

LOGICA 05

Numerically controlled pad printing centre for multicolour printing

Up to 5 movement axis easily programming

Fully electrical operation

Available in 2 versions different for printing force

CHARACTERISTICS

- All the mechanical movements are motorized via numerical control and lead screw, guarantee high precision and smooth working.
- Manufactured from light alloy and special steel. The simple and robust construction was also conceived to guarantee a long life of working without maintenance.
- The computerized numerical control ensures complete flexibility of operation and simplicity without compromise.
- Setting up adjustments can be carried out via the numeric keyboard with alphanumeric display. Ability to freely position the keyboard, where most comfortable for the user.
- Memory of all different work programs for easy changeover set up.
- Automatic colours registering on x y r axes, for immediate start-up (optional).
- Ability to print under the printing plate, allowing decoration in every position on the large sized objects.
- Ability to print on different surface levels of the same object, adjusting easily the stroke through the keyboard.
- Low power consumption, economical since compressed air is not required. It's exclusive electric operation presents a considerable advantage compared to an equivalent pneumatic machine, a saving of more than 8.000 - 10.000 kw/h in a year can be achieved assuming one working shift per day.
- Eco-friendly. Due to its available hermetic ink system preventing solvent evaporation.
- Changeover time reduced to a few minutes, thanks to the considerations given in the design concept to apply ergonomic principles to the system.
- Ergonomic design to easy access all mechanical parts.
- Accurate movement of the support slide-table with adjustable height.



Models

LOGICA 05

(printing force 2800 N)

Max dia. ink cup

- n. 2 dia. da 160 mm
- n. 3 dia. da 130 mm
- n. 4 dia. 115 mm
- n. 5 dia. 90 mm
- n. 1 oval 350 / 115 mm
- n. 2 oval 225 / 110 mm

or mixed

LOGICA 05 S

(printing force 3800 N)

Max dia. ink cup

- n. 3 dia. 160 mm
- n. 4 dia. 130 mm
- n. 5 dia. 90 mm
- n. 1 oval 350 / 115 mm
- n. 2 ova 225 / 110 mm

or mixed

TECHNICAL DATA

- Operation: **electric with numerical control**
- Vertical stroke: **115 mm**
- Printing force mod. Logica 05: **2800 N**
- Maximum pad height: **115 mm (100 mm con reciprocatore tamponi)**
- Printing force mod. Logica 05 S: **3800 N**
- AC supply: **220/240 V - mono phase - 50/60 Hz**
- Maximum printing speed: **adjustable up to 2100 c/h (*)**
- Average consumption: **about 1000 W**
- Number of colours: **1 - 2 - 3 - 4 - 5**
- Weight with indexer and safety guarding: **about 500 Kg**
- Maximum dia. ink cup: **160 mm**
- Sizes with indexer and safety guarding: **about 1750 x 1350 x 2050 (h) mm**

(*) The above mentioned printing speed is the max achievable and will reduce when the vertical pad stroke is increased or when delay times have been programmed into the cycle. The maximum printing speed also depends on the parts loading device.

STANDARD PACKAGES

To make the choice easier, Tosh proposes a series of standard packages, between the machine and the conveying systems, that suits your specific application.

Among the suggested and more popular, there are:

- **Cross Table** in different dimensions
- Numerically controlled **indexers** with programmable and adjustable pitch and **automatic pad cleaning**
- Fully electric **Oval flat conveyors**
- Electromechanical numerically controlled **rotary tables**
- Fully electric **rectilinear tracked conveyors**
- Fully electric **rectilinear inclined conveyors**
- **Pre-treatment devices** (flame or corona treatment)
- **Drying devices** (air, U.V. and I.R.)
- Modular **pad pre-drying devices**

On the cover a standard package example of:

Logica 05S 5 radial colours with rotary table Mod. TRCNO3 and safety guarding.

OPTIONAL

Cross tables



Recommended for applications where there is a single fixture, they allow rapid alignment on more axis of the part to the print.

Indexers



Single fixture linear transfers for multicolour printing on medium and large products.

Oval flat conveyors



Multifixture linear transfers for multicolour printing on small and medium products or used for additional in-line processes.

Rotary tables



Recommended for multicolour printing or when high production cadences are required. They can also be used for additional in-line processes.

Rectilinear tracked conveyor



Linear transfer with horizontal rotation axes, available in various dimensions. RECOMMENDED in standard configuration, for multi-colours with extra fixtures, for additional functions such as: pre and post treatment, loading and unloading products or when more than one machine is used on line.

Rectilinear inclined conveyor



Linear transfer with inclined working planes is also suitable for use fixtures which, as in the tracked conveyor, run below the printing plane i.e. under the table. Also usable as the oval, flat conveyor, type MEG, but with higher number of fixtures and available in various dimensions. RECOMMENDED for multi-colours printing with additional functions to the printing phase, or for multi-stage loading.

Doctoring refresher devices



Ideal for printing large images that don't fit into ink cup size.

