C				C
OUT E/D				D
OUT E/E				E
OUT E/F				F

DIGITAL OUTPUTS MOD. F QY40P
(NEG. LOGIC)

OUT F/0	SCREEN PRINT MANIPULATOR SERVO ON	J17	NONE	0
OUT F/1	SCREEN PRINT MANIPULATOR (ST1) ROTATION START	J18	NONE	1
OUT F/2	SCREEN PRINT MANIPULATOR (DI0) PROGRAM 1	J18	NONE	2
OUT F/3	SCREEN PRINT MANIPULATOR (DI1) PROGRAM 2	J18	NONE	3
OUT F/4	SCREEN PRINT MANIPULATOR (PI1 - DI2) PROGRAM 3	J18	NONE	4
OUT F/5	SCREEN PRINT MANIPULATOR (RST) RESET	J18	NONE	5
OUT F/6				6
OUT F/7				7
OUT F/8	SCREEN PRINT DIAL SERVO ON	J20	NONE	8
OUT F/9	SCREEN PRINT DIAL (ST1) ROTATION START	J21	NONE	9
OUT F/A	SCREEN PRINT DIAL (DI0) PROGRAM 1	J21	NONE	A
OUT F/B	SCREEN PRINT DIAL (DI1) PROGRAM 2	J21	NONE	B
OUT F/C	SCREEN PRINT DIAL (PI1 - DI2) PROGRAM 3	J21	NONE	C
OUT F/D	SCREEN PRINT DIAL (RST) RESET	J21	NONE	D
OUT F/E				E
OUT F/F				F

ANALOGUE OUTPUTS Q62DA

AQ 001	UV1 ON/OFF & POWER CONTROL	J11	NONE	
AQ 002				

N.B. **FOR DETAILED INFORMATION REGARDING THE ELECTRICAL COMPONENTS OF THE MACHINE, CONSULT THE "ELECTRICAL SCHEMATICS" MANUAL**


I
Leggere attentamente il manuale dell'operatore prima di far funzionare la macchina. Osservare le norme e le istruzioni di sicurezza durante il funzionamento.
F
Lire le livret d'entretien et le conseil de sécurité avant la mise en marche et en tenir compte pendant le fonctionnement.
GB
Carefully read Operator's Manual before handling the machine. Observe instructions and safety rules when operating.
D
Vor Inbetriebnahme die Betriebsanleitung und Sicherheitshinweise lesen und beachten.
E
Leer con cuidado el manual de instrucciones antes de la utilización de la máquina. Observar las normas de seguridad mientras la máquina está funcionando.

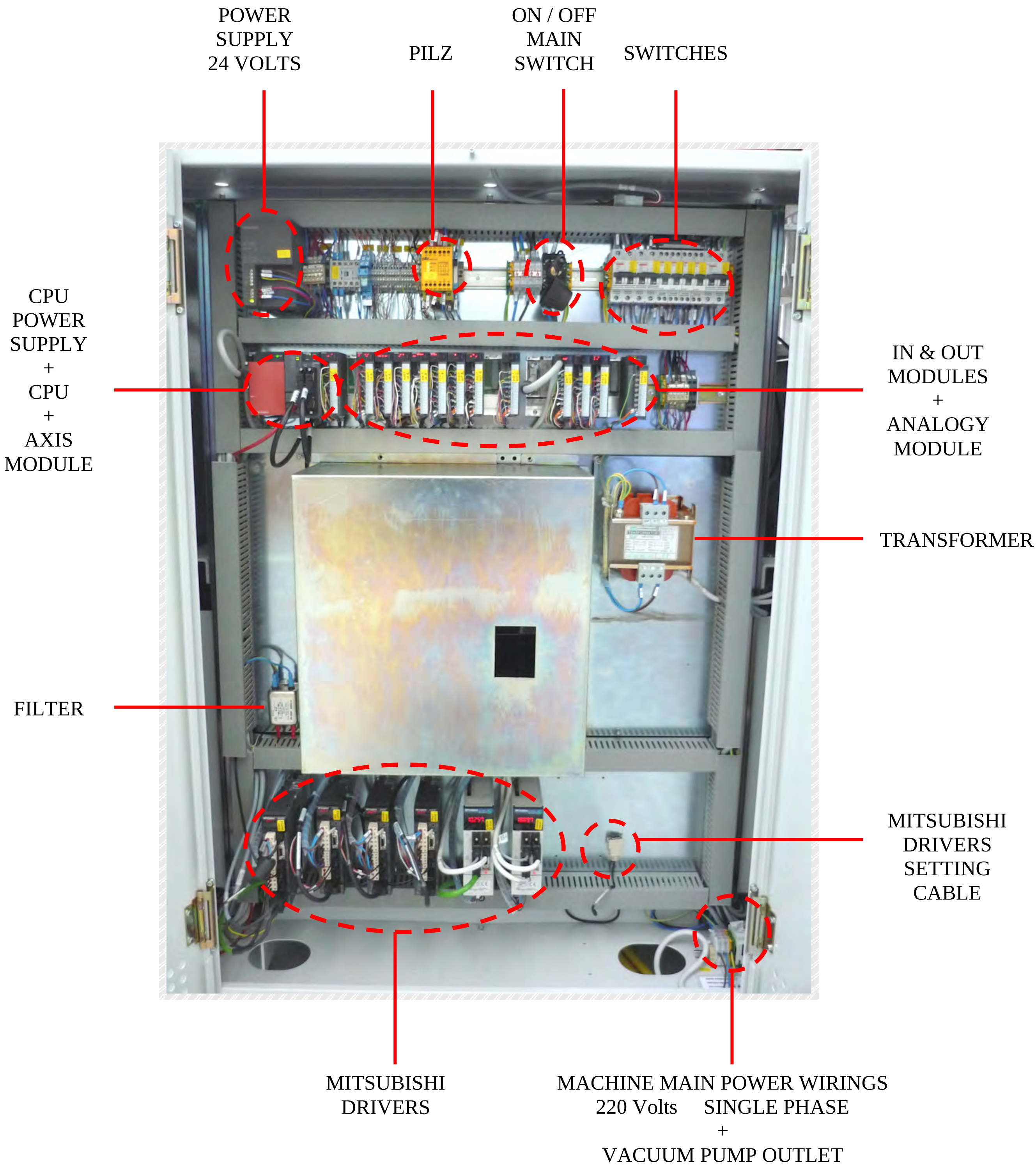

CAUTION
Do not open while machinery is in motion.
Brimar 800-274-6271 / E2151-AA

10. ELECTRICAL CABINET

!!! ATTENTION !!!

- **CAREFULLY READ THIS MANUAL PRIOR TO ATTEMPTING TO USE THE MACHINE**
- **ADJUSTMENTS, MAINTENANCE AND REPAIRS TO THE MACHINE MUST BE CARRIED OUT BY QUALIFIED PERSONNEL WORKING WITHIN THE SAFETY NORMS**
- **IT IS ABSOLUTELY FORBIDDEN TO TAMPER OR REMOVE SAFETY DEVICES OR MODIFY ELECTRICALLY OR MECHANICALLY THE MACHINE**
- **PRESS THE "STOP" OR "IDLE PRIOR TO WORKING INSIDE THE MACHINE OR OPENING THE PANELS**
- **DO NOT TOUCH ANY ELECTRICAL DEVICES WITH WET HANDS OR OTHER PARTS OF THE BODY**
- **ALWAYS USE PROTECTIVE GLASSES AND GLOVES WHEN WORKING WITH OR TOUCHING THE UV LAMP OR INKS**
- **DO NOT LOOK DIRECTLY INTO THE RAYS OF THE UV LAMP**
- **IN CASE OF AN EMERGENCY IMMEDIATELY PUSH THE EMERGENCY "RED MUSHROOM"**
- **THE MANUFACTURER CAN NOT BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED TO PERSONS OR MACHINERY DUE TO LACK OF OBSERVATION OF THE SAFETY REGULATIONS IN THE COUNTRY OF INSTALLATION**

10.01 ELECTRICAL PANEL



10.02 MOTOR DRIVERS

PRINTING SHUTTLE - **LINEAR MOTOR**

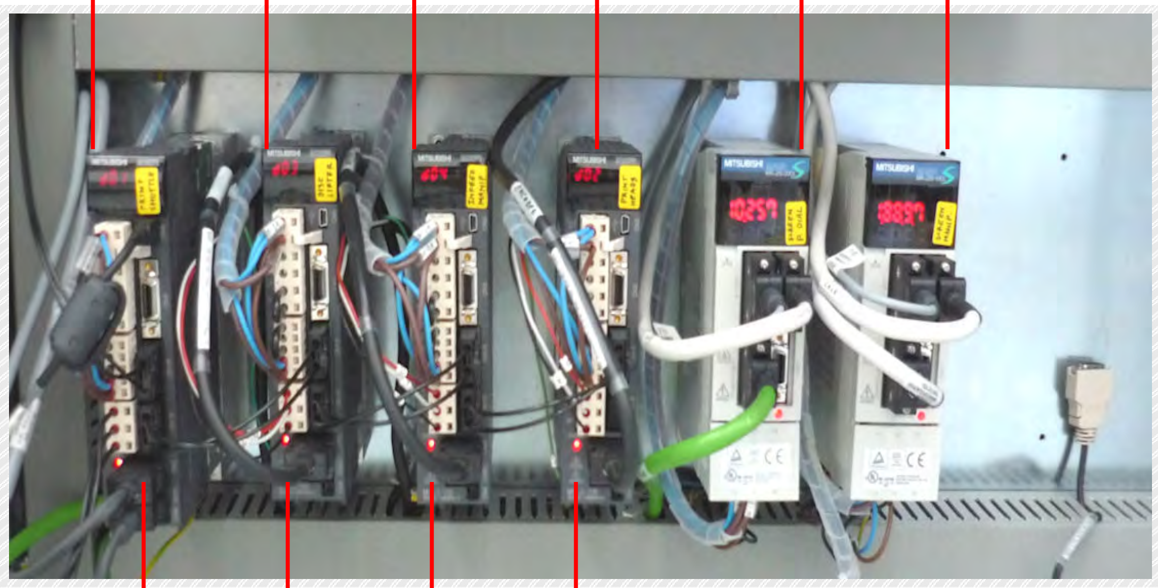
DISC LIFTER

IN-FEED MANIPULATOR

PRINT HEADS

SCREEN PRINT DIAL

SCREEN PRINT MANIPULATOR



d 01 **d 03** **d 04** **d 02**

DRIVER ADDRESSING

N.B. **FOR DETAILED INFORMATION REGARDING THE ELECTRICAL COMPONENTS OF THE MACHINE, CONSULT THE "ELECTRICAL SCHEMATICS" MANUAL**


I
Leggere attentamente il manuale dell'operatore prima di far funzionare la macchina. Osservare le norme e le istruzioni di sicurezza durante il funzionamento.
F
Lire le livret d'entretien et le conseil de sécurité avant la mise en marche et en tenir compte pendant le fonctionnement.
GB
Carefully read Operator's Manual before handling the machine. Observe instructions and safety rules when operating.
D
Vor Inbetriebnahme die Betriebsanleitung und Sicherheitshinweise lesen und beachten.
E
Leer con cuidado el manual de instrucciones antes de la utilización de la máquina. Observar las normas de seguridad mientras la máquina está funcionando.


CAUTION
Do not open while machinery is in motion.
Brimar

NOTE PAD

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