

Pre and Post Processing Systems



matifi
Orion Solutions

Product Information



Product Information



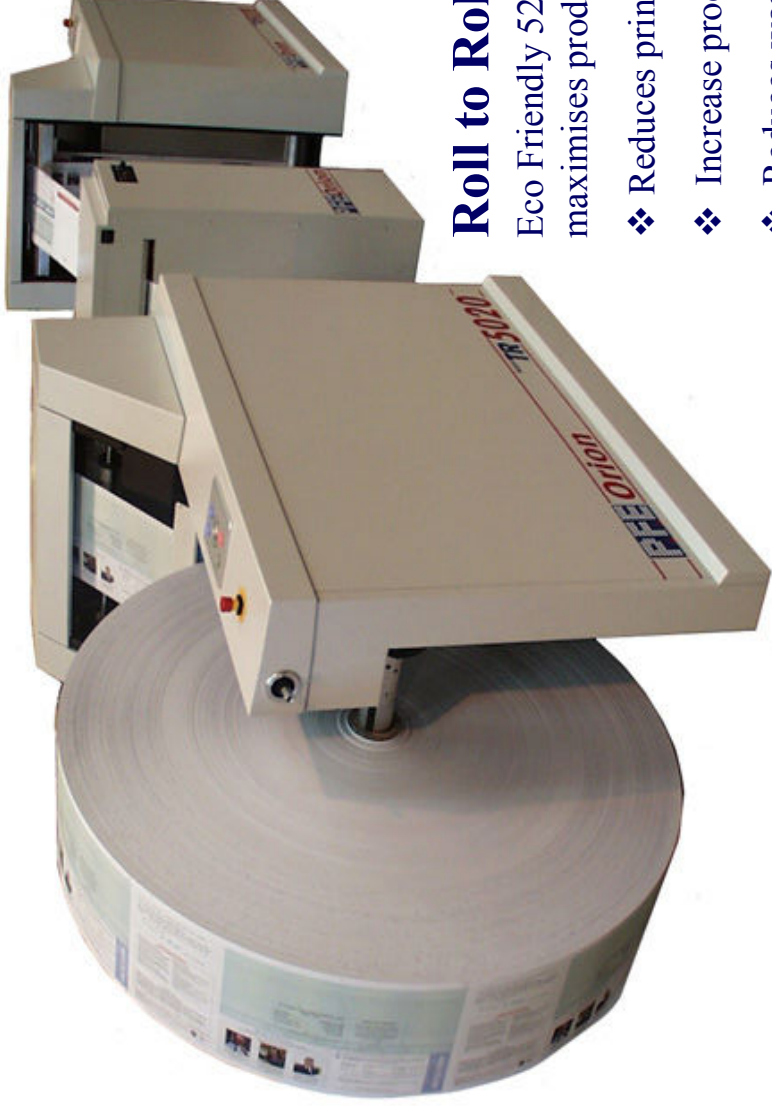
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Product Information



Roll to Roll System

Eco Friendly 52" Roll to Roll System that maximises productivity and minimises costs

- ❖ Reduces printer down time
- ❖ Increase productivity
- ❖ Reduces waste
- ❖ Increases security
- ❖ ECO Friendly. Minimum power requirements



Product Information



**Unwind unit
Model 5020**



**Rewind unit
Model TR5020**

What is the Matti **Orion** Roll to Roll System.

Orion Solutions Roll System is an efficient Paper Transport system designed to maximize the paper throughput of the latest high-speed digital printers.

The system can unwind high volume reels, capable of feeding digital printers at speeds of up to 150 meters per minute. Then rewind the digitally printed stock into high quality reels for subsequent processing.

Compatible with all digital printers and other host devices requiring tensionless paper input and output. Each roll stand is capable of unwinding/rewinding reels of up to 52" in diameter in either clockwise or anti-clockwise direction. This feature ensures users can produce reels of finished stock in the correct orientation.

Simple in use, yet sophisticated, the system has many unique features that reduce operator effort, minimise wastage, improve quality whilst maintaining very high safety standards.





Product Information



Systems with Ink Jet printers

Typical applications

Paper Handling and
Converting Systems



Dynamic Laser Printer
applications.





Product Information

Features

- ❖ Automatic Loading and Unloading to the Floor
- ❖ Reel shaft automatically locked into position when loading
- ❖ Reversible direction unwinding and rewinding.
- ❖ Auto direction sensing
- ❖ Supplied complete with Airshaft.
- ❖ Automatic speed sensing.
- ❖ Tensionless output, controlled by loop height detection
- ❖ Single loop control
- ❖ User friendly operator interface with multi coloured display.
- ❖ Quick, simple paper thread up, Ergonomic design.
- ❖ Mounted on wheels for mobility.
- ❖ Built in web break detection

Benefits

- ❖ Low cost of ownership
- ❖ Eco friendly very low power consumption
- ❖ High volume reels can be produced for subsequent processing, reduces production errors and improves quality.
- ❖ Increased document security, individual documents within the reel can not be removed
- ❖ Powered reel loading and unloading to the Floor, minimum printer downtime and improves safety
- ❖ Run a true “lights out” operation in the print room.
- ❖ Increased document throughput.
- ❖ Reduce operator intervention
- ❖ Units are mobile and can be simply pushed for use in different applications
- ❖ Easy quick reel changes minimise down time and wastage.
- ❖ Small foot print and low height allows unimpeded view of process area.
- ❖ Compatible with high speed printers in excess of 150 mtrs / minute





Product Information



CF20 Continuous Folder

The most adaptable folder that can handle the widest range of paper stocks whilst maintaining maximum continuous productivity and minimising costs

- ❖ Multi document fold depths.
- ❖ Handles a wide range of substrates.
- ❖ Front and rear spirals ensure trouble free operation reducing printer downtime.
- ❖ Diverse options package, field upgradable



Product Information



What is the **Matti Orion** Folder?

Orion Solutions Folder is an extremely reliable and efficient continuous spiral folder. Capable of folding the most diverse paper stocks into a continuous stream.

The unit can be used with any digital printer or host device operation up to speeds of 250 mtrs per minute depending on series. It can refold pre folded stock or fold perforated stock from a reel. Subject to specification the unit can function off-line or be built into an integrated system.

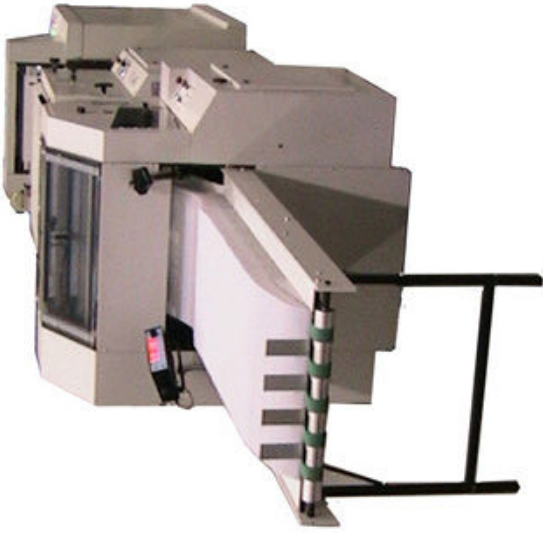
When utilising the options packages the folder can be configured to maximise high, medium or low volume continuous production requirements. From small packs to high pile stacks FIFO (First in First Out) it can also be connected in line to a high-speed inserter.

Simple in use, yet offering the capability of handling a wide range of stock types, formats and weights, second to none.





Product Information



Paper Processing and
Converting Systems

Typical applications



Dynamic Laser Printer
applications.



Built into systems with Ink
Jet printers

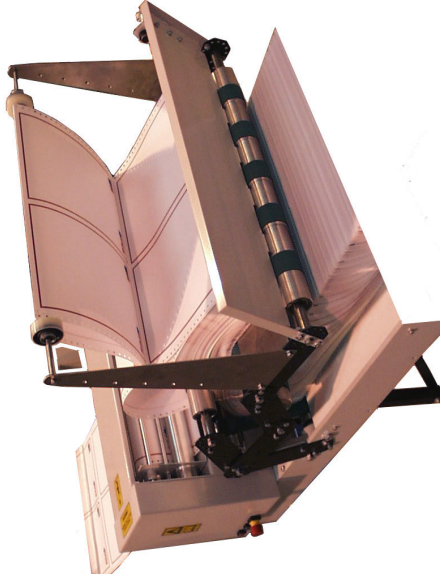
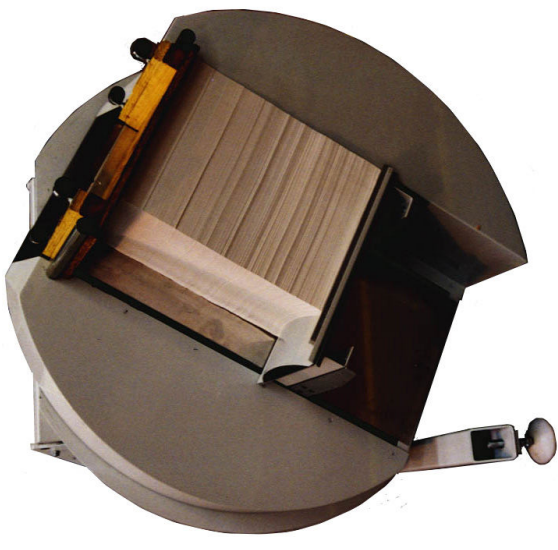




Product Information

A free standing high pile stacker turner the unit is normally installed near to the delivery of the CF20 folder. This allows the documents to be stacked in high piles 30” high. The packs can then be turned 180° and removed from the High Pile Stacker Turner on Stacking Table Dolly’s. The documents can now be easily pushed to their next operation.

Application Options



A FIFO allows the first document printed to be the first document into the next process. This can be either used as an on-line process or produce removable packs which can be simply moved to the next operation. Extremely useful in applications where time is the most critical factor.



Product Information

The vertical stacker operates in harmony with the CF20 continuous folder and is mounted at the end of the delivery table. As the documents are folded they are fed onto the delivery table in shingled fashion. As the folder continues its operation the delivery table transfers the documents onto the pack dolly which is installed in the vertical stacker as the stack builds up the vertical stacker automatically lowers. The vertical stacker can hold up to 3,000 to 6000 folded sheets depending on paperweight. The pack dolly is then lowered to the floor and is simply pushed to the next process line. Other pack dollies can be loaded into the vertical stacker without stopping the line.

Application Options



The Extension Table Conveyor is normally 2 meters long. The table is used as an accumulator allowing the print line to operate for longer periods of time with out operator intervention.



Product Information

Features

- ❖ Supplied complete with customer choice of 3 fold depths
- ❖ Fast make ready features
- ❖ Simple document loading for quick start up
- ❖ Automatic speed sensing.
- ❖ Tensionless input controlled by loop height detection
- ❖ User friendly operator interface.
- ❖ Quick, simple paper thread up, Ergonomic design.
- ❖ Mounted on wheels for mobility.
- ❖ Built in web break detection
- ❖ Operating parameters fully adjustable

Benefits

- ❖ Multi document fold depths
- ❖ Easy start up
- ❖ Handles wide range of paper weights
- ❖ Robust construction.
- ❖ Units are mobile and can be simply pushed for use in different applications
- ❖ Small foot print and low height allows unimpeded view of process area.
- ❖ Compatible with high speed host devices, capable of operating at
- ❖ Speeds in excess of 200 mtrs/minute





Product Information



BPP Punch Perforator

The most flexible paper processor that satisfies today's demanding paper specifications whilst maximising productivity and minimising costs

- ❖ Reduces paper cost by 10 to 30 % depending on paper type and requirements.
- ❖ Reduces paper inventory.
- ❖ Reduces printer downtime.



Product Information



What is the Matti **Orion** Punch Perforator.

Orion Solutions Punch Perforator is an efficient Paper Transformer designed to offer its users innovated solutions in converting plain mill paper stocks into specialist stocks on-line with the latest high-speed digital printers.

When used in-conjunction with a roll feed such as the PFE Orion TU5020 the paper processor is capable of feeding a laser printer at speeds in excess of 100 meters per minute. Producing sprocket punched, cross perforated, vertically perforated and file hole-punched stock. Compatible with all digital printers and other host devices requiring converted paper stocks.

The BPP20 can be configured as a pre or post-processing device, can be used in pinless or pinned stock applications. Utilising the configuration options the device can also produce label stock incorporating matrix waste rewinder.

Simple in use, yet using the various options can offer sophisticated solutions. The system has been designed to reduce operator effort, minimise wastage, improve quality whilst achieving the customers requirement for lower paper costs.





Product Information

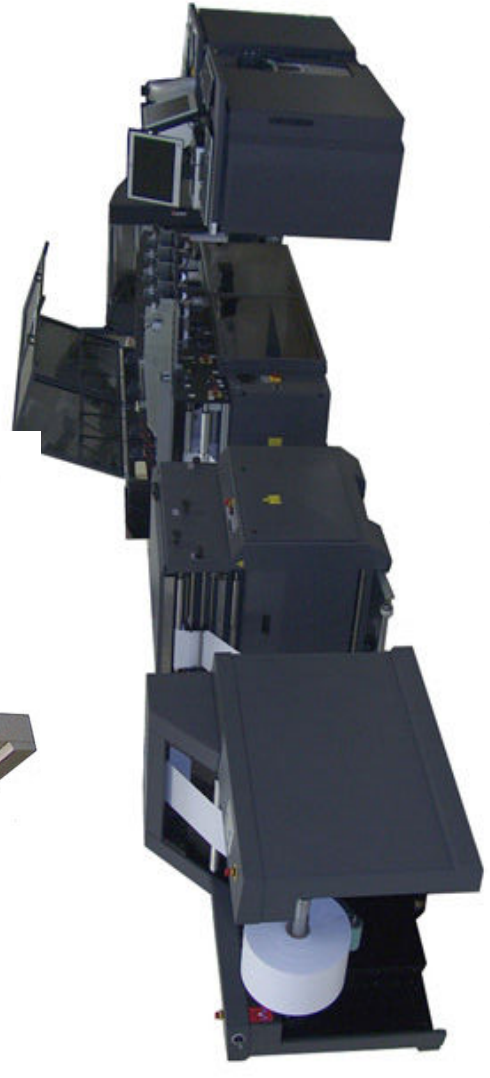
Paper and Label Stock
Converting Systems



Typical applications



Laser Printer Applications.



Part of complex Ink Jet Printers
Systems

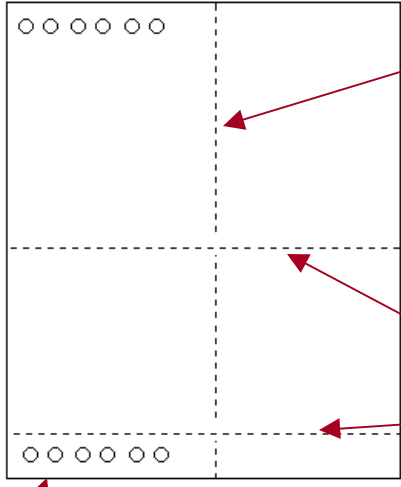




Product Information

Applications

Sprocket punching, horizontal and vertical perforations.



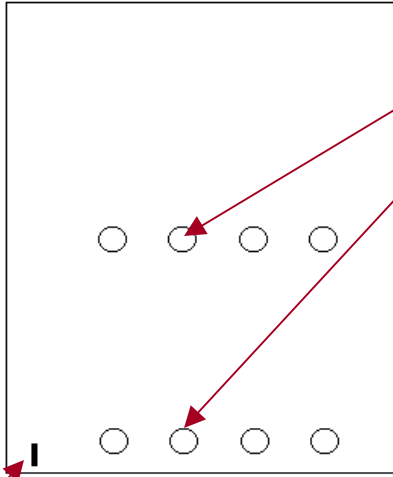
Vertical Perforations

Horizontal Perforations

Sprocket punching

Pinless file hole with optical mark

Optical Mark



File hole

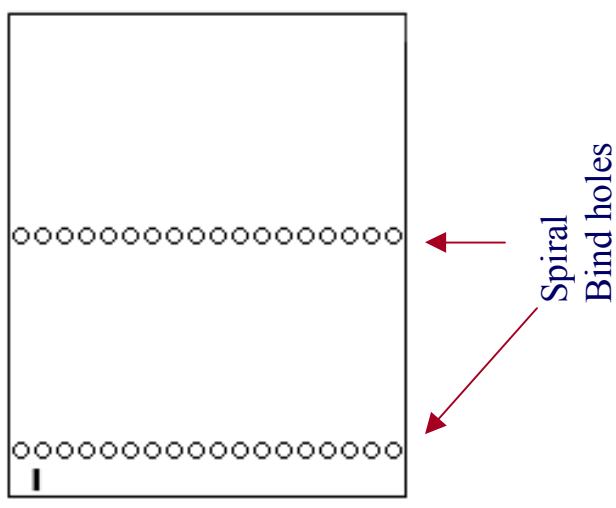




Product Information

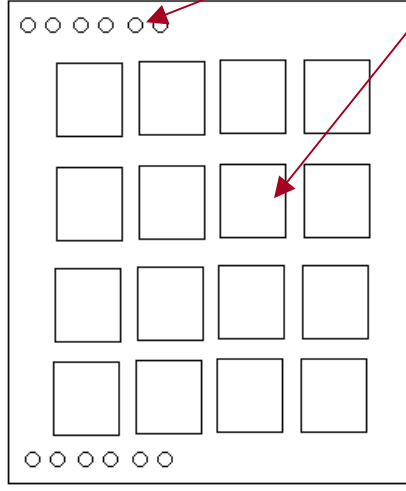
Applications

Pinless "Spiral Bind" hole with optical mark



Optical Mark

Die cutting





Product Information



Features

- ❖ Paper length control
- ❖ Tungsten carbide tooling
- ❖ Automatic speed sensing.
- ❖ Tensionless output
- ❖ Multi reeve dancing arm speed control
- ❖ User friendly operator interface with multi coloured display.
- ❖ Quick, simple paper thread up, Ergonomic design.
- ❖ Mounted on wheels for mobility.
- ❖ Built in web break detection
- ❖ Up to three different paper converting processes in one unit



Benefits

- ❖ In house production of correct sizes base stock
- ❖ Up to 30% reducing in paper costs
- ❖ Quick return on investments
- ❖ Reduced paper inventories.
- ❖ Eliminates time wasted in waiting for converted base stock on urgent jobs
- ❖ Gives in-house control over stock production, guarantees system is compatible
- ❖ Units are mobile and can be simply pushed for use in different applications
- ❖ Small foot print and low height allows unimpeded view of process area.
- ❖ Compatible with high speed printers in excess of 100 mtrs / minute





Product Information



DPU Dynamic Perforator

A very Versatile dynamic perforator that meets today's demanding itemised billing applications whilst maximising productivity and minimising costs

- ❖ High speed conditional perforations.
- ❖ Horizontal and vertical applications.
- ❖ Maximises printer uptime.
- ❖ Tensionless and Tensioned types





Product Information



What is the Matti **Orion** Dynamic Perforator. Orion Solutions Dynamic Perforator is a module, which can add conditional perforations to documents downstream of a high-speed digital printer.

The dynamic perforator can be configured to add horizontal perforations, vertical perforations or both.

Perforations can be added to every document, or selectively to specific documents by mark reading or electronic signals.

A common application is the perforation of tear off remittance documents (giros), where a bill may be accompanied by other unperforated documents such as itemised telephone bills

Compatible with digital printers and other host devices both on-line and off.





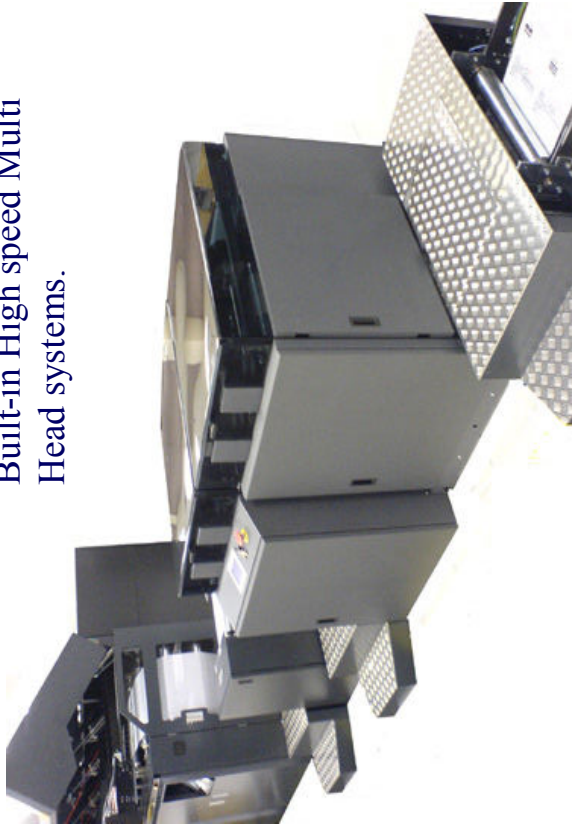
Product Information

High speed inkjet Applications.



Typical applications

Built-in High speed Multi Head systems.

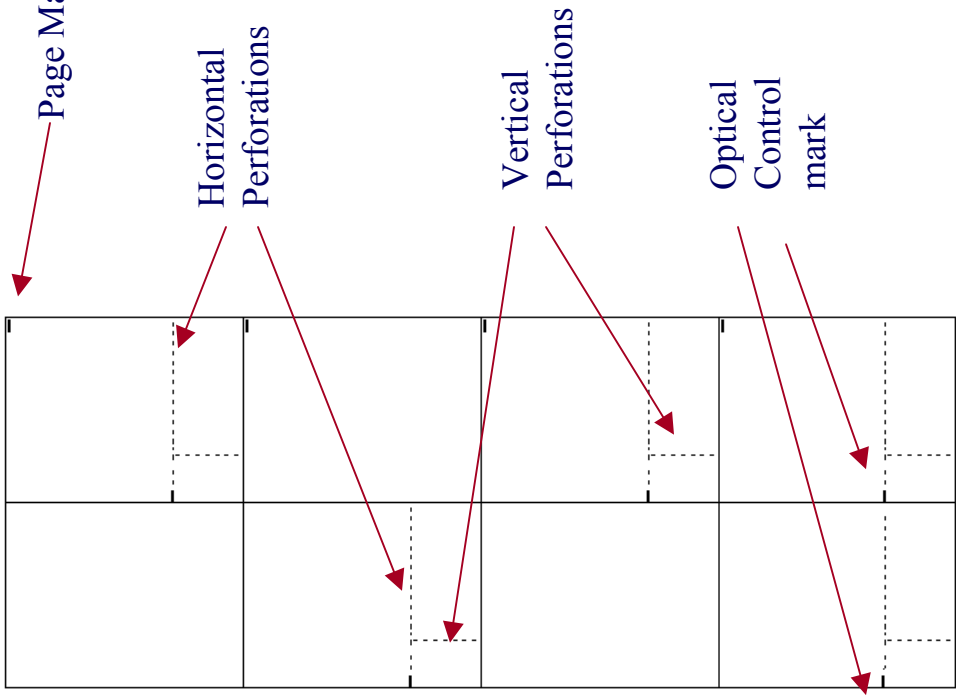


Laser Printer Solutions.



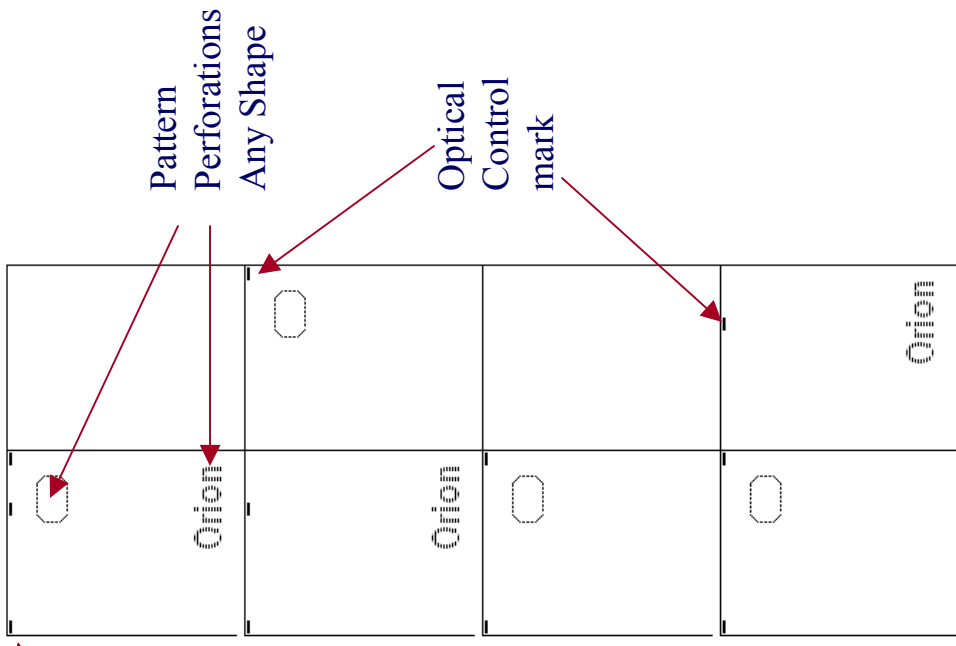


Product Information



Page Mark

Applications





Product Information



Features

- ❖ Tensionless loop control
- ❖ Automatic speed sensing.
- ❖ Conventional tooling
- ❖ User friendly operator interface with multi coloured display.
- ❖ Quick, simple paper thread up, Ergonomic design.
- ❖ Mounted on wheels for mobility.
- ❖ Built in web break detection
- ❖ Programmable vertical perforation length.
- ❖ Quick blade change tooling.
- ❖ Independent controls can be used off-line
- ❖ Single or dual width working



Benefits

- ❖ On-line selective horizontal and vertical perforations
- ❖ Allows selective documents to be processed on-line with high-speed digital printers.
- ❖ Different perforation patterns can be processed using industry standard tooling
- ❖ Reduced Printer downtime.
- ❖ Units are mobile and can be simply pushed for use in different applications
- ❖ Small foot print and low height allows unimpeded view of process area.
- ❖ Compatible with high speed printers in excess of 100 mtrs / minute