

# TORUSRANGE

High Definition Case Coders



Ice

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## High Definition Case Coders

Designed and developed in Nottinghamshire, UK, the ICE Torus range of large character inkjet printers continue to deliver state-of-the-art technology in a compact design.

The Torus combines consistent high resolution prints with a simple user interface to make message selection quick and easy. The unique self-cleaning printhead and ink micropurging process ensure the highest quality bar codes and images on every case with no ink wastage.

Designed for porous and corrugate case packaging substrates, the Torus is designed to work in even the dustiest environments and delivers an efficient solution for the lowest cost of ownership.



### Choose Torus as your intuitive, maintenance free, high definition inkjet case coder

#### Consistent, high quality printing with unique ink reclaim

- › 180dpi high definition printing for sharp text and graphics at speeds of up to 31 metres per minute.
- › No ink wastage due to the unique, patented ink reclaim system which ensures every drop of purged ink is recycled back in to the printer, allowing increased coding and lower cost of ownership.
- › Simple mess-free ink replacement during production for continuous operation.
- › Immediate changes can be made to the coding size and content meaning no label wastage or pre-printed boxes required.

#### Reliable and maintenance free

- › Maintenance free printer with no wear parts or line disruptions - just replace the ink when required and go.
- › Non-pressurised ink system eliminates potential downtime from maintenance on pumps, solenoids and other moving parts.
- › Patented self-cleaning printhead leaves the printer self-sufficient with no risk of nozzle blockages.

#### Intelligent and intuitive interface

- › Easy to learn, quick and error free icon based controls and WYSIWYG image display with the CLARiTY® coder operating system.
- › Inherent self-diagnostics, simple priming procedures and the ability to compensate for variations in packaging substrates ensure precise set-up and consistent performance.
- › Printer cloning, master/slave mode and several methods of connectivity ensure security of data being coded.



## A closer look at **CLARiTY**<sup>®</sup> Coder Operating System

CLARiTY ensures secure, streamlined management of data, minimising downtime and protecting brand integrity.



### REDUCE...

- › **Rework** by eliminating coding errors.
- › **Risk** by delivering accurate legible codes.
- › **Recalls** by consistent coding with traceability.



### Flexible and compact

- › Three models available incorporating 17mm, 50mm and 70mm printheads.
- › A small, compact unit takes up minimal space and easily integrates into existing conveyors or end-of-line packaging systems.

**PASTRY**  
**2 x 1kg**  
**AUG 06 L5048 11:31**



- › Unique date calculation manager to configure offset dates, avoidance date rules and controlled concessions.
- › Windows TrueType fonts for flexible label design.
- › Intuitive high-resolution graphical user interface with icon based controls, WYSIWYG image display and colour touchscreen.
- › Limited operator intervention required minimises risk of errors with sell-by dates, traceability codes, product variety and country of origin.
- › USB scanpoint feature allows job selection via barcode scanning with no operator intervention and no human error.
- › Network capability for plant-wide solutions when used with CLARINET

package coding network control software.

- › Transfer of data and images via a USB port.
- › Master/slave to control multiple printers from a single screen.
- › Multiple language functionality.
- › The patented generic file structure of CLARiTY ensures future compatibility with your choice of coder technology.
- › Web browser to allow seamless OEM integration and remote diagnostics.
- › Real time view of the performance of all ICE printers in the factory.



## Performance

Printer	Torus 126	Torus 380	Torus 500
Printhead	17mm High, 180dpi, 126 jets	50mm High, 180dpi, 380 jets	70mm High, 180dpi, 500 jets
Print area (per printhead)	17mm (W) x 2000mm (L)	50mm (W) x 2000mm (L)	70mm (W) x 2000mm (L)
Number of printheads	1 (4 in master/slave mode)	1 (4 in master/slave mode)	1 (4 in master/slave mode)
Self-cleaning, self-prime system	Standard (patented)	Standard (patented)	Standard (patented)
Ink reclaim system	Standard (automatic)	Standard (automatic)	Standard (automatic)
Print distance	0.5mm to 4.0mm max.	0.5mm to 4.0mm max.	0.5mm to 4.0mm max.
Print speed	0.3 - 31m/min*	0.3 - 31m/min*	0.3 - 31m/min*
Ink	Non-toxic, suitable for food packaging	Non-toxic, suitable for food packaging	Non-toxic, suitable for food packaging
Ink supply / delivery	Non-pressurised, screw-in cannister	Non-pressurised, screw-in cannister	Non-pressurised, screw-in cannister
Controller / user interface / ink cabinet	Integral to printer	Integral to printer	Integral to printer
Integral print sensor	Standard	Standard	Standard

\*Print speeds and throughput are resolution, substrate, application and set-up dependent

## General

5.7" TFT touch screen operator interface (CLARITY®)	On-board diagnostics
Full-colour LCD touch panel interface WYSIWYG print preview	On-board memory, compact flash and/or expansion card
3 levels of password protection	Off-line set up and parameter storage
Job selection and database support as standard	Multiple operator languages

## Software

CLARISOFT® image design software	Auto best before date calculation and concession management
Fixed, variable and merged text fields	User configurable drop-down list fields
Link fields to databases	Flexible date / time formats
64mb message store memory	Real-time clock functions
Formats for shift coding	Text blocks
Field orientation 0°, 90°, 180° and 270°	Auto increment/decrementing text, counters and barcodes
Mirror image printing, image rotation	Basic shape drawing
Scalable text including rotation, mirror and inverse printing	Code options: Start of the day, shift codes, factory, machine, line ID
Multiple graphic formats supported, any size up to maximum print area	Full downloadable font support for Windows TrueType (including multiple languages and Unicode support)
Barcodes EAN 8, EAN 13, UPC-A, UPC-E, Code 39, EAN128, Code 128, ITF	Day code support: Hour, day of the week, day of the month, week of the year, month of the year, year of decade and Arabic date support

## Connectivity

External inputs (fully software configurable)	Print go input (24V PNP, Volt free)
External outputs	Encoder input (24V Single/Quad)
RS232	Line select (up to 16 lines)
Ethernet	Fault output (volt free)
USB memory stick support	Warning output (24V PNP)
Binary and ASCII comms protocols and Windows drivers	Spare (24V PNP)
Host PC mode (remote database)	Master/slave unit - link up to four coders to a single controller and user interface
Server unit - fully integrate user interface into packaging machinery	Spare (24V PNP)
CLARINET® coder independent network management software	

## Services

Air supply	6 bar, 90psi, dry uncontaminated
Power supply	90 - 264V, 47-63Hz, 140VA (max.)
Operating temperature	10°-40°
(With optional heater system)	5°-40°

## Regulatory approvals

## Printer Dimensions

