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textile field | **automatic screen printing machine**

SOPHIA DS

Sophia has grown up!

If you want a light ink printed on a dark garment to be very bright, you must necessarily print it a first time, dry it for a few seconds with a flash hood and reprint it a second time.
Sophia can't do that because her printing table can only move in one direction. **SOPHIA DS**, on the other hand, can do it. The printing table, in fact, can move both to the left (loading and unloading area of the garment) and to the right (drying area).
SOPHIA DS is the evolution of Sophia and is particularly suitable for printing workwear and promotional items.

Make her do what you want

The printing possibilities of **SOPHIA DS** are truly many.

PRINT

a) Load the garment.
b) The table moves into the printing area and the garment is printed.
c) The table moves again so that the garment can be unloaded.

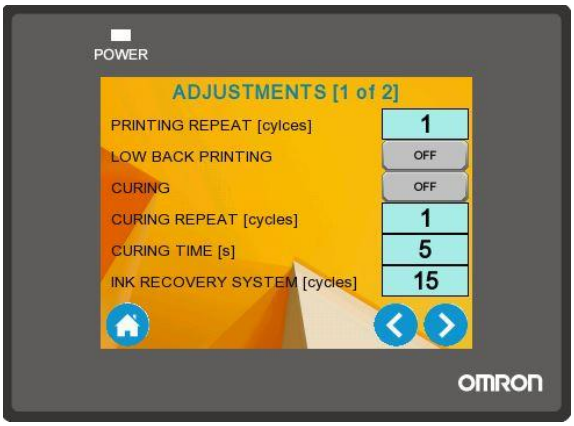
PRINT + DRY

a) Load the garment.
b) The table moves into the printing area and the garment is printed.
c) The table moves to the drying area and the ink is dried for a few seconds.
d) The table moves back to the printing area and the garment is printed for the second time.
e) The table moves again so that the garment can be unloaded.

PRINT + DRY… AS OFTEN AS YOU WANT

Are you looking for even greater coverage?
The “print and dry” cycle can be repeated for several times, the ones you need.

LCD monitor



LCD monitor

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).

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One router ... endless possibilities! (option)

SOPHIA DS 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**, **SOPHIA DS** 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**.

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Technical data	
Printable materials:	pre-cut and made fabrics as t-shirts, sweatshirts, shirts, slacks, socks, handkerchiefs, bandanas, pillows, bags and textile promotional items, etc.
Max printing size:	500 mm x 700 mm
Max cycles/hour[1]:	600
Electrical supply:	220 V single-phase, 50 Hz
Installed power:	0.5 kW
Working pressure[2]:	6÷7 bar
Overall dimensions:	(L) 2000 mm x (W) 950 mm x (H) 1600 mm
Net weight:	250 kg
Usable screens:	wooden or metallic frames
Screen thickness range:	up to 30 mm
Usable inks:	traditional 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.

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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
- **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:** the scraper 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**
- **"Print and dry" system:** from 1 to 10 repeats
- **Timer to set the drying time of the flash hood** (not included)
- **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

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

The machine is equipped with

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

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