

Intelligent solutions in Ink-Jet Printing



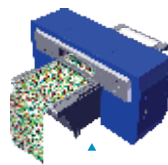
PicoMax KM 1024



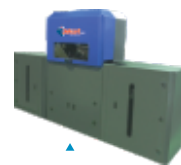
Jet Art Mini
(Inkjet Label Press)



Corrugated Sheet
(Inkjet Printer)



Jetex Pro
(Inkjet Textile Printer)



JetArt UV
(Inkjet Label Press)



StarRip Software

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.



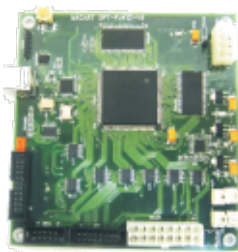
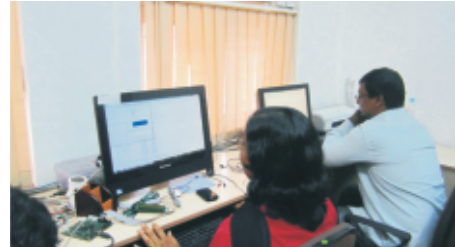
New R&D Centre



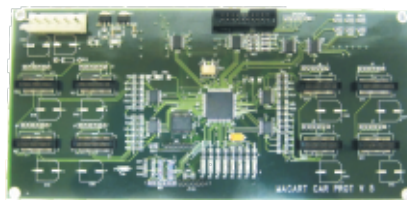
VLSI Design Department

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

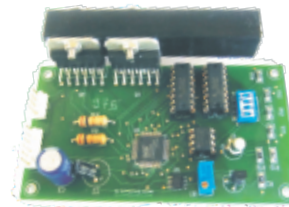
- One of the worlds most advance single board electronics based on VLSI (FPGA). This MB consists of 10 soft core processors running parallel (embedded in a single FPGA), having parallel processing power.
- The MB has in built motion control, led display & keyboard control, USB & Parallel communication 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.



PICOJET



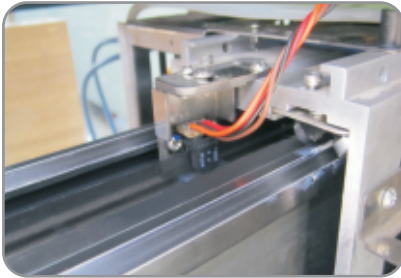
THE NEW
PICOJET proton Plus

KM 512 / KM 1024

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

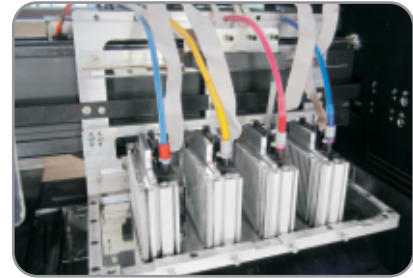
Quality Parts



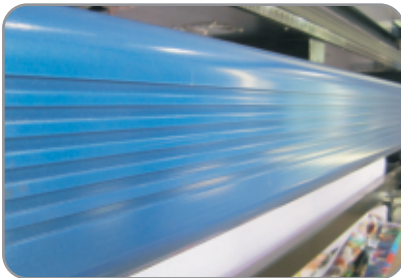
Heavy Duty Carriage



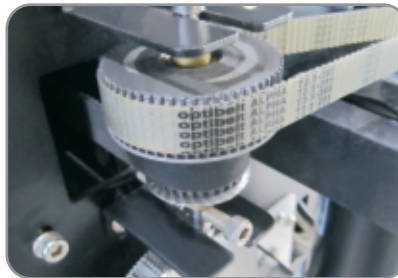
More Pinch Rollers



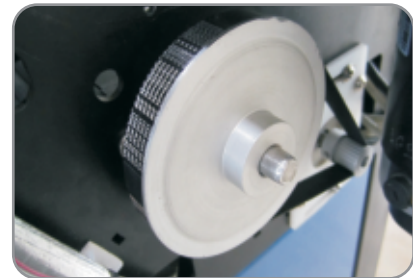
New Head Bracket Designs



New Air Drying System



New Y Timing Pulleys



New X Timing Pulleys

Specification

- | | |
|-----------------------------|--|
| ▪ 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 |
| ▪ Heads | PROTON 382.35PL/60PL/XAAR XJ 128-80 PL |
| ▪ Picojet Proton Plus(35pl) | 4 headSpeed in 2 pass 500 sq.ft./hr & Speed in 3 pass 400 sq.ft./hr |
| ▪ Picojet Proton Plus(35pl) | 8 headSpeed in 2 pass 900 sq.ft./hr & Speed in 3 pass 700 sq.ft./hr |
| ▪ Picojet Proton Plus(60pl) | 4 headSpeed in 2 pass 700 sq.ft./hr & Speed in 3 pass 500 sq.ft./hr |
| ▪ Picojet Proton Plus(60pl) | 8 headSpeed in 2 pass 1100 sq.ft./hr & Speed in 3 pass 800 sq.ft./hr |
| ▪ Picojet Plus 8 head | Speed in 2 pass 350 sq.ft./hr & Speed in 3 pass 240 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 |

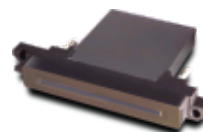


THE NEW

PICOMAX
KONICA 1024/512

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



Konica KM 1024 - head

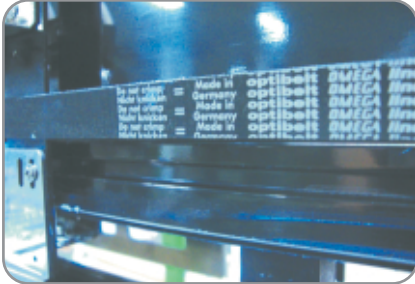


KM 512



xaar - proton head

Quality Parts



Opti Belt Germany



Aluminum Alloy Timing Pulleys



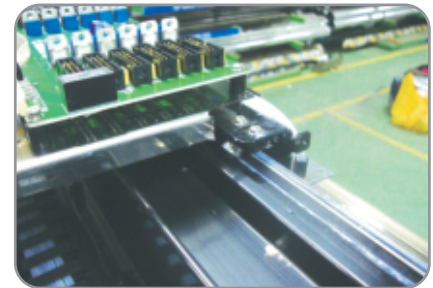
High Quality Media Gripper



Teflon Tubing



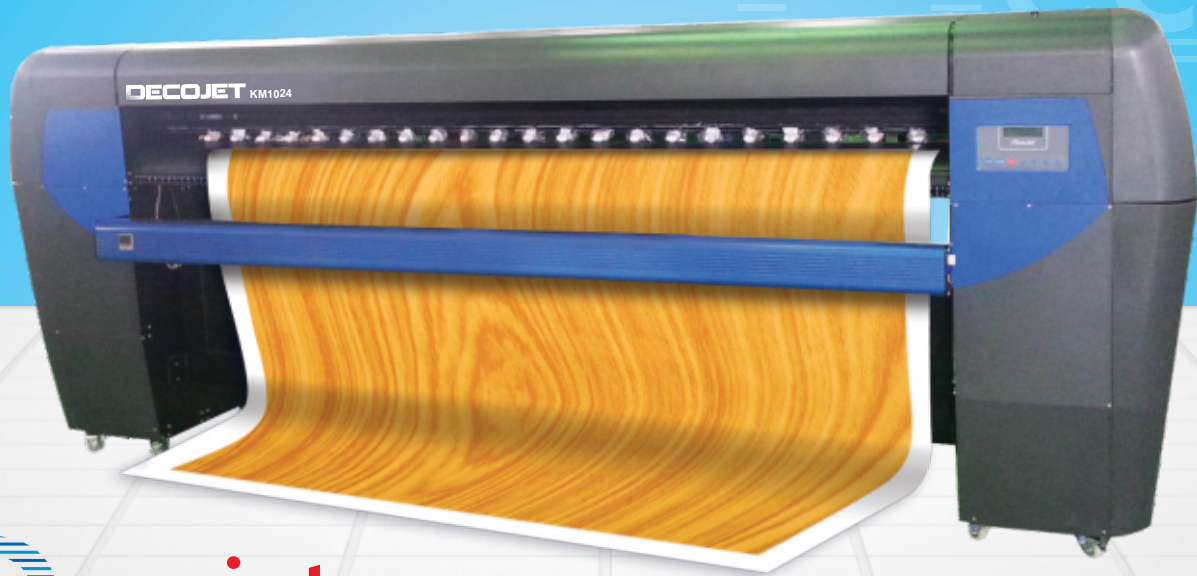
*Macart Cable Drag chain with
Separate Tube & cable Path*



*New Dust Proof Sealed
Linear Bearings
for High Speed Carriage Motion*

Specification

- Resolution: Maximum Interpolated Resolution 720dpi
- Colour: Maximum 16.7 million colours
- Heads: KM 1024
- Speed: Speed in 2 pass 1000 sq.ft./hr & Speed in 3 pass 700 sq.ft./hr
- Rip: StarRip 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 W



Features

MACART introduces Decojet a much awaited product specially designed crafted for the Décor Industry. Decojet is the only of its kind machine focusing on customised and laminates, designer door, wallpaper, canvas and higher end vinyl printing applications.

Decojet is an ideal machine for décor industry as it is designed and manufactured keeping in mind the requirements and need of the décor industry.

Decojet has many unique features to its credit like automatic roll feeder and winder for big paper rolls which makes printing easier.

The ripping software is specially developed for providing sharp and colourful images for décor industry.

Application



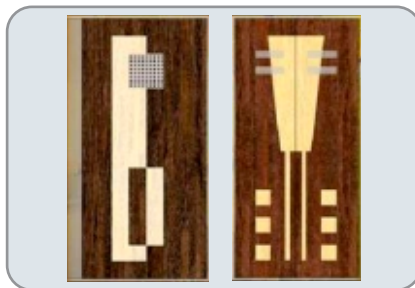
Wallpaper Printing



Canvas Printing



Laminate Printing



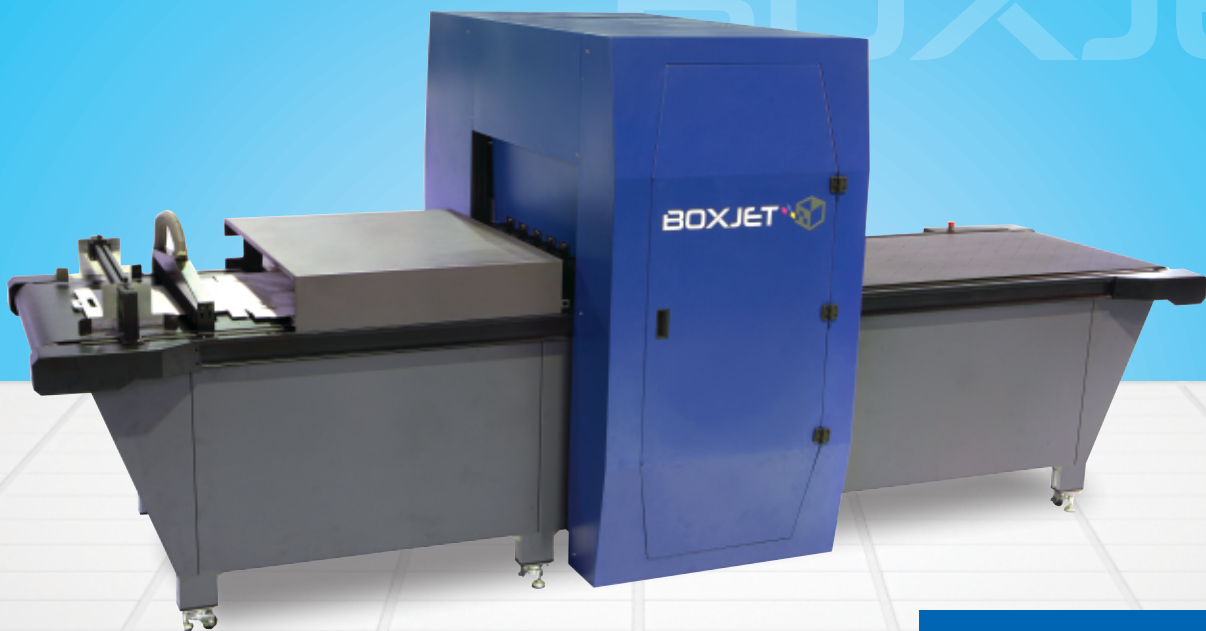
Door Printing



High Quality Vinyl Printing

Specification

- Resolution: Maximum Interpolated Resolution 720dpi
- Colour: Maximum 16.7 million colours
- Heads: KM 1024
- Speed: Speed in 2 pass 1000 sq.ft./hr & Speed in 3 pass 700 sq.ft./hr
- Rip: StarRip 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 W



Corrugated Sheet Inkjet Printer

Features

BOXJET HIGH SPEED COLOR INKJET CORRUGATED SHEET PRINTER

- Prints directly on corrugated sheets without plates or any pre-processes.
- Can print every sheet with different design.
- Capable of Variable data printing on all sheets.
- Very High speed printing of 500mm/sec, i.e 3600 sheets of 500 mm length in 1 hour !
- Inbuilt sheet cleaning system
- Fully automatic head cleaning system
- No ink wastage as it is equipped with ink re-circulating system
- Adjustable print head height
- Robust industrial design
- Upgradable from 1 color to 4 color Can also print on low quality craft paper and card boards
- Ideal for direct printing on corrugated sheet manufactured from auto-plants

SOFTWARE FEATURES

- User friendly and very fast
- All control function in the GUI of the software eg- Height adjustment, conveyor speed, head cleaning, color control, page set up etc
- Image editing tool
- Has ICC color profiles



Specification

- Technology - Peizo Inkjet
- Colors - 16.7 millions using process CMYK colors.
- Max Resolution - 720 dpi.
- Speed - 500mm/sec
- Size - width 100mm to 1500mm
- length - 100mm to 3000mm
- Sheet thickness - min 1mm to 50mm

Applications

- Customized boxes
- Product/Model specific printing
- Customer/Dealer specific printing
- Customized gift boxes
- Appliance and electronics industry
- Online shopping portal boxes
- Food packaging industry with approved bio-green inks
- Pharmaceutical industry
- Automobile industry
- Shoe industry





Jetart mini
Inkjet Label Press LP112

Jetart mini
Inkjet Label Press LP112

Macart's revolutionary Jetart mini LP112, powered by Memjet's Inkjet waterfall technology, brings together **Quality**, **Speed** and **Value** to on demand digital label printing.

Features

The Unique Jetart Mini Printhead From Memjet

- Fires more than 700 million drops of ink per second
- 70,400 ink nozzles
- 17 times the nozzle density of traditional inkjet printheads
- 9 inches wide (222.8 mm)
- Self-cooling
- Minimal warm-up time

Powered by
memjet

Applications

- Packaging Label Printing
- In-house Printing
- Private Branding
- Variable Data Printing
- Roll-to-roll Label Printing
- Barcoding



Specifications

- | | | | |
|-------------------------|--|------------------------|---|
| ▪ Print Type | Patented Single Pass Memjet Inkjet Technology | ▪ Min Media Thickness | 0.1mm |
| ▪ Head Configuration | Single Memjet Print Head Having 70,400 Nozzles (14,080 Nozzles Per Color) | ▪ Max Media Thickness | 0.3mm |
| ▪ Ink | Water-based Inkjet Inks | ▪ Media Type | Plain or Pre die cut |
| ▪ Ink Capacity | 250ml Cartridges Per Channel | ▪ Label Detection | Gap or Black Mark |
| ▪ Ink Delivery System | Five Channels CMYKK Per Printhead. Upto 740 million ink droplets / second. | ▪ Media Feeder | Low Media Detection |
| ▪ Print Resolution | 1600 x 1600 dpi (Premium Quality) ; 1600 x 800 dpi (Normal Quality) | ▪ Media Winder | Yes |
| ▪ Print Speed | 6" Per Second (Premium Quality) ; 12" Per Second (Normal Quality) | ▪ Media Core Diameter | 78mm |
| ▪ Max Media Width | 229mm or 9inch | ▪ Interface | USB 2.0 and Ethernet 10/100 |
| ▪ Min Media Width | 50.8mm or 2inch | ▪ Power Requirement | 230 or 110 Vac, 50/60 Hz, 2.5 Amp. 1KVA UPS for Backup |
| ▪ Max Printing Width | 218mm or 8.6inch | ▪ Dimensions | 760mm (L) x 520mm (W) x 1150mm (H) (Width Media Feeder, Winder) |
| ▪ Max Media Roll Length | 200mtrs | ▪ Temperature | 15 to 30C |
| | | ▪ Humidity | 20% - 80% (Non-Condensing) |
| | | ▪ Computer Requirement | Min Dual Core Intel Processor, 4GB Ram, 500GB HD, Win7/ 8 |
| | | ▪ Software | Optional - Nice Label or Bar Tender |



Features

- UV Inkjet Printing.
- On demand printing for any quantity.
- No setup time as no plates or films.
- Get consistent colors from Rip software.
- Roll to Roll printing.
- Print in 4 colors or 6 colors.
- Direct Variable Data Printing on labels.

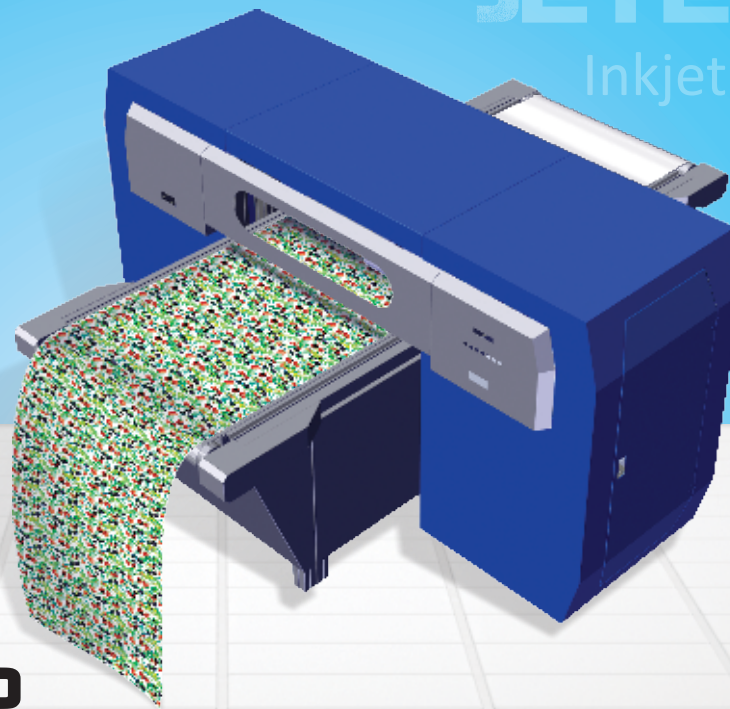
Specifications

- Technology - Piezo Drop on Demand.
- Print Head - Konica Minolta / Kyocera.
- Inks - U.V. / Water / Oil.
- Colors - 4 and 6.
- Resolution - KM 360 x 360 with 8 grey scale or Kyocera 600 x 600 3 grey scale.
- Speed - Upto 50 m/min.
- Web width - 6 inch, 8.5 inch & 13.5 inch.
- Inks - UV curable.
- Substrates - Non Porous, Porous self adhesive label stock.



JETEX PRO

Inkjet Textile Printer



JETEX PRO

Inkjet Textile Printer

Coming Soon...

Specification

- Based on high speed and high quality KM1024i print heads Jetex Pro is capable of printing at 120mtr sq per hour with 8 colors 8 PHs.
- Jetex Pro delivers consistent very high quality prints due its powerful RIP software and high quality parts used like Panasonic servo motors, magnetic encoder, THK caged bearings and many more.
- The print head maintenance station is equipped with

unique capping and wiping system which gives consistent print quality and protects the print heads.

- Jetex Pro is also equipped with fabric wrinkle detection so that print heads are protected from touching the fabric.
- With powerful RIP software and with 8 colors capabilities the Jetex Pro delivers more vibrant colors with reduced graininess in images.

Applications

- Product Name Jetex Pro 72
- Technology Drop on-demand piezo inkjet technology
- Printhead 1024 nozzles 14pl water-based inkjet printhead x 8 pcs
- Ink Type Reactive dye, Disperse dye, Acid dye.
- Printing Width 1,820mm**
- Fabric Tickness Up to 3mm
- Resolutions 540x360dpi-120m²/h, 540x720dpi-60m²/h, 720x720dpi-40m²/h

- Maximum Resolution 1440dpi
- Operating Environment Mechanical operating 15~30°C 40~70%RH
- Ink Supply System In line Degassing system, 5 ltr per color ink storage.
- RIP Jetex pro Star RIP software
- Interface USB 3.0
- Power Supply AC200-240V 50/60Hz Single-Phase 12A



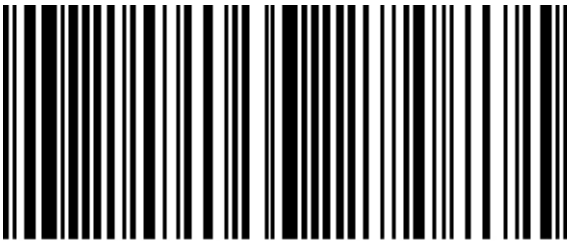
Variable Data Printer

Advantage

- Prints on craft paper and corrugated sheets with water based or oil based ink.
- Prints on coated and non coated sheets with UV ink
- Print width scalable from 0.6" to 24"
- Sharp and crisp text printed with 720 dpi quality
- RIP software with inbuilt control panel minimizing the layout time
- Modular components are operator replaceable
- Easy to maintain by operator
- Color capability

Software Features

- Extremely user friendly software and very fast
- Simpler but efficient image editing tool
- 2D Bar-code
- PDF Printing
- Control panel contains all the functions
- Customization of software to control user's machine functions e.g.: motor control, feeder control etc
- Ink calculator



(00)123456789101112133



Product : KNIT TOP
Net Qty : One N
Size : 80cm Pkd. 11/2013
Code : 1HO1018132
Article : 50006652277001
Maximum Retail Price
₹499.00 LOT 14S1
Inclusive of all Taxes
8903479932242
Manufactured By:
XXXX XXXXXX
XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXX
Marketed By:
XXXX XXXXXX
XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXX
For Customer Complaint Contact:
XXXX XXXXXX
XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXX

Specification

- Technology: Piezo
- Print Head: Konica Minolta KM 1024, Xaar Proton, XJ128, Seiko 510, Kyocera
- Max no of Print Head: 12
- Print width: 0.6 inch to 24 inch
- Resolution (dpi): 720 x 360, 360 x 180
- Drop Volume: 14 pl, 35pl, 42pl, 60 pl
- Speed— 20 meters/min to 300 meters/min
- Ink: Oil based, Water based and UV
- Ink Delivery Bulk System: 1 liter to 5 liter capacity
- Media for Oil/Water based Ink: Paper, Craft Paper, Corrugated sheets and box
- Power Requirements: 110 to 240 VAC, 50-60 Hz Supply

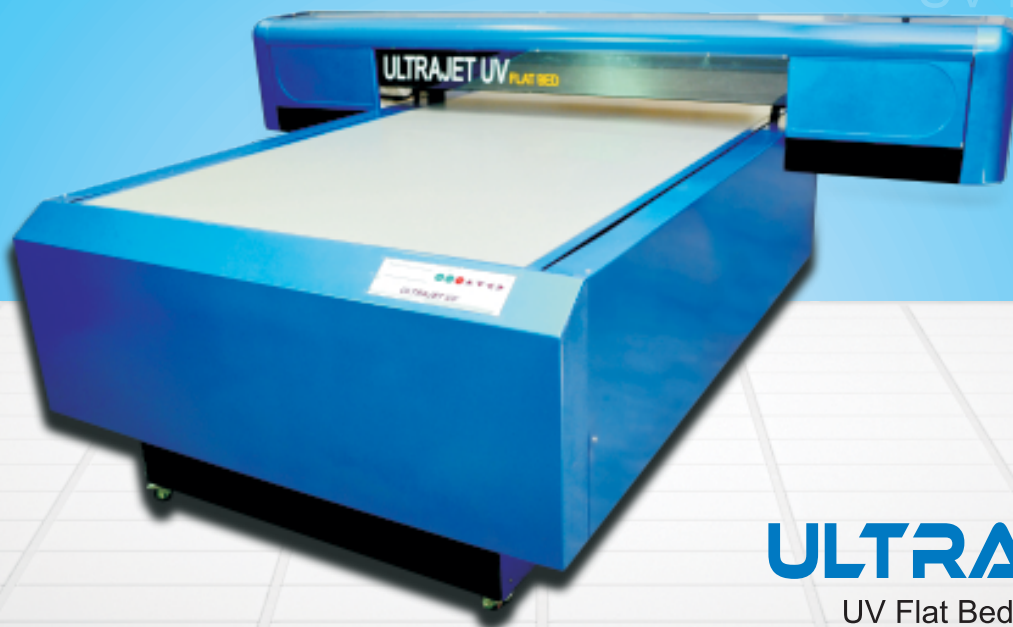
Application

- Tickets
- Tags
- Labels
- Direct mail address



ULTRA JET

UV Flat Bed Printer



ULTRA JET

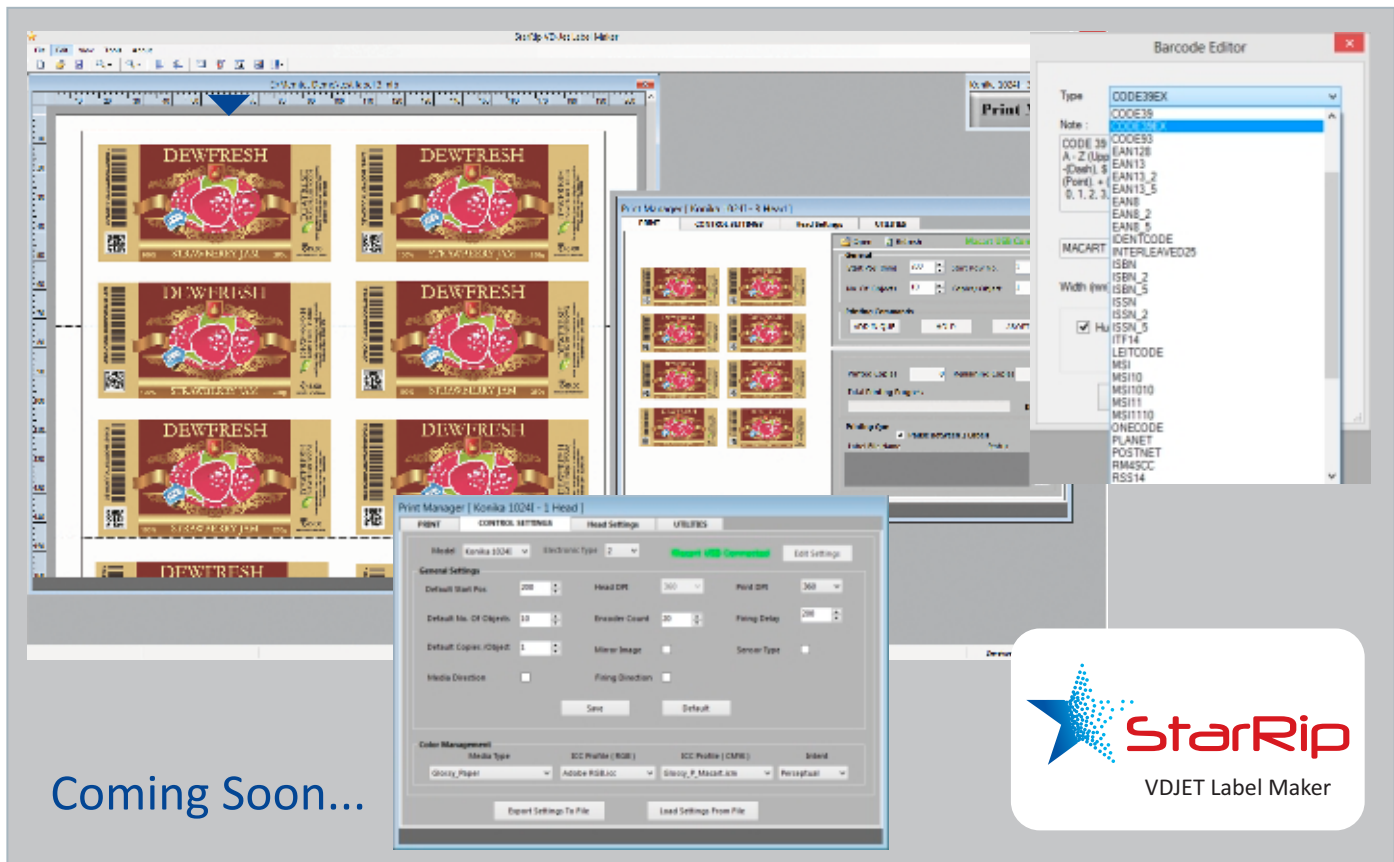
UV Flat Bed Printer

Features

- Heavy duty mechanical assembly for good and stable print quality.
- Two ball screws for accurate motion of print mechanism.
- Servo motors for controlling XY motion.
- LED UV curing.
- Sharp and Vibrant printing using new P15+ heads.
- 4 ft x 4 8ft printing area.
- Vacuum Bed
- Adjustable head height upto 30 mm.

Specifications

- Print head - Proton Plus 15 picoltr (P15+)
- Number of Print head - Fou
- Colours - CMYK
- Media size - 4 feet X 8 feet
- Speed - production mode 250 sqft/hrb - Quality mode 150 sqft/hr
- Colour management - ICC based, density & curves
- adjustment
- RIP - StarRip Image Processor
- Operation system - Windows 7
- Interface - USB 2.0
- Power Supply - 50 Hz/60 Hz,220, 450 Watt
- Laptop Tray - Optional



VDJET Label Maker

Macart has been in development of RIP software since 2000 and now with it immense experience in inkjet printing and RIP software launches new StarRip VD-Jet label maker software for printing labels using inkjet technology.

VD-Jet label maker is a Windows based program which can print labels online with new advanced online ripping algorithms. This new RIP software is designed to print high quality labels in 4 to 8 colors using UV or other inkjet press with variable data printing capabilities. VD-Jet can produce very accurate colors and it also incorporates ICC profiles for various substrates and inks.

With VD-Jet label maker you can import professional designed label in various formats such as PDF, tiff, jpeg, etc, and add static or variable text in any system fonts, bar codes, variable graphic fields and serial numbers using serialization

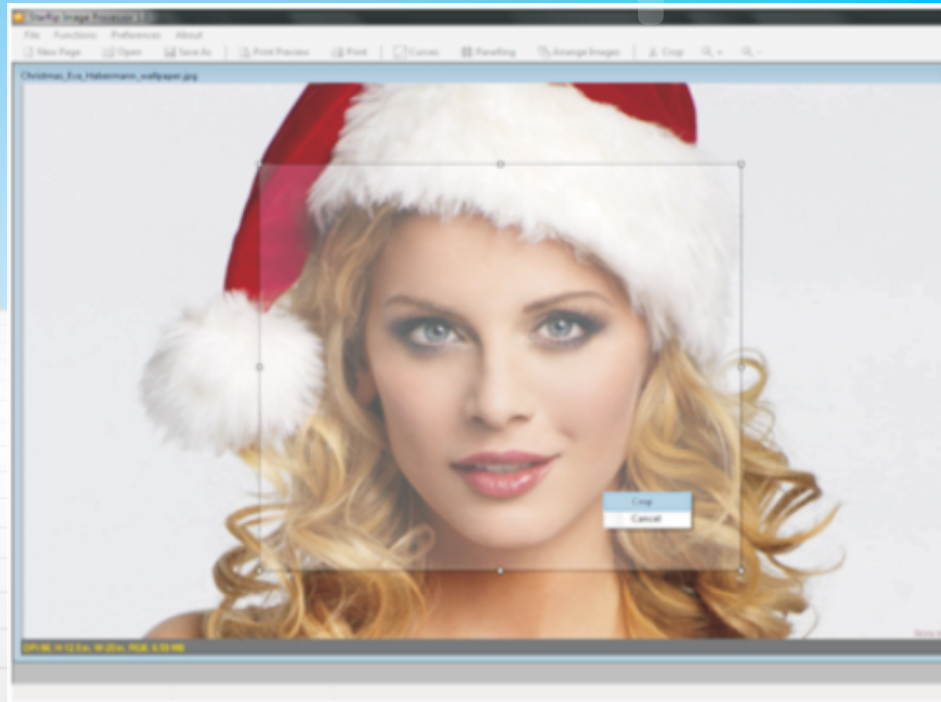
generator. The variable data can be pulled from external data base from various formats like excel spread sheets, csv, ASCII text files and many more. There is no limit on adding of fields on labels for barcodes, text, images etc.

With advance ripping algorithms for high quality printing and variable data printing capabilities VD-Jet label maker is the most deal solution for modern inkjet label press you can have.



StarRip

Image Processor

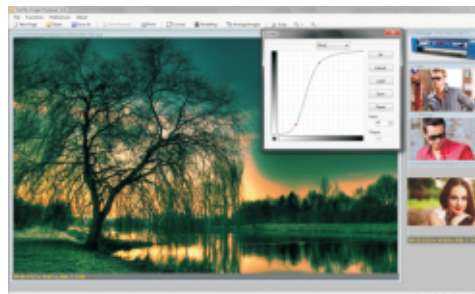
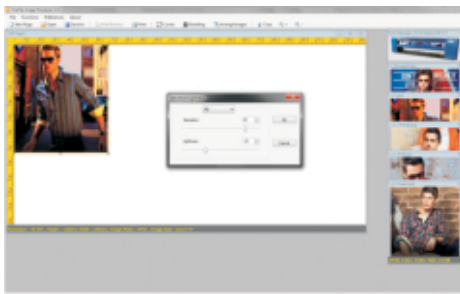


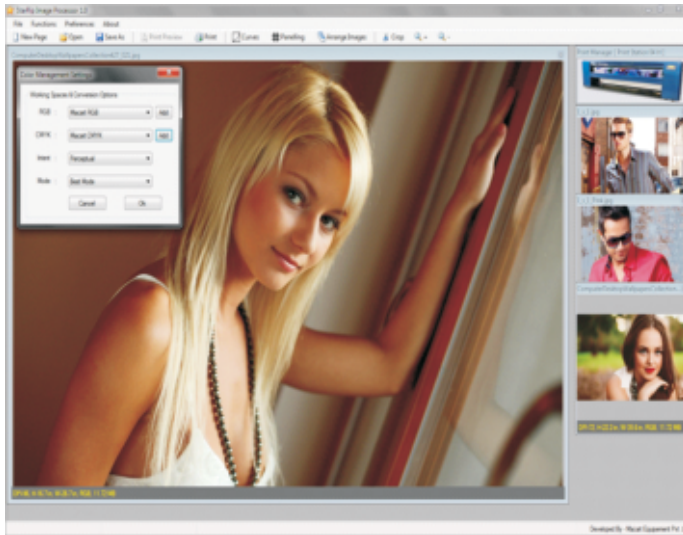
Page Setting Features

- Easy drag & drop images.
- Edit images. (Rotate Image in (90°, 180°, 270°), Apply Curve for Change Color Information, and Create Extra Copies of Same Image)
- Cropping
- Runtime page size change.

Image Processing

- Colour curves.
- Saturation
- Fast colour conversions-RGB to CMYK & CMYK to RGB using ICC profiles.





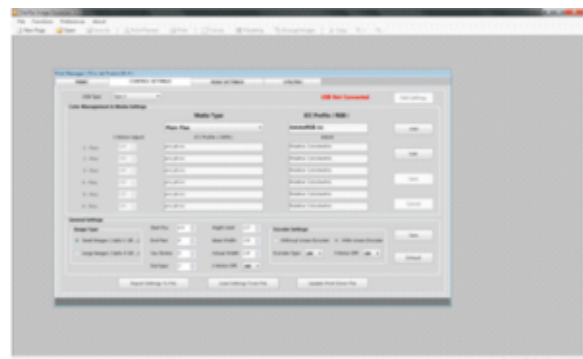
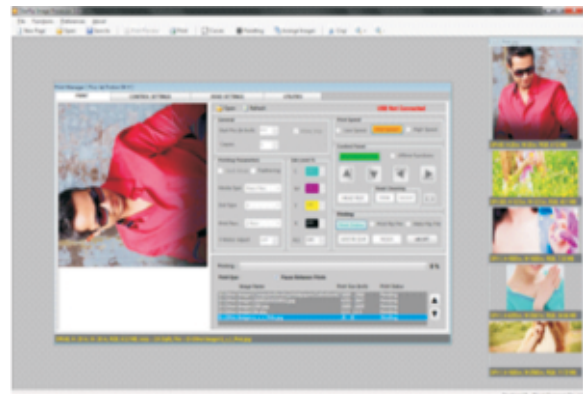
Printing Features

- Fast image preview & progress preview for printing & ripping.
- Feathering
- White skip
- Print any number of copies.
- Runtime media motor adjustment.
- Three speeds level.
- Full printer control panel for X-Y movement vacuum, head test, purge & other printer functions.
- Powerful print queue functions with pause between prints.
- Can Print Larger TIFF Images (Up to 4GB)
- Printing with Linear Encoder or rotary Encoder Options Available
- User can able to save settings in file / Load Settings from File...
- Easy head alignment settings with graphical view.
- Add & edit media types.
- Add and Edit ICC Profiles, Intent for Each Media Type for every pass
- Add ICC profiles & various settings for different media types.
- Easy alignments for Head Bracket, Printing and Media Motor Adjustments With different speed



General Features

- Easy resize with mouse drag.
- Fast opening of images-1 GB in almost 1 sec.
- Fast saving of images.
- Powerful colour management.
- Auto tiling & spacing between images.
- Can open any number of images & auto arrange on one click.
- Auto paneling for big images.
- Fast rotate & resize.



Utilities

- Maintaining printed area record from installation date
- Maintaining printed area record from date set by user
- Maintaining Today's Printed area record
- Control Head Temperature and VTrim from Software

StarRip Software includes software dongle, CD & the user will get unique customer login & password on Macart website for upgrades & technical support.

INK

SERICOL
More than Ink...Solutions.
FUJIFILM

TOYO INK



PICO

Digital Solvent Ink



Features	Benefit
Unique solvent and resin blend	<p>Sericol, Toyo and Pico inks require less purging & clean-up time thus significantly reducing start-up time and reducing scrap. Cost savings can be realized through less frequent need to change filters.</p> <p>Less need to clean heads resulting in less downtime and reduced clogging, extends the life of the heads by eliminating pressure within the head.</p> <p>Faster print speeds are possible since more nozzles on the heads are open and firing ink.</p>
High pigment content combined with specially selected pigments delivers high color strength	<p>Ink consumption typically reduced by 20% for Sericol and Pico and by 35% for Toyo inks and still maintaining the color gamut achievable with all competitive ink system.</p>
Advance dispersion technology guarantees particle dispersion of less than 1 micron.	<p>Extends print head life and reduces print head maintenance.</p>
Wide color gamut	<p>In all our inks Pigment selection delivers bright, vibrant colors that are stronger and last longer externally than other third party ink systems.</p>
Batch-to batch quality & color consistency.	<p>Reduces scrap & downtime thus increasing customer satisfaction and thereby profits</p>
Superior flow characteristics	<p>Minimal banding even at high print speeds: some customers have been able to produce work at the same quality in 2-pass mode with our inks than they had done previously with competitive products in 8-pass mode. This delivers a significant productivity benefit.</p>

CSR

Corporate Social Responsibility

Macart and its group of companies is not only providing best products and services to the society but is also actively involved in corporate social activity. Our major activities till date are ...

300000 (3 lakh) trees planted at Andhale near Pune.

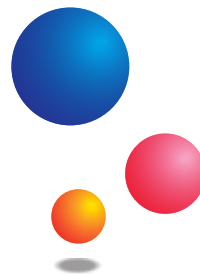
Free Technical school in Pirangut for lower income people. Constructing Hospital in Pirangut village.

Tree Plantation Aerial View from Google Earth



▲ School Building Under Construction

macart
equipment pvt. ltd.



Office : 5, Krishna Kunj Bldg., 64/31, Erandwane, Karve Road, Pune - 411 004. Maharashtra (INDIA)
Tel. : +91-20-25440973 / +91 8975759894, Fax : +91-20-25456723 Email : sales@macartworld.com
Website : www.macartworld.com