



Model LP-1, Legend Mask Printer.

A new world is born

The newly developed flat-bed printing system utilizing special Ink-Jet technology has revolutionized the PCB market in terms of cost saving, reduction in pollution and flexibility.

Microna LP-1 Ink-jet Legend Printing Machine provides great savings and up-to-date technology for the printing of legend masks on printed circuit boards (PCB's).

Please have a close look at the advantages of ink-jetting versus traditional silk-screening method.

Expect more

Expect considerable savings in time, personnel, training, number of process steps, production area, maintenance and running costs.

”Think Ink!”

There are very sound reasons to ”Think Ink”.

Instead of the old fashioned way of applying legend masks to your PCB's you should fully exploit the future potential of the Ink-Jet Technology.:

- *No waste of ink, every drop is used!**
- *No waste-water or toxic deposits!**
- *No film-plotting, screening or washing**
- *No need for yellow light room,**
- *Simple operation & maintenance,**
- *No need for trained operators.**

LP-1 FEATURES:

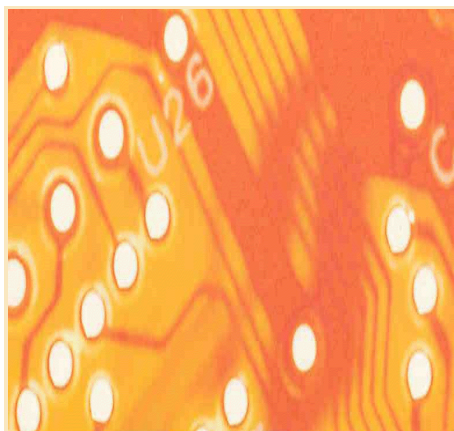
- Gerber Files accepted directly.**
- Industry-standard PC Interface.**
- High speed direct imaging.**
- Long-life printing heads.**
- Automatic Ink supply.**
- Single step process.**
- Flexible clamping system.**

This all boils down to great cost and time savings in addition to gains in

Flexibility

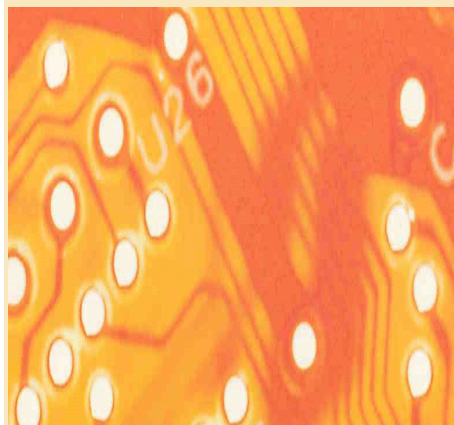
The LP-1 will –in addition to all the other benefits– give you a hitherto unseen flexibility in your production, because it is now possible to add individual numbering, date-marking and quality icons to each individual PCB.

This is a unique, competitive edge for your company.

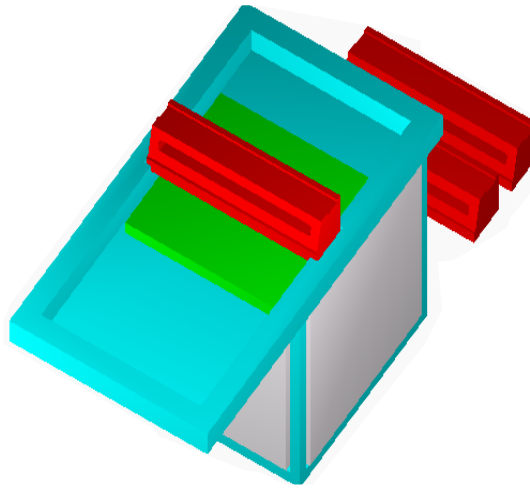


*Microna Ink Jetting Systems ApS,
Bjodstrupvej 28,
DK-8270 Hojbjerg.
TEL: 0045 87370110.
FAX: 004587370210.
mail: sales@mapemachines.dk*

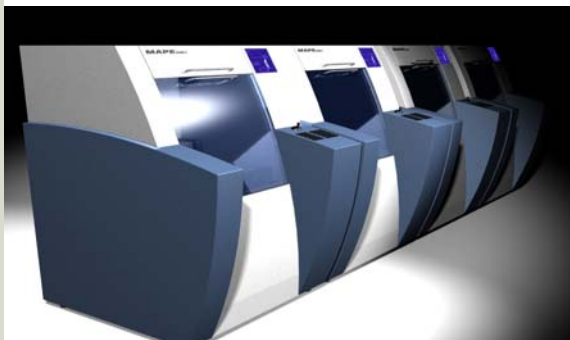
For international distributor list, please feel free to contact us.



Specifications for microna LP-1



LP-1 schematic survey of key components.



International Distributors:

Scandinavia:	Micronix PCB Equipment,
England:	Mape UK Ltd., Leeds.
Germany:	Micronix Leiterplattenmaschinen.
France:	CIF S.A.
Spain:	Wacxo S.A. Luis Ferrer S.A.
Italy:	Artsolution.
U.S.A.:	Ceco Industries Inc.
China:	Mape Shenzhen China Ltd. Leeport Ltd
Taiwan:	Rungo Ltd,
Hong Kong:	Avinda Ltd.
Japan:	Kansai Denshi.
Russia:	Finval-Stanko. Electron Services Technology.
Brazil:	Arbus Ltda.
Middle East:	Hitec Pioneers Ltd., Egypt.
Iran:	Simorgh Madar Ltd.
India:	SS International Pvt. Ltd.
Turkey:	Netdevre Co.
Korea:	Kosys Co.
Switzerland:	Micronix PCB Equipment (Swiss)

Data sheet LP-1

Max panel size:	700x510mm
Max panel thickness:	10mm
Ink types:	TiO ₂ white
Alignment:	Manual/Aut*
Software:	M-Windows.
Data protocols:	RS232, TCP
Input files:	Gerber.
No of axis:	3: X, Y, Z.
Axis resolution:	10 uM.
Repeatability:	5uM
Absolute Accuracy:	20uM.
Print resolution:	>600DPI
Print head dot size:	40uM
Print head nozzles:	512/head
Printing speed:	30M/min
Printing time 24x18":	30 sec.*)

Operating conditions:

Temperature range:	20 +/-2 C.
Rel. Humidity:	60% n.c.

Dimensions & services required:

Machine length:	1100mm
Machine width:	1100mm
Machine height:	1200mm
Shipping weight:	750 kgs
Voltage range ac:	210-240V
Current consumption:	10 Amps
Mains frequency:	50-60Hz
Compressed air:	6bar/1NI.
Vacuum system:	800mmH ₂ O
Curing (integrated):	UV 60W/cm
Ink Supply (on-board):	M-Container.

*) Depending on version.

Technical specifications are subject to change without notice.

Copyright:

Microna Ink Jetting Systems Aps, Denmark / EU.