IQ² Pharmaceutical

Metal Detection

Loma IQ² Search Heads
Loma IQ² Conveyors
Loma IQ² PipeLines
Loma IQ² FreeFalls
Loma IQ² Pharmaceutical

Versatile, proven metal detection systems for the pharmaceutical industry

Summary

The Pharmaceutical Industry needs highly accurate metal detection to meet the requirements of demanding consumers and stringent legislation. The Loma Pharmaceutical Metal Detector provides class leading in-line metal detection to meet these demands.

The unit is manufactured from stainless steel throughout to provide a hygienic, easily cleaned inspection environment.

The Loma Pharmaceutical Metal Detector is suitable for all sorts of pills. The entire unit is designed on the principle of integral hardware, which means that there are no loose parts and no tools are required for dismantling.

All product contact parts are made from high grade plastic and mirrored stainless steel to give easy cleaning and no cross contamination.

The compact unit takes up minimum system length and can be located before or after the de-duster. The gas strut allows the unit to be easily adjusted to any tablet press and the angle of the product chute can be adjusted by a quick release clamp.

Loma produce a wide range of robust, reliable and user friendly models to meet industry needs, whether for packaged, bulk-fed or pumped product.

Loma delivers better, consistent quality to your product and plays a vital role in protecting your brand.

Benefits at a glance:

- Compact Installed easily and quickly after the de-duster or tablet press
- Safe The failsafe reject mechanism ensures precise rejection of contaminated product
- Sensitive Advanced signal processing provides unsurpassed levels of detection
- Hygienic Product contact parts can be quickly dismantled and cleaned
- Reliable Robust design ensures long, reliable performance on the line

IQ² Pharmaceutical – Metal Detection

Benefits of Metal Detection

Metal Detection has been used in the processing and packaging industry for over 50 years so the technology is well tried and tested.

Metal forms a significant percentage of foreign bodies that can be considered dangerous. Contamination can arise for various reasons, for example metal can be present in the incoming raw material, from broken parts of plant machinery or even from the act of sabotage.

Analysis of the risks associated with the production process (such as HACCP within the food industry) should lead to an indication of the best location for metal detection inspection. A significant trend in recent years has been to install metal detection equipment at various stages in the production process as well as at the end of the line. The benefit being that contamination can be identified earlier and removed, with less value added to the product and also ensures that damage to expensive plant equipment is prevented.

Metal detectors rely on the conductive and magnetic qualities of metal in order for them to be detected. Where these are present in large amounts then detection is good, such as with magnetic steel, where they are not, such as with non-magnetic stainless steel, then detection is less good. Some conductive or magnetic products (that contain salt and water or iron) affect the performance of metal detectors adversely as well as some packaging like metallised film or foil.

A metal detector reject system has to be efficient and designed for the application to reliably reject the contaminated product.

Metal detection plays a vital role in protecting the brand and consumer and is key to conforming to product safety legislation.

Finally, remember first class pre and after sales support is key to success. Training at the time of installation, spare parts availability, regional support, cross trained technicians and help lines must be considered as part of the purchase.

Technical Specification

Upgradeable metal detector controls.

PVS to aid HACCP compliance.

Various communication options to suit plant integration protocols.

Direct transmitter drive to eliminate thermal drift.

High field strength to eliminate external interference and deliver the ultimate in noise free detection.

32-bit digital signal processing for enhanced contaminant detection.

Standard apertures on rapid delivery.

1MHz operating frequency for peak high-grade stainless steel detection.

Finish:	304 stainless steel with bead blast finish
Aperture Sizes:	100mm x 20mm (4" x 0.8") 100 x 38mm (4" x 1.5")
Supply Voltage:	110/115/200/220/230V 50/60Hz
Input Height:	530mm to 835mm 20.8" to 32.8"
Output Height:	240mm to 680mm 9.5" to 26.8"
Height Adjustment:	Gas strut assisted
Tilt Angle:	45° maximum
Reject Type:	High speed electrical solenoid driven flap
Throughput:	Up to 10,000 tablets/min
Cleaning Regime:	Wipe/blow machine Wash inlet/outlet chutes
Options:	Beacon stanchion Keyboard cover LomaNet Ethernet Serial link Remote reports PVS Beacon

About Loma Systems

Loma Systems is a world class manufacturer of inspection systems, with installations in over 60 countries and in most of the world's largest food, personal care and pharmaceutical companies.

Loma Systems holds ISO 9001 certification and has earned a reputation for the consistent quality and advanced technology of its products, the results of a continuous and far-reaching research and development program.

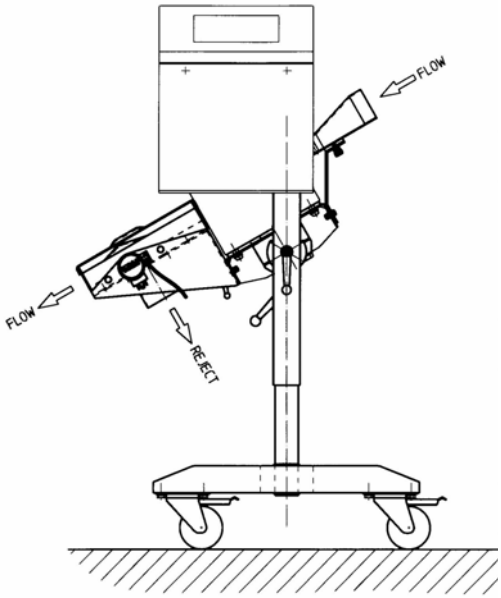
Short lead times, modular design together with our passion for customer service, allow you to:

1. Maximize your production up-time
2. Maintain your self-sufficiency
3. Help your customers comply with and exceed consumer and government demands for product safety.

All Loma systems are manufactured to the exacting standards of ISO9001 and supported by a world-wide network of sales and service operations

Loma reserves the right to improve or change specification without prior notice

System Drawing



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