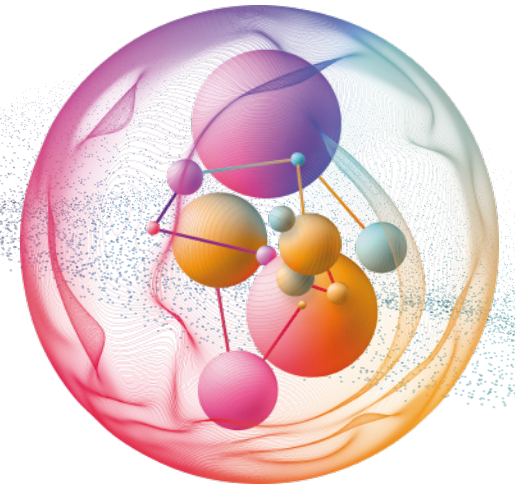# ANTARES VISION GROUP

FOOD

DIAMIND

SOLUTIONS PORTFOLIO FOR

FOOD

DIAMIND

POWERING PRODUCTS AND SUPPLY CHAINS

DIAMIND IS THE INTEGRATED, **INTELLIGENT ECOSYSTEM** OF SOLUTIONS TO **POWER PRODUCTS AND SUPPLY CHAINS**, 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 and cloud data management**.

DIAMIND

POWERING PRODUCTS AND SUPPLY CHAINS

LINE
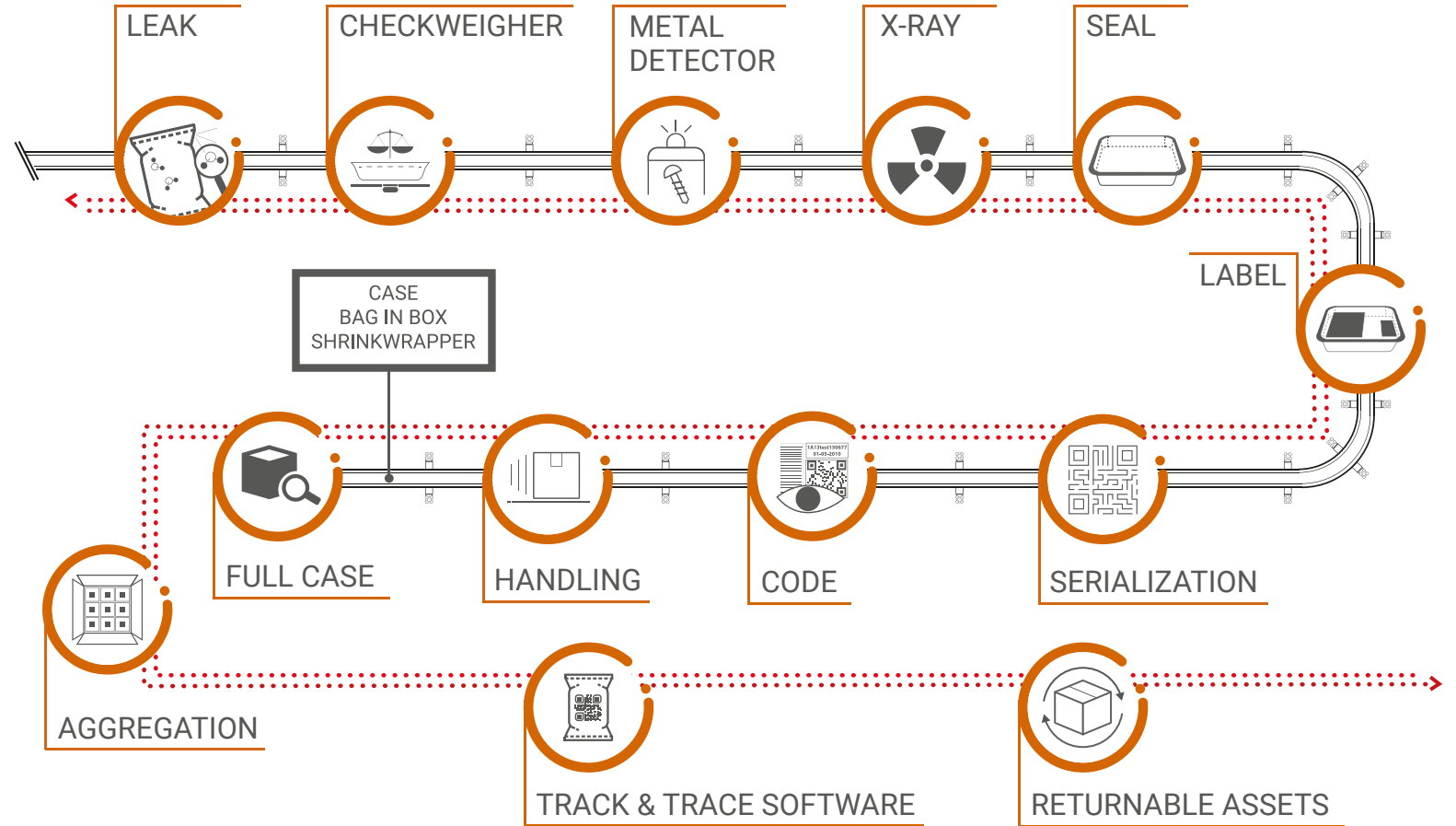
FACTORY

WAREHOUSE

ENTERPRISE

SUPPLY CHAIN

Antares Vision Group is the technology partner enabling digitalization from product to supply chain through traceability, quality inspection and integrated data management, connecting safety and quality, sustainability and efficiency to build trust

ANTARES VISION GROUP | EXPERIENCE THE POWER OF **TRUSTPARENCY**®

Inspection systems and **machines** for packaging and production lines to **control the quality of products, packaging, containers,** and **labelling**

LEAK

CHECKWEIGHER

METAL DETECTOR

X-RAY

SEAL

LABEL

CASE
BAG IN BOX
SHRINKWRAPPER

FULL CASE

HANDLING

CODE

SERIALIZATION

AGGREGATION

TRACK & TRACE SOFTWARE

RETURNABLE ASSETS

LABORATORY ANALYZERS

EVO-P *Series*
NON-DESTRUCTVE
GAS CONCENTRATION MEASUREMENT

INNOVATION

ALL-IN-ONE SOLUTION
FOR YOUR PRODUCTS QUALITY AND SAFETY

IN-LINE LEAK
DETECTION + PHYSICAL CONTAMINANTS
DETECTION + PRODUCT WEIGHT
MEASUREMENT

IN-LINE LEAK
DETECTION + SEAL
INSPECTION + LABEL/CODE
INSPECTION

ALL-IN-ONE | Configuration example

IN-LINE LEAK DETECTION
• Micro leak
• Escaping gas detection

WEIGHT CHECKWEIGHER
• Product weight
• Completeness check

METAL DETECTOR
PHYSICAL CONTAMINANTS
• Metals

X-RAY
PHYSICAL CONTAMINANTS
• Metals • Glass • Stones
• Bones • High-density plastic

SEAL INSPECTION
• Integrity
• Product or contaminants
  in the seal area

LABEL INSPECTION
• Presence • Matching
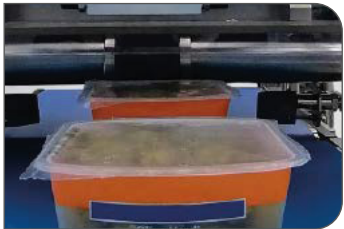• Positioning • Integrity • Codes

CODE READING
• Presence • Matching • Positioning • Integrity
• 2D Code reading Barcode, QR-code, Data-Matrix
• OCR - Text reading [Lot, date, ...]

An innovative application of IR spectroscopy to detect in-line holes and micro-holes in packages by checking for CO_2 leakage (for MAP products), alcohol or a specific flavour.
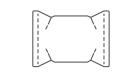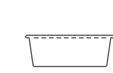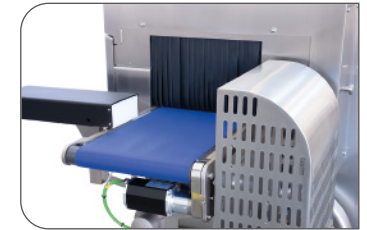
Our inspection technology uses X-rays to identify foreign bodies of different densities. It generates a grayscale image of the product and the software, through a multi-algorithm analysis, highlights any contaminants.

WORK EXAMPLE
BAGS

WORK EXAMPLE
TRAYS

EJECTION SYSTEMS
PNEUMATIC CYLINDER
EJECTOR, AIR BLAST, FLAP

EASY-TO-OPEN DOORS
TOTAL ACCESS TO THE
INSPECTION AREA

INSPECTIONS
• LEAK DETECTION
• ESCAPING GAS
  DETECTION

MARKET

BAGS
MAP Products

TRAYS
MAP Products

INSPECTIONS
PRESENCE OF
  • METAL   • PLASTIC
  • GLASS   • BONES
  • STONES
  • HIGH-DENSITY
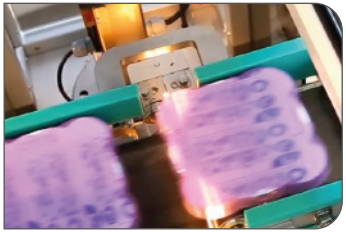
MARKET

BULK
PRODUCTS

VERTICAL
PRODUCTS

PACKAGED
PRODUCTS

In-line sealing area inspection to detect the presence of products and physical contaminants. Available for transparent or coloured film and packaging through hyperspectral or artificial vision technologies.

Inspection to check the quality of labels (alignment, positioning, items or brand, languages, etc.), codes (expired data, lot number, barcode, DataMatrix, QR code) and the correlation between single products and secondary packaging.

ABLE TO INSPECT TRAYS WITH PLASTIC COVER ALREADY APPLIED

ACQUISITION EXAMPLE
AND REAL DEFECTIVE PRODUCT

ACQUISITION EXAMPLE
LABEL INSP.

ACQUISITION EXAMPLE
CODE READING

LOWER SIDE INSPECTION
INTEGRATED CAMERA AND LIGHTING SYSTEM

INSPECTIONS
• ORGANIC RESIDUE
  DETECTION

MARKET

TRAYS   TRAYS
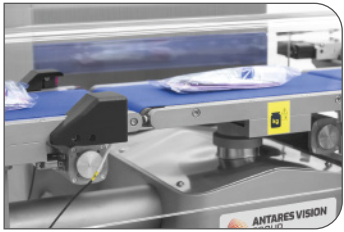   WITH COVER

INSPECTIONS
• PRESENCE
• MATCHING
• POSITIONING
• INTEGRITY
• CODE READING

MARKET

BAGS   TRAYS
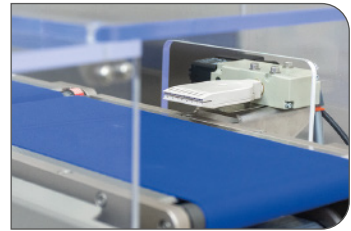
The checkweigher is a high-precision measuring instrument designed to check the weight of individual moving products.

By detecting the presence of metal contamination, our metal detectors for food provide effective protection against ferrous and non-ferrous metals (aluminium, stainless steel, etc.).

WEIGHING MODULE

EJECTION SYSTEMS:
PNEUMATIC CYLINDER
EJECTOR, AIR BLAST, FLAP
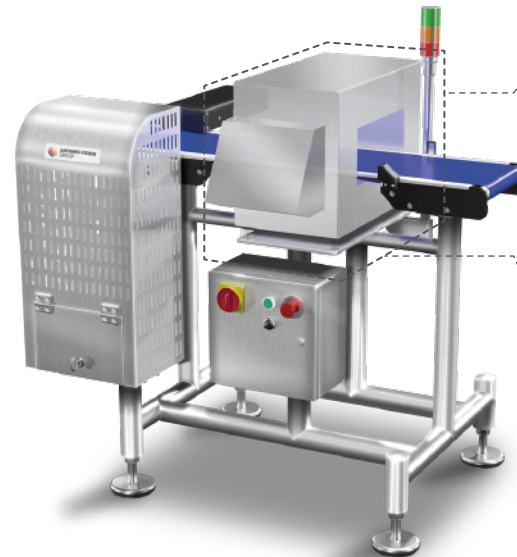
HORIZONTAL
PRODUCTS

VERTICAL
PRODUCTS

INSPECTIONS
• WEIGHT
• COMPLETENESS
  CHECK

MARKET

UNPACKAGED
PRODUCTS

BOTTLES
& JARS

PACKAGED
PRODUCTS

VERTICAL
PRODUCTS

INSPECTIONS
• METAL
  PRESENCE

MARKET

BULK
PRODUCTS

BOTTLES
& JARS

PACKAGED
PRODUCTS

Track and trace equipment for digital identity management through serialization and aggregation on production lines

Lifetime Traceability with Track and Trace

- Turnkey solutions with multi-function serialization modules, aggregation technologies, and flexible software suites.
- Engineered to ensure compliance with all serialization and aggregation requirements for production, warehouse, distribution, and the corporate environment.
- By assigning a unique digital identity to each saleable item, Diamind Line track & trace offers multiple advantages.

Benefits

- Meet regulations and compliance
- Fight counterfeiting
- Deter parallel and grey markets
- Guarantee product quality and originality
- Increase customer engagement
- Empower recall operations
- Optimize production efficiency
- Ensure the transparency of the supply chain
- Facilitate sustainability

The software suite that manages the entire production site: monitoring and optimizing processes; enhancing production efficiency, and quality; improving planning and factory maintenance; and facilitating sustainability

The software suite that manages the movement of goods, including receiving, shipping, and tracking of materials, products, and stock in the warehouse

Lead your digital transformation in the production process
Take smarter, data-driven decisions to increase profit and steer growth

A complete warehouse management solution for businesses of all sizes.
Add product traceability and serialization information to existing WMS and inventory management systems

Benefits

- Control of the entire production process
- Identify bottlenecks in the production process
- Facilitate a continuous improvement process by measuring your OEE
- Report critical parameter deviations and stoppages with automatic notifications
- Perform statistical analysis to suggest corrective actions in real time
- Facilitate root-cause analysis for performance and quality issues
- Support the lean manufacturing processes by analyzing production and supplier quality
- Optimize production scheduling
- Improve preventive maintenance, Introduce predictive and prescriptive maintenance
- Measure your carbon footprint
- Empower your factory intelligence utilizing AI

Benefits

- **Serialization rework**
  Rework activities on serialized products coming form third-party traceability solutions; can be integrated into existing ERP systems.

- **Operational efficiency**
  Real-time asset tracking ensures that your business runs on time and on budget. Capturing digital data about asset utilization, customers' needs, and seasonal trends allows you to identify risks and formulate better strategies to accommodate sudden spikes in demand.

  › 100% visibility of assets
  › 25% decrease in lost or stolen assets
  › 20% decrease in assets needed to support current production levels
  › Improved cycle times and asset utilization

- **Shipment/receive management**
  System integrates with current WMS to manage shipments and arrivals quickly and easily

- **Storage condition monitoring**
  Integrates with environmental monitoring systems and continues DIAMIND's traceability chain, ensuring storage conditions/requirements are maintained along the entire supply chain
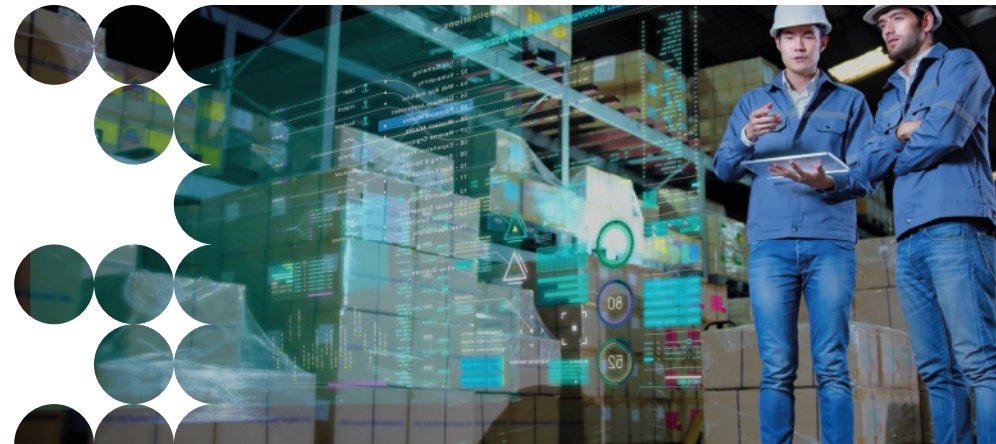
The software suite for regulatory compliance management at the enterprise level, including track and trace management of serialized and non-serialized products and assets

The software suite that enables end-to-end supply chain visibility and management, from raw materials through trading partners all the way to the end user

An integrated solution for end-to-end traceability

End-to-end supply chain digitalization

Benefits

- Manage traceability and serialization at the enterprise level
- Comply with global traceability and reporting regulations
- Track raw materials used in manufacturing process
- Optimize recall management and investigations with high-quality, granular data that can be accessed instantaneously
- Mobile Traceability app tracks any batch, movement, and handler and can be used to add critical tracking events (CTEs) and key data elements (KDEs) at any location

Benefits

- End-to-end supply chain digitalization and data enables safe product journeys across the supply chain
- Trace everything in your supply chain forward and backward, from raw materials to finished goods
- IoT-enabled monitoring to see products in real time and collect unit-level data about 12+ environmental conditions
- Comply with regulations requiring traceability, serialization, and modernization
- Meet consumer demand for demonstrable product provenance, product information, and sustainability
- Seamless interoperability with all your trading partners
- Track the returnable asset across the supply chain, minimizing losses and improving sustainability

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31
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(Global Headquarters)
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UK (1)
IRELAND (1)
CROATIA (1)
SERBIA (1)
RUSSIA (1)
INDIA (1)
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CHINA (1)
SOUTH KOREA (1)
THAILAND (1)
BRAZIL (1)
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ANTARES VISION GROUP

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Experience the power
of **TRUSTPARENCY**®

Antares Vision Group is the technology partner in digitalization for companies, institutions and governments, guaranteeing safety and quality, sustainability and efficiency of products and supply chains to build trust. It provides a unique and integrated ecosystem of technologies including software and hardware to guarantee product quality (inspection systems and equipment) and end to end traceability (from raw materials to production, from distribution to the consumer), through connected data management, applying artificial intelligence and blockchain .

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