



**N SERIES - N32P**  
**NEXT GENERATION**  
**CODING**





Print real-time "Best By", "Lot Code", "Sell by", "Expiration Codes" and other identifying marks and codes to dark colored substrates. Inks available that contrast on both dark and light colored substrates. The N Series 32P is targeted at applications that require high contrast printing inks on dark colored substrates. Print 1, 2, 3, 4 or 5 lines of text, barcodes or graphics. This model is typically used in high speed wire and cable applications, as well as PVC pipe extrusion, automotive parts, cosmetics and other dark colored substrates. Print in a variety of colors – White for dark colored substrates and Light Blue, Aqua Blue, Silver/Gray and Pink allowing printing on dark and light colored substrates with one system.

Typical applications mark and code one, two or three shifts per day or 24/7 operations, five to seven days per week, averaging 4,000 – 8,760 hour annual operation. Utilize integrated RS232 and programmable inputs\outputs for remote control and communications.

Systems are simplified to allow anyone to operate, minimizing operator touches, extending time between human interaction.

## Capabilities

### Lines of Print

1, 2, 3, 4 or 5 lines of text, graphics and barcodes.

### Image Height

From 1.5 mm (0.06") to 19mm (0.75").

### Printing Distance

Ink throw distances from .5" (12 mm) up to 2" (50 mm).

### Print Speeds

Up to 1500 feet/minute (470 meters/minute) for single line of print, up to 345 feet/minute (108 meters/minute) for two lines of print, up to 173 feet/minute (54 meters/minute) for three lines of print, up to 119 feet/minute (36 meters/minute) for four lines of print and up to 114 feet/minute (35 meters/minute) for five lines of print.

# Model N32P CIJ Printer

Opaque System. Print Dark Colored Substrates - Heavy Pigment Inks.

- **CleanStart™** - Automatically cleans printhead eliminating daily and weekly cleanings.
- **10.4" Color Touch Screen** - Always on, vivid display with large intuitive buttons and status indicators.
- **OneTouch™** - Single step operator functions reduce operator steps.
- **Large Volume Ink Tanks** - Extend time between fluid additions to weeks or months.
- **On-the-Fly External Ink Filling** - Accomplished in less than a minute with no waste.
- **AutoOff™ Go Home Button** - Automate and eliminate time consuming end of day manual routines.

## IP65 Protection

Ideal for wash down, the entire system is enclosed in an IP65 rated stainless steel cabinet.

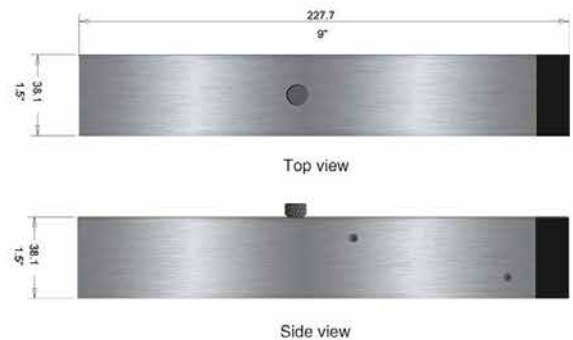


## Specification at a Glance

Feature	Specification
Technology	Continuous Ink Jet (CIJ) Technology, Single Printhead Control
User Interface	10.4" (264 mm) Color LCD, Touch Screen, Icon based – Graphical User Interface (GUI)
Lines of Print	1 - 5 Lines, 32 Pixel
Print Fonts	5, 7, 9, 12, 16, 19, 25,32
Adjustable Print Height	10" (2 mm) - .75" (19 mm)
Optional Print Height	06" (1.5 mm) - .50" (12 mm)
Print Speed	1 Line: 1500 feet/minute (470 meters/minute), 2 Line: 345 feet/minute (108 meters/minute), 3 Line: 173 feet/minute (54 meters/minute), 4 Line: 119 feet/minute (36 meters/minute), 5 Line: 114 feet/minute (35 meters/minute)
Ink Throw Distance	True Non-Contact Printing, .5" (12 mm) - 2" (50 mm)

## N32P Specification In-Depth

Feature	Specification
Electronic Hardware	32 Bit ARM 9, 208 Mhz Processor
Memory Storage	4 GByte Solid State Drive, 15 MByte Flash, 128 Mbyte RAM, USB Interface (thumb drive)
Machine Interface	RS232, Ethernet
Inputs	1 Photocell, 1 Photocell or Programmable Input, 1 Shaft Encoder, 8 Field Programmable Inputs, Remote Message Selection option – 256 possible selections
Outputs	4 Alarm Outputs, 1 Relay Output
Enclosure	Stainless Steel Enclosure
Ingress Protection	IP65
SmartFilter™ Life	2,000 hours
Operating Environment	Temperature: 32° - 122° F (0° - 50°C), % Relative Humidity: 10 - 90% (non-condensing)
Electrical Requirements	Auto Ranging: 100 - 240 VAC (3 Amp), Frequency 50 - 60 Hz, Power Consumption: 50 W
Compliance	CE Certified, RoHS Compliant
Message/Code Creation	Dynamic Message Storage (over 1000 Messages), WYSIWYG Message Editing, Drag/Drop Field Based Formatting, Multi-National (Unicode) Character Printing, Download Fonts, Integrated Font Editor, Real and Expiration Time and Date, Shift and Rollover Functions, Product and Batch Counting, Remote Count Resets, Download Graphics and Integrated Graphic Editor, Continuous and Repeat Print, Auto Reverse / Traverse Print
Operation Features	Icon Based Operation, Single Button Start, Single Button Stop / Power Off, Password Security, Automatic Diagnostics, Error and Activity Logs, Service Reminders, Backup / Restore Functions, USB Load Firmware Updates, All Operator Languages, Download Languages
Ink Delivery	SmartFill™ Ink Bottle: 32 oz (946 ml), SmartFill™ Makeup Bottle: 32 oz (946 ml)
Fluid Capacity	Ink Capacity: 68 oz (2 liters), Makeup Capacity: 102 oz (3 liters)
Ink Types	Quick Dry to Immediate Dry
Ink Colors	White, Light Blue, Aqua Blue, Silver/Gray, Pink
Specialist Inks	Eco-Friendly
Printhead Umbilical	10 feet (3 meters), 15 feet (4.5 meters) option
Printhead Options	Right Angle Printhead
Printing	Printhead Orientation – Omnidirectional
Weight	45 lbs (20 kg)
Optional Accessories	Alarm Beacon, Photocells, Mountings, Shaft Encoder, AirFlow™ Positive Air Kit (for high dust), Printhead Wash Station






By request, Needham Coding can adapt hardware and software to meet specific application demands.



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