



Jenton Group

Excellence in production line automation, packaging and UV

Excellence in Food Packaging Automation



Jenton *ariana*

Ariana became part of the Jenton Group in 2005. Jenton Ariana are specialists in food packaging automation including convergers, seal testers, stackers, pad placers and line control.

Jenton Ariana equipment works in line, at high speed, with rollstock thermoformers and tray top sealers. 2/3 and 2/3/4 lane switchable converges are available. Random infeed and wet products can be accommodated. Stackers can stack for banding or batching. Jenton Ariana understands that line length = cost. Systems are compact and easy to use and maintain.

Jenton Ariana offers bespoke design possibilities, whether customers are retail, manufacturing or production orientated. Our design team is always ready to discuss your application. All our products started life as a solution to someone's problem.

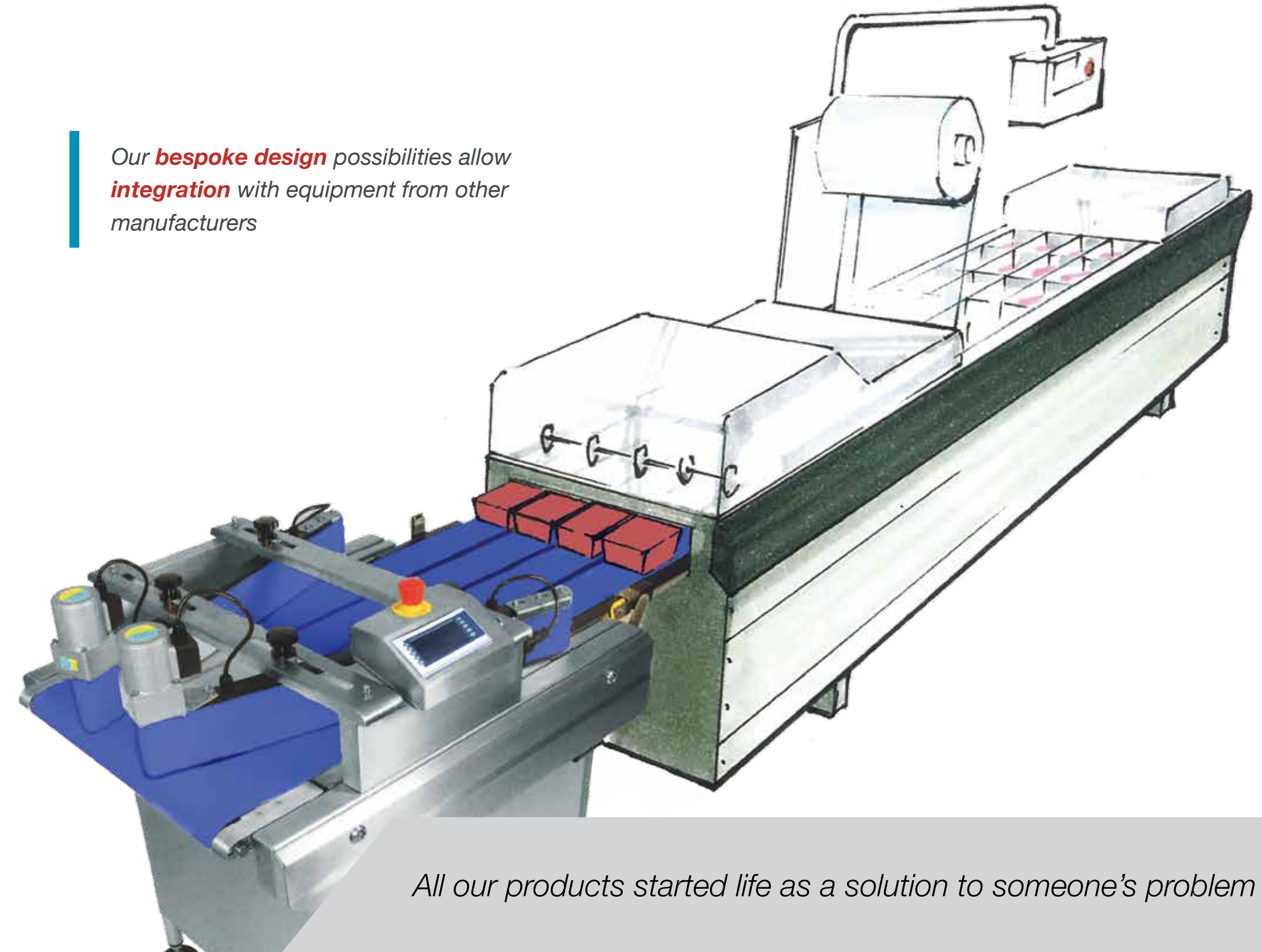
Jenton is a ISO 9001 company. All machines are designed and manufactured at our facilities in Hampshire, England to the highest professional standards using food grade materials.

Food packaging automation including convergers, seal testers, stackers, pad placers and line control

Jenton Ariana manufacture a wide variety of automatic stacking systems



Our **bespoke design** possibilities allow **integration** with equipment from other manufacturers



All our products started life as a solution to someone's problem

Packleader BCS / BCS-R Convergents / In-Liners



The Packleader BCS range of high speed convergers is designed to make multi-lane production of thermoformed packs and converge them at accurate spacing into a single lane.

Packleader BCS-R systems will converge packs that arrive randomly from irregular sources such as multiple packaging machine lines.

Packleader BCS-W are systems for operation in wet environments (all systems are washdown).

Benefits include:

- Variable pack height, constant line height
- No tooling changes
- Integrates directly to thermoformers, checkweighers etc.
- Random infeed possible
- Minimum addition to line length (1140mm)
- High speed controlled converging maximises performance of metal detector checkweighers etc.
- Multiple infeed belts for quick format-change

Automatic converging from Jenton Arianas is the **shortest, fastest** and yet most **economical** solution **suitable for almost all** pack sizes, types, speeds and formats, wet or dry.

2/3 lane converger
set for 2 lane

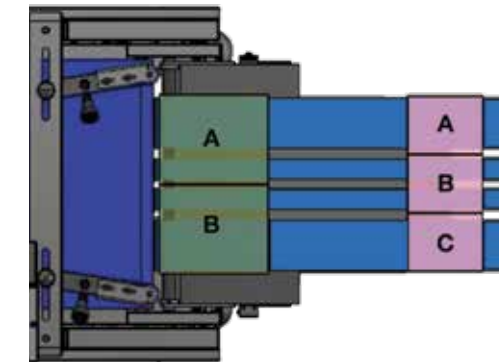


Features

- Colour touchscreen HMI (B&R)
- Menus for pack formats, belt speeds and pack gaps
- High Speed - up to 180 packs per minute
- Store up to 99 pack format settings
- Remote operation capability
- Self tracking belts

Advantages

- Fast and simple belt change & cleaning minimizes downtime
- Quick access to motors and drives
- Industry standard components
- Easy washdown
- Up to IP67 protection



Jenton Arianas wet drive converger for areas where belts will remain wet during production

Converge multi-lane production into a single lane

VCS Stacker Range



Jenton ariana

Precise stacking for banding or robot loading. Batch stacking for box / hand loading

The fastest automatic stacker of their type, achieving speeds of up to 180 packs per minute.

The colour touch screen / HMI makes machines very easy to set for a large variety of pack sizes and stack heights, and all settings can be arranged in menu format.

The VCS & VCS 2 high speed stacker is the ideal solution for end-of-line high speed collation where minimal operator intervention and reliability are critical.



VCS 2 - High Speed
Food Pack Stacker

Advantages

- High reliability stacking
- Continuous or batched outfeed
- Very quick setup
- Up to IP67 protection
- High speed - up to 180 packs per minute



Features

- Colour touchscreen / HMI for simple setup and use
- Independent infeed and outfeed conveyor heights
- Self tracking belts
- All stainless steel construction
- Easy access

Benefits

- High speed stacking with minimal operator interaction
- Suitable for a very large range of pack sizes
- Continuous or pulsed outfeed belt for easy product handling

The VCS range of stackers are **versatile, simple to use** and most importantly, **tolerant of pack variability**



VCS 4 - Indexing
Flighted Belt Stacker

Ideal solution for end-of-line high speed collation



VCS 1 - High Speed
Pack Collator Stacker

Automatic Seal Tester and Converger



Jenton **ariana**

Fast and accurate

This pressure plate based system can be used as part of the production process to test packs with a gas or air headspace for leaks and also ensure accurate pack heights for final packaging. The system is able to test packs from thermoformers running at up to 15 cycles per minute or 180 packs per minute from a tray sealer. Every pack is tested then most importantly, it only rejects faulty packs NOT the whole format.

The seal tester tests gas flushed MAP/CAP packs for leaks, over-gas and under-gas. 100% of packs are tested and faulty packs are rejected into a separate bin whilst the good packs are converged into a single line.

Alarms can be raised on the above faults and also on SPC data, such as the same pack in the format failing each time – possibly indicating fault location.

Rejected packs remain in high care so can be repacked saving CO2.

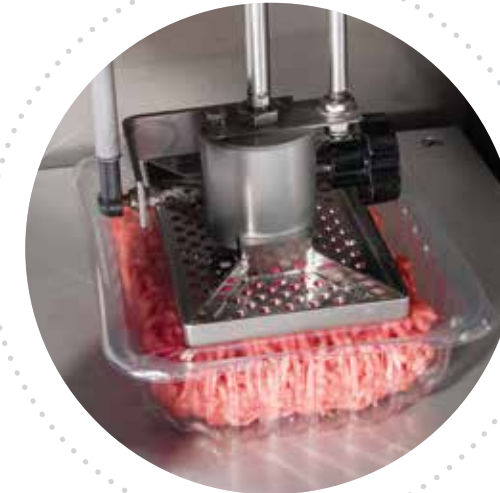
Jenton Ariana In-line seal tester and converger



Advantages

- Large, easy to use colour touch screen
- Simple new pack setup
- Easy to maintain including rapid belt change
- Up to IP67 protection
- Recipes of different packs stored for instant setup

The Jenton Ariana seal tester not only tests for seal faults but also over-gas and under-gas



Features

- Tests up to 180 packs per minute
- Will not slow thermoformer down at 15 cycles per minute
- Detects seal faults (equivalent to pin hole <0.3mm)
- Tests for under and over gas
- Rejects single leaking packs only
- Rejected packs are fed into a lockable bin
- Converges goods for metal detection, checkweighing etc.

Benefits

- Practically eliminates shipping leaking packs
- Maintains sell by dates
- Will not slow down production line speed
- Removes need for extra converger / singlizer
- Helps maintain optimum pack gas fill
- No need for manual pack testing
- Provides statistical information on pack failure for statistical production monitoring



Test up to 180 packs per minute

Automatic Pad Placers for Tray Sealers and Thermoformers



Jenton ariana

Our machines are designed to have as small a footprint as possible and yet are capable of loading up to 180 pads per minute.

NEW
Plastic free
pads
available

Jenton Ariana 'Autopad'

Our biggest selling padding machine is the Autopad pad placer for tray sealers using pre-cut pads. The interchangeable pad cassettes make this machine ideal for multi product lines, even when a variety of pads are used. Changeover of cartridges from one size to another takes only a couple of seconds.

Advantages

- Very easy to set up using the colour touchscreen
- Simple connection to tray sealer / thermoformer
- Minimum footprint
- Very simple with easy access

The Automatic Pad Placer is without doubt the most efficient way to ensure complete pad placing in trays



Features

- Operates at approx 20-25 cycles per minute
- Machines are available for pre-cut and roll-fed material
- Pad missing / misfeed alarm
- All stainless steel construction up to IP67

Benefits

- Practically eliminates trays without pads
- Most hygienic pad placing eliminates manual pad placing
- 'Fit and forget' operations



Jenton Ariana,
Autopad

Interchangeable pad cassettes make this ideal for multi product lines

Excellence in UV Disinfection



JenAct

JenAct has been at the forefront of germicidal UV innovation since the 1990s. Our specialisation is the efficient generation of UV for germicidal and odour removal applications in HVAC, food and pharmaceutical industries.

UV disinfection of pathogens prevents spoilage, allows longer shelf lives of food products, reduces product recalls and improves end customer satisfaction as a result.

Our product portfolio includes:

- ✓ **UV decontamination conveyors** for transfer between low-risk and high-risk areas in food production environments
- ✓ **UV air disinfection devices** for proven and reliable air disinfection in most demanding environments such as food production areas, cold storage and meat drying rooms
- ✓ **UV Torpedo® and UV Crossbow® systems** for in-duct UV air disinfection in HVAC applications



UV Disinfection Conveyor

Up to
99.99%
reduction of microorganisms



UV Crossbow® system
for HVAC applications

UV Decontamination Tunnel



JenAct

Ideal solution for transfer from low-risk to high-risk areas

Our bespoke UV disinfection conveyors and tunnels are designed to meet the strict environmental and health and safety requirements for the food and pharmaceutical production facilities. The chemical-free decontamination of packaging or food items is achieved by using either continuous or pulsed UV systems.

Decontaminates surfaces of packaging and food items



UV Decontamination Tunnel

Features and Benefits

- Complies with code of practice of major supermarkets
- Easy validation for BRC audits
- Quick maintenance
- User-friendly interface and monitoring



UV Air Disinfection Devices

GRU-V Cool is a UV air disinfection device for cold-storage rooms and food production areas

GRU-V Cool is a wall-mounted air disinfection device manufactured to kill 99.9% of airborne microorganisms thus preventing microbiological contamination within the treated areas.

Made from high-grade materials with shatterproof UV lamps, the GRU-V Cool is the perfect option for food stores, storage rooms, cold storage, meat drying rooms and food processing areas.

- Reduce airborne pollution in food production and/or storage areas
- Increase shelf life of your products
- Reduce sickness rates of your staff

GRU-V Cool devices



Effects of GRU-V air disinfection devices



GRU-V Jet ceiling mounted device

GRU-V Jet is a UV air disinfection device for large rooms and production halls

GRU-V Jet is a standalone ceiling mounted unit that can treat up to 3,500m³ of air per hour and multiple units can be implemented to cover larger areas or to increase the number of air changes per hour (ACH) in processing halls.

Made from stainless steel and with shatterproof UV lamps, the GRU-V Jet devices are suitable for larger food production environments. The performance of all installed units (KPIs) can be monitored on a single screen, usually positioned in an easily accessible area.

Vitamin D Enrichment of Mushrooms



Fast treatment with pulsed UV

Our pulsed UV conveyors for mushrooms utilise established vitamin D enrichment process developed by Xenon Corporation. Each machine accommodates a very powerful Xenon pulsed UV system and can be specifically customised to meet your needs. With adjustable guide rails to meet any punnet size, turning your mushrooms into high-content vitamin D mushrooms could not be easier.

Features and Benefits

- Fast - up to 150 packs per minute
- FSA and EFSA approved UV treatment
- Easy validation for BRC audits
- Simple operation and maintenance



Enhances nutritious content of mushrooms



Pulsed UV Conveyor for mushrooms

Label & Pack Verification



It's all about the data!

Pack & label verification is absolutely critical in retail food packaging, and particularly so in meat, fish and poultry production. Mislabelling is one of the main reasons for product recalls, which are not only very costly but can have a significant environmental impact as well, since the food almost always has to be destroyed.

Jenton Dimaco systems ensure that the correct pre-printed labels are used that identify the product and that all variable data such as use-by date, country of origin, price and weight are also correct. In fact we are currently verifying over 200 different data items across our UK & Ireland install base from products with three countries of origin to cooking time to products with non-unique GTIN barcodes. With the ever increasing use of GS1 Digital Link barcodes we also verify that the machine readable data matches the human readable information and that the correct URL has been embedded in the code.

As well as the main product labels we are also able to verify the outer case labels and pallet labels to ensure all match and are correct. Our systems store a record of all packs and labels verified along with the key data required for audits and continual improvement programs.

Over the following pages we will delve deeper into the various systems and functionalities we offer, but whatever system you go for please remember that when it comes to label verification - **it's all about the data**

Mislabelling is one of the main reasons for product recalls, resulting in costly mistakes and significant environmental impacts



Veri-CENTRAL



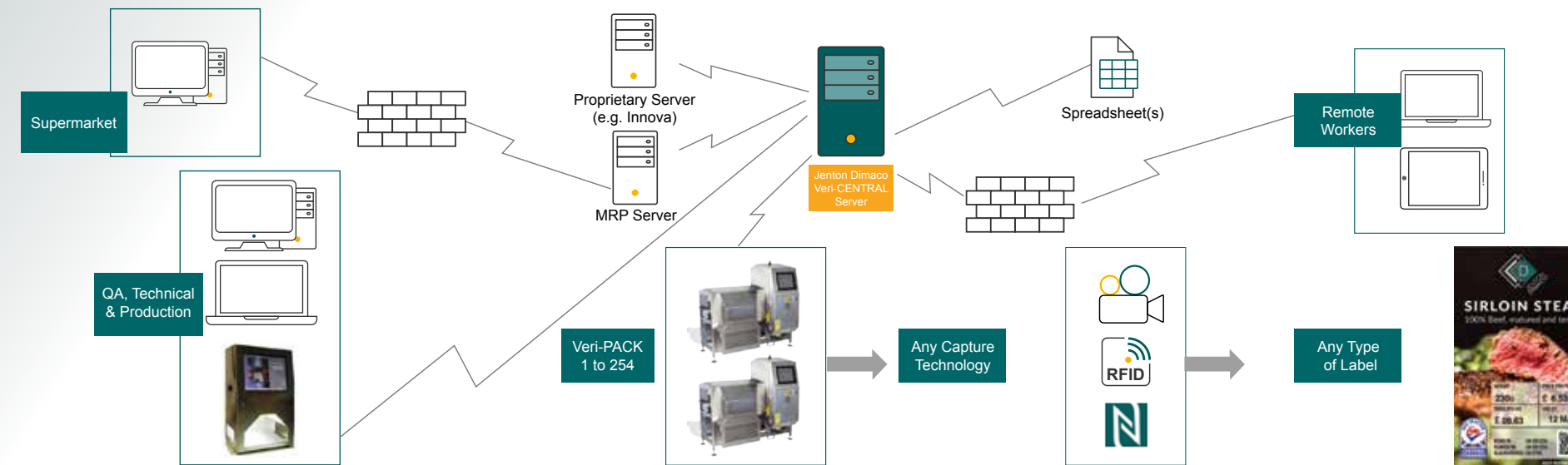
Label verification is all about the data - Veri-CENTRAL controls and manages that data

Veri-CENTRAL performs 3 key functions and is installed on every site where our verifiers are used.

One of the main differentiators of Jenton Dimaco is that all our label and seal verifiers are configured from a central point using known correct data. Each site has its own Veri-CENTRAL software platform that contains all the relevant information on the products being produced such as product name, weight, use by date and GTIN. Veri-CENTRAL can act as a stand-alone database or it can harvest data from existing sources such as spreadsheets and MRP systems (SAP & Innova are two commons systems). When production is about to start, the operator simply tells the production line verification unit which product is about run and Veri-CENTRAL does the rest - it sets the unit up with all the correct data against which to verify.

The second use of Veri-CENTRAL is that it stores all data and selected images of the packs that we verify. It's usual to store all verification statistics but only certain images - usually, the first pack, one every 15-20 mins, the first image following a lengthy line stop, the last image and every failed image. The failed images are very useful for continuous improvement programs. Veri-CENTRAL has a comprehensive reporting capability allowing, for example, audit reports to be created in seconds.

The final use of Veri-CENTRAL is in system control. Veri-CENTRAL manages and maintains users and their level of authorisation and tracks every single user intervention with the system. For example, if an authorised user overrides a fail then Veri-CENTRAL will have the data on which user authorised it, when and why. Additionally, Veri-CENTRAL allows authorised users to see all verifiers on the site in real time, allowing technical managers full remote control and visibility of all units.



Veri-PACK



The Jenton Dimaco Veri-PACK machines are the systems that actually carry out the label verification

We have a range of products from the simplest offline solution to our multi-label high speed conveyorised machines with integrated rejects. Whichever system you choose the principle is the same - the Veri-PACK will verify everything it can see - be it the correct packaging (including artwork version), bar codes, pre-printed information and variable data. These are the fundamental checks required to prevent recalls.

All Veri-PACK solutions run the same software and operate with the same concepts namely that Veri-CENTRAL (not an operator) defines what's verified and failed packs require an authorised supervisor to allow the process to continue.

Veri-PACK checks:

- ✓ Correct artwork (including version)
- ✓ Correct price
- ✓ Correct use by date
- ✓ Correct country of origin
- ✓ Correct barcode (including GS1 QR codes)
- ✓ CORRECT EVERYTHING!

It's all about the data!

100% packaging / label check



Veri-PACK Offline



Veri-PACK Offline is often seen as the gateway to automatic label verification

When used in its simplest form Veri-PACK Offline is used to replace manual label checks which for many producers is a labour-intensive process:

- ✓ Audit and storage complex and time consuming
- ✓ Conducted by 2-3 skilled operators
- ✓ At the start and end of runs
- ✓ Every 30 minutes
- ✓ During label changes, after maintenance, and more

With Veri-PACK Offline our customers see many benefits often with an ROI of less than 1 year, these include:

- ✓ Improve accuracy and consistency
- ✓ Reduce labour dependency and costs
- ✓ Meet the minimum requirements of many retailers' code of practice
- ✓ Create a secure audit trail
- ✓ Simplify compliance
- ✓ Protect your brand



Veri-PACK Offline replaces manual label checks

Veri-PACK Online



There are three main types of Veri-PACK online machines, but the concept is the same - check the packaging and labels on 100% of the packs

In label verification there are 2 kinds of verification errors:

The most serious is the **Systematic Error** this is the type of error that can cause recalls and occurs when something is fundamentally wrong e.g. incorrect packaging, barcode or use-by date. All Veri-PACK Online products handle **Systematic Errors** the same way - they stop the line. The line cannot be restarted until either the problem is fixed or a supervisor with the correct level of authorisation logs in and performed an override - remember that Veri-CENTRAL will have a log of this override so everything is traceable and auditable.

The second type of error is a **Random Error**, often caused by smudged prints or misplaced labels. Depending on the type of Veri-PACK Online system, packs with random errors will be rejected into a locked bin. When a random error occurs on n (n is user settable) consecutive packs then this is classified as a **Systematic Error** and the line is stopped. How random errors are to be handled (rejected, or not) often influences the choice of machine.

100%
pack
inspection



Veri-PACK Online Conveyorised
100% label verification with
integrated reject

Veri-PACK Online



Veri-PACK Online Conveyorised

Our flagship product. It has multiple cameras to verify top and base labels (side cameras are additional options), its own integrated conveyors which ensure good pack presentation and its own integrated reject bin for packs with Random Errors.

Veri-PACK Online Bolt-On

These systems are commonly used where space is at a premium and can be attached to a suitable existing customer conveyor. This system is for top labels only and does not include a reject bin so packs with Random Errors will not be rejected. As with all Jenton Dimaco verifiers Systematic Errors will cause the line to stop

Veri-PACK Online Film

Designed to be integrated into flow wrappers and bagging machines. These units can read the printed film before it is formed into the finished packaging. This is important as the finished packaging often obscures under folds and seals important data that needs to be verified. Additional cameras can be added to verify the whole pack for example for promo label verification. If required these systems can be interfaced with downstream Jenton Dimaco, or third-party, reject units.

Veri-Pack Online Bolt On can be
mounted to an existing conveyor

Major
supermarkets
COP
compliant



Veri-PACK components for
integrating into packaging
machines

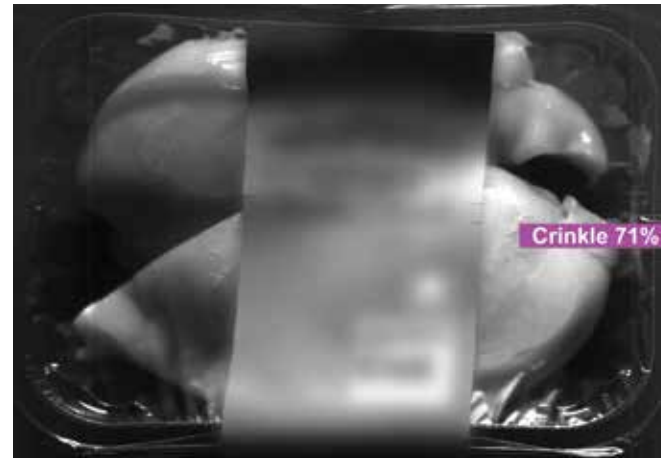


Veri-SEAL Product in Seal Verification



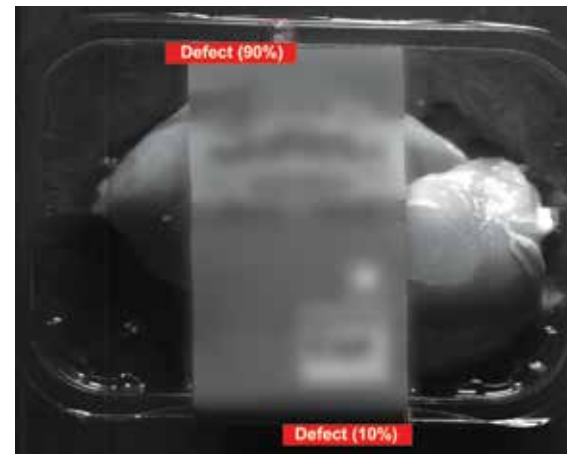
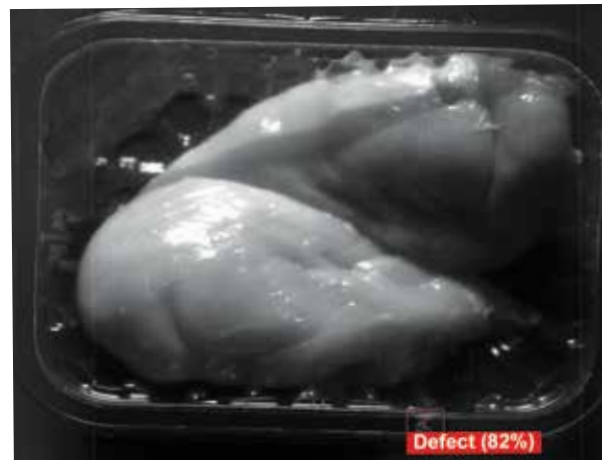
Veri-SEAL uses the latest AI vision analysis technology to determine whether any product is trapped in the seal, either inside or outside the pack

With minimal product training it can also be used to detect visible seal defects and top film folds and crinkles. A good quality product-free seal is not only an aesthetic requirement but in the case of MAP packs will help maintain the shelf life of the product. It can be supplied as a stand alone system, an upgrade to an existing Jenton Dimaco label verifier or as a combination label & seal verifier with dual reject bins.



Foreign Body Detection

Jenton Dimaco Foreign Body detection solutions are used for detecting visible foreign bodies both in upstream processing and within packs. Often installed just before a mincer/grinder on mine lines or slicers, they are used to detect blue plastic prior to it entering the main production environment. When used in conjunction with Veri-SEAL it can be used to detect any coloured material that should not normally be present, again often blue plastic machine parts.



Jenton Group



Jenton Group

Specialising in the supply and support of products for the following industries:

Packaging

UV Curing and Converting

UV Disinfection

Software

We offer design and consultancy services in addition to machinery sales and have fully equipped service, workshop, laboratory and demonstration facilities.

Members of:

Founder Member



www.jenton.co.uk

Packaging

Jenton Ariana - Food Packaging Automation
Jenton Bandit - Heat Seal Banding Machines
Jenton Dimaco - Label and Data Verification
Soken Engineering - Heat Sealing
Pleckpack Emplex - Bag Sealers
Pronova - JOKER - In-line Bag Sealers
ATS - Ultrasonic Seal Banding Machines

UV Curing and Converting

Jenton UV - Modular UV Curing Lamps and Power Supplies
Jenton UV Conveyors - Laboratory and Production Conveyors
Excelitas - UV Spot Curing and LED Curing Equipment
EMI - UV Cured Adhesives, Epoxies and Coatings
EIT - UV Radiometers
opti-color Ink Control Systems

UV Disinfection

JenAct UV - UV Disinfection, UV Surface Decontamination
Excelitas - UV Disinfection and Pulsed UV
Xenon Corporation - Pulsed UV Vitamin D Enrichment of mushrooms

Software

Expidero - Custom Software

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