

Designed to Survive®

IQ4 METAL DETECTION SYSTEMS



Metal Detection

Introducing the IQ4 series

Ever since LOMA SYSTEMS® was founded in 1969, the company has worked very closely with both food manufacturers and retailers to deliver advances in technology. As a result, LOMA® has an unrivalled level of experience and expertise, in the practice of effective metal detection within food industry production lines.

Our latest introduction of the IQ4 series of Metal Detectors is the result bringing together the combined experience of LOMA, LOCK Inspection, CINTEX and BRAPENTA, and nearly 50 years of customer-back innovation. LOMA's engineering teams have employed the ***Designed to Survive***® philosophy to deliver great metal detection sensitivity in a package that is easy to install; easy to use; easy to clean and maintain; can withstand the arduous food production environments; and ultimately brings a brilliant cost of ownership.

IQ4: The "Best" Metal Detector Series

► Reliable Detection Performance

Optimized detector mechanics, true Variable Frequency technology, progressive electronics and a better, faster Auto-Learn brings considerable performance gains over prior generation IQ3+ST search heads. Even in challenging applications, such as a heavy-metalized film product, great sensitivity can be set-up with Auto-Learn and inspected without the need for further optimization.

► Robust "Designed to Survive" as Standard

An improved lip and screen, a new sealing arrangement, proven ultra-harsh mechanics and a "beyond" IP69K rating makes the IQ4 search heads hygienic; easy to clean; and super-tough being able to survive harsh food production environments, whether they are hot, freezing cold, dry, dusty or wet, or a combination of them all!

► Modern and Intuitive

A new 7" color touchscreen as standard on every model, a crisp and freshened up interface, and enhanced functionality help deliver a much-improved user experience, helping to minimize user errors and make light work of inspection.







Meet the New IQ4 Search Head

Faster, Better Auto-Learn

With signficant improvements in signal processing, the new Auto-Learn rapidly delivers excellent detection sensitivities out of the box and provides more line uptime than ever before

7" Color Touchscreen

Standard across all of the IQ4 range, the big 7" touchscreen offers 33% more space than previous generation metal detectors

Engaging User Interface

The newly designed interface provided across the entire range makes light work of setting, running and maintaining the IQ4 range and minimizes user errors



A Step-up in Performance

Optimized mechanics and improved product screen help to deliver performance improvements over prior generation detectors

Robust "Beyond" IP69K Rating

An improved lip, screen, and new blue sealing arrangement, combined with ultra-harsh mechanics proven from the IQ3+ range, make this one of the toughest and factory-friendly metal detectors on the market

Enhanced Functionality

DDS vector display, "Optimised for Aluminium" PVS improvements, conveyor control, support for enhanced biometric security all help increase the usefulness of the IQ4 series

IQ4: Metal Detector Conveyors

Combining the advanced functionality of the IQ4 Metal Detector Search Head with a conveyor to create a complete system compliant to food safety standards

Full Retail Compliance

Systems comply with strict international standards such as IFS, BRC, and FSMA; and can also be supplied with "Higher Level Compliance" functionality to meet the strictest of Retailer Codes of Practice

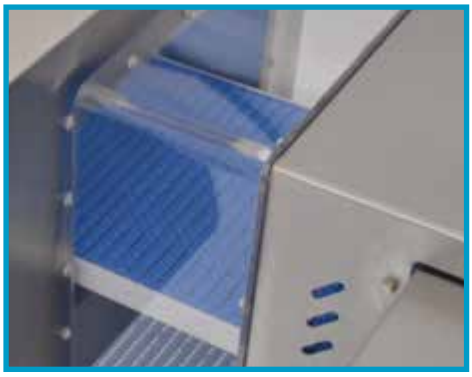
Wide Product Application

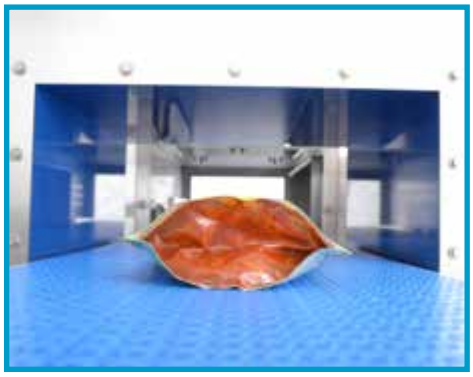
LOMA engineers deliver standard configurations and design complete bespoke systems to suit a wide variety of food product applications

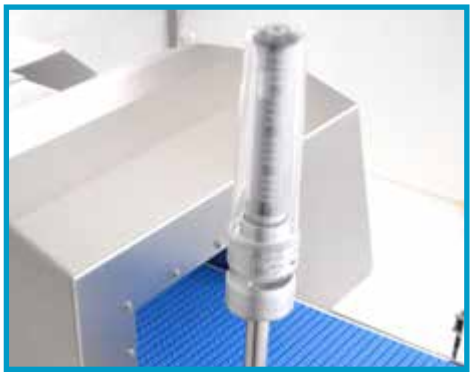


Capable Reject Options

Various reject options, such as Pusher, Air Blast, Carriage Retract Band, or Powered Decliner are available to suit product applications







IQ4: Pumped Products

Introducing true Variable Frequency technology for pumped applications

The IQ4 Pipeline metal detectors are built around LOMA's variable frequency technology that helps provide the best detection levels for different product conditions. Coupled with the new Auto-Learn, it makes set-up of the system for a product, quick and easy.

IQ4 Pipeline

Pipeline system is designed for use in pumped meat applications or non-meat applications such as with liquids, soups or sauces

- 7" Color Touchscreen
- Variable Frequency Technology
- Robust IP69K rating for use in both High-care and Low-care environments



Rejects to Suit Product Application

With over 20 years of research and development, LOMA's engineers have designed systems to suit many different product applications

Integrated into the Filling and Linking Process

The IQ4 Pipeline is engineered to easily integrate with filling, clipping and linking systems, such as Handtmann and Vemag







IQ4: Gravity Fed Products

Introducing LOMA's Variable Frequency Technology into Gravity Fall applications that helps to deliver great detection sensitivities with differing product conditions

IQ4 Vertical Fall

Gravity fed system for inspecting powders or granules

- Can be installed at the beginning of the production line to inspect materials in bulk powder or granule form
- Variable Frequency Technology
- Sealed to IP66 for wash down applications
- Quick release sealed valve or cowbell reject mechanisms available



7" Color Touchscreen

The new color touchscreen provides access to all critical functions and controls through a new modern user interface

IQ4 Waferthin

Compact throat metal detector for installation above bagging machines

- Compact design to fit in the tightest spaces
- Variable Frequency Technology
- Sealed to IP66 for wash down applications

Ready for Data Export

Every IQ4 model includes a sealed USB port that provides instant access to reports and data. For factories requiring a centralized approach, TRACS software provides centralized data reporting capabilities.





LOCK-PH for Pharmaceutical

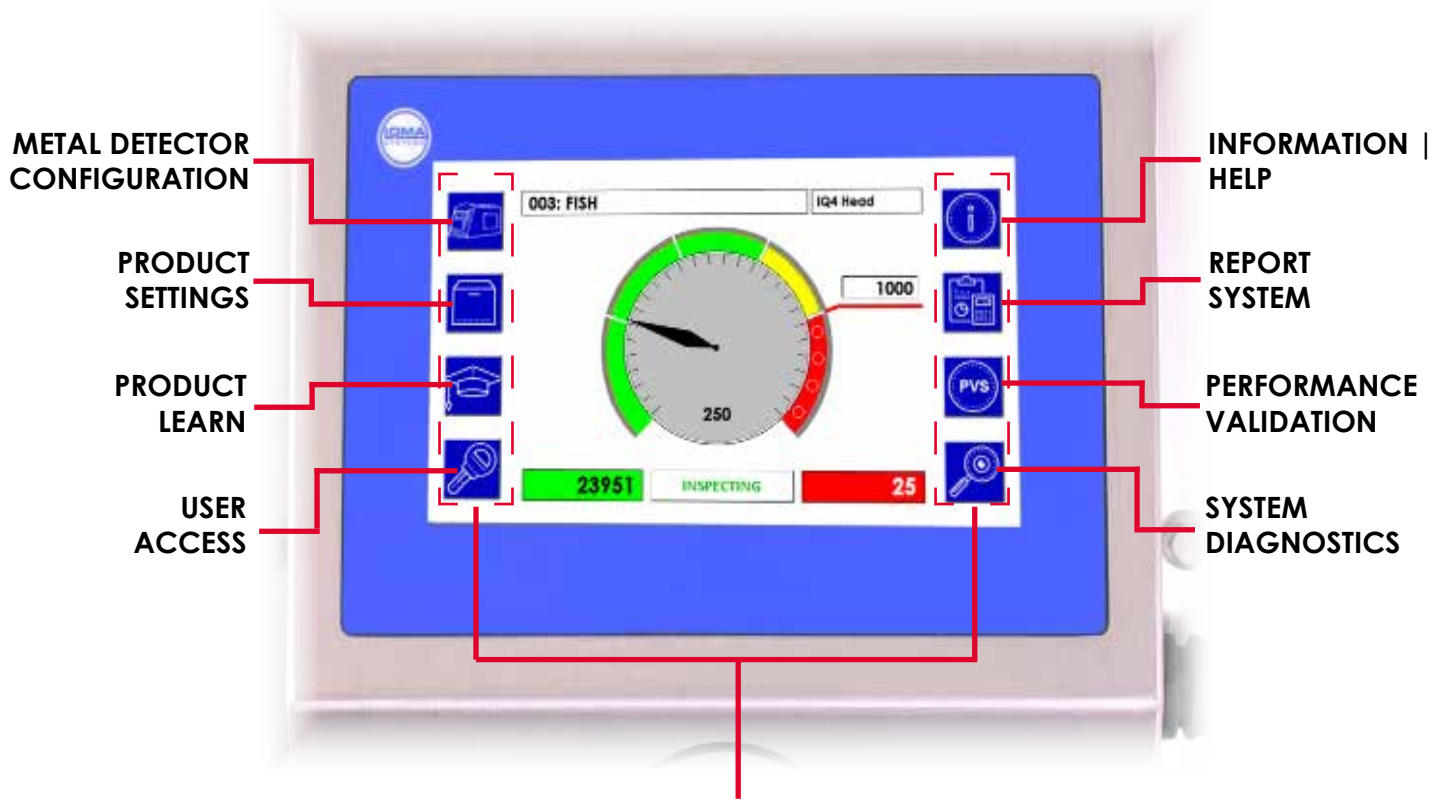
Provides inspection of tablets or capsules after the tablet press and de-duster process with the highest levels of sensitivity

- Built upon IQ4 technology with 7" color touchscreen and user interface
- Provides the best in class sensitivity to magnetic and non-magnetic metals
- Compact polished stainless steel finish
- Reject options including Lift-flap, Diverter, Wash-in-Place and Dust Tight
- Certified with full IQ, OQ, PQ documentation



IQ4: Improving the User Experience

The 7" touchscreen on the IQ4 series of Metal Detectors features a new and updated user interface that has been designed to bring improvements in usability, from both a simplified structure and an easier-to-follow navigation, and ultimately be less open to user error. The new interface includes a simplified color scheme with modern icons, that helps to provide instant status and be more engaging to a user. It also hosts a 5-level user security model intended to tailor the experience to users (Operator, Line-Supervisor, Quality and Engineering) to prevent unauthorized operation and help meet traceability requirements such as FDA's 21CFR Part 11.



Worldwide Locations

Headquartered in the UK, LOMA SYSTEMS operates from several locations in the Americas, Europe and Asia. Across these sites LOMA conducts ongoing research and development, specialised manufacturing, sales and service support. Through a worldwide network of OEM and distributor partners, LOMA supplies and supports inspection equipment in over 100 other countries.



Farnborough, UK - Head Office


Manchester, UK


Helmond, Netherlands


Chicago, USA


Plzen, Czech Republic


Sao Paulo, Brazil


Nantes, France


Dinslaken, Germany


Warsaw, Poland

About LOMA SYSTEMS

Established in 1969 in the UK, LOMA SYSTEMS designs, manufactures and supports inspection equipment used to identify contaminants and product defects within the food, packaging and pharmaceutical industries, principally offering Metal Detectors, Checkweighers and X-Ray Inspection systems.

With the addition of the LOCK Inspection, Cintex and Brapenta brands and products, LOMA's reputation is based on consistent quality and advanced technology, the result of continuous and far-reaching research and development programmes. Short lead times, modular design and excellent availability of spare parts, coupled with our passion for customer service, allows our customers to:

- Comply with, and exceed, product safety standards, weight legislation and retailer codes of practice
- Maximise production up-time
- Be self-sufficient
- Lower lifetime costs

We are part of Illinois Tool Works (ITW), a global Fortune 250 diversified industrial manufacturer of value added consumables and speciality equipment with related service businesses. Operating under the core philosophies of 80/20 business processes, customer-back innovation and a decentralized entrepreneurial culture, ITW's seven industry-leading segments leverage the ITW business model to generate solid growth with best-in-class margins and returns in markets where highly innovative, customer-focused solutions are required. These divisions serve customers and markets around the globe, with significant presence in developed and emerging markets. ITW's revenues totalled US$13.6 billion in 2016, with more than 50,000 employees worldwide.

Local contact

HOANG LONG TECHNOLOGY
Always for your product quality

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