

**graphic field**

**¾ automatic screen printing machine**

## **VERTICAL 990 L and L4**



### **Description**

The screen printing machine model **VERTICAL 990 L** and **L4** has been designed and built to print rigid and flexible sheets.

### **Working**

The user loads the material on the printing table against three automatic rollaway stops, then the sheet is hold back from the vacuum system and taken under the printing head in order to be printed. At the end of this stage, in the mean the material is hold from the grippers system, the printing table goes out in order the sheet can be fallen upon the conveyor belt that it is under the printing table. Now the conveyor belt moves the material towards a dryer (not included) after the screen printing machine.

### **Automatic system for ink's salvage New**

Usually, when the ink comes out from the frame's inkpot, it is necessary to insert it again in the inkpot by using a spatula to avoid wasting a big quantity of ink.

The automatic system for ink's salvage has been designed and built to solve this problem.

In fact, you have just to set up on the control panel's counter the number of the printing cycles and, when the system reaches this value, it automatically goes into action and salvages the ink gone out from the frame's inkpot.

<b>Technical data</b>	<b>51 x 71</b>	<b>71 x 101</b>	<b>81 x 121</b>	<b>101 x 141</b>
<i>Printable materials:</i>	rigid and flexible sheets as paper, card board, PVC, polyester, polycarbonate, etc. (if they are automatically unloaded) plastic, Plexiglas, metal, wood, glass, etc. (if they are manually unloaded)			
<i>Max printing size<sup>1</sup>:</i>	510 x 710 mm	710 x 1010 mm	810 x 1210 mm	1010 x 1410 mm
<i>Max material size:</i>	560 x 760 mm	760 x 1060 mm	860 x 1260 mm	1060 x 1460 mm
<i>Min material thickness:</i>	paper from 80 g/m <sup>2</sup>			
<i>Max material thickness:</i>	7 mm (if they are automatically unloaded) 25 mm (if they are manually unloaded)			
<i>Gripper margin:</i>	7 mm			
<i>Max cycles per hour<sup>2</sup>:</i>	500	400	350	300
<i>Electrical supply<sup>3</sup>:</i>	400 V 3-phase + neutral, 50 Hz			
<i>Installed power:</i>	3.5 kW	4 kW	4.5 kW	5 kW
<i>Working pressure<sup>4</sup>:</i>	6÷7 bar			
<i>Overall dimensions:</i>	2140 mm x 2040 mm x 1480 mm	2350 mm x 2350 mm x 1480 mm	2450 mm x 2550 mm x 1480 mm	2650 mm x 2750 mm x 1480 mm
<i>Printing table height:</i>	1100 mm			
<i>Usable frames:</i>	wooden and metallic frames			
<i>Frames thickness range:</i>	up to 40 mm			
<i>Usable inks:</i>	traditional, ceramic and UV screen printing inks			

[1] Any other printing size available on request.

[2] Given values without considering the material's loading time.

[3] Any other three-phase electrical supply available on request.

[4] The compressor is not included.

In order to improve the quality of the product, the Mismatic Company is allowed to effect modifications in the manufacturing without any obligation to notify the same to the Customer.

### Standard features

- ❖ **Material's loading:** manual
- ❖ **Material's setting on the printing table:** against 3 automatic rollaway stops **New**
- ❖ **Material's unloading:** automatic
- ❖ **Printing head's opening:** available both in the book (L) and 4 columns (L4) opening version
- ❖ **Printing head's height from printing table during frame's cleaning operation:** 450 mm
- ❖ **[ ] frame holder:** adjustable; possibility to adapt different sized frames
- ❖ **Frame's insertion/extraction:** machine's right side
- ❖ **Frame's block/unblock:** automatic **New**
- ❖ **Squeegee and scraper's independent speeds**
- ❖ **Squeegee and scraper's speeds:** adjustable by control panel
- ❖ **Squeegee and scraper's pressures:** adjustable
- ❖ **Squeegee and scraper's slopes:** adjustable
- ❖ **Screen printing length:** adjustable by micro switches
- ❖ **Automatic system for ink's salvage** **New**
- ❖ **Off contact distance:** automatic synchroprint adjustable from 0 mm to 20÷30 mm
- ❖ **Drilled INOX steel printing table**
- ❖ **Vacuum printing table**
- ❖ **Sliding printing table**
- ❖ **Frame's micrometric adjustment:** by X-Y axes
- ❖ **Block/unblock of the frame's micrometric adjustment:** automatic **New**
- ❖ **Equipped with Kevlar<sup>®</sup> reinforced fibreglass conveyor belt resistant to high temperature**  
(max temperature of 250°C)
- ❖ **Conveyor belt's working:** continuous and stop flow
- ❖ **Conveyor belt's speed:** adjustable by control panel
- ❖ **Remote control panel**
- ❖ **Three working cycles:** manual, single and automatic with timer

### The machine will be equipped with

- #1 squeegee
- #1 scraper
- #1 pedal to start the printing cycle

### The machine can be equipped with

- **an automatic feeder**
- **a UV hood:** the hood is placed over the external conveyor belt; thanks to the UV hood the machine becomes a compact and automatic equipment for the materials' printing and drying



↻ automatic feeder

UV hood ↻

