

Traceability, inspection, and data management, from product to supply chain: Antares Vision Group presents innovations for the life sciences

The Group presents DIAMIND, the integrated ecosystem of solutions to simplify the technology environment and make businesses grow with new solutions for traceability, inspection, and data management.

Antares Vision Group, a technology partner in digitalization of products and supply chains for companies and institutions, and a leader in traceability and inspection, presents at Interpack DIAMIND, the most intelligent and integrated ecosystem of solutions, connecting physical products with digital value, and integrating the line, factory, warehouse, enterprise, and supply chain levels to enable a data-driven, tailored journey to digital innovation.

With DIAMIND, Antares Vision Group has developed an integrated cycle of safety, efficiency, and sustainability and enabled a tailored journey thanks to a unique hub of technologies and an integrated ecosystem of solutions.

DIAMIND runs at each level through multiple suites:

[AT INTERPACK: DIAMIND Line | Track & Trace](#)

SERIALIZATION MANAGEMENT

Print & Check All-In-One: A stand-alone automatic unit that performs all carton serialization functions, including marking, recording, and verifying all serialization data on up to 3 sides of every carton, and integrates check weighing, labeling, and tamper-evident sealing capabilities.

The Print & Check All-In-One on display at Interpack is equipped with “Digital Fingerprint” technology from Edgyn, which creates an invisible signature based on a product’s physical characteristics that cannot be detected by third parties. Combined with serialization data, the Digital Fingerprint enhances the guarantee of product authenticity and safety for final consumers.

The Print & Check All-In-One also has a Line Clearance solution, which takes advantage of cameras installed on the machine integrated with Artificial Intelligence to guarantee safety and cleaning of lines during production processes.

AGGREGATION MANAGEMENT

Omnivision Station: An automated aggregation machine for round, square, or rectangular base bottles. The printing of an additional serial code (“Helper”) on the bottom or top of the bottle and the association of the relative information allows aggregation operations to be carried out during the packaging steps (bundles, boxes, pallets). Aggregation allows the warehouse situation to be monitored in real time, and enables a single bottle to be located at any time.

Case Packer: A semi-automated machine for the aggregation of cartons. The same machine can also be adapted for the aggregation of bottles. Manual and automatic options are also available.

DIAMIND Line | Inspection Systems

BLISTER INSPECTION

The Blister Filling Control 3D, utilising a combination of laser technology and traditional vision systems, performs three-dimensional inspection. It is particularly effective for checking upstream feeding and loading of blister foil.

The Blister Filling Control Compact, thanks to the enhancement of Artificial Intelligence, makes packaging inspection even more accurate and faster, removing the risk of having excess or different types of products in the package.

STICK PACK INSPECTION

Stick Pack: A system designed for stick pack machines that verifies the correctness of different codes on each stick pack during the packaging process.

WEIGHT CONTROL

Checkweigher: A new checkweigher for small, medium, and large cartons, the first of Antares Vision Group in Life Science. The checkweigher is a fundamental component of every pharmaceutical line, as it is necessary to check, through weight control, the completeness of the package, particularly the presence of the package leaflet.

The machine, compliant with CFR21-11, allows total management of the product during all stages of handling in the machine, control, ejection, and eventual failed ejection. It is extremely versatile, both in relation to the workable formats and for its ability to be combined with different cartoning machines.

DIAMIND Line | Inspection Machines

Automatic Visual Inspection Machine for Pre-Filled Syringes: A new machine that targets the highest quality standards through advanced automatic visual inspection and container closure integrity testing (CCIT) conducted with integrated high voltage technology patented by Antares Vision Group to detect any leakages that may affect the guaranteed sterility of the product.

This automatic inspection machine for pre-filled syringes, widely used by the pharmaceutical industry (especially for vaccines and biological products), allows inspection of 100% of the containers’ surface thanks to an additional secondary carousel completing the container’s “dry zone” inspection.

Automatic Visual Inspection Machine for Blow-Fill-Seal (BFS) Cards: A new automatic inspection machine designed and produced to target the highest quality standards through an advanced automatic visual inspection guaranteeing 100% of BFS cards inspection.

BFS containers are among the most important packaging for pharmaceuticals, but their inspection presents challenges due to their characteristics and international regulatory standards requiring that

every container must be inspected to avoid cosmetic defects with the product and packaging, contamination, and losses, and to verify the absence of particles.

To guarantee the highest level of quality, in line with market demands and regulatory requirements, Antares Vision Group provides visual inspection, CCIT, and combined (visual inspection and CCIT) machines designed for BFS cards of small and large volumes.

Automatic Visual Inspection & High Voltage Leak Detection Machine: A very compact inspection machine that integrates visual inspection and leak detection with patented high voltage technology and allows a high repeatability of the tests.

Automatic Visual Inspection for Liquids in Glass Vials: An automatic machine for the visual inspection of liquid products in glass bottles, designed to guarantee 100% product quality and safety.

This machine detects particles and cosmetic defects and controls the liquid filling level. It also inspects bottles for crimp quality, colour, flip-off integrity, and other cosmetic defects. The machine, produced by Antares Vision Group, is exhibited at the IMA stand (Hall 17/A20-1 and Hall 17/A20-8).

DIAMIND Factory

DIAMIND Factory is the software suite that supports, traces, and controls production activities in compliance with regulatory requirements. It is designed to help companies enhance production efficiency and quality, improve planning and factory maintenance, and measure sustainability parameters.

A data-based approach leads simplified, streamlined decision-making processes and reduced costs, time, and waste, with consequent beneficial effects on profitability.

DIAMIND Factory includes a dedicated functionality to facilitate Line Clearance, a mandatory procedure to guarantee that equipment and work areas are free of products, documents, and residual materials between production of batches, with the goal of guaranteeing quality and safety during the production process.

The solution Antares Vision Group is presenting involves the digitalization of the clearing and cleaning operations and the introduction of cameras integrated with Artificial Intelligence on each machine on the line. This makes the line cleaning process safer and faster, taking advantage of the cameras that monitor other quality controls.

DIAMIND Enterprise and DIAMIND Supply Chain

Respectively, DIAMIND Enterprise and DIAMIND Supply Chain are software suites that address regulatory compliance management at the enterprise level, including track and trace management of serialized and non-serialized products and assets, and end-to-end supply chain visibility and management, from raw materials through trading partners to the end user.

Antares Vision Group will display both machines and digital solutions for the pharmaceutical industry at Booth B19 in Hall 15. We will demonstrate how each product can access information relating to quality, safety, and compliance with regulations, production efficiency, sustainability and transparency of the supply chain.

During the fair, the Group will host a series of conferences dedicated to the DIAMIND integrated ecosystem and its solutions for the Life Science industry. [View the calendar here.](#)

About Antares Vision Group

Antares Vision Group is driving digitalization of products and supply chains by leading traceability, inspection, and integrated data management. AV Group helps companies and institutions to achieve safety, quality, efficiency, and sustainability, enabling Trustparency®.

DIAMIND, AV Group's integrated ecosystem of solutions, simplifies the technology environment and supports businesses growth by enabling a data-driven and tailored journey to digital innovation. Connecting physical products with digital identities, DIAMIND runs at the line, factory, warehouse, enterprise, and supply chain levels, and guarantees product quality (inspection systems and equipment) and end-to-end traceability (from raw materials to production, from distribution to the consumer and back) through integrated data management, applying artificial intelligence and potentially blockchain.

AV Group operates in the Life Science (pharmaceuticals, medical devices, and hospitals), Beverage, Food, Cosmetics, Chemicals, and Packaging industries and potentially many others.

AV Group has been listed in STAR segment of Euronext since 14 May 2021 and has been included in the Euronext Tech Leaders index, dedicated to leading tech companies with high growth potential, since July 2022.

