

UNIQUE

Pipeline Metal Detector

Reliable & Innovative Solution
for Checking Metal Contamination in
Liquid and Semi-Liquid Products



UNIQUE EQUIPMENTS®

www.uniqueequipments.in



METAL DETECTION SYSTEMS FOR EACH & EVERY APPLICATION



PIPELINE METAL DETECTOR

Unique Pipeline Metal detectors are designed to provide highly sensitive inline metal detection to detect ferrous, non-ferrous and stainless steel contaminants for all types of pumped liquid and semi-liquid products including sauce, preserves, soups, dairy products, liquid, chutney, fruit pulp, meat slurries etc;

Metal detectors are for safeguard and protection. They protect processing equipments, products people consume, companies' brand image, and limit their liability due to contaminated product. Metal detectors are both effective and inexpensive. Processing and packaging equipment is often expensive and susceptible to damage from other equipment such as crushers, extruders, shredders, cutters, grinders, choppers, mixers, etc., can be costly to repair, not to mention the down time

Unique Pipeline metal detector can be fitted into any existing pipeline system. The unit has robust quick-release fittings that enable it to be easily dismantled and cleaned. All stainless steel construction is ideal for meeting hygiene standards.

Fast Reject Mechanism Systems:

Unique offers a wide range of reject valves to suit all types of products. Butterfly valves aid in the rejection of contaminants found in semi-liquid or solid products and Ball valves aid in the rejection of contaminants from liquids.

Salient Features:

- Automatic Balance Principle • Easily to installed • Digital Signal Processing Technology
- High Sensitive Detection for all types of metals. • AutoTest: Self Diagnostic Testing
- 100 Products memory • System Set-Up in Seconds • Users Friendly Password Protection
- Sealed for aggressive wash down applications • Various industry standard pipe sizes available

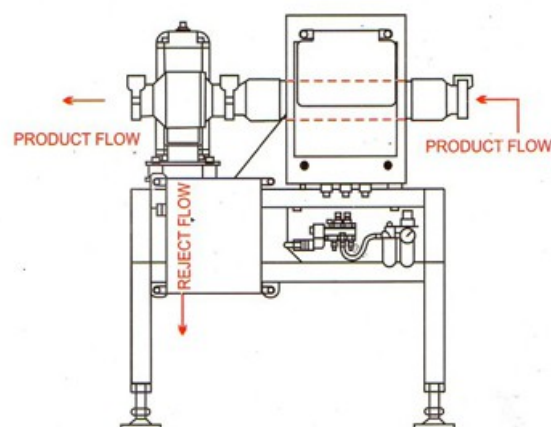


Pipeline applications involve the installation of a non-metallic pipe section that sends product through a metal detector for testing. Pipeline Metal detectors are used where the extra sensitivity of a small aperture outweighs the benefit of final package inspection.

An example would be testing sauces before it reaches a packaging line using metal cans. Pipeline Metal detectors systems are ideally suited to inspecting liquid, slurries, or paste products that can be pumped through a pipe. Such products would include chutney, fruit pulp, dairy products, meat slurries, juices, etc.

Determine System Length:

The position of the reject valve relative to the detector depends on the product speed. The distance between the valve and the detector must be increased in direct proportion to the product speed and valve response time, since the valve has a minimum divert response time.



Technical Specification for Standard Models:

Models	Flow Rate*	Suitable / Pipe Size	Sensitivity**
PLMD-40	500 Kgs./Hr.	25 mm / 1"	0.4 mm Fe, 0.6 mm N.Fe, 0.8 mm SS
PLMD-60	2000 Kgs./ Hr.	51 mm / 2"	0.6 mm Fe, 0.8 mm N.Fe, 1.0mm SS
PLMD-80	4000 Kgs. /Hr.	76 mm / 3"	0.8 mm Fe, 1.0 mm N.Fe, 1.2 mm SS
PLMD-110	6000 Kgs./ Hr.	100 mm / 4"	1.0mm Fe, 1.2 mm N.Fe, 1.5 mm SS

*Flow rate will depend on product viscosity/

**Detection sensitivity will change depending on product & environmental conditions.

Specifications & Design are subject to change without notice.

 **UNIQUE EQUIPMENTS®**
 Manufacturer & Exporter of Metal Detectors & Pharma Machines
 (An ISO 9001 : 2008 Certified Company)

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UNIQUE Metal Detector

for each & every application...



**Reliable &
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Contamination in
PHARMACEUTICAL**



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& Pharma Machines*

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METAL DETECTION SYSTEMS FOR EACH & EVERY APPLICATION



Unique On Line Dynamic Check Weigher



Unique Tablet Inspection Belt



Unique Third Eye Metal Detector For Dry Syrup Bottles



Your Search ends at
UNIQUE

Perfect choice of Metal Detectors for HACCP, WHO- GMP, FDA & other National & International Certification.

1. GFMD series of metal separators is most effective at removing metal contamination from Bulk Drugs, Pharmaceuticals, Granules, Spices and all other free flowing materials with automatic reject mechanism. This range has been specially designed to meet the hygiene standards of Food and Pharmaceutical Industry.
2. Third Eye Metal Detector specifically design for on line bottle inspection. It is probably one of the most sensitive metal detection stems for dry syrup line.
3. Unique elevating Tablet De-Dustre is compatible to any tablet press and has performance to match. This Tablet de-duster is a upward conveying and de-dusting is achieved through vibration.
4. Tablet Inspection Belt is specially designed for 100% visual inspection of tablets from both sides. 1,00,000 tablets per hour can be inspected on this new GMP model employing two operators, thereby reducing inspection cost considerably.
5. Uni Pharma Tablet Metal Detector is manufactured from S.S. 316 throughout to provide a hygienic easily cleaned inspection. This Tablet Metal Detector is capable of detecting & rejecting minute metal contamination of ferrous, non-ferrous & S.S. with robust high speed solenoid operated reject mechanism.



Unique Elevating & De-Burring De-dustre with Metal Detector



Unique Pharma Metal Detector Model : DIGITECH-75®



Uni Pharma Metal Detector Model: UPTMD-75®



Unique Gravity Feed Metal Detector For Powder & Granules



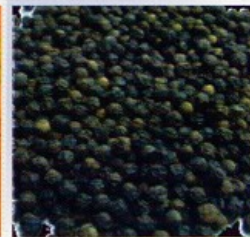
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Unique Gravity Feed METAL DETECTION System





WE HAVE METAL DETECTION SYSTEMS



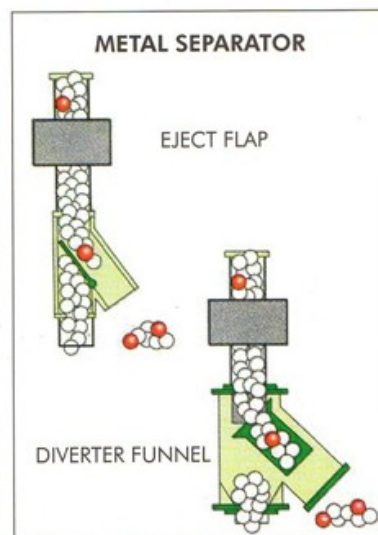
UNIQUE EQUIPMENTS specializes in manufacturing of industrial metal detectors for removal of ferrous and non-ferrous metal contaminants from dry or liquid product flows. Metal contaminants can be removed initially, before they are subjected to milling or chopping processes, which would further fragment the particles to the extent that they may be too small to be picked up at the end-control point. Costly damage to cutting machinery, extruders or calander rollers can be prevented thereby reducing possibility of further contamination.

UNIQUE GRAVITY FEED METAL DETECTOR

Model GFMD series of metal separators is most effective at removing metal particles from Bulk Drugs, Pharmaceuticals, Granules, Spices and all other free flowing materials via a reject outlet. This range has been specially designed to meet the hygiene standards of Food and Pharmaceutical Industry. The Aperture tunnel of these Metal Detectors are built with circular openings and are generally used with bagging machinery, multi-head weighers and (VFFS) vertical form, fill and seal machines, where metal detection raises an alarm signal. They have been designed for the efficient and reliable rejection of metal contaminants, without interruption to the flow of material, even at high throughput speeds.

UNIQUE GRAVITY FEED METAL DETECTORS works on the inductive measuring principle. A high frequency electromagnetic alternating field is generated. If a metal object passes through the Metal Detector, the detector experiences a change in the field based on the magnetic and electrical properties of the metal object. All type of metals (Ferrous, Non Ferrous and stainless Steel) is detected. For the removal of metal-contamination, the Metal Detector is provided with a pneumatic / electrical solenoid valve. Metal contaminants are ejected by a flap type reject mechanism. The detector and its eject valve are fastened to a stand and are mounted upon wheels for easy mobility.

While available in standard sizes, strengths and designs to meet most applications, Unique Equipments specializes in modified standards products and custom solutions, and offers design and engineering assistance for difficult applications. Rectangular and larger throughput systems are also available, suitable for floor or suspended mounting. Stainless steel Metal Detector, construction can be supplied with throughput rates up to 25,000 Kgs. Per Hour to special order.



EQUIPMENTS

FOR EACH & EVERY APPLICATION...

Digital Gravity Feed Metal Detectors Model : GFMD (D)

Key Pad Set Up : All set up is made from the touch panel membrane keypad. It is menu driven and the whole procedure is simple, user friendly, requiring minimal operator training.

Access Code Protection : Unauthorized adjustments to the sensitivity controls and tampering the line operators is prevented. Different access levels are available for line operators to make sample changes on product changeover and to supervisors to allow changes of all parameters.

Product Storage Memory Backup : For storage of up to 100 individual products, Each product has a complete set of adjustment data assigned, such as sensitivity, reject time, etc. The display of time relevant data is in real time. Individual product names can be stored as well.

Self Test Validation : You may choose and set the Self Test time. In the Self Test mode, the Metal Detector will automatically test for its performance. The cycle time can be adjusted from 1 minute to 999 minutes in real time. The test results are documented in the print protocol including date and time when the test is performed.

Compatibility with External Communications: This function allows the Metal Detector to transmit data to related equipment using an RS 485 or RS 232 interface (optional).

Features :

- ◆ Automatic Balance Coil Principle
- ◆ 08 Keys Membrane Touch pad with Tamper Proof controls and password Protection for unauthorized settings (For Digital Version)
- ◆ Product Code, Batch Code and Operator Code Entry (For Digital Version)
- ◆ 20 Characters and 4 Lines LCD for Clear Information (For Digital Version)
- ◆ LED Bar Graph to display the status of Coiles.
- ◆ Stainless Steel Construction
- ◆ Detects Ferrous, Non-Ferrous and Stainless Steel
- ◆ Quick recovery after detection of Tramp metals
- ◆ Solid State Relays for arc free switching
- ◆ Fully Automatic Product Effect Compensation
- ◆ Digital Signal Processor
- ◆ Individual operating and reject parameters for up to 100 different products can be stored in a non-volatile memory (For Digital Version)
- ◆ Detection and Rejection Counters (For Digital Version)
- ◆ Reject Confirmation and Indication for Irregularities (For Digital Version)
- ◆ Logging Capability to a printer for HACCP and ISO 9001 Documentation (For Digital Version)

