MASCOPRINT
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SCREEN & PAD PRINTING EQUIPMENT AND SUPPLIES

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TG 80 N2

SMALL COMPONENT PAD PRINTING MACHINE

Tampograf of Italy have been established since 1968 and are now firmly regarded as one of Europe's leading designers, innovators and manufacturers of pad printing machinery. The ethos of the company is to build machines that are inexpensive to purchase, simple to operate, reliable to use and constantly at the forefront of pad printing technology.

The **TG80 N2** model is a two colour fully pneumatic, semi-automatic machine, ideally suited to printing text and logos on an area not exceeding 85mm in diameter, regardless of whether the surface is flat, curved, raised or recessed.

A simple tooling fixture must be secured to the machines pneumatic shuttle table which transports the printed component from the first print position to the second. The shuttle table itself is mounted on a standard adjustable print table with full height and x,y,z adjustment for print alignment.

All Tampograf pad printing machines utilise a state of the art closed cup system with a patented reversible ceramic doctoring ring. The main advantage of the closed cup system is that the ink and thinners mixture is contained within the upturned cup, maintaining the ink at the correct printing viscosity for longer periods with minimum solvent evaporation and odour.

The cliché plates used can be either high quality photopolymer or thin band steel. Cliché plates are secured on the machine using punched location holes and lockable pins. The complete cup and cliché plate can be introduced or removed from the machine in a matter of minutes enabling a quick change over from one job to another.

Silicon pads are widely available in various shapes and shore hardness to suit the size of the artwork to be reproduced and equally importantly the design and contours of the component to be printed.

The silicon printing pads are fitted to the machine via quick release pad holders, connected to independent air regulated pneumatic cylinders. These cylinders control the pressure of the pads as they collect the image from the cliché plate and reproduce it onto the printed substrate. This method of operation is quite unique as it allows the pad to print below the level of the cliché plate giving more space to load larger components. Pad alignment is all on a potted magnet system and is simply a matter of twisting and sliding the pad into position.

Features

- Fully pneumatic operation.
- Single or automatic cycle.
- Advanced Close Cup system with patented reversible ceramic ring.
- Independent setting controls for all machine movements.
- Step by step control for machine set up.
- Quick release fittings for ease of set up and changeover.
- Open aspect to allow larger components to fit under the cliché plate.
- Pin registered cliché plate for accurate alignment.
- X,Y,Z table with height adjustment.
- Independently tested and fully CE certified.

Optional: Automatic scotch tape pad cleaning device.
Bench mounted or fitted on floor standing pedestal with lockable cupboard.

TECHNICAL DATA

Speed: Maximum machine speed approximately 1000 cycles per hour for two colour operation tested in automatic setting.
Ink-cup: Optional Size 90mm, 60mm and 45mm Ø (diameter).
Print area: Absolute maximum print area 85mm Ø (diameter) using 90mm cup.
Cliché plate: Thin band steel or photo-polymer 193mm x 200mm with 2 punched location holes.
Pad fixing: Pad screwed to pad holder with quick release attachment to cylinder. Magnetic X,Y,Z adjustment.
Operation: Single print cycle via push button or foot pedal or switchable to continuous cycle with pad isolation if required.
Pad stroke: Variable pressure downward motion up to a maximum depth of 75mm self adjusting.
Print reach: 100mm pad travel from cliché plate to component.
Pad force: Maximum pressure 800 Newtons.
Air Supply: Requires maintained compressed air supply at 60psi (4kg/cm^2).
Dimensions: Overall machine dimensions 400mm x 700mm x 700mm.

SPA
Screen Printing Association

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