ZODIAC
FALCON

32 and 53mm Solid State Coder with Integrated Print Checking

RUNNING

Sainsburys

500g ℮

21 Sept

Robin Brunton, Kenya

ZODIAC
FALCON

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23 JUL
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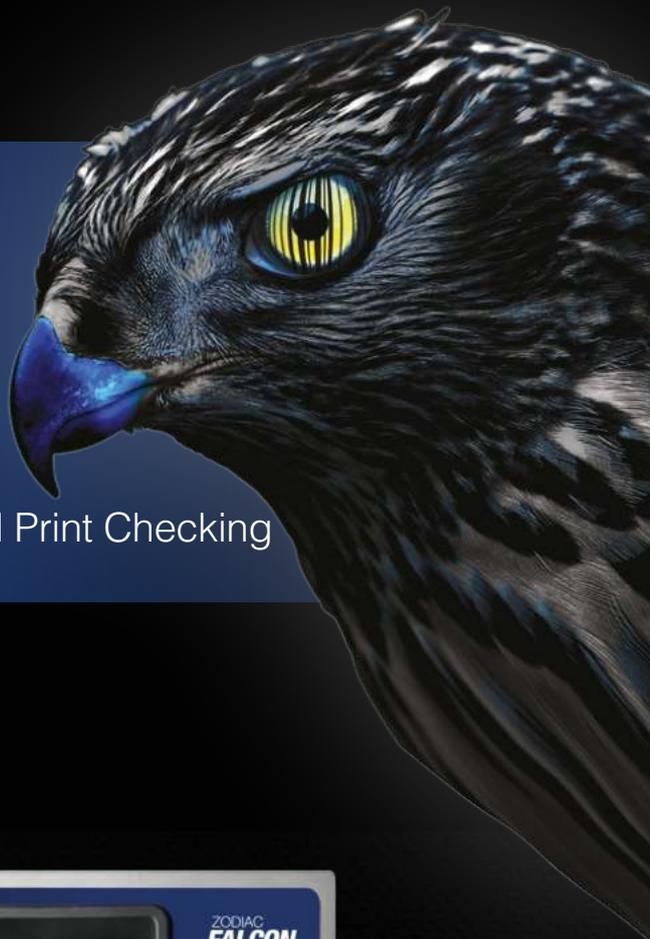
ice

An airless thermal transfer overprinter that features built-in iAssure print checking technology

The ICE Zodiac Falcon is a 32mm and 53mm TTO, which features built-in iAssure™ print-checking technology. The coder also eliminates the need for expensive compressed air, removing conventional air and energy settings that operators might over-adjust.

The ICE Zodiac Falcon is designed to be compact and modular and fits on to almost all production lines. Up to 1,200m ribbon capacity and a variety of ribbon economy modes maximises the time between ribbon changeovers, improving uptime.

› **iAssure™** - integrated print-checking technology identifies code legibility issues

› Airless, all electronic printhead design with **Intelligent Motion™**

› Modular design for OEM flexibility

› Industry-leading simple cassette with 1,200m ribbon capacity

› Top throughput up to 250 packs per minute

› Easy usability with CLARiTY™ interface to ensure the right code on the right product

Introducing iAssure™, a revolutionary integrated print checking system helping customers to minimise production disruption and downtime.

i assure enabled

HOW IT WORKS

A built in sensor creates a real time image of the negative on the printed ribbon to compare with the intended image to see if they match.

iAssure™ technology determines the type and magnitude of any mismatch and determines if the code is a pass or a fail. Once a pre-set number of consecutive fails is reached, the ICE Zodiac Falcon can signal for a product to be rejected or stop the line entirely.

At a glance iAssure™ metrics are easily viewed on the CLARiTY™ control unit to determine the productivity of the printer.

For the first time, achieve improvements in Overall Equipment Effectiveness (OEE) by reporting on performance, reliability AND quality.

Real time view of the last print

Operator alerted to address print issue

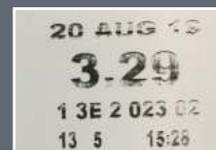Checking system, iAssure™, detects bad prints

CODE QUALITY ASSURANCE

iAssure™ technology catches common print defects quickly to avoid the accumilation of products that require rework, risk supply chain disruption, potentially incur fines or cause damage to brand reputation.
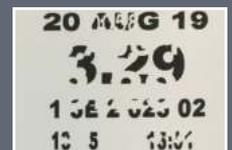
Ribbon creases	Worn print surface	Overprinting
20 AUG 1 3.29 13E 2 023 0 13 5 14 3	20 AUG 19 3.29 1 3E 2 023 02 13 5 15:28	20 AUG 19 3.29 1 3E 2 023 02 10 5 13:04

Next generation Thermal Transfer Overprinting

Our products are used widely throughout the snack food, bakery and confectionary markets, and demonstrate excellent performance in the frozen and refrigerated foods, meat and poultry, cosmetics and pharmaceutical industries.


Uptime advantage

› Reduce costs and downtime, maximise printhead life and gain consistent print quality thanks to airless Intelligent Motion™ technology

› Up to 1,200m ribbon capacity and a variety of ribbon economy modes help to maximise the time between ribbon changeovers

Built-in productivity

› Using default settings you can maintain consistent code quality and avoid conventional air and energy settings that operators might over-adjust

› Industry-leading simple cassette change designed for fast ribbon replacement to maximise uptime

› 25% faster throughput than previous ICE TTO models

Easy usability

› Small footprint with industry standard mounting features for easy integration

› Simple operator interface

› Designed to withstand tough production line environments

› Minimal wear parts are easy to change out, improving production line uptime
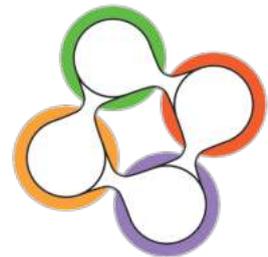
Intelligent application

› CLARiTY™ software helps to ensure that the right information is printed on the right package, time after time to meet regulatory demand

› The ICE Zodiac Falcon is capable of printing on newer flexible film package types like resealable pouches, stick packs and sachets, offering customers more choice

Intelligent maintenance

› Limited wear components are fast and easy to change to help ensure that manufacturers are up and running as quickly as possible

› The new printhead design requires no additional operator intervention to return to printing

› On-board videos guide operators through routine maintenance and operator tasks including printhead cleaning and replacement.

CLARiSUITE™

› CLARiSOFT™ label design software provides simple drag and drop editing, the flexibility of Windows TrueType fonts, multiple field types, (such as **bold**, underline and *italics*), date and time, barcodes, graphics and shapes

› CLARiNET™ networking software provides network capability for plant wide solutions and a dashboard view of printer efficiency, performance and line stoppages

CLARiSUITE™

Integrated Coding Software

CLARiTY ™

Simple operator interface

❯ High resolution user interface with icon based controls, image display and colour touchscreen

❯ Intuitive streamlined interaction and wizard tool to avoid operator error

❯ Unique date calculation manager to configure date offsets, avoidance rules and controlled concessions

❯ USB scanpoint for job selection

❯ Multiple language functionality

❯ Master/slave to control multiple printers from a single screen

❯ Compatibility with other software due to patented generic file structure

❯ At a glance, on screen real time performance data

Visual job selection

Step-by-step guided entry

Minimal choice for minimal errors

Print layout preview for confirmation

CLARiSOFT ™

Label design software

❯ Design templates with drag and drop editing

❯ Windows TrueType fonts for flexible label design

❯ Multiple field types including text (bold, underline or italics), date and time, barcodes, graphics and shapes

❯ Transfer of data and images via a USB memory device

CLARiNET™

Networking software

❯ Network capability for plant wide solutions

❯ Dashboard view for printer efficiency, performance and line stoppages
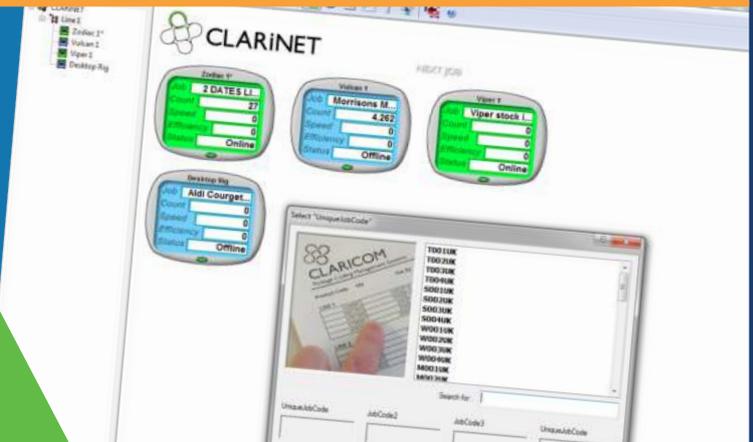
Performance

Printhead	32mm or 53mm, 300dpi, 12dot/mm
32mm print area - intermittent motion mode	32mm (W) x 75mm (L)
32mm print area - continuous motion mode	32mm (W) x 200mm (L)
53mm print area - intermittent motion mode	53mm (W) x 75mm (L)
53mm print area - continuous motion mode	53mm (W) x 200mm (L)
Ribbon width	20mm - 32mm
Maximum ribbon length	1200 metres
Print speed - Intermittent mode	10mm/sec - 750mm/sec*
Print speed - Continuous motion mode	10mm/sec - 750mm/sec*
Maximum throughput mode, standard by software	up to 250 prints per minute*
Nominal ribbon waste between successive prints	0.5mm
* Print speeds and throughput are resolution, substrate, application and set up dependent	

iAssure™ detectable defects

iAssure™ compliments existing quality control processes. It is not designed to detect all printing errors and does not read barcodes.

Damaged print platten / roller	Ribbon wrinkles
Uneven print surface	Overprints
Misaligned printhead	

General

8" TFT SVGA (800x480) full colour touch screen operator interface	Clutchless bi-directional ribbon drive
Simple ribbon webbing	Ribbon saving features - radial ribbon save, interleaved ribbon save, intermittent stripes
Multiple operator languages	Job selection and database support as standard
On-board diagnostics	3 levels of password protection
Off-line set up and parameter storage	On-board memory, compact flash and/or expansion card

Software

CLARiSOFT™ Image Design Software	Flexible data/time formats with auto best before date calculation and concession management
Full downloadable font support for Windows TrueType (including multiple languages and Unicode support)	Auto increment/decrementing text, counters and barcodes
Fixed, variable and merged text fields and text blocks	Format for shift coding
Scalable text including rotation, mirror and inverse printing	User configurable drop-down list fields
Basic shape drawing	Link fields to databases
Multiple graphic formats supported, any size up to maximum area	Field orientation 0°, 90°, 180° and 270°
Mirror image printing, image rotation	128mb message store memory
Real-time clock functions	Barcodes EAN 8, EAN 13, UPC-A, UPC-E, Code 39, EAN 128, ITF, RSS, (including 2D composite codes), DataMatrix, QR; others available on request

Connectivity

External inputs (fully software configurable)	External communications - 1 Serial port (RS232), 2 Ethernet ports, 2 USB ports, 15 Pin I/O connection, Binary and ASCII comms protocols and Windows drivers ZPL and SATO emulations
Master/slave unit - link up to 4 coders to a single controller and CLARiTYT™ control unit	CLARiNET™ coder independent network management software
Host PC Mode (remote database) using CLARiNET™	CLARiTY™ Configuration Manager
Server unit - fully integrate user interface into packaging machinery	

Services

Power supply	90 - 264V
Operating temperature	0°C - 40°C

Regulatory approvals

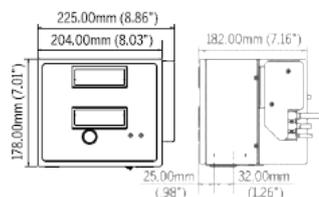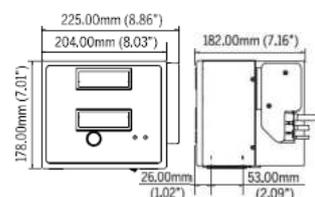|		
MET N RTL	CE Mark	FCC

Dimensions
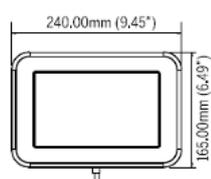
Control panel	32mm printer body	53mm printer body	Power supply

Control panel: 240.00mm (9.45"), 165.00mm (6.49"), 34.00mm (1.34")

32mm printer body: 225.00mm (8.86"), 204.00mm (8.03"), 182.00mm (7.16"), 178.00mm (7.01"), 25.00mm (.98"), 32.00mm (1.26")

53mm printer body: 225.00mm (8.86"), 204.00mm (8.03"), 182.00mm (7.16"), 178.00mm (7.01"), 26.00mm (1.02"), 53.00mm (2.09")

Power supply: 226.87mm (8.93"), 85.00mm (3.35"), 151.00mm (5.94")