



N SERIES - N32M
NEXT GENERATION
CODING





Print real-time "Best By", "Lot Code", "Sell by", "Expiration Codes" and other identifying marks and codes to any substrate in high resolution and/or micro size.

The N Series N32M (Micro) is targeted at applications requiring high resolution or micro-sized character requirements. 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 electronics, pharmaceutical, automotive parts, cosmetics and other smaller size health care products. A complete range of dye based inks are available including in a variety of colors for a wide range of applications.

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 0.6 mm (0.025") to 10mm (0.40").

Printing Distance

Ink throw distances from .40" (10 mm)

Print Speeds

Up to 1800 feet/minute (550 meters/minute) for single line of print and up to 475 feet/minute (145 meters/minute) for two lines of print, up to 237 feet/minute (72 meters/minute) for three lines of print, up to 164 feet/minute (50 meters/minute) for four lines of print and up to 156 feet/minute (47 meters/minute) for five lines of print

Model N32M CIJ Printer

High Resolution. High Speed. Micro Size Character Capable.

- **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.

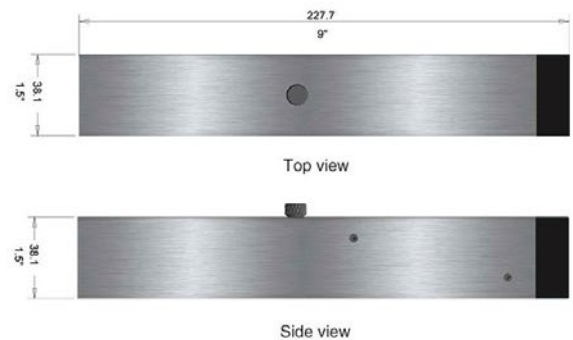


Specification at a Glance

| 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 | .025" (.6 mm) - .4" (10 mm) |
| Print Speed | 1 Line: 1800 feet/minute (550 meters/minute), 2 Line: 475 feet/minute (145 meters/minute), 3 Line: 237 feet/minute (72 meters/minute), 4 Line: 164 feet/minute (50 meters/minute), 5 Line: 156 feet/minute (47 meters/minute) |
| Ink Throw Distance | True Non-Contact Printing, .4" (10 mm) |

N32M 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 | 10,000 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 | Black, Red, Blue, Invisible |
| Specialist Inks | Thermo Color Change, Wet Bottle, Caustic Washable, Plastic, Eco-Friendly, Alcohol Resistant, Military Spec |
| 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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