

# WHAT IS CONTINUOUS INK JET TECHNOLOGY?

Continuous Ink Jet (CIJ) printing works by expelling electrically-charged ink droplets from a printhead nozzle and passing them through an electric field.

## INKJET DROPLET FORMATION

- Inside the chamber, the ink is pulsed by the effect of a piezoelectric crystal causing the ink jet to break up into drops.
- A charge electrode charges the individual ink drops that are required for printing as they break off from the ink jet. Those that are not needed are re-circulated.
- The charged droplets pass through an electrostatic field between the deflector plates. The combination of the speed and charge in the drops determines the drop is positioned correctly on the substrate.

Each ink droplet is tiny – just half the diameter of a human hair – and up to 120,000 of them are expelled every second. Because it’s a non-contact printing method, CIJ is versatile. It can print on most materials, regardless of porosity, size, shape or texture. What’s more, its solvent-based ink dries instantly, so it’s perfect for printing onto products as they move along the production lines.

CIJ is used mainly to print variable information on individual products – such as dates, times, specific text, batch codes, product names and logos. This is particularly useful for providing traceability data and for complying with increasingly strict industry legislation.

### CIJ: key benefits

- **Can print on almost any materials** – at most speeds, and downward, side on or from underneath/and in any orientation
- **Good printing tolerance** – even when surfaces are not flat or still (eg. wobbling bottles), and are 10mm or more away from the printhead
- **Relatively low capital costs**
- **Range of inks available**, including low evaporation, low taint and a wide spectrum of colours



## WHY LINX CIJ PRINTERS ARE BETTER FOR YOUR BUSINESS.

**Linx Continuous Ink Jet printers save you money thanks to their unique design.**

When you commission a Linx CIJ printer you will start to save immediately:

- Ink costs are reduced by using a standard nozzle size that is smaller than others
- Solvent evaporation is reduced by our unique ink system and enclosure designs
- At scheduled services, you don’t need to change expensive assemblies
- Unique printhead design and self-cleaning printhead system reduce maintenance
- All critical components in the printhead and printer are protected in everyday use
- User friendly operation helps to avoid coding mistakes and lengthy set up times
- Our step by step menus and start and stop routines encourage error-free printing.

Linx inks and accessories help our printers to fit around your unique environment. Linx inks range from very fast dry to economical low evaporation inks, UV readable inks to opaque coloured inks, and water removable to water penetrating inks.

Our team of specially trained support engineers are always ready to help you find the best solution for your needs, from printers and printheads to software, inks and accessories.



Since our first printer rolled off the line in 1987, Linx has continued to set the standard with innovative technologies that enable you to achieve more.

With three high-specification, low-maintenance ranges to choose from, you can be sure to find a Linx CIJ printer that perfectly complements your needs.

### Linx CJ400

Portable, productive printing – easy to use and maintain



- Fast, simple set up
- Print up to 3 lines of information onto almost any porous or non-porous surface
- IP53 enclosure – suitable for most environments
- Quickly set up and change printed codes with a unique, intuitive touch-screen interface
- USB port for message back-up and transfer
- Sealed printhead incorporates a valve system for clearer, cleaner startups, even after extended shutdowns
- Easi-Change® Service Module – DIY servicing in minutes without complicated manuals, and no working mechanical parts thrown away
- Ergonomically designed – weighs just 13.5kg making it easy to carry between lines

### Linx 5900 Range

Reliable performance – whatever the conditions



**5900** – upgrade as your requirements change  
**5900 Solver** – for lowest solvent consumption  
**5900BC** – for bottle coding  
**5900DC** – for dairy coding

- 3-line coding, USB message sharing, and 1000 message storage as standard
- Optional upgrade features as your line grows
- Stainless steel enclosure with minimal dirt traps and IP55 rating - suitable for a wide range of production environments
- Sealed printhead with valve system for cleaner startups, even after extended shutdowns
- Intuitive colour interface with WYSIWYG display – create, select, edit and print message correctly, first time
- Predictable maintenance scheduling with service intervals of up to 6000 hours

### Linx 7900 Range

Virtual management – for effortless productivity

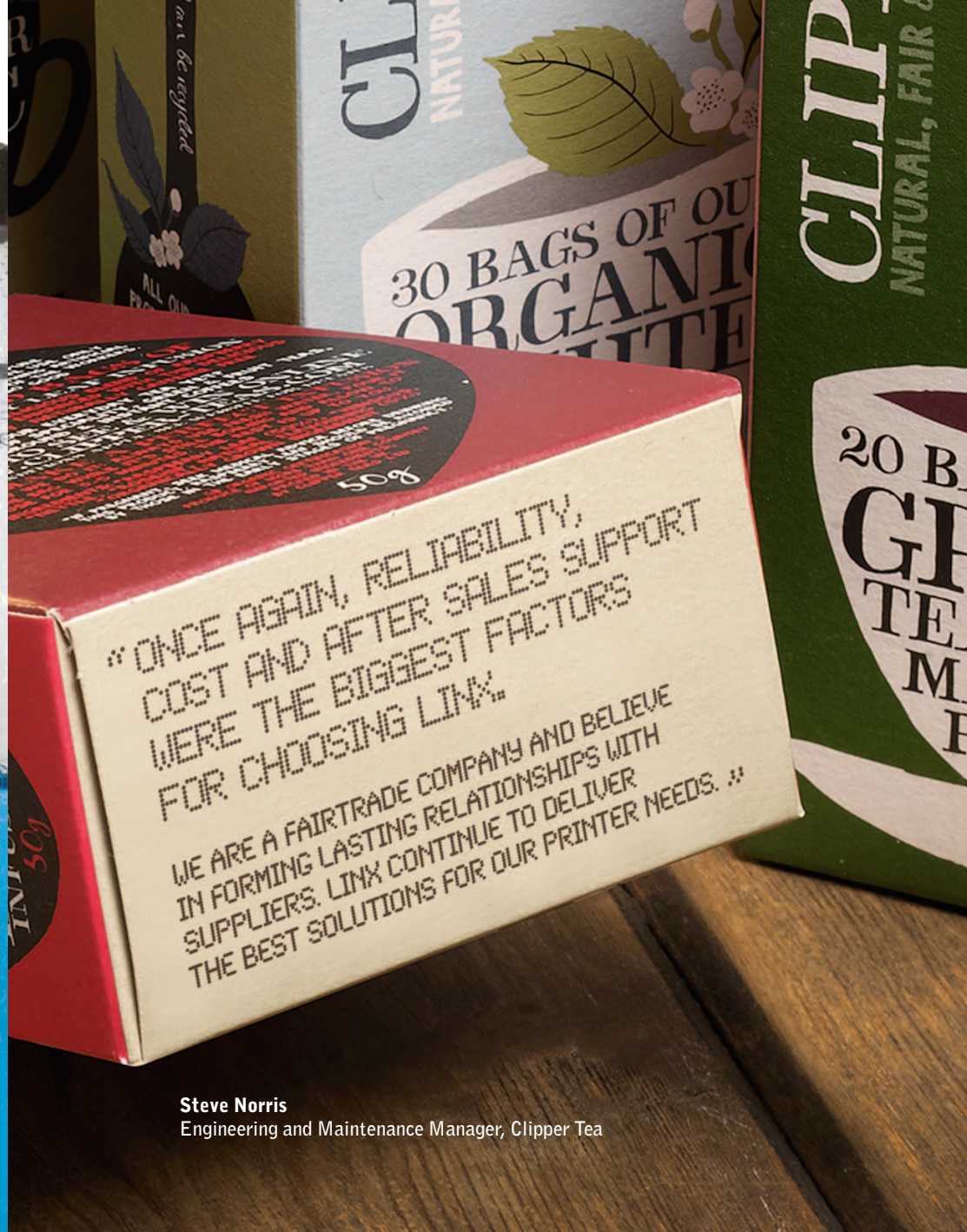


**7900** – everything you expect as standard  
**7900 Solver** – for lowest solvent consumption  
**7900 Spectrum** – for pigmented inks  
**7900 Swift** – for high speed coding  
**7900BC** – for bottle coding  
**7900FG** – for coding with food grade inks

- Extended service intervals – up to 18 months\*
- 18-month warranty\*
- Impressive versatility – code up to 5 lines, print graphics and barcodes including Data Matrix
- Create codes using a wide range of pre-defined formats
- Customisable date formats
- Stainless steel enclosure with minimal dirt traps and IP55-rating – with IP65 option – no need for compressed air supply and suitable for a wide range of production environments
- Sealed printhead with a valve system for clearer, cleaner startups, even after extended shutdowns
- Intuitive, colour interface with WYSIWYG display – create, select, edit and print messages correctly, first time
- Large message store, USB message copy and transfer
- Built-in web server for remote control and monitoring – no need for additional software

\*Excludes Spectrum/FG variants.





Steve Norris  
Engineering and Maintenance Manager, Clipper Tea



Linx is proud to provide world-class products, services and support to customers across the globe.

We're committed to meeting their needs with innovative, industry-leading solutions – and we'd love to do the same for you.

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THINKING ALONG YOUR LINES

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LINX CONTINUOUS INK JET PRINTERS