

Linx 8940 Spectrum



LINX

Continuous inkjet printers

The Linx 8940 Spectrum provides reliable printing with high contrast pigmented inks, onto surfaces such as plastic cabling, extruded products, and coloured glass.

Designed to print quality codes in challenging environments, and on high-speed lines, up to 10 m/s, the Linx 8940 Spectrum also incorporates advanced features and capabilities, including live message creation and editing while printing and accurate 'metre marking' for cable and wire applications. Innovative hardware increases production uptime and extends maintenance intervals, providing reliable startups, even after up to one month shutdown.

Innovative

- Best in class extended service interval of up to 8,000 hours or 12 months, with a range of inks.
- Patent-pending PureFlow® is an innovative, powerful filtration system for opaque print and a cleaner nozzle.
- Premium print quality and trouble-free restarts from patent-pending Vortex®, a robust mixing tank with a unique method of re-dispersing the settled heavy pigment.



Reliable

- Optimum performance, including in extreme environments and up to one month shutdown. The printer is ready to print first time, with no need for flushing or to be permanently powered on.
- Linx robust sealed printhead means fewer interventions and less cleaning, typically only once per week, even when running continuously.
- AutoFlush unique printhead cleaning sequence leaves the printhead and conduit clean and dry, ready for every startup.



Easy to use

- Self-service option with an on-screen wizard to guide through the servicing process.
- Simple user interface with large, icon-driven touch screen, with production-rate visibility.
- Mistake-free one-touch, fluid cartridge refills during printing.
- Linx PrinterNet® ready, for remote monitoring and control via a secure cloud-based service.



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PRINTHEAD

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



SIDE ELEVATION



FRONT ELEVATION



90° PRINTHEAD OPTION



Technical Specifications

PRINT SPEEDS AND SIZES

Printhead:	Mk11 Midi	Mk11 Midi plus
Nozzle size:	62 µm	75 µm
Lines of print:	Up to 6	Up to 6
Character height range:	1.8 to 16 mm	2.1 to 17 mm
Maximum speed for single line print (5 dot high characters):	7.50 m/s (0.469 mm drop pitch)	9.10 m/s (0.569 mm drop pitch)
Maximum speed for two line print (7 dot high characters):	-	10 m/s (0.625 mm drop pitch)
Recommended distance from printhead to substrate:	-	20 mm
Maximum number of characters per second (10 m/s speed, 0.625mm pitch):	-	2666
Recommended distance from printhead to substrate:	12 mm	20 mm
Recommended distance from printhead to substrate - for high speed cabling:	-	5 mm

HARDWARE FEATURES

- Easi-Change® Service Module, change interval: up to 12 months (8,000 hours)*
- Unique AutoFlush automatic printhead flushing and conduit clearing
- Sealed printhead typically only requires cleaning once per week**
- 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
- Fit-for-life ink pump with no scheduled changes required
- Extended shutdowns (up to 28 days) 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, zoom function and insert mode 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
- MP41283

- 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 lines settings can be stored, with individual line names
- Dynamic orientation for printing on traverse applications
- Message store and printer settings backup, copy and restore using USB storage device
- Saving remote field data over a power cycle
- Linx Remote Communications Interface for connection to PCs or PLCs using Ethernet port or optional RS232 port
- QuickSwitch® message selection, remote field update and message select-and-populate text field, using barcode scanner
- Linx PrinterNet printer health and production monitoring with remote control (VNC) (option)

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, times and date rounding (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 orientation, repeat and delay 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
- Variable character spacing for improved readability and vision system recognition
- Rotated character (tower) printing
- Reverse and inverted printing
- Accurate marking at regular intervals i.e. 'metre marking', with rollback to detect lines running backwards and high precision calculation options

- Logos and graphics can be imported into the printer as monochromatic bitmap files using the USB port
- Shift coding (message content changes automatically at defined times)
- Barcodes (ITF 2 of 5, Code 39, Code 128, EAN 13, EAN 8, UPCA, Pharmacode, Data Matrix, QR Code, RM4SCC-Type C)

PRINTHEAD OPTIONS

- 2m conduit
- 4m conduit (option)
- 90° printhead configuration (option)
- Positive air purge to printhead (provides improved reliability in dusty or humid environments) (option)
- Air dryer (provides improved reliability for certain inks at high humidity and temperature) (option)

INK RANGE

- Linx MEK base high opacity pigmented inks

CONNECTIONS/INTERFACING FOR

- Product detector
- Shaft encoder/secondary product detector
- Multiple printer triggering from single product detector/shaft encoder including quadrature encoders for directional applications
- USB – for printer settings and customer data backup, and Wi-Fi connection for Linx PrinterNet
- Ethernet - for Remote Communications Interface and Linx PrinterNet
- Volt-free contact alarm connection (e.g. for use with external mains-driven alarm) (option)
- Dual alarm output (Volt-free and/or 24V output) (option) with multi-stage alarm option
- RS232 (option) and 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: 5 – 45°C
- Humidity range (r.h., non-condensing): 90% max
- Power supply: 100-230V, 50/60Hz
- Power consumption: 38W (typical when printing)
- Power rating: 120 W
- Weight: 24.7kg (including fluids and 2m printhead)

REGULATORY APPROVALS

- CE • UKCA • UL • CAN/CSA • FCC • BIS

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

**When printing up to 16 hours a day, 5 days a week

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



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