

paper field automatic screen printing machine with 4 rotating grippers

PERFETTA



Description

The screen printing machine model **PERFETTA** has been designed and built to print rigid and flexible sheets.

The machine is modular and it can be repeated and inserted in a screen printing line; it means that it is **suitable for multi-colour prints**.

The grippers system serves the purpose to hold and carry the material for all cycle; this system guarantees the highest printing quality.

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 only 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.

Parts of the screen printing machine

1. Pre-register loading table to set in a correct way the material; it is equipped with belts, puller and optical sensors.
2. Printing unit equipped with grippers system to transport the material.
3. Half-suction table to unload the material towards the dryer (not included); it is equipped with belts and optical sensors.



Technical data	56 x 76	92 x 126	150 x 180	165 x 215
<i>Printable materials:</i>	rigid and flexible sheets as paper, card board, PVC, polyester, polycarbonate, plastic, metal, etc.			
<i>Max colours:</i>	6			
<i>Max printing size¹:</i>	560 x 760 mm	920 x 1260 mm	1500 x 1800 mm	1650 x 2150 mm
<i>Max material size:</i>	600 x 800 mm	940 x 1320 mm	1560 x 1850 mm	1690 x 2230 mm
<i>Min material thickness:</i>	paper from 80 g/m ²			
<i>Max material thickness:</i>	7 mm			
<i>Max cycles per hour²:</i>	1000	700	400	300
<i>Electrical supply³:</i>	380÷400 V three-phase + neutral, 50÷60 Hz			
<i>Installed power:</i>	6 kW		9 kW	
<i>Working pressure⁴:</i>	6÷7 bar			
<i>Overall dimensions:</i>	(Lu) 3000 mm x (La) 1700 mm x (A) 1700 mm	(Lu) 4100 mm x (La) 2200 mm x (A) 1700 mm	(Lu) 5850 mm x (La) 2750 mm x (A) 1700 mm	(Lu) 6300 mm x (La) 3100 mm x (A) 1700 mm
<i>Usable frames:</i>	metallic frames			
<i>Frames thickness range:</i>	up to 50 mm			
<i>Usable inks:</i>	traditional 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.



example of 4 colours line equipped with hot air dryers and final cooling modules

Standard features

- ❖ **Pre-register of the material on the loading table:** manual, controlled by optical sensors
- ❖ **Moving system for the material:** rotating grippers driven by double chains
- ❖ **Grippers' speed:** adjustable by control panel
- ❖ **The grippers are blocked during the printing by mechanic centring systems**
- ❖ **Printing head's opening:** available both in the book and four-columns version **New**
- ❖ **[] frame holder:** adjustable; possibility to adapt different sized frames
- ❖ **Frame's insertion/extraction:** lateral side
- ❖ **Frame's block/unblock:** automatic **New**
- ❖ **Material's checking system:** if the material is not over the printing table, the machine does not print
- ❖ **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 30 mm
- ❖ **Drilled INOX steel printing table**
- ❖ **Suction/blowing printing table**
- ❖ **Frame holder's micrometric adjustment:** by X-Y axis
- ❖ **Block/unblock of the frame holder's micrometric adjustment:** automatic pneumatic **New**
- ❖ **Control panel on board equipped with colour touch-screen LCD monitor**
- ❖ **Two working cycles:** manual and single



LCD monitor:
automatic mode



LCD monitor:
manual mode

Optional features

- ❖ **Antistatic system**
- ❖ **Squeegee and scraper's pressures:** adjustable by control panel; you have only to key in the value of the pressure without touching any knob **New**
- ❖ **Screen printing length:** adjustable by control panel; you have only to key in the value of the length without adjusting any micro-switch or photocell **New**
- ❖ **Frame holder's micrometric adjustment:** X-Y axis adjustable by control panel; you have only to key in the value of the X or Y axis without touching any knob **Novità**



LCD monitor:
system to adjust the printing pressures



LCD monitor:
system to adjust the frame holder

The machine will be equipped with

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

The machine can be equipped with



➔ automatic feeder



➔ hot air dryer and final cooling module



➔ UV dryer model MINI UV DRYER



➔ automatic stacker