

Roll to roll printer Model RTP- 10



- **Suitable for MLCC, MLCV mass production applications**
- **Automatically prints A/B pattern**
- **Checks print quality by two CCD automatically**
- **Well suitable for high layer count application**
- **Punches registration holes for precise registration on stacker**

Machine is designed to reel to reel print electrode pattern on to ceramic foil cast on carrier film (mylar). Punches registration holes (if needed) on edges of mylar tape and dry the print.

1. Pattern printing

By high precision screen printer. Tape is hold by vacuum during printing.
Printing area: up to 200 x 200mm
Carrier foil width: up to 250mm
Drying length: 6 meter
Efficiency: print to print 4s whiteout registration holes punching
7s whit registration holes punching
Squeegee speed: adjustable 1- 250 mm/s
Squeegee force: 0-120N
Modes: print/print, print/flood, flood/print
Parameters: all parameters adjustable via control panel
A-B print: programmable
Print quality control: by vision system (2 CCD cameras)
Automatic paste supply

2. Registration holes punching

Punching tool punches four registration holes on the edges of mylar for precise tape registration on Keko stackers. This function can be switched of if CCD does registration on stacker.
Holes diameter: 5mm
Tool material: tungsten carbide
Foil fixing: by vacuum

3. Drying system

Remove solvents from printed electrodes. Bottom heating and air-drying.
Number of drying zones: 5
Drying zone length: 1,2m
Temperature range: ambient to 100degr C
Temperature control: 5 independent for bottom plates controllers, 1 hot air control
Platen heaters: electrical resistance type, insulated and sealed in to the aluminum hard anodized plate
Air supply: filtered room air, counterblow air movement, one exhaust at top of dryer entrance.
Inlet air: adjustable up to 4m3/min
Air inlet filter: 10micron rated, cartridge type
Air volume control: Panel mouthed, under pressure sensor for safety operation
(Air exhaust volume has to be bigger than air inlet)
Exhaust: Exhaust diameter 130mm ha to be connected to customer supplied exhaust system.
Manually controlled exhaust airflow.
Construction: Insulated stainless steel air chamber

4. Dry tape winding

Tape up of dry tape on to spools
Tape winding: core diameter 75mm, maximal outside diameter 350mm, PLC winding torque control, tape tracking control

5. Technical data

Dimensions: (LxWxH) 3780 x 1130 x 1700mm
Weight: 1800kg
Connections:
- electricity: 3x380V/50Hz, 32A (fuse)
- compressed air: 0,6Mpa, 200NI/min
Exhaust: D=130mm , 6m3/min