TORUS *PLUS*

High Definition Case Coder Range

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Two models available incorporating 50mm and 70mm printheads.

The Torus Plus combines consistent high resolution prints with a simple user interface to make message selection quick and easy. The unique self-cleaning next generation 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 Plus is designed to integrate easily, work in even the dustiest environments and deliver an efficient solution for the lowest cost of ownership.

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

Key reasons to choose *TORUS PLUS*

1. The air-driven micro-purge ink system virtually eliminates potential downtime from maintenance on pumps, solenoids and other moving parts.

2. Self-contained highly compact unit saves space and integrates easily.

3. Top orientated display provides preferred viewing angle when mounted on a conveyor line.

4. Non-pressurised, non-drip ink canister enables ink to be changed without stopping production.

› Use of Fluid ID Number (FIN), to eliminate the possibility of the wrong ink being added.

› Wide variety of coloured inks, replacing pre-printed logos on different surfaces including corrugated boxes, paper and wood.

Additional benefits

❯ 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.

❯ Immediate changes can be made to the coding size and content meaning no label wastage or pre-printed boxes required.

❯ Line filter system reduces cleaning cycles, from 1 day to 1 month and minimises potential for ink leakage.

❯ 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, parent/child mode and several methods of connectivity ensure security of data being coded.

The benefits of micro-purge technology:

Next generation micro-purge functionality blows dirt and debris off the printhead surface, helping to remove potential blockages from the individual nozzles.

WITHOUT MICRO-PURGE

Clogs and code degradation are very visible

WITH MICRO-PURGE*

Code stays clear and highly legible

A closer look at CLARiTY® 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.

❯ 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 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.

❯ Parent/child 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 381+	Torus 501+
Print area (per printhead)	50mm (W) x 2000mm (L)	70mm (W) x 2000mm (L)
Number of printheads	1 (4 in parent/child mode)	1 (4 in parent/child mode)
Self-cleaning, self-prime system	Standard (patented)	Standard (patented)
Ink reclaim system	Standard (automatic)	Standard (automatic)
Print distance	0.5mm to 4.0mm max	0.5mm to 4.0mm max
Print speed	0.3 - 31m/min*	0.3 - 31m/min*
Ink supply / delivery	Non-pressurised, screw-in cannister	Non-pressurised, screw-in cannister
Controller / user interface / ink cabinet	Integral to printer	Integral to printer
Integral print sensor	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)	Parent/child 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

	MET N RTL	CE mark	FCC

Printer Dimensions

Torus 381+ & 501+