IQ² PipeLines

Metal Detection

Versatile, proven metal detection systems for food, and other process industries

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

Summary

Our sales and design engineers work with you to provide a metal detector system that is suitable to your individual application requirements.

The metal detector range is the result of over 35 years of expertise in food and other processing industries. Careful design has resulted in a modular product for ease of maintenance and minimum parts stocking requirement.

Loma's metal detector systems optimise performance of the Loma IQ² metal detector head. With a bright display easily read under all lighting conditions, the units ensure a level of reliability and ease of set up which is the best in the industry.

An essential part of any metal detection system is an efficient reject device. Our sales and design engineers will ensure that the most effective device is selected for your individual application.

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:

- **Versatile** A wide range of pipe diameters and fittings

- **Easy to use** Automatic product learn ensures maximum sensitivity without adjustment

- **Sensitive** Advanced signal processing provides unsurpassed levels of detection

- **Efficient** Fast acting application specific reject devices minimises product waste

- **Reliable** Heavy duty environmental protection even in the harshest of environments

Benefits of Metal Detection

Metal Detection has been used in food and other process industries 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.

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, and process 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

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.

Finish:	304 stainless steel with bead blast finish
Pipe Diameters: (nominal bore)	2" (48mm) 3"(73mm) 4" (98mm) - General purpose 2.5" (57mm) - Meat stufffer applications
Mounting:	Base plate, bracket or stand
Throughput:	Up to 10T/hr
Fittings:	Quick release, 3A bevel, RD80 (stuffer applications) Options include: RJT, IDF/ISS, DIN11851
Product Pipe:	Plain or water jacket
Reject Valves:	Various according to application
Environmental Protection:	IP 67
Options:	Remote control box — PVS Beacon / Beacon stanchion — Keyboard cover / LomaNet — Ethernet / Serial link — Remote reports

Some Successful Adaptations

Handtmann Applications

HANDTMANN VACUUM FILLERS		Model	Loma Type
Straight Filing or Sausage Clipping — Thread Rd80 x 1/4"	Old Types	VF10 VF11 VF12 VF16 VF18 VF20 VF24-1	Universal Male/Female + Stand
	Later Types	VF50 VF80 VF80P VF100 VF200 VF300	Short Hinge
	Current Types	VF610 VF612 VF616 VF620 VF622 VF628 VF630 VF634	Short Hinge

HANDTMANN LINKING ATTACHMENTS		Model	Loma Type
Hand Sausage Linking	Linking Gearbox	34-4 34-5 HV60-6	Linker + Stand
		HV60-7 HV60-8	Linker + Stand
	Casing Spooler	DA78-5 DA78-6	

HANDTMANN GRINDING SYSTEM	Model	Loma Type
Sausage Grinding	GD93-3 + PLS115	Linker + Foot + Extension Bars
	GD93-3 + PLH216	
	GD93-3+ PVLH241	AL + Stand

HANDTMANN PORTIONING SYSTEMS	Model	Loma Type
Sausage Filling and Portioning	PA30-7 AB43F AB41B	Linker + Stand

HANDTMANN ACCESSORIES	Model	Loma Type
Double Outlet	67-1 67-2 67-4	Universal Male/Female + Stand
Filling Heads	85-2 Can Meatloaf	

Vemag Applications

VEMAG VACUUM FILLERS		Model	Thread	Loma Type
Straight Filing or Sausage Clipping	Vacuum Filler — Old Types	R1000 DC R2000 DC R3000 DC R1000 2/3 R2000 2/3 R3000 2/3 R4000 2/3	Rd80x1/4 Male	Universal Female/Male + Stand
		Robot 500 Robot 700	Rd70x1/6-LH	Universal + Loma Adapters
	Current Types	HP10 HP10C HP15 HP25A HP15C	Rd80x1/4 Male	Universal Female/Male + Stand
		DP10C DP15C Robby Robby 2	Rd80x1/4 Female	Universal Male/Female + Stand

VEMAG LINKING ATTACHMENTS		Model	Used with	Loma Type
Hand Sausage Linking	Linking Gearbox	828.100-008 828.100-008	DP10, DP15, Robby-2 HP10, HP15, H25A	Vemag Linker
	Casing Holding Device	DHV841 DHV841	DP10C, DP15C HP10C, HP15C	

VEMAG SYSTEMS	Model	Used with	Loma Type
Length Portioning	LPV802	DP10C	Vemag Linker
	LPV802	HP10C	Vemag Linker
	LPG202	HP10C, DP10C	Universal
Hanging Units	AH-204	LPG202	Universal
	AVG825	1000 S3	

VEMAG ACCESSORIES	Model	Used with	Loma Type
DoubleOutlet	888	HP10	Universal Females/Male + Stand
DoubleOutlet	889	2000 S3	
Diaphragm	821	HP10/15 , DP10/15	
Fill Head	981	HP10/15 , DP10/15	
FillingTube	901	1000 S3	

Risco Applications

RISCO VACUUM FILLERS		Model	Thread or Loma Adapter Part No.	Loma Type
Straight Filling or Sausage Clipping		RS2000M	Loma 223035 + 223036	Universal
		RS3005	Rd80x1/4 Female	Universal
		RS5005	Rd80x1/4 Female	Universal
		RS4001-260	Rd80x1/4 Male	Universal
		RS4003-165	Rd80x1/4 Male	Universal
		RS4003-280	Rd80x1/4 Male	Universal

RISCO VACUUM FILLERS		Model	Poly-clip Male Rd80 x 1/4" Adapter Part No.	Loma Type
Clipping with Polyclip + Adaptors		RS1040	62627	Universal Female/Male + Stand
		RS2005	62626	
		RS2005V	62626	
		RS3000	48300	
		RS4001	53918	
		RS5000	53918	