JETSCI™

colornovo

Digital Label Production Press

-Bridging the Gap

MONOTECH
SYSTEMS LIMITED

Bridging the Gap

The label printing market is going through a transition period where run lengths are becoming shorter and shorter, media costs are increasing, margins are shrinking and fast turnaround time to market is creating huge pressure on label printers. Here **Colornovo** bridges the gap between end users, brand owners and the label printers enabling them to print on demand.

It utilizes the PiezoDOD inkjet print head technology that enables it to print high quality labels at 600 X 600 dpi native resolution at speeds of up to 50 m/min and up to 330 mm of print widths, delivering the expectations of a label printer in terms of lowest total cost of ownership and fastest return on investments.

Digital is the future, so is the Digital press, it comes with the power of printing short to medium runs very effectively and economically, additionally featuring great value of personalization, variable data and security printing in real time production at one go.

Good time to add "DIGITAL"

When is the good time to add digital in the label printing workflow?

- What percentage of label production is under 3000 linear meters run length?

- What additional work, could you attract if you had a digital press?

- How effectively you can utilize combined workflow of digital and analogue technology?

Advantages of UV Inkjet Press

- Initial proofing and instant response

- No reprographics and plate cost

- Reduced SKU for brand owners & inventory for label printers

- Quick versioning of repeat jobs & minimum wastage in job changeover

- Easy upgradation on field & Costly Operations Savings

- No Click Charges - Pay as per usage

- UV ink - highly durable, chemical and moisture resistant

- Prints on standard Flexo materials, many without the need to pre-coat/treatment

- Variable data printing

Colornovo - Exceeding Expectations

| Increased Productivity	Higher Flexibility	Exceptional Quality
Fast Turn Around time	**Profitability**	**Great Value Addition (VDP)**

Profitability

Digital UV inkjet printing is far more economical up to run lengths of 3000 linear meters which is considerable amount of print jobs nowadays. Adding a digital label printing press requires reasonable capital expenditure, so it is most important for label printers to select the right technology at the right time to be profitable and competitive in business for their short run and digital label printing requirements.

The time to change from printing one job to another is instantaneous with limited media waste, making Digital a preferable solution for maximum profitability and acceptability.
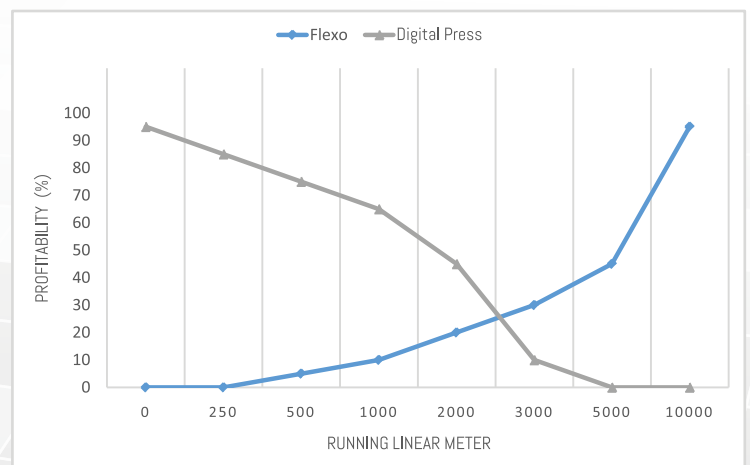
Profitability derived in above graph are comparison of different process cost of labour, consumables, media, productivity and time to complete the job

Software Workflow and High-quality Printing

Colornovo production controller based on Adobe PDF Engine (APPE) is equipped with most flexible advanced software RIP workflow which ensures excellent color management with optimum color rendering and consistent color reproduction all times. User interface can easily be adapted in the production environment with step by step creation, color management, spot color matching, ripping and printing of customers files.

Ink saver module is inbuilt which can reduce the total ink consumption up to 25% without visible loss of quality which in turn reduces the total printing costs. Customer can calculate the total job cost accurately even before printing with the in-built cost calculation module.

Variable data files can be printed with just a click and multiple files can be fed in the system for nonstop job change over and continuous printing for longer periods thus cutting down media, production, labour and many other costs associated with it.

Spot Color and Matching

Production controller provides flexibility to adjust spot colors to the closest match and also matching the colors to references or existing samples through inbuilt color matching tool in the software workflow. Pantone table is included as standard in the system.
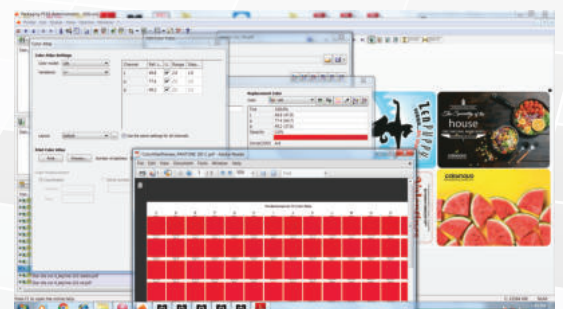
Variable Data Printing & Security

Colornovo UV Inkjet adds great value to the product labels and it becomes more important where the product requires tracking through the supply chain till consumption like in Pharma, Food, Liquor, Cigarettes etc., Labels and Packaging. Customers can print variable sharp text, bar codes, serials, images in full color for enhanced capability and can be adapted to the changes in requirements of jobs instantaneously which provides certain level of anti-counterfeiting authentication solution.

Whether the requirement is of last stage customisation, print full color security images / patterns or any other variable data with change, **Colornovo** has the great potential to deliver the highly productive, stable and reliable production requirement.

Colornovo Digital Label Production Press

colorNOVO

Unwind
700 mm dia, auto tension control, 76 mm air expanding shaft

Web cleaning system

Surface Treatment
Corona unit

Flexo Servo Station
Pre digital registered flexo for spot color, spot vanish or other post digital press with UV curing. Pre digital flexo station (optional) for spot color, primer

Touch Screen
HMI control for UV Inkjet system

Flexo Servo Station
Post digital registered flexo for spot color, spot vanish or other post digital press with UV curing. Pre digital flexo station (optional) for spot color, primer

Cold Foil and Lamination Unit

Semi rotary Die Cut Unit
Semi rotary die cutting station complete with a magnetic cylinder as standard and can run in full rotary mode

Waste Matrix Rewind
Independent motor drive for tension control

colorNOVO HYBRID+

Electronic Web Guide
Web guide, adjustable slice table, interlocked web clamps and tape dispenser

Colornovo
CMYK UV Inkjet + White (optional) + LED Pinning and UV Lamp Curing System

LED Control
Panel and Display

Fully Servo Driven Label Finishing and Converting Press

Slitting Unit
Rotary knife slitting unit

Back scorer
Back Scorer equipped with two knives

Touch Screen
HMI control for converting line

Dual Rewind
Dual (upper and lower) product rewinder complete with 76 mm air shaft and suitable for winding labels in/out with variable tension control. Maximum OD of 450 mm for upper and 700 mm for lower

Scan the QR Code to view ColorNovo in action

Inks & GAMUT

Wider Color Gamut	Excellent Performance	Reduced Ink Deposition	LED & UV Lamp Curable

High Print Quality Crisp and Sharp Text	Wide Range of Substrates	Excellent Ink Flow and Adhesion

Colornovo, with the combination of 4 step droplet size grey scale printheads and specially designed ink chemistry provides smooth and natural gradations from highlights to shadows and high quality sharp texts and photo quality images with fine details.

Minute	Small	Medium	Large

White Inks

Additionally to CMYK UV Inkjet Inks, high opacity Colornovo white ink gives real life to printing on clear transparent and metalized substrates. White inks are available for under white, over white or screen like printing.

Transform your business in Labels and Packaging

- Print what you need
- Print when you need
- Print how much you need

"Be more productive & profitable"

Not Just for Short Runs

Higher Flexibility

Increased Productivity

High Quality

Unbetable Total Cost of Owenrship

Fast Turn Around Time

Great value Addition

Profitability

Flexo
Brand / Spot Colour
High Coverage Color

COLORNOVO
Last Stage Customization
Images (Variable/Static)
Color VDP (1D Barcode ,
QR/2D Codes, Text, Numbers)
Security Printing (Variable /Static)

Digital printing is efficient and cost effective, not only for short run jobs but has many other value additions, featuring variable data, text, images and other security features that can be incorporated in end product label.

Jetsci Aqua
250 ml

Put a STOP to the Water DROP

PACKAGED DRINKING WATER

Best before 6 month from the date of manufaturing
For Mfd. date,Batch No. and MRP see bottle

Hidden Key: **SOR893**

Label Printed on:
colornovo
www.jetsciglobal.com

Product Authentication

Track & Trace

CRUSH THE BOTTLE AFTER USE

14000

TECHNICAL SPECIFICATION

Web Width	330 mm
Speed	Up to 50 m/min
Substrate	20-200 um (label paper supported, other materials - perform test)
Color	4 to 7 colors + CMYK White O/G/V (Optional)

DIGITAL PRINT ENGINE

Print Width	Up to 324mm
Printing Method	UV – Piezo DoD - Inkjet
Resolution	600 x 600 dpi native, @ 4 level grey scale, 600x1200 dpi
File Format	PDF, PDF/VT, TIFF, JPEG, BMP & other database files
Workflow	Advanced color management & RIP solution
Ink Curing	Inter color UV LED pinning, Full curing by UV LED / Arc Lamp

CONVENTIONAL LINE (Fully Servo Driven)

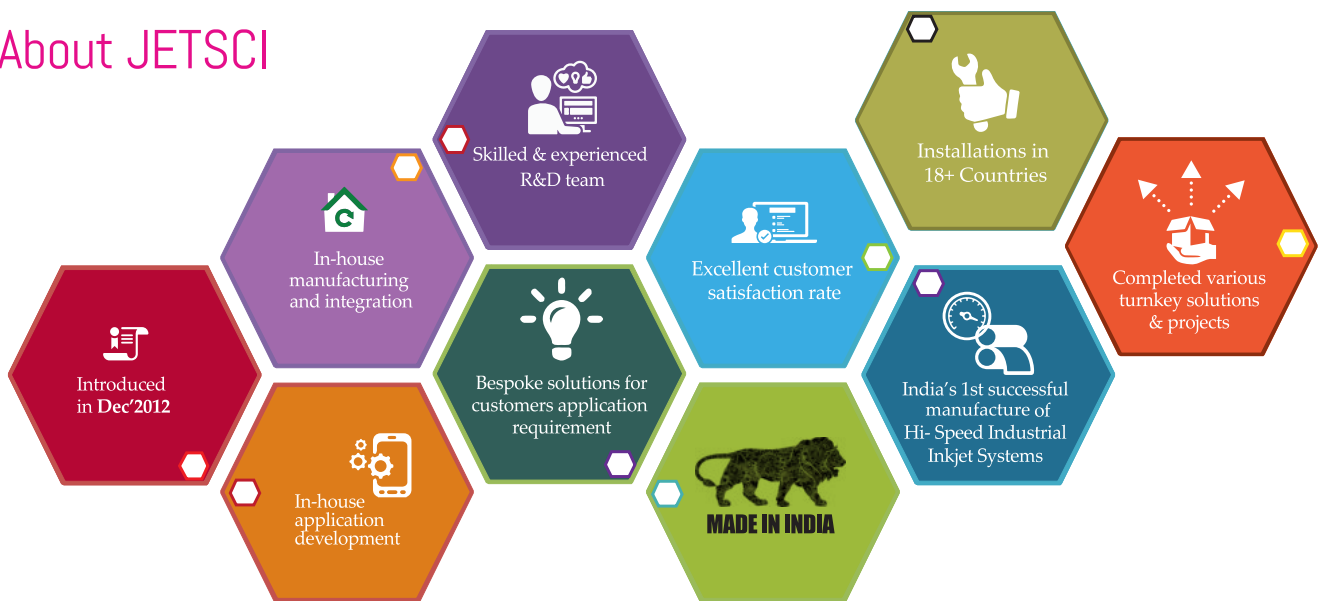|	
Unwinder Diameter	700 mm, core 76 mm
Rewinder Diameter	Dual rewind Rewind 1 diameter (upper): 450 mm Rewind 2 diameter (lower): up to 700mm
Other Accessories	Flexo stations, cold foil, lamination, die cut with matrix rewind & back scoring, slitting assembly, web cleaner with antistatic, corona treater and web guide
Flexo 1 (optional, prior to print module)	Pre digital Flexo for high coverage color, spot color, primer with UV curing (registered or non-registered)
Flexo 2 (post print module)	Post Digital registered Flexo for spot color, spot varnish or other post digital press with UV curing
Die Cutting	Semi/Full rotary (2"-25"), optional 27"

ENVIRONMENTAL DATA

|	
Optimal Temperature Range	20-22°C (68-72 degree F)
Maximum Remperature Range	20-22°C (68-72 degree F)
Ink Storage	20-22°C (68-77 degree F)
Optimum Humidity Range	40-60%
Dust Controlled Environment Preferred	

About Monotech Systems Limited

For two decades we have been a leading manufacturer and supplier of high end, high performance, reliable products and solutions for printing and packaging industry. We are widely known for the expertise in developing, designing, and introducing incomparable range of printing machinery and allied products to the industry. MSL has been a pioneer in providing cutting edge turnkey solutions to the printing industry globally.

About JETSCI

- Skilled & experienced R&D team
- In-house manufacturing and integration
- Installations in 18+ Countries
- Completed various turnkey solutions & projects
- Excellent customer satisfaction rate
- Introduced in **Dec'2012**
- Bespoke solutions for customers application requirement
- India's 1st successful manufacture of Hi-Speed Industrial Inkjet Systems
- In-house application development
- MADE IN INDIA

"OUR ASSURANCE"

- ☑ Latest innovative and state-of-the-art technology solutions.
- ☑ Reasonable and highly competitive product pricing.
- ☑ Fastest ROI and lowest total cost of ownership.
- ☑ Customized solutions as per requirements.
- ☑ Best in class service and support.

colornovo HYBRID
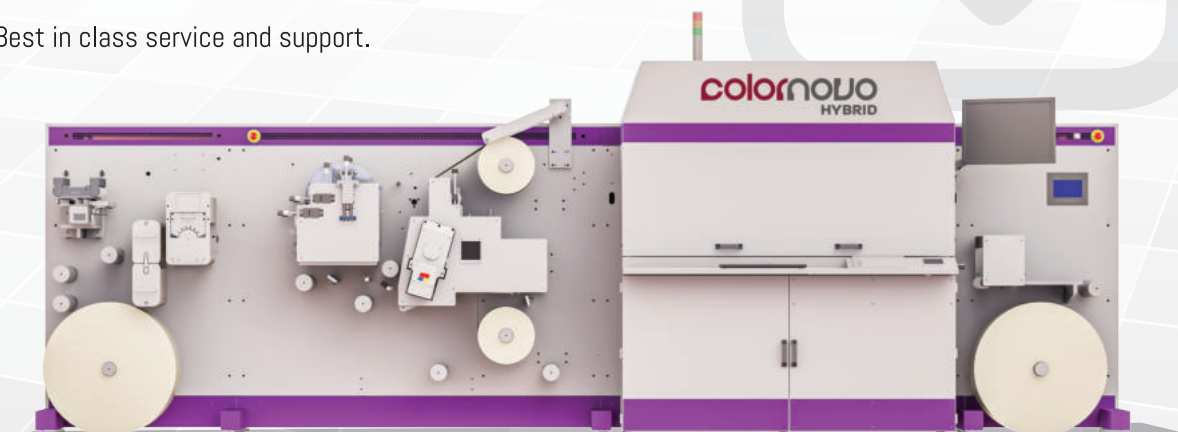
MONOTECH SYSTEMS LIMITED

Head Office : 8B, "Chaitanya Exotica", 24 Venkatnarayana Road, T. Nagar, Chennai - 600 017, Tamilnadu, India
         Phone: +91 44 2815 7928/7894/7933, 4350 2232

R&D Center : B-15, InfoCity Phase 1, Sector 34, Gurugram-122001, Haryana, India
         Phone: +91 124 2371 771, +91 999 958 5324 Toll free (India): 1-800-102-4567
         Email : jetsciglobal@monotech.in | Web : www.jetsciglobal.com | www.monotech.in

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