Rotech

MARKING 25 YEARS OF **EXCELLENCE**

"Innovation is the ability to see change as an opportunity- not a threat"

"The pursuit of knowledge is never-ending. The day you stop seeking knowledge is the day you stop growing"

"Integrity is what we do, what we say and what we say we do"

Rotech
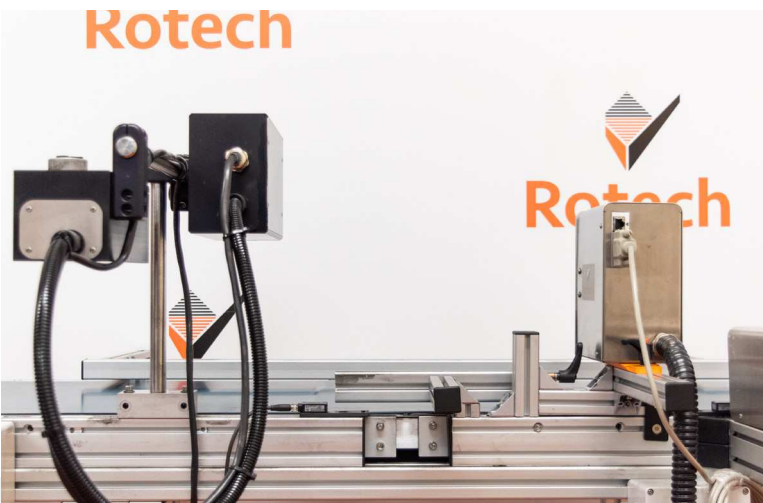### THE CODE MARK OF EXCELLENCE

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Large Area Printer Range

introduction

Remove the need for a label and print direct to your primary or secondary packaging

For reliable, large area printing onto both primary and secondary packaging, the Rotech range of Seiko printers offer the ideal solution.

These innovative systems allow for information previously carried on a label to be printed directly onto any porous surface. Be that cardboard, paper or even wood and ceramic. As a result, you save costs on consumables, printing, and the need for an application system. With the ability to print a barcode to the required standard, the savings of direct box printing are substantial.

FREEFLOW ™ and POZIFLOW

Rotech's large area printers employ a selection of two ink delivery systems to meet any installation need. These technologies offer their own unique benefits:

- **FREEFLOW ™ system which uses a gravity feed (X72 printer)**

  It is completely unaffected by its surrounding conditions, no matter how harsh they are. FREEFLOW ink systems don't require pumps or valves. The ink tank is directly connected to the printhead, allowing the head itself to pull the exact amount of ink needed, directly from the tank.

- **POZIFLOW system which uses a pumped reservoir with ink recirculation (PP108 printers)**

  This principle prevents the accumulation of air in the nozzles and ensures a permanent, clean print image without line-outs due to dropping nozzles. Installation of the ink tank can be above, below, or same level as the printhead.

"The X72 Unit proved itself very quickly- zero downtime, was easy to use and accommodated all our print data requirements. Our savings based on direct box printing versus label print and apply are more than £3.5K per year, per unit."

Rotech Seiko X72

Large area inkjet printer, ideal for high-resolution printing up to 72mm on to primary and secondary packaging.

The Rotech Seiko X72 uses unique FREEFLOW ™ technology - an open and non-pressurised ink tank system. This completely removes the need for expensive, moving parts like pumps and valves, bringing the following benefits:

✔ **Reliable, cost-effective and maintenance-free**

✔ **The printhead's lifespan is up to 6 times longer than systems that used a pressurised ink feed**

✔ **Completely unaffected by harsh or changing production environments**

COMPATIBLE WITH ALL SOFTWARE AND ERP SYSTEMS

Where other printers only work with their own brand of software, we leave the choice of software completely up to you. In essence, the Rotech Seiko X72 is an industrial PC with a printhead. Because of this, any imaginable software, connector or communication protocol is compatible and 100% industry 4.0 ready.

The use of free label design and management software on the 20cm touchscreen controller is totally optional, allowing you to choose the software and machine control method that is best suited to your particular application.

TECHNICAL SPECIFICATIONS

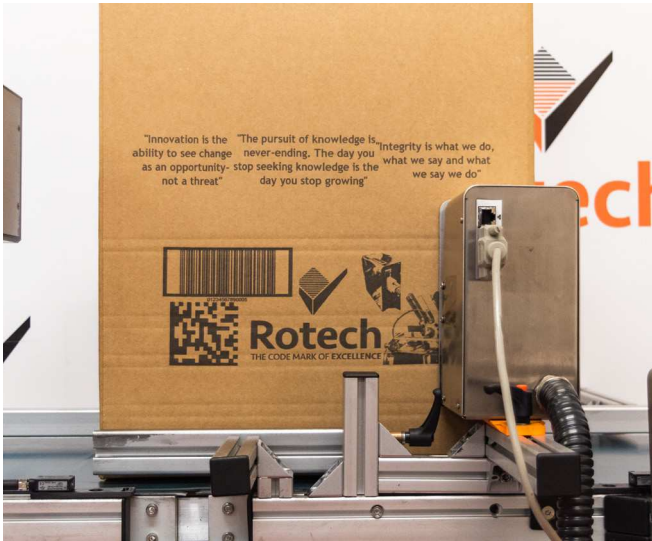|	
Printhead	Seiko 510BN
Print height	72mm
Print resolution	180 DPI
Drop size	50 Picolitre
Max. print speed	45m/min
Ink tank capacity	400ml
Omnidirectional print direction	180 degrees
Available inks	Oil-based (mineral-free) & solvent
Controller TsC20	20cm Touchscreen + Windows OS

Rotech Seiko PP108

A revolutionary, standalone print system intended for large area printing on corrugate and other porous substrates.

Designed around the new Seiko printhead technology, the PP108 large area printer incorporates the newest advances in printing technology. This allows for high speeds, intricate detail, and a crystal clear line free print, thanks to the unique POZIFLOW ink circulation system.

Automatic pressurisation adjustment allows for varied placement of the printhead to meet unique applications, and for easy integration.

BENEFITS

Relative to other piezo printers, the Seiko PP108 offers a number of benefits that set it apart from the competition, including:

✓ **Lightning fast print speeds of up to 300m/m**

✓ **High quality printing from large logo to fine text at 360 dpi**

✓ **Easy start-up and shutdown**

✓ **Greyscale palette for quality logos**

✓ **Mineral Oil Free ink, preventing contamination of both the packaging and the environment**

TECHNICAL SPECIFICATIONS

Print height	4.25 in (108mm)
Min. font size	1mm
Print resolution	360 dpi vertical
Max. print speed	492 fpm (360 dpi) / 984 fpm (180 dpi)
Print direction	horizontally or vertically down

PP108 BICOLOR

The PP108 is also available in a bicolor version. It is the first high-resolution, two-color inkjet coder in the market for porous surfaces. Including corrugate shipping cases, lumber, and paper bags.

On the bicolor unit, each of the two nozzle rows print a different color- black and red- with additional colors coming in the future.

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Case Study | Westland Horticulture Ltd.

Customer: Westland Horticulture Ltd.

Nature of Business : A leading supplier of branded horticultural products across Europe.

All budding gardeners will be very familiar with Westland Horticulture Ltd, who are a leading supplier of branded horticulture products in Europe.

Established in 1990, the business has seen huge growth over the last 30 years. Originating from Northern Ireland, Westland now have a monumental 9 separate locations across the continent. However, their Huntingdon warehouse is slightly closer to home and a familiar face of Rotech. Rooted into the Westland production line in Huntingdon, is a variety of Rotech's most prestigious printers.
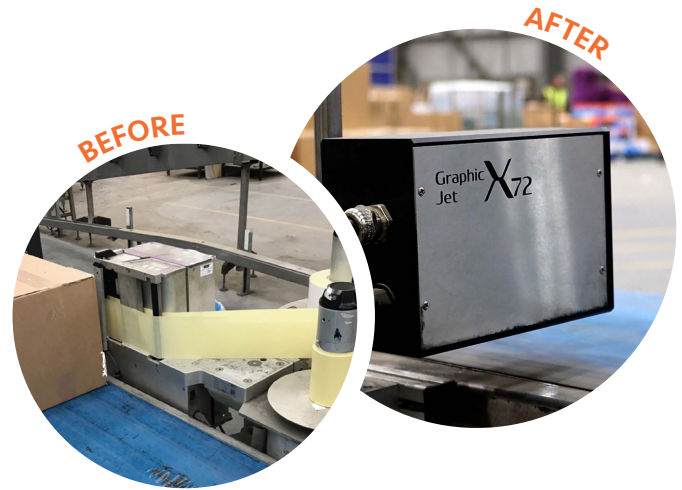
Labellers Leave Westland Wilting

Rotech approached Westland with an improved solution for their outer case label printer. The solution? An X72 large area printer.

After visiting their factory and forming strong connections in the warehouse, Steve Ryan (Rotech Sales Manager) could see that their current method of Outer-Case labelling was leading to many issues on their production line. The labellers were proving temperamental, costly, and causing issues through mislabelling and downtime.

The consensus was that the:

"existing print and apply systems were dated, unreliable, and costly to maintain as they had many moving parts. They became inefficient to operate and often caused unwanted downtime."

BEFORE

AFTER

Westland Cultivate their Packaging Process with Outer Case Printers
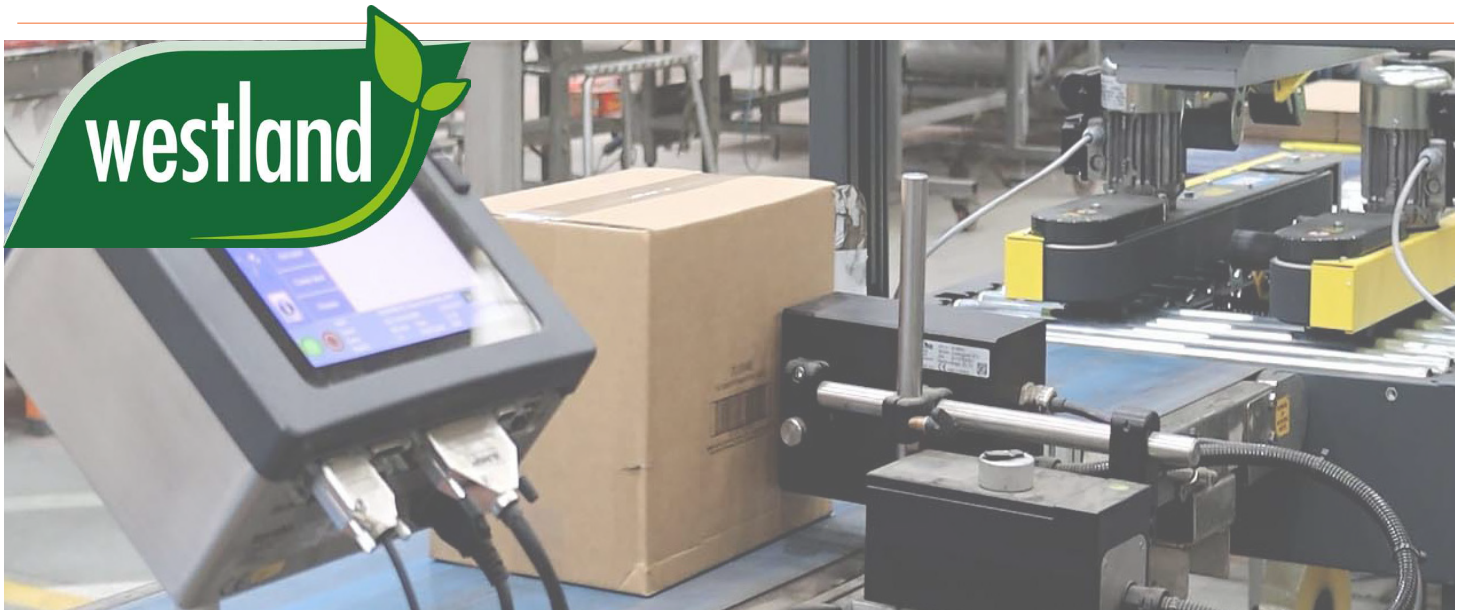
Westlands keen interest in direct box printing led to an initial trial and test period. Where the unit very quickly proved its worth internally and with Westlands external customers. Westlands Chief Engineer, shared his original thoughts of the X72 trial:

"Based on the impressive performance of the existing printing equipment that we already had on-site from Rotech (TIJ Printers for batch coding), we were very happy to investigate the potential of the X72 Outer Case Printer and agreed to a trial to ascertain the flexibility, reliability, and ease of use of the system, I am pleased to say that we were not disappointed."

It was an easy decision - Westland quickly progressed into purchasing one of the Seiko X72 units.

Case Study | Westland Horticulture Ltd.

Reap and Reward - the Benefits of a Rotech Seiko X72

The Rotech Seiko X72 uses a unique FREEFLOW® technology which explains many of the key benefits that Westland experienced. Primarily, the unit is unphased by the harsh and dusty environment that comes with handling horticultural products. It has no moving parts, so is zero maintenance and isn't messy unlike CIJ. Those benefits combined make it far more economical than any other solution.

Notably, the printed barcode, batch number and additional information forms a visually attractive code. This leaves a secure and permanent image directly on the case. Removing the labels, removes the risk of damage and labels peeling off.

All of Rotech's direct box printers will start saving you money in no time at all. Not just through the initial investment of equipment, but also through the reduction of consumables and waste. elimination of labelling errors and increased uptime on the production line.

Westlands Chief Engineer's closing thoughts, sum up the undeniable potential of the Units perfectly:

"In summary, the X72 has proved to be far more economical. Our savings based on direct box printing versus label print and apply are more than £3.5K per year, per unit. We have increased the uptime of the lines as the systems are so reliable and 'simply, do not break-down', further proving the financial benefits of investing in the units."

Outer Case Printers Helping Westland Blossom!

Currently the printer is being used to pack and palletise their popular new product 'Westland Boost All Purpose Liquid Plant Feed'. Moreover, since the success of the initial trial unit, Westland have ordered and installed a second and third system. There's no better proof of the X72's success than that.

ourstory

Founded in 1997, Rotech has grown to become one of the most respected coding and marking specialists in the UK. Our privately owned business has built a reputation of providing a valuable, end-to-end service - from consultancy and advice, through to product installation and ongoing support.

Our success is due to our expertise and our ability to listen and solve problems. No matter how small or how significant, we will always deliver the right solution in terms of efficiency, sustainability and quality engineering.

Our extensive knowledge of coding and marking technology, combined with our friendly, reliable, 'can-do' attitude, has led us to being trusted and respected by organisations right across the packaging industry, both in the UK and Internationally.

Rotech

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PPMA
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