# Linx 8940

## Continuous ink jet printers

Code faster, in more demanding applications, with the Linx 8940.

The Linx 8940 provides flexible coding with up to 5 lines of print, on high speed production lines, and in challenging environments. With an IP65 rating, simple touch screen interface, and fewer maintenance interventions, the Linx 8940 is designed to provide high speed, low maintenance coding.

### Easy to use for quick code setup and operation

- Store up to 50 named line settings – for quick retrieval at product changeovers; settings can be transferred between printers with a USB flash drive
- Large, icon-driven high-resolution touch screen, with at-a-glance production-rate visibility
- Customisable top screen, one touch operation for common tasks, on-screen message prompts for faster, accurate code setup
- Simple, one-touch, fluid cartridge refills during printing – no mess, no tools, no mistakes
- Self-service with an on-screen Wizard which guides operators through the service module change process – for a quick, engineer-free service.

### Reliable coding for longer

- IP65 rating as standard – for reliable operation in wet or dusty conditions, and no need for an external compressed air supply
- Extended service intervals up to 18,000hrs/ 24 months – code for longer without interventions
- Advanced System Monitoring – internal monitoring helps to avoid unscheduled stoppages – reliable coding for longer
- Quick, clean startups every time – robust, completely sealed printhead, and Autoflush feature ensure continual reliable operation
- Seasonal shutdown mode – printer is ready to print first time, even after extended shutdown, with no need for expensive printer flushing.

### Flexible coding with more printing capabilities

- Code up to five lines of code, including 2D barcodes
- High speed coding as standard – at production line speeds up to 6.25m/s. Two line coding at up to 4.1m/s
- Carton coding option, up to 20mm high print
- Real-time output on screen – meet your OEE targets with the printer screensaver 'On/Off target'; identify patterns in overall line downtime with the output/downtime reporting feature, and improve your efficiencies.

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**PRINTHEAD**

60mm minimum bend radius in static applications. 180mm minimum bend radius in dynamic applications.

**SIDE ELEVATION**

**FRONT ELEVATION**

223mm / 42mm

355mm

440mm / 503mm / 400mm

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## Technical Specifications

### PRINT SPEEDS AND SIZES

Printhead: Mk11 Midi

Nozzle size: 62 µm

Lines of print: Up to 5

Character height range: 1.8 to 12.0 mm (up to 20mm with carton coding message style)

Maximum speed for single line print (5 dot high characters): 6.25m/s at 0.47mm drop pitch

Maximum speed for single line print (7 dot high characters): 5.50m/s at 0.55mm drop pitch

Maximum speed for two line print (7 and 5 dot high characters): 4.10m/s at 0.82mm drop pitch

Maximum speed for two line print (5 dot high characters): 3.44m/s at 0.43mm drop pitch

Maximum speed for two line print (7 dot high characters): 2.65m/s at 0.43mm drop pitch

Maximum speed for three line print (5 dot high characters): 2.36m/s at 0.53mm drop pitch

Maximum speed for three line print (7 dot high characters): 1.12m/s at 0.37mm drop pitch

Maximum speed for four line print (7 dot high characters): 0.57m/s at 0.37mm drop pitch

Maximum number of characters per second: 2222

Maximum message length: In excess of 1 metre

Recommended distance from printhead to substrate: 12mm (35mm for carton coding message style, and larger print)

### HARDWARE FEATURES

Easi-Change® Service Module, change interval: up to 24 months (18,000 hours)*

Unique automatic printhead flushing – typical cleaning interval 3 months (100 starts and stops)

Printhead jet-speed control and temperature sensing for consistent printing in changing ambient temperatures

Mistake-proof, mess-free ink and solvent refilling while printing (0.5 litre ink cartridge, 1 litre solvent cartridge)

10-inch full colour touch screen with tough, solvent-resistant polymer cover

Durable ink pump with no scheduled changes required

Extended shutdowns (up to 3 months) without printer flushing or draining

Robust, flexible dual-tube conduit for static and moving printhead applications

### SOFTWARE FEATURES

Single-press start print, pause print and jet shutdown

Auto power-off after jet shutdown

Simple message creation and editing with drag-and-drop field positioning and zoom function for long messages

Total print count, message count and batch count

Message store display and message style selection

Password-protected functions, with customisable user profiles

Message creation/editing while printing

On-screen system monitoring, to measure key ink system and environmental parameters, to help avoid unscheduled stoppages

On-screen output rate measurement and production stoppage log. Downloadable onto USB

On-screen fluid level indicators, 12 hour running from fluid refill warning to printer stop in most applications

On-screen help and diagnostics information

PrintSync® automatic font and message format selection, based on message style selected and production line speed

Multiple operator languages (user selectable) with on-screen keyboards, secondary keyboard for multi-language printing

Simple line speed and shaft encoder setup wizard, for installation on new production lines

Up to 50 line settings can be stored, with individual line names

Message store and printer settings backup, copy and restore using USB storage device

Simple Communications Protocol (YAML based scripts) and Linx Remote Communications Interface for connection to PCs or PLCs using Ethernet port or optional RS232 port

QuickSwitch® message selection and editing using bar code scanner

### MESSAGE PRINTING FACILITIES

Text, symbols and numbers

Prompted fields for one-step message editing with customisable on-screen prompts

Height, width and delay functions for easy code sizing and positioning

Automatic formats for printing dates and times (using the printer's internal clock)

Custom date and time editor to create different date formats as required

Automatic date forward function. Add number of seconds, minutes, hours to the current time, or number of days, weeks or months to the current date

Automatic time adjustment option for daylight savings time

Sequential numbering, forward and backward counting, variable intervals, multiple number ranges, alphanumeric sequencing

One touch sequential number reset option from the printer screen, and reset using external trigger

Sequential text fields, increment and reset sequences using external triggers, optional one touch sequence reset from the printer screen

'Production Schedule' function, to print a sequence of messages automatically, with different triggering and repeat print options

Number of messages stored: up to 1000 using internal printer memory (depending on message content), more can be stored using a USB storage device

Bold character printing (up to 9 times)

Variable character spacing for improved vision system recognition

Rotated character (tower) printing

Shift coding (message content changes automatically at defined times)

Graphics and logos can be imported into the printer as bitmap files using the USB port

Reverse and inverted printing

Barcodes (ITF 2 of 5, Code 39, Code 128, EAN 13, EAN 8, UPCA, Pharmacode, Data Matrix, QR Code)

### PRINTHEAD OPTIONS

2m conduit

4m conduit (option)

6m conduit (option)

Positive air purge to printhead (provides improved reliability in dusty or humid environments) (option)

### INK RANGE

Linx MEK base (dye-based)

Linx mixed base (MEK-free, dye based)

Linx ethanol base (MEK-free, dye based)

### CONNECTIONS/INTERFACING FOR

Product detector

Shaft encoder/second product detector

External single-stage alarm output (24v)

USB

Ethernet

Volt-free contact alarm connection (e.g. for use with external mains-driven alarm) (option)

Dual alarm output (Volt-free and 24V output) (option) with multi-stage alarm option

RS232 (option) & Parallel I/O (option)

### PHYSICAL CHARACTERISTICS

Base and enclosure: Stainless steel

IP65 environmental protection rating**

Mounting options: Static stand, mobile stand, bench, shelf for wall mounting

Operating temperature range: 0 – 50°C for 1240, 1010, 1014 and 3240 ink types, (5-45°C for other MEK base, Mixed base, Ethanol base ink types)

Humidity range (r.h., non-condensing): 90% max

Power supply: 100-230V, 50/60Hz

Power consumption: 38W (typical when printing)

Power rating: 150 W

Weight: 24.5kg (including fluids and printhead)

### REGULATORY APPROVALS

GS, CE, EAC, NRTL, FCC

*Interval may be adjusted in certain environments and applications to provide reliable running between service module changes

**IP rating is independently verified – certificates available on request

MP42172/04

**LINX**