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WARNING

To take more advantage of your printer, recommended to study the contents of this leaflet carefully

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1

PREFACE

Characteristics of Printer Model PP-125

- 1 To get the best quality result, all the moulding process is done by using aluminium mold which has light weight.
- 2 Having the best imported pneumatic system (connectors-solenoid valves- cylinders etc...) for more durability & stability
- 3 All horizontal & vertical moving bar are rigid chrome coated
- 4 Ability to having open and close ink cup system or separately
- 5 Equipped with electric board of micro controller of soft ware and easy operation and reliable hard ware for common noises .
- 6 Board of this model has ability to register more accessories , like shuttle and Cup on the LCD

Note:

- a) If your working place is located in the area with periodic current , it is recommended to use a voltage stabilizer
- b) Connect your printer to earth system or ground or cold water
- c) Do not keep printer near to three-phase unit or noise maker .
- d) compressor should be kept more than 5 meters away from printer.
- e) It is recommended to discharge the water stored in compressor and pipe lines weekly .
- f) Use separate socket for compressor and printer.



- 7** Printability of :
 usual single color close ink cup system
 one color horizontal cup system
 one color open ink cup system
 two color open & close ink cup system
- 8** Shuttle is used in 2 color printing system
- 9** Horizontal cup and shuttle is allocated for round printing system
- 10** Available languages : English – Persian – Arabic-Turkish - Russian

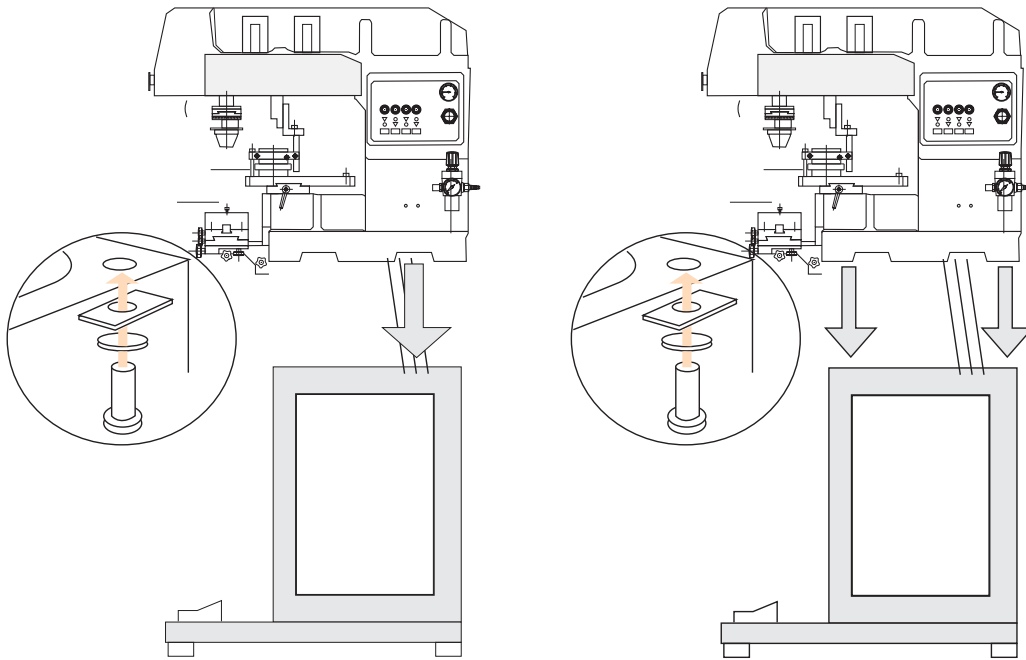
Cliché-close system	10*25
Cliché – open system	10*20
Steel plate	10*20
Max. print size-close system	85mm
Max. print size-open system	170mm * 60mm
Max. print stroke/hour	2000
Air consumption	6 bar
Power	220V Ac 50-60Hz
Dimension (L*W*H)	70*40*128 Cm
Weight	75Kg



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MECHANICAL INSTALLATION

Please put the main body over its stand and fix them by 4 pcs. bolt no. M-12







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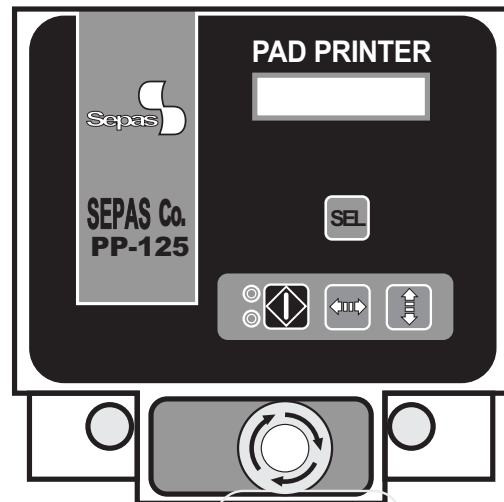


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OPERATOR'S PANEL

Operator's panel includes the following parts :

- 1 LCD
- 2 Navigators are for: changing parameters and operation type
- 3  to start or end automatic cycle
- 4  Horiz /manual state for horizontal movement of jack
- 5  Vert/manual state for vertical movement of jack
- 6  Table/manual state for shuttle or conveyor movement
- 7
 - System : shows the errors of horizontal or vertical micro-switches or the hard ware operations.
- 8 Shuttle : shows errors of shuttle / right or left micro-switches
- 9 Cup : shows errors of cup table / right or left micro-switches
- 10 Special : for special cases and operations



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OPERATOR'S CONTROL SYSTEM IN DETAILS

Operating switches are as detailed bellow :

1- Mono cycle print

2- Continued print

3- Manual control

4- Parameters adjustment

When you turn on your printer, first you can see the menu and then "SEPAS CO." and finally the output data will be appeared on display background.


1

Mono cycle print


First you turn on your unit. Your printer selects mono cycle state. The yellow LED is now on. By each time press-pedal, one print cycle starts and it stops at the end of each cycle. If you keep pressing pedal at the end of each cycle, the new cycle will start. Thus you will have a continued print as long as you keep pressing pedal. As soon as you release pedal your printer stops printing at the end of each cycle.

2

Continued print



Press  the red LED is now on and your continued print starts. To stop printing you can use one of the following procedure :

a) if you press pedal, the continued cycle will stop printing and with repressing pedal printing will continue . Now you can see the word of PEDAL on your screen. In this case there is no availability for mono cycle or any parameters alteration .

b) with repressing  the continued cycle stops printing and returns to mono cycle state.







3 Manual control

By pressing  and  you can control your system manually as following :







By pressing  you will have down / up movement.

By pressing  and  at the same time you will have an automatic down / up movement. If you repress  it will stop automatically.

By following above procedure, you will have front / rear movement by pressing  and you will have automatic state by pressing  and  at the same time and  stops your automatic cycle .

Please note, the control system will accomplish each cycle no matter it is in manual or automatic state.

4 Parameters adjustment

you can enter to each parameters by pressing  and for changing parameters you can press  and  and  you can save the no. of parameter by pressing  . By pressing  you go on without any parameters alterations .

The list of adjustable parameters are as following :

1- CNT: present counting

Note: To reset parameter, you turn on your printer . You press  then press  to change CNT to reset position .

2- CYC: shows print times in each continued cycle and will stop cycle when reaching to zero state. If you confirm zero state you will have an unlimited and non-stop continued print .

Note: For using CYC parameter, CNT should be in zero state .

3- T ap: shows stop time after completion of each cycle

4- T bp: shows stop time before printing

5- T bi: shows stop time before inking

6- R pt: shows number of inking. It is between no.1 & no. 2



Note:

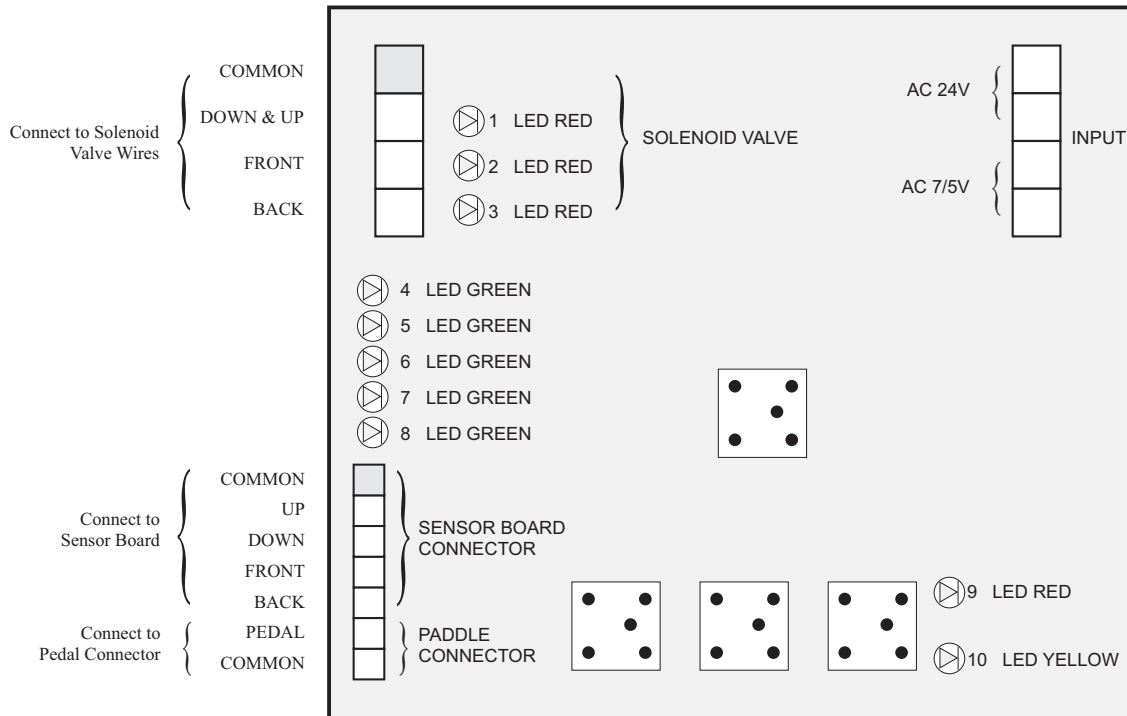
Stop time after printing	T=Time	A=After	P=Print
Stop time before printing	T=Time	B=Before	P=print
Stop time before inking	T=time	B=Before	I=Ink

Digital Control System

This system including:

One electric board free from any adjustment or calibration.

Connections are shown in the following picture.



LED NOS 1-3:
1- Vertical movement (up/down)
2- Front movement
3- Rear movement



LED nos. 4-8- green color:

Sensor up

Sensor down

Micro-switch/front

Micro-switch/rear

Pedal micro-switch

LED no. 9 – red color : for continued print

LED no. 10-yellow color : for mono cycle print

Note :

1 Main board- left 4 pin connector (no.1-3) with LED red are board outgoing wires. Thus, the wires of vertical - horizontal cylinder & solenoid valve are joined to this connector

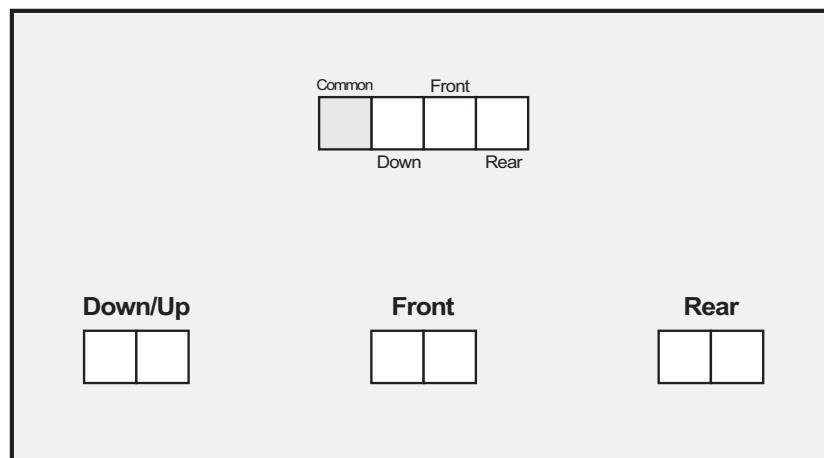
2 Main board- left 5 pin white socket with LED green are board incoming wires. Thus, the wires of micro-switches and vertical-horizontal cylinder sensors are joined to this connector

3 Main board-right 4 pin connector according to above picture:
Up/2 pin 20 V AC & down/2 pin 7.5 AC connect from transformer



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ASPECT OF SOLENOID VALVE BOARD



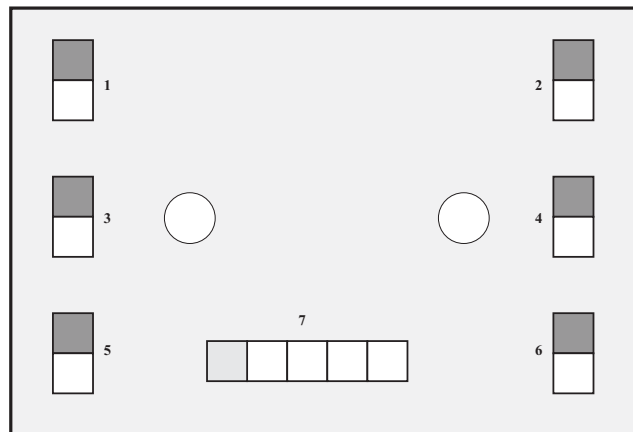
Note: The solenoid valve of horizontal cylinder is 5/2 and including 2 bobbins.

- 1** Bobbin A for front movement and Bobbin B for rear movement
- 2** Solenoid valve for vertical cylinder including single bobbin with up/down movement.
- 3** Single bobbin valve socket is connected to up/down solenoid valve socket
- 4** 2 bobbin 5/2 A solenoid valve socket is connected to front solenoid valve socket.
- 5** 2 bobbin 5/2 B solenoid valve socket is connected to rear solenoid valve socket.
- 6** For more information please refer to chapter 8.



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ASPECT OF SENSOR BOARD



- 1** For up/sensor at rear sensor plate
- 2** For up/sensor at front sensor plate
- 3** For down/sensor at rear sensor plate
- 4** For down/sensor at front sensor plate
- 5** For rear micro-switch at horizontal jack
- 6** For front micro-switch at horizontal jack
- 7** Five-unit socket: one end connects to sensor board wire and the other end to the main board



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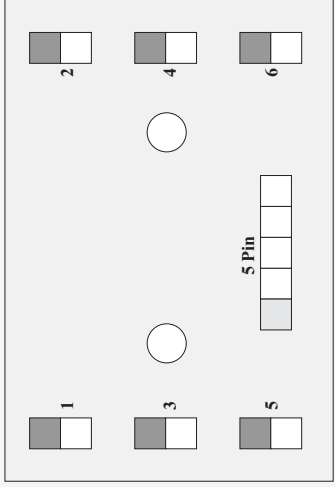
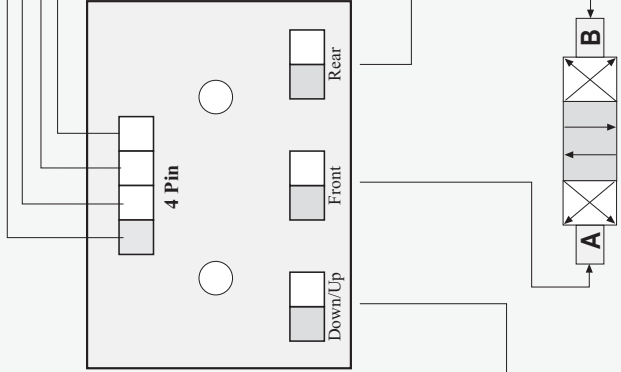
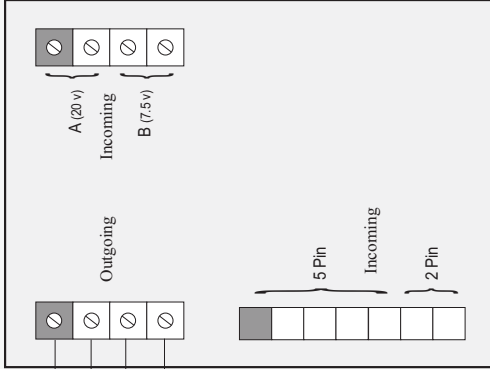
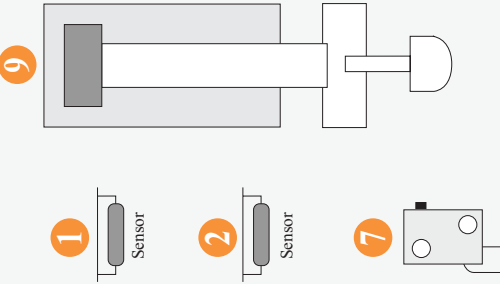
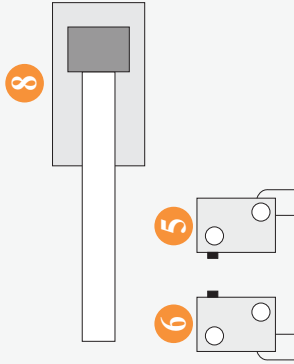
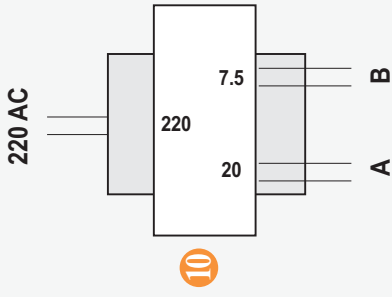
ERRORS

- 1** **Err 1:** up/sensor at rear sensor plate OR vertical cylinder solenoid valve.
- 2** **Err2:** down/sensor at rear sensor plate OR vertical cylinder solenoid valve.
- 3** **Err3:** up/sensor at front sensor plate OR vertical cylinder solenoid valve.
- 4** **Err4:** down/sensor at front sensor plate OR vertical cylinder solenoid valve.
- 5** **Err5:** rear micro-switch at horizontal jack OR horizontal cylinder / solenoid valve B
- 6** **Err6:** front micro-switch at horizontal jack OR horizontal cylinder/ solenoid valve A



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(Electric Circuit)



Electric Circuit

- 1 Up/sensor at rear sensor plate connects to no.1 /kit 15 (sensor board)
- 2 Down/sensor at rear sensor plate connects to no.3/kit 15 (sensor board)
- 3 Up/sensor at front sensor plate connects to no.2/kit 15 (sensor board)
- 4 Down/sensor at front sensor plate connects to no.4/kit 15 (sensor board)
- 5 Rear micro-switch at horizontal jack connects to no.5/kit 15 (sensor board)
- 6 Front micro-switch at horizontal jack connects to no.5/kit 15 (sensor board)
- 7 Pedal/micro-switch connects to 2 pin socket/main board
- 8 Vertical cylinder is manufactured by SMC
- 9 Horizontal cylinder is manufactured by SMC
- 10 Transformer : 20 AC & 220AC : 7.5v AC
- 11 Main board including outgoing & incoming
- 12 Solenoid valve board & connectors
- 13 Vertical cylinder /single bobbin solenoid valve & connectors
- 14 Horizontal cylinder / 2 bobbin solenoid valve & connectors
- 15 Sensor board: from one end, five series flat wire connects by a 5 pin socket TO sensor board 5 pin socket.
From the other end, five series flat wire connects by a 5 pin socket TO sensor board 5 pin socket.

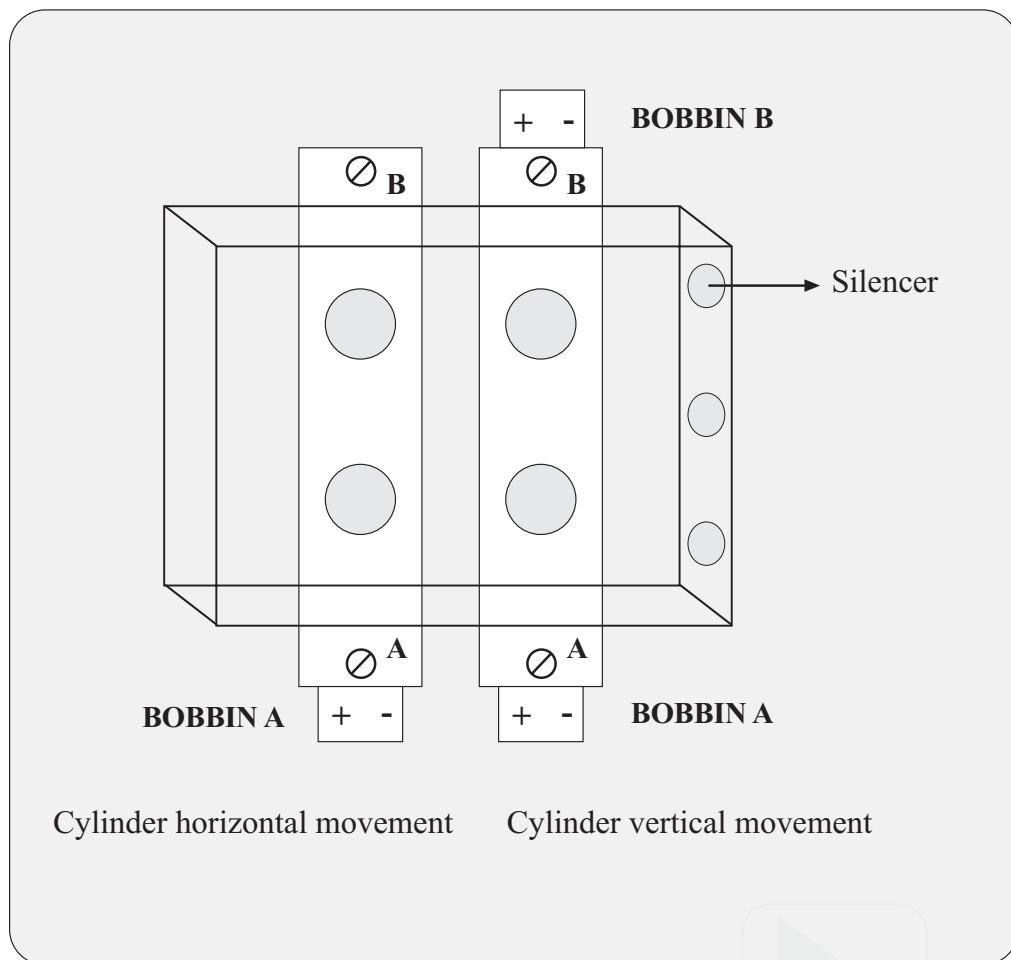


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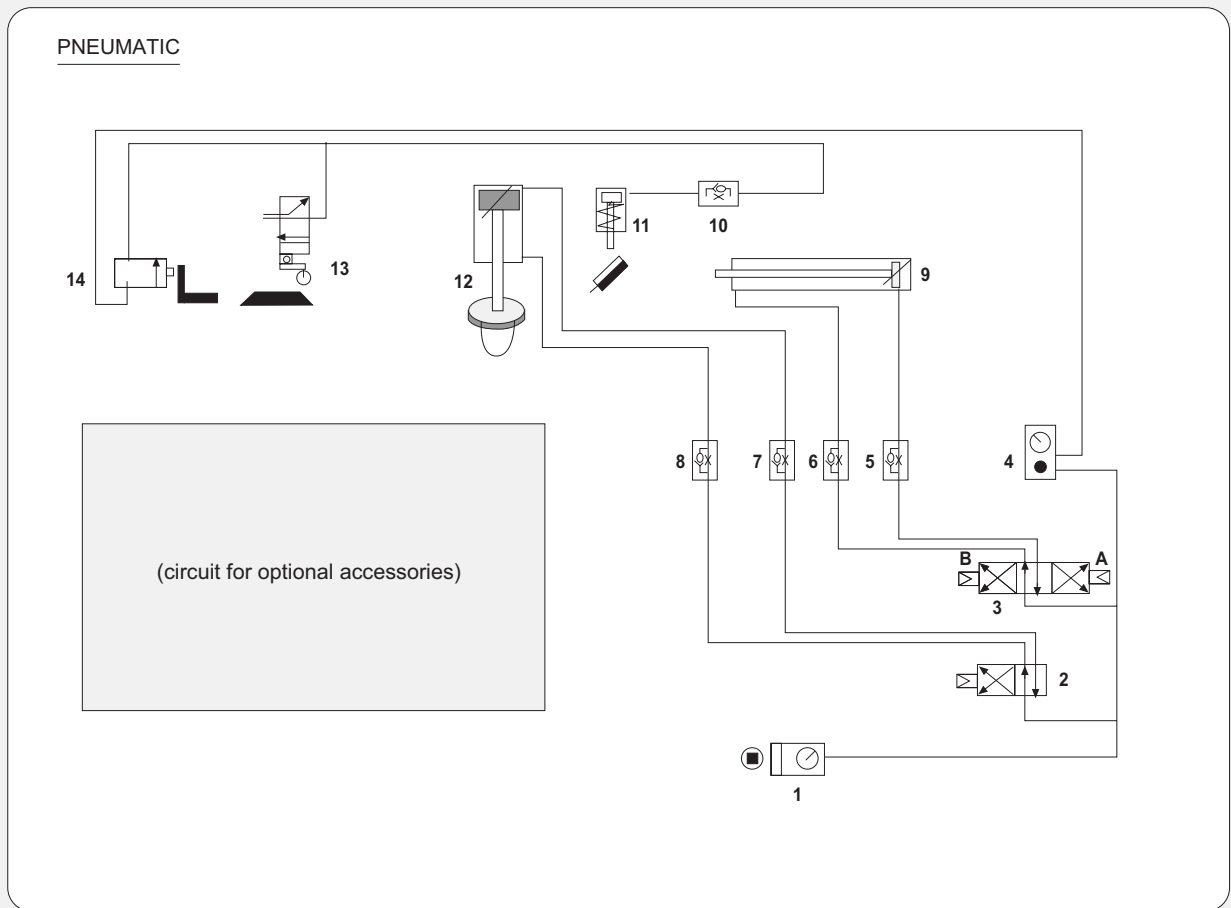
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ASPECT OF VALVE BLOCK/ SINGLE COLOR - 125



10

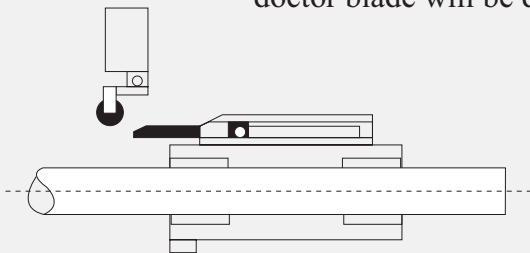
PNEUMATIC CIRCUIT



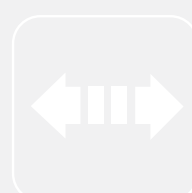
3 Marking length of Doctor Blade

The screw on the scaled plate is used to adjust doctor blade to back movement, i.e. as much as it is onward, doctor blade separates more back from the cliché surface and vice versa.

Marking length must never exceed the plate edge or else, otherwise, doctor blade will be damaged by the plate.



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Pneumatic Circuit

- 1 Air main regulator
- 2 Single bobbin solenoid valve /vertical cylinder is manufactured by SMC Co.
- 3 Two bobbin solenoid valve /horizontal cylinder is manufactured by SMC Co.
- 4 Air regulator for open ink cup system
- 5 Air flow control valve to adjust rear moving/ horizontal cylinder
- 6 Air flow control valve to adjust front moving/horizontal cylinder
- 7 Air flow control valve to adjust up moving /vertical cylinder
- 8 Air flow control valve to adjust down moving / vertical cylinder
- 9 Horizontal cylinder is manufactured by SMC Co.
- 10 Air flow control valve to adjust speed /blade cylinder/open ink cup system
- 11 Open ink cup system/blade cylinder is manufactured by SMC Co.
- 12 Vertical moving cylinder is manufactured by SMC Co.
- 13 Air micro-switch with roller for open ink cup system installed at the back of the horizontal jack .
- 14 Air micro-switch for open ink cup system installed at front of the horizontal jack .

Note: Items nos. : 4,10,11 and 14 are not installed for printers with close ink cup system.



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HOW TO ADJUSTMENT YOUR PRINTER

1

PAD STROKE

Pad stroke is adjustable while printing or inking. You can change it by moving the handle up or down.

2

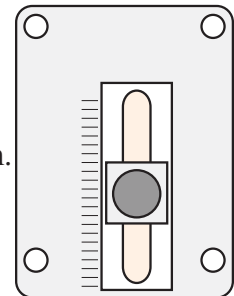
SPEED

You can adjust speed by 4 valves.

For slow speed / turn right

For fast speed / turn left

Printers equipped with an open ink cup system, besides above valves, have also one blade regulator and a gauge which will adjust the blade pressure between 1.5-2 bar while printing. 1.5 bar pressure is for nylon cliché.



Open System



Close System



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EASY INSTALLATION (FROM INK TRAY TO INK CUP)

First step: take the tray and doctor blade set

Second step: fasten the ink cup to printer by 2 bolts firmly

Third step: fix the single color tray on printer

Forth step: place 4 ink cups on the cliché plate

STEP 1



STEP 2



STEP 3

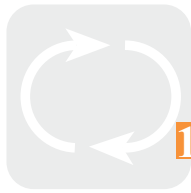


STEP 4



Advantages of close ink cup:

- No odour of thinner
- Fixing viscosity
- Save ink for the next printing



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SPECIFICATION (INK CUP) / CMIC SYSTEM

Since ink is completely sealed inside the cup:
Ink cup is thoroughly clean
Long life cliché due to the cup light pressure
Quite ideal for automatic system and non-stop printing
More than 500000/cycle printability
Ink saving up to 80%
Operator time saving up to 1 hour /day

Features:

Cliché width	Cliché Length	Print diameter	Cup diameter
100 mm	250 mm	85 mm	90 mm

