

graphic field

cylinder automatic screen printing machine

MATIC SCREEN & ROLL



Description

The screen printing machine model **MATIC SCREEN & ROLL** has been designed and built to print **semi-rigid and flexible sheets**.

Its **high printing speed** depends on the synchronised movement of the screen with the vacuum cylinder.

Thanks to its registering system the machine can realise **high quality prints**. The registering system is formed of the rollaway stops, the cylinder's stops, the puller and the three optical sensors.

Two-speed vacuum cylinder New

The cylinder's rotation is adjustable by two independent potentiometers: the first one can adjust the speed of the sheets going towards the cylinder; by the second one it is possible to adjust the sheets' printing speed.

It means that, for example, a sheet can arrive at the cylinder very slowly but it can be printed very quickly. This possibility is very useful every time you have to print "problematic" materials.

The **MATIC SCREEN & ROLL** machine is **the only one worldwide equipped with a two-speed vacuum cylinder**.

Technical data	36 x 51	53 x 76	72 x 106	80 x 120
<i>Printable materials:</i>	semi-rigid and flexible sheets as paper, cardboard, PVC, polyester, polycarbonate, etc.			
<i>Max printing size:</i>	360 x 510 mm	530 x 760 mm	720 x 1060 mm	800 x 1200 mm
<i>Max sheet size:</i>	380 x 530 mm	550 x 780 mm	730 x 1080 mm	820 x 1220 mm
<i>Min material thickness:</i>	paper from 80 g/m ²			
<i>Max material thickness:</i>	3 mm			
<i>Gripper margin:</i>	8 mm (for materials up to 1 mm) 10 mm (for materials from 1 mm up to 3 mm)			
<i>Max cycles per hour¹:</i>	4000	3600	3200	2800
<i>Electrical supply²:</i>	380÷400 V 3-phase + neutral, 50÷60 Hz			
<i>Installed power:</i>	3 kW	3 kW	3.7 kW	5.2 kW
<i>Protection range:</i>	IP44			
<i>Working pressure³:</i>	6÷7 bar			
<i>Usable frames:</i>	metallic frames			
<i>Frames size:</i>	750 x 760 mm	950 x 1010 mm	1150 x 1315 mm	1330 x 1540 mm
<i>Frames thickness range:</i>	up to 40 mm			
<i>Usable inks:</i>	traditional, ceramic and UV screen printing inks			

Technical data	103 x 143	120 x 183	141 x 183	160 x 220
<i>Printable materials:</i>	semi-rigid and flexible sheets as paper, cardboard, PVC, polyester, polycarbonate, etc.			
<i>Max printing size:</i>	1030 x 1430 mm	1200 x 1830 mm	1410 x 1830 mm	1600 x 2200 mm
<i>Max sheet size:</i>	1050 x 1450 mm	1220 x 1850 mm	1430 x 1850 mm	1620 x 2220 mm
<i>Min material thickness:</i>	paper from 80 g/m ²			
<i>Max material thickness:</i>	3 mm			
<i>Gripper margin:</i>	8 mm (for materials up to 1 mm) 10 mm (for materials from 1 mm up to 3 mm)			
<i>Max cycles per hour¹:</i>	2400	2200	2000	1800
<i>Electrical supply²:</i>	380÷400 V 3-phase + neutral, 50÷60 Hz			
<i>Installed power:</i>	8 kW	9.5 kW	9.5 kW	9.5 kW
<i>Protection range:</i>	IP44			
<i>Working pressure³:</i>	6÷7 bar			
<i>Usable frames:</i>	metallic frames			
<i>Frames size:</i>	1640 x 1880 mm	1840 x 2270 mm	1970 x 2270 mm	2160 x 2540 mm
<i>Frames thickness range:</i>	up to 40 mm			
<i>Usable inks:</i>	traditional, ceramic and UV screen printing inks			

[1] Given values without considering the sheets' loading/unloading time on/from the automatic feeder/stacker. Moreover the maximum output depends on the used material and ink.

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

[3] 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.

Standard features for the automatic feeder

- ❖ Feeding table made of sea wood
- ❖ Capacity of the feeding table: 500 mm pile
- ❖ Feeding table's lifting/downward: automatic
- ❖ It can be used as a one-sheet or stream feeder (only for paper) **New**
- ❖ Feeding head equipped with longitudinal and transversal adjustments
- ❖ Sheets' separation done by vacuum cups and air blasts system
- ❖ Two suction cups systems:
 - ◆ one for semi-rigid materials
 - ◆ one for flexible materials
- ❖ Double sheet's sensor **New**
- ❖ Mechanic synchronisation between the feeding head and the screen printing machine
- ❖ Automatic feeding towards the screen printing machine's raising table
- ❖ Devices for a constant and precise sheets' feed
- ❖ Control panel on board



Standard features for the screen printing machine

- ❖ **Raising table made of sea wood and aluminium**
- ❖ **Raising table equipped with drive belts**
- ❖ **Registering system formed of the rollaway stops, the cylinder's stops, the puller and the three optical sensors**
- ❖ **High precision printing guaranteed by:**
 - ◆ synchronisation of the rotating cylinder with the sliding screen
 - ◆ the squeegee's tilt angle is fixed at 15°
- ❖ **Frame's insertion/extraction: upper side**
- ❖ **Frame's block/unblock: automatic **New****
- ❖ **Frame-holder's book opening during screen's cleaning operations: 180 mm**
- ❖ **Printing speed: adjustable by control panel**
- ❖ **Squeegee and scraper's pressures: adjustable**
- ❖ **Scraper's levelling system: the user cannot break the screen even if he gives too much pressure at the scraper **New****
- ❖ **Off-contact distance: automatic Synchroprint adjustable from 0 mm to 3 mm**
- ❖ **Squeegee/scraper's opening during screen's cleaning operations: 180 mm**
- ❖ **Vacuum cylinder made by rectified INOX steel**
- ❖ **Cylinder's covering thickness: 3 mm**
- ❖ **Cylinder equipped with air blast system: it is very useful when you print lightweight sheets **New****
- ❖ **Cylinder's air capacity: adjustable**
- ❖ **Cylinder's rotation speed: adjustable by control panel**
- ❖ **Two-speed vacuum cylinder **New****
- ❖ **Cylinder's self-adjusting grippers depending on sheet thickness**
- ❖ **"Ever-clean cylinder" system: the machine print only if the sheet is under the screen, it means you cannot make dirt the cylinder of ink **New****
- ❖ **Semi-vacuum table to carry the sheet toward the dryer (the dryer is not included)**
- ❖ **Semi-vacuum table equipped with drive belts**
- ❖ **Control panel on board**
- ❖ **Remote control panel**
- ❖ **Three working cycles: manual, single and automatic**

Optional features

- ❖ **Anti-static system**

The machine will be equipped with

- #1 squeegee
- #1 scraper

The machine can be equipped with

- the 2 lamps UV dryer
- the dryer model WICKET
- the automatic stacker



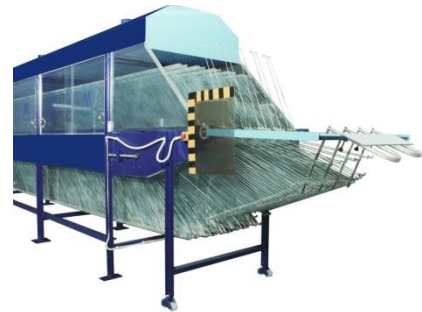
☞ 2 lamps UV dryer



automatic stacker ☞



☞ dryer model **WICKET**



dryer model **WICKET** ☞



*automatic feeder and
cylinder automatic screen printing machine model **MATIC SCREEN & ROLL** +
2 lamps UV dryer +
automatic stacker*