The RF Feeder Range

MADE IN BRITAIN

introduction

British-made, innovative feeding systems

Although printing products and packaging online is nearly always favourable, it's not always the best solution. For some applications, coding offline is the better option, offering flexibility and reliability where needed.

In our range, there is a feeding system for every application. From our low cost RF Lite - ideal for start-up companies looking to automate their date coding, to our more complex RF Compliance - designed to help pharmaceutical manufacturers comply with legislations. All of our feeders are designed and built here in our UK factory to exacting standards.

When fitted with a printer and/or labeller, our feeding systems offer a complete standalone coding system, perfect for the printing and applying of variable data, such as date codes, batch numbers, barcodes and lot codes.

whygooffline?

Using an offline coding system as part of your coding process can bring many advantages, including:

- Ideal for trial products - no impact on other production lines
- One offline coding system can serve several lines
- Increase throughput if coding is currently done by hand
- Achieve consistent code positioning - even in 'hard to reach' areas
- Label and code your product all in one operation
- Reduce stock of pre-printed packaging
- Systems can easily be adjusted to accommodate varying product shapes and sizes
- Assist with seasonal peaks in production

"We sometimes get top-up orders that are much smaller than the usual production run and we need to have the flexibility to handle those too. That's no problem for the Rotech system."

RFLite

Cost-effective pouch, sleeve & carton coding

The RF Lite is a simple, low-cost offline coding system; ideal for companies looking to automate their date and batch coding process for the first time. It's also ideal for larger operators who want to install dedicated marking systems on multiple production lines.

RIGHT CODE

Fitted with maintenance-free thermal inkjet (TIJ) technology, the RF Lite is the ideal solution for printing clear, concise date and batch codes onto pouches, sleeves and cartons.

RIGHT PLACE

The RF Lite can consistently print codes onto all shapes and sizes of product ranging from 70 x 30mm* to 300 x 200mm. It only takes a few seconds to swap between sizes.

RIGHT COST

With it's comparatively low upfront cost, the RF Lite is an ideal entry-level solution for companies wanting to automate their date and batch coding process.

"This compact unit has dramatically reduced the time taken to code our cartons."

Otherbenefits

- Easy to set up and adjust, no training needed
- The RF Lite's tiny 500 x 500mm footprint means that it can be easily squeezed into tight spaces
- Money back guarantee if the system does not meet needs and expectations*
- Under our one-year warranty we can replace a broken down RF Lite unit within 24 hours*

*Subject to Rotech's terms and conditions

Dimensions	
System (includes outfeed catcher - L x W x H)	Friction: 800 x 495 x 520mm Shuttle: 800 x 495 x 520mm Pouch: 887 x 515 x 662mm
Product dimensions	MIN - Friction: 60 x 50 mm Shuttle: 70 x 30 mm Pouch: 100 x 80 mm
	MAX - Friction: 300 x 200 mm Shuttle: 350 x 150 mm Pouch: 230 x 160mm
Maximum Throughput	Friction: 400/min Shuttle: 150/min Pouch: 50/min

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RFAuto

Heavy duty, high-speed sleeve, carton and bag coding system

The RF Auto is an operator friendly coding solution, ideal for handling cartons, sleeves, pouches and bags. Due to patented auto-gating technology, the RF Auto automatically adjusts to accommodate varying thicknesses of product, leading to reduced set up time and waste.

Key**benefits**

- Quick set-up with auto-gating and quick-set hopper guides
- High throughput rates due to a large hopper infeed, with variable speed control, up to 90m/min
- Small footprint with an optional collation conveyor - the RF Auto can be configured and moved easily between lines
- High-speed while maintaining accuracy through the use of a vacuum conveyor, increasing throughput of a quality printed code

"The system's patented auto-gate feature is a real time saver."

Dimensions	
System (L x W x H)	783 x 705 x 610mm (1036 x 706 x 620mm incl. outfeed catcher)
Product dimensions	Min 30 x 80mm Max 300 x 400mm
Maximum Throughput	300/min

RF1

The most versatile model in the range

The RF1 Feeder is an integrated feeding and conveyor system, capable of handling a wide range of packaging in it's flat form. Most notably thin items such as blister cards, medical pouches and Tyvek® lidding material, making it an ideal standalone coding, marking or labelling system when fitted with RF printer and/or labeller.

Continuous operation of the feeder gives very high throughput rates at deceptively low machine speeds.

Key**benefits**

- Can be fitted with a wide range of coding, marking and labelling technologies, as well as post-print inspection systems
- Independent sensor guarantees correct product detection
- PLC control extends to the friction rollers to ensure perfect feeding and print registration
- Quick set separation and hopper guides minimise downtime
- Integral catcher-tray, for neat stacking of the product once it has been marked.

Dimensions	
System (L x W x H)	1285 x 595 x 655mm (1705 x 595 x 655mm incl. outfeed catcher)
Product dimensions	Min 60 x 50mm Max 400 x 450mm
Maximum Throughput	200/min

RFCompliance
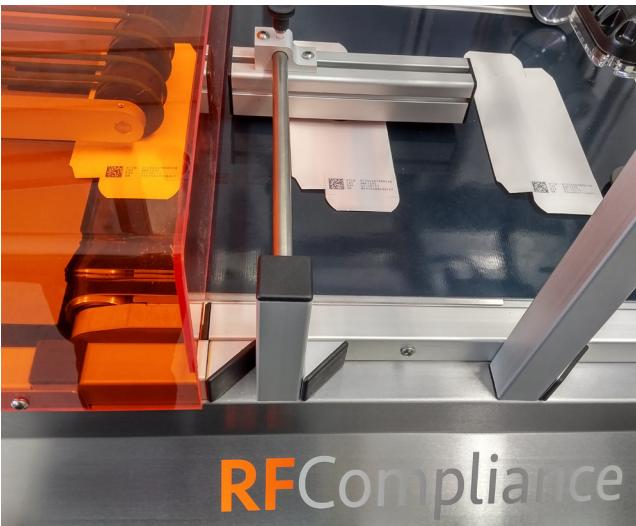
Take the complexity out of serialisation

With the ability to generate, print and verify serialised 2D codes onto a range of packaging formats, the RF Compliance offers an instant, reliable and easy-to-use solution for pharmaceutical and medical manufacturers who need to comply with the Falsified Medicines Directive (FMD).

The system comes complete with a full validation package, a reject system and a shingling conveyor to maintain high throughput.

Integral inspection of printed information and pharmacode verifies the data matrix codes and human readable information, such as expiry dates and lot codes.

To ensure superior print quality that meets the ISO/IEC 15415 quality specification the RF Compliance is supplied with a thermal inkjet (TIJ) printer as standard.

Key benefits

- Pre-printing of cartons allows for multiple lines, or even several hand-packing stations to be supplied
- Cartons go through in their flat form, eliminating any risk of the pack bulging, skewing or travelling away from the printhead
- No need to "break" a line to add a coding and inspection station
- Various inspection functions can be carried out to ensure both that the correct pack is being used and the correct information has been applied

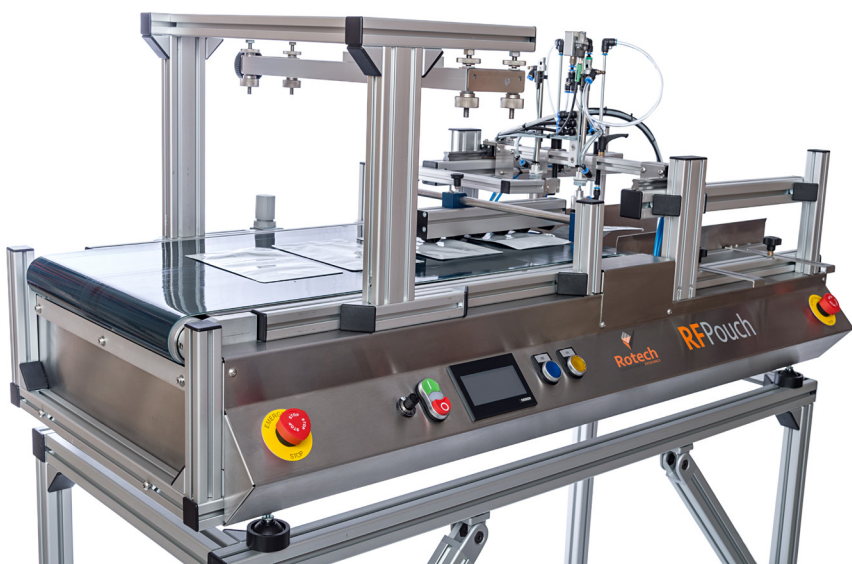| Dimensions	
System (L x W x H)	2045 x 625 x 1465mm
Product dimensions	Min 60 x 70mm Max 350 x 350mm
Product thickness	Min 60g/sqm (paper weight) Max 4mm
Maximum Throughput	160/min (pending final specification)

RFPouch

Pouch and bag coding or labelling solution

The RF Pouch offers the ideal solution for the automatic feeding, printing and/or labelling of resealable pouches, polybags and asymmetric products.

Using vacuum (pick and place) technology, the RF Pouch can transport a wide range of pouches and other flexible packaging. The system picks a product from a stack, places it onto a conveyor for printing and/or labelling before transferring the marked pack neatly onto another stack, ready for collection.

Continuous operation of the feeder gives very high throughput rates at deceptively low machine speeds.

Key benefits

- Unique feeding system for flexible packaging
- Versatile vacuum cups with quick adjustment, minimising downtime
- Can be fitted with a wide range of coding, marking and labelling technologies, as well as post-print inspection systems

Dimensions	
System (L x W x H)	1285 x 595 x 475mm (2235 x 595 x 475mm incl. catcher and refill system)
Product dimensions	Min 60 x 60mm Max 350 x 350mm
Product thickness	Min 30 microns (polythene bag) Max 2mm (dependent on weight)
Throughput	40/min (pending final specification)

RFCase

Automatic outer case feeding solution

The RF Case offers the ideal solution for the automatic feeding of outer case packaging (boxes) in their flat form.

The RF Case has been designed to handle a range of outer case secondary packaging. It's twin conveyor design allows for the easy separation of boxes onto the conveyor, so they can be individually printed or labelled, ready for operator removal.

Continuous operation of the feeder gives very high throughput rates at deceptively low machine speeds.

Dimensions	
System (L x W x H)	2020 x 530 x 1575
Product dimensions	Min 200 x 200mm Max 700 x 500mm
Box thickness	Min 3mm
Throughput	18m/min linear speed

Key benefits

- Twin conveyor design to separate boxes
- Modular framework design
- Easily adjustable for different sized boxes
- Fixed speed drive (preset value can be changed)
- Compatible with a wide range of coding, marking and labelling technologies, as well as post-print inspection systems

Bespoke systems

Made to meet exact needs of a customers application

Although our standard range of systems are able to fit the majority of our customers needs, there are occasions where a custom solution may be required to meet a specific application; for example, coding an exceptionally wide or narrow product.

As all of our systems are designed and built in house by our team of skilled engineers, we are able to modify our range to meet particular requirements.

Feeder accessories

To ensure that you get the best out of your offline coding system, we can supply a wide range of accessories and add-ons, including:

- **Extended infeed/outfeed-** using the friction feeder, 1m long medical pouches have been automatically fed and printed
- **Shingling conveyors -** an additional variable speed conveyor. Particularly useful for feeding cartons and sleeves at high speed
- **Reject system -** an in-line reject that works with a vision system to reject incorrectly marked products
- **Validation packages -** to aid with system integration into pharmaceutical sites

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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