

Intelligent Solutions in Ink-Jet Printing



macart
equipment pvt. ltd.



Manufacturer:

macart
equipment pvt. ltd.



ABOUT US

MACART EQUIPMENT PVT LTD. (MEPL) is a professionally managed company established in 2000 by Mr. Atul Gandhi, having its headquarter in Pune, India and currently have 2 manufacturing units in Pune.

MEPL is the only InkJet equipment manufacturing company in India. We have modern R&D center in Pune where we design high quality inkjet printers for sign industry and other industrial applications. We have Sales Service network throughout India with more than fifty qualified engineers and now we are expanding our sales and service network all over the world. MEPL has supplied thousands of printers to various print houses, advt agencies and sign makers who have made huge profits using our equipments and have proved the capability and quality of our equipments.



MEPL with its primary focus on Digital Printing Equipment Development and Manufacturing is a conglomerate of the following 3 independent Strategic Business Units:

- Products Division
- Technology Services/Product development
- Trading

PRODUCT DIVISION

This division is involved in manufacturing of large format solvent based printers and Industrial Coding and Marking Printers mainly based on Xaar Print heads from UK. MEPL is the leader in India in manufacturing and in sales. MEPL is the only company in India to develop complete electronics for the printer including the new powerful Star Raster Image Processor (RIP) software.

TECHNOLOGY SERVICES / PRODUCT DEVELOPMENT

MEPL is involved in providing technology services mainly in the inkjet printing products and also for VLSI based applications. Macart has developed several products related to inkjet printing and is working on many new inkjet technologies. Our Research team is highly technically qualified and is ready to take very challenging Research and development work. We provide our OEM's with complete solutions for manufacturing of large format printers and other industrial inkjet printers.



New R&D Centre



VLSI Design Department



SOME OF THE CREDITABLE WORK BY OUR RESEARCH TEAM....

- One of the worlds most advance single board electronics based on VLSI (FPGA). This MB consists of 10 soft core processors running parallel (embedded in a single FPGA), having parallel processing power.
- The MB has in built motion control, led display & keyboard control, USB & Parallel communication controls, upto 16 XAAR head control, Memory buffers and many more.
- Advance Rip algorithm for inkjets, developed using C#.Net
- Worlds most compact solvent printer.
- India's first and only to develop edible InkJet printer to print on cakes and other edible food items.
- India's first and only to develop complete XY cutting plotter.
- MEPLS own Servo motor driver and stepper driver control board.



Mother Board



Head Carriage Board



Motor Driver Board

TRADING MEPL is also into distribution of Xaar Heads, Fujifilm inks and Toyo inks.

MACART - ONE UP. ALWAYS!

Macart has always been the leader in developing new products and adding unique features to its products. Thanks to its R&D team. Our in-house designs for the mechanical assemblies, electronics and software for all our products make our products highly reliable and cost effective. We have supplied hundreds of printers and plotters to the leading design industries who have highly benefitted using our value-for-money products.





PICOMAX - Pro

KM 1024 / 512i / 512

Picomax Pro More Features :

- Noiseless with linear German Bearings
- Powerful AC Servo Motor
- Media Encoder
- Vibrant Colors
- Very High Speed and High Print Quality
- Head Height Adjustment
- Ink Fume Exhaust
- Provision of 3 Heaters- Pre- heater, Post- heater and Print bed heater

Solvent / Flex Printer



Features:

- Powerful Air dryer
- Heavy Rugged structure
- Dual Control Panel (From machine & from software)
- LED light illuminated printing area
- Enhanced colour by advanced RIP software
- Fast RIP
- Vibrant Backlit
- Powerful Media Gripper
- Heater- Preheating, Post heating, Printed Heating
- Media Suction
- Backlit LCD Display & Control Keyboard
- Quality parts-heads from KM, German Belts & Bearing, Integrated Circuit from USA
- PID Temperature Controller
- Very Low Noise
- Best ROI in the country

Specifications:

- Resolution: Maximum Interpolated Resolution 720dpi
- Colour: Maximum 16.7 million colours
- Speed KM512i (4PH): Speed in 2 pass 1000 sq.ft./hr & Speed in 3 pass 700 sq.ft./hr
- Speed KM1024 (4PH): Speed in 2 pass 1200 sq.ft./hr & Speed in 3 pass 850 sq.ft./hr
- Speed KM512 (4PH): Speed in 2 pass 450 sq.ft./hr
- Rip: Star Rip Image Processor mfg. by Macart
- Media Width: 78" to 130"
- Print Width: 126" / 72"
- Media Type: Flex, Backlit flex, vinyl, clear vinyl, canvas
- Ink: Pigment based solvent ink
- Interface: USB 2.0
- Power Requirement: 250 VAC, 50Hz single phase
- Power consumption: Max - 450 W
- Machine Heater: Max 1200



PICOMAX

KONICA 1024 / 512i / 512

- Ingenious Design
- Robust Built
- High Speed and Quality

Solvent / Flex Printer



Quality Parts :



Opti Belt Germany



Aluminum Alloy Timing Pulleys



High Quality Media Gripper



Teflon Tubing



Macart Cable Drag chain with
Separate Tube & cable Path



New Dust Proof Sealed
Linear Bearings
for High Speed Carriage Motion

THE NEW PICOJET KM 512

Picojet More Features :

- Noiseless with linear German Bearings
- Powerful AC Servo Motor
- Media Encoder
- Vibrant Colors
- Very High Speed and High Print Quality
- Head Height Adjustment
- Ink Fume Exhaust
- Provision of 3 Heaters- Pre- heater, Post-heater and Print bed heater

Solvent / Flex Printer



Features:

- New carriage extrusion with double bearing slides for good stability.
- New aluminum carriage and head bracket extrusion for better print accuracy.
- More pinch rollers for good media grip.
- New special hard alloy timing pulleys.
- Three side covered Linear encoder for better dust protection.
- Optional Rotary encoder and easy shift from linear to rotary encoder via software.
- New Blue color solvent proof body paint.
- New Big 6micron filter for better ink flow rates.
- New improved Air dryer channel and Media heater.
- Vacuum and Purge head cleaning options.
- LED light illuminated printing area
- New 5th Generation Electronics with more features and Head Voltage control via software.
- Supports new StarRip image processor 3.2 and above
- High Speed bidirection USB 2.0 interface

Quality Parts



Heavy Duty Carriage



More Pinch Rollers



New Head Bracket Designs



New Air Drying System



New Y Timing Pulleys



New X Timing Pulleys



Best Selling Product

PICOIMPACT

KM 512

- Ingenious Design
- Robust Built
- High Speed and Quality

Solvent / Flex Printer



Specifications:

- | | |
|-----------------------|--|
| • Printing Technology | Peizo Drop on Demand Electric InkJet, 4 color of Cyan, Magenta, Yellow & Black |
| • Resolution | Maximum Interpolated Resolution 740 DPI |
| • Colors | Maximum 16.7 million colors |
| • Speed | KM512 (4PH): Speed in 2 pass 450 sq.ft./hr |
| • Software | Star Rip Image Processor |
| • Media Width | 70 inch, 78 inch, 102 inch, 126 inch |
| • Print Width | 125 inches |
| • Media Type | Flex, Backlit Flex, Vinyl, Clear Vinyl, Canvas |
| • Ink | Pigment based Solvent Inks |
| • Interface | USB 2.0 |
| • Power Requirement | 250 VAC, 50 Hz, single phase |
| • Power Consumption | Max 350 W |
| • Machine Heater | Max 650 W |
| • Laptop Tray | Optional |

Manufacturer:

macart
equipment pvt. ltd.

www.macartworld.com



genesisads.com



KM 1024 - head



KM 512i - head



KM 512 - head,



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