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graphic field

semiautomatic screen printing machine

ECO MATIC JUMBO



Description

The screen printing machine model **ECO MATIC JUMBO** has been designed and built to print **paper, cardboard and plastic sheets, wooden panels, metal and glass sheets.**

ECO MATIC JUMBO is the ultimate solution for all those who need to print short and medium runs in large size, and look for a simple and especially low-cost machine!

Innovative printing table (patented)

The printing table has been realised to avoid scratching the material during its setting.

The printing table, in fact, is equipped with a powerful **air-cushion** that floats the material during the positioning and centring phase against the automatic rollaway stops. Once the positioning has been completed, the air blow stops and the material lies gently on the printing table.

Now, a powerful **vacuum system** goes into action and fixes strongly the material over the printing table. The vacuum system holds the material until the end of the printing cycle.

Automatic ink recovery system

Screen printing machines have a flaw: after some prints, the ink slips at the bottom of the screen and the user is forced to bring it back with a spatula. Thanks to the automatic ink recovery system, the user no longer must do this operation.

During printing, the squeegee and scraper move between two limit switches. When the system is activated, the squeegee and scraper make a longer stroke in order to get the ink that has slipped at the bottom of the screen and bring it back for subsequent prints.

The user can choose whether to activate the system after each print, after a certain number of prints or to deactivate it (this in case the length of the screen does not allow the use of the system).

Full cover printing? No problem!

The machine is equipped with the Synchroprint system: the screen gradually lifts from the printing table as the squeegee moves forward.

This system is excellent for most jobs, but it is not enough when printing full cover jobs, that is, when you must print the whole surface of the material.

For optimal results when printing full cover jobs, the printing head must not open immediately after printing, but wait for a moment, so that the screen fabric can detach completely from the material just printed.

From the machine control panel, it is possible to set the required waiting time before the printing head opens. In this way, printing full cover jobs is no longer a problem, but it is a piece of cake!

One router ... endless possibilities!



ECO MATIC JUMBO is equipped as standard with a latest generation **Ethernet / Wi-Fi router**.

Thanks to this device, the possibilities of the machine are greatly expanded.

Remote service

In the event of an electronic fault, Mismatic engineers can connect to the machinery directly from the offices in Milan (Italy) to check for any anomalies and, if needed, make the necessary changes to the software of the machine.

The machine can also be controlled from tablets and smartphones

Thanks to a **VNC server**, **ECO MATIC JUMBO** can also be controlled remotely from tablets and smartphones (iOS and Android). This technology is very convenient in some situations: for example, in cases where the machine is large and its monitor is distant from the area in which we are operating, or, to remotely monitor the production of the machinery.

Free software updates

Each software update of the machine is released free of charge to the customer.

Safety

All the data flow (in and out) of the router passes through a **secure VPN network with ISO 27001 Security Certification**.



Technical data	200 x 250	150 x 300
<i>Printable materials:</i>	flexible materials as paper, cardboard and plastic sheets and rigid materials as wooden panels, metal and glass sheets	
<i>Max printing size¹:</i>	2000 mm x 2500 mm	1500 mm x 3000 mm
<i>Min material thickness:</i>	paper from 100 g/m ²	
<i>Max material thickness²:</i>	30 mm	
<i>Max cycles per hour³:</i>	150	120
<i>Electrical supply⁴:</i>	400 V three-phase + neutral, 50 Hz	
<i>Installed power:</i>	5.5 kW	
<i>Working pressure⁵:</i>	6÷7 bar	
<i>Overall dimensions⁶:</i>	(L) 3800 mm x (W) 3000 mm x (H) 1600 mm	(L) 4300 mm x (W) 2550 mm x (H) 1600 mm
<i>Printing table height:</i>	adjustable 950÷1100 mm	
<i>Net weight:</i>	2000 kg	1500 kg
<i>Usable screens:</i>	metallic frames	
<i>Screens 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] Higher thickness available on request.

[3] Given values without considering the material loading and unloading time.

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

[5] The compressor is not included.

[6] It is requested an oversize load for the version 200x250.

To improve the quality of the product, the Mismatic Company can do modifications in the manufacturing without any obligation to notify the same to the Customer.

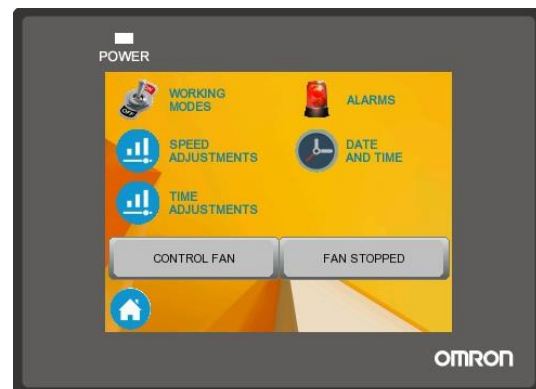


Standard features

- **Material loading and unloading:** manual
- **Material positioning on the printing table:** against automatic rollaway stops with cylindrical shape and made of Nylon
- **Printing head opening:** clamshell, with pneumatic system
- **Printing head height from printing table during screen cleaning operation:** 600 mm
- **[] screen holder:** adjustable; possibility to adapt different sized screens
- **Screen insertion/extraction:** front or side of the machine
- **Screen lock/unlock:** automatic
- **Squeegee and scraper independent speeds**
- **Squeegee and scraper speed:** adjustable by control panel
- **Squeegee and scraper pressure:** adjustable
- **Squeegee and scraper slope:** adjustable
- **Printing stroke:** adjustable by limit switches
- **Printing repeat system:** from 1 to 10 repeats. This feature is very useful when we use low covering inks, but we need a high coverage
- **Automatic ink recovery system**
- **Off-contact distance:** automatic Synchroprint adjustable up to 30 mm
- **Innovative printing table (patented):** it is very useful to avoid scratching the material during its positioning on the printing table
- **Drilled INOX steel printing table**
- **Printing table equipped with air-cushion:** you can adjust the power of the air flux depending on the weight of the material
- **Printing table equipped with super powerful vacuum system**
- **Printing table micrometric adjustment:** by X-Y axes
- **Control panel on board equipped with colour touch-screen LCD monitor:** all monitor buttons are in your language!
- **Four working modes:** manual, step-by-step, single and automatic with timer
- **Ethernet / Wi-Fi router:** remote service, the machine can also be controlled from tablets and smartphones, free software updates



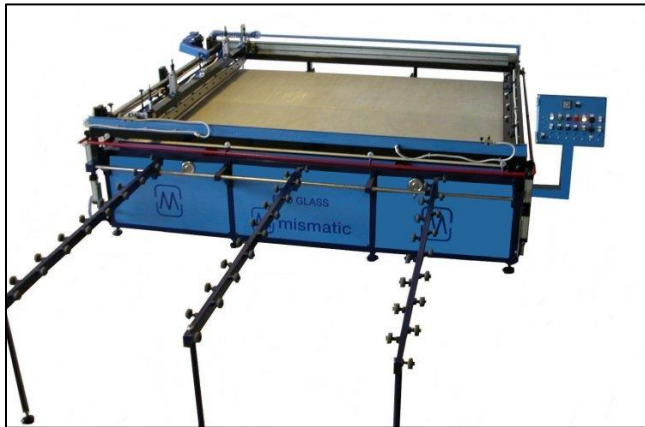
LCD monitor



LCD monitor

Optional features

- **Rack** to make easier the glass sheets or wooden panels loading and unloading
- **System** to print the whole upper face of the glass sheets or wooden panels till their edge
- **Printing stroke:** adjustable by control panel; you have only to key in the value of the stroke without adjusting any limit switches
- **Ethernet / Wi-Fi / 4G router:** the device has a SIM card (not included) slot



☞ detail of the rack

The machine is equipped with

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

The machine can be equipped with

- the pneumatic tilting table
- the IR and hot air dryer model **COMBI**



☞ pneumatic tilting table

IR and hot air dryer ☞
model **COMBI**

