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graphic field

semiautomatic screen printing machine

LORENZO



From Sophia to Lorenzo

Many of our customers asked us for a machine like Sophia but which was equipped with a vacuum printing table. From this request **LORENZO** was born, a **semiautomatic screen printing machine for sheets** (paper, cardboard, etc.) that gives a nod at printers of **transfers for fabric**.

Moving printing table

Unlike traditional semiautomatic screen printing machines, where the table is covered by the printing unit and the space for loading and unloading the sheet is reduced, **LORENZO**'s mobile printing table makes loading and unloading the material quick and easy.



Two machines in one!

LORENZO is an evolution of Sophia and shares the structure, mechanics, and electronics with the latter except for the printing table, which is equipped with vacuum system.

However, if there is a need to also print clothing, **it is possible to install a printing table (without vacuum) for fabric in a few minutes.**



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).



LCD monitor



LCD monitor

One router ... endless possibilities! (option)



LORENZO can be equipped as option 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**, **LORENZO** can also be controlled remotely from tablets and smartphones (iOS and Android). This technology is very convenient in some situations: for example, when inserting or removing the screen, 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**.

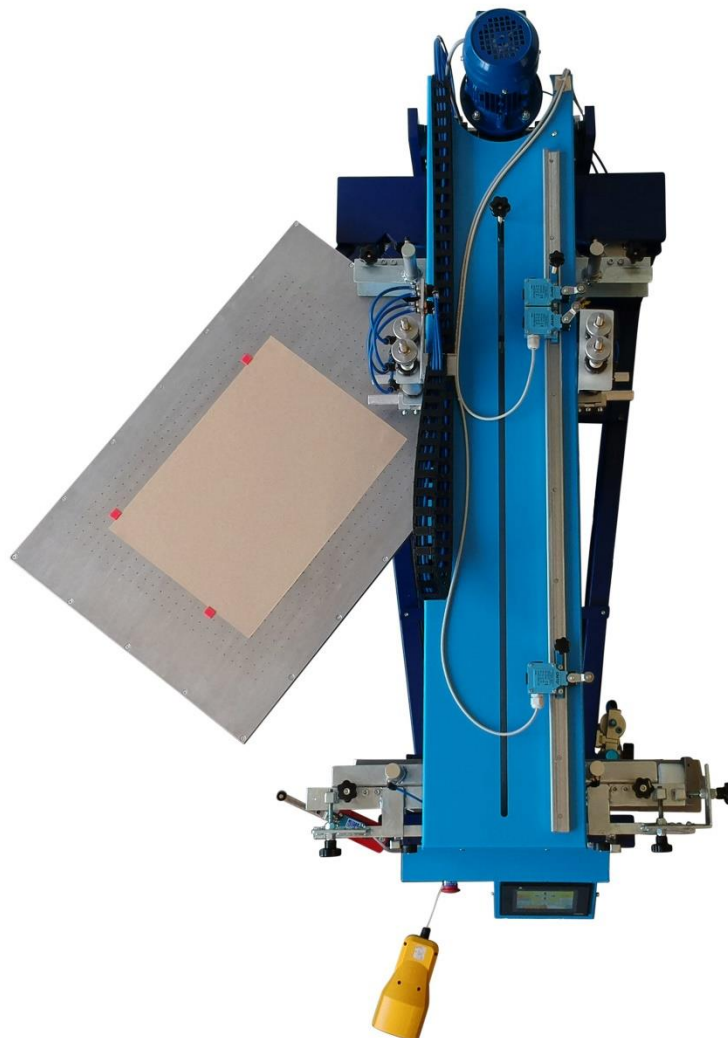


Technical data	
<i>Printable materials:</i>	flexible materials as paper, cardboard, and plastic sheets
<i>Max printing size:</i>	500 mm x 700 mm
<i>Max cycles/hour¹:</i>	500
<i>Electrical supply:</i>	220 V single-phase, 50 Hz
<i>Installed power:</i>	0.75 kW
<i>Working pressure²:</i>	6÷7 bar
<i>Overall dimensions:</i>	(L) 1500 mm x (W) 700 mm x (H) 1600 mm
<i>Net weight:</i>	250 kg
<i>Usable screens:</i>	wooden or metallic frames
<i>Screen thickness range:</i>	up to 30 mm
<i>Usable inks:</i>	traditional and UV screen printing inks

[1] Given values without considering the material loading/unloading time.

[2] The compressor is not included.

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

- **Printing head opening:** clamshell, pneumatic system
- **Double-stroke lift system:** the short stroke (50 mm) is used during printing, making the machine very fast; the long stroke (350 mm), on the other hand, is used for cleaning the screen, making this operation very easy for the user
- **[] screen-holder:** adjustable; possibility to adapt different sized screens
- **Screen insertion/extraction:** printing unit lateral side
- **Screen lock/unlock:** automatic
- **Screen-holder micrometric adjustment:** by X-Y axes
- **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
- **“Low back” printing system:** a second squeegee prints during the comeback. The advantage is clear: two prints are made in only one cycle. Moreover, this system is essential when you want to make thick prints.
- **Automatic ink recovery system**
- **Drilled INOX steel printing table**
- **Printing table equipped with vacuum system**
- **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

Optional features

- **Printing tables for clothing (fabric)**
- **Ethernet / Wi-Fi router**
- **Ethernet / Wi-Fi / 4G router:** the device has a SIM card (not included) slot

The machine is equipped with

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