

3D objects

3-in-1 semiautomatic screen printing machine

ROBOTRE



Description

The screen printing machine model **ROBOTRE** has been designed and built to print **flat, cylindrical and conical objects** typical of the promotional field. This means that it is an extremely versatile machine.

One router ... endless possibilities! (option)



ROBOTRE 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**, **ROBOTRE** 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	
<i>Printable objects:</i>	flat, cylindrical and conical
<i>Max cycles per hour¹:</i>	700
<i>Electrical supply²:</i>	400 V three-phase + neutral, 50 Hz
<i>Installed power:</i>	2.5 kW
<i>Working pressure³:</i>	6÷7 bar
<i>Overall dimensions:</i>	(L) 2000 mm x (W) 900 mm x (H) 1500 mm
<i>Net weight:</i>	400 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 object loading and unloading time.

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

[3] The compressor is not included.

Features of the printable objects	
FLAT	
<i>Max printing size⁴:</i>	650 mm x 250 mm
<i>Max object thickness with printing table installed⁵:</i>	100 mm
<i>Max object thickness without printing table installed:</i>	400 mm
CYLINDRICAL	
<i>Max object length:</i>	240 mm
<i>Max object diameter:</i>	200 mm
<i>Min object diameter:</i>	30 mm
<i>Max printing stroke:</i>	629 mm
CONICAL	
<i>Max object length:</i>	240 mm
<i>Max object diameter:</i>	200 mm
<i>Min object diameter:</i>	30 mm
<i>Max printing stroke:</i>	629 mm
<i>Max conical angle:</i>	15°

[4] Any other printing size available on request.

[5] Higher thickness available on request.

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

- **Object loading and unloading:** manual
- **Object lock/unlock:** automatic (pneumatic)
- **Printing head opening:** vertical
- **Printing head height from printing table during screen cleaning operation:** 100 mm
- **[] screen holder:** adjustable; possibility to adapt different sized screens
- **Screen insertion/extraction:** machine front side
- **Screen lock/unlock:** automatic
- **Independent squeegee and scraper speeds**
- **Squeegee and scraper speed:** adjustable by control panel
- **Squeegee and scraper pressure:** adjustable
- **Squeegee and scraper slope:** adjustable
- **Screen speed:** adjustable by control panel
- **Screen micrometric adjustment:** by X-Y axes
- **Printing stroke:** adjustable by limit switches
- **Telescopic printing table:** depending on the object thickness
- **Aluminium printing table:** 10 mm thickness
- **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

- **Clamping system:** for each cylindrical/conical object it is necessary to manufacture a clamping system that holds it during printing
- **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 by foot
- #1 clamping system for a cylindrical or conical object