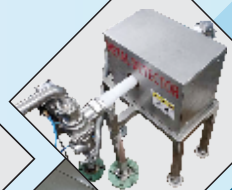




A & Y COMPANY

ISO 9001:2015, OHSAS 18001:2007



Manufacturer of Industrial Metal Detectors & Vertical Carousel Storage System

RANGE FOR OUR PRODUCTS

Conveyor Metal Detector

Rejection Types : Belt Stop, Flap Up/Down, Air Jet, Pusher, Diverter Arm, Drop Down, Belt Retracting, Interlocking Signal

Gravity Feed Metal Detector

Rejection Types : Flap Type, Interlocking Signal

Pipeline Metal Detector

Rejection Types : 3 Way Ball Valve - SS 316, Interlocking Signal

Tablet / Pharmaceutical Metal Detector

Rejection Types: Motorised Flap Up, Interlocking Signal

Split Type Metal Detector

Rejection Types : Belt Stop, Interlocking Signal

Pulse Type Metal Detector

Rejection Types : Belt Stop, Interlocking Signal

Tablet De-Duster (Elevating Type)

Pharmaceutical Industry

Orange Coil Metal Detector

Rejection Types : Belt Stop, Interlocking Signal

Hand-Held Metal Detector

Indication Types : Audio & Visual Indication, Vibration & Visual Indication

Conveyor System

Z Type Belt conveyor, Inclined Belt Conveyor

Vertical Carousel Storage System

3 Mtr to 6.5 Mtr Height
Capacity 300 Kg./Shelf, Inventory System

www.aandyindia.com



Welcome to A & Y Company!

At A & Y Company, we are dedicated to delivering exceptional solutions for precision foreign metal detection and rejection in Food, Rubber, Vinyl, Confectionery, FIBC Bags, Cosmetics and Garments etc.

Our Conveyor Metal Detectors are crafted with unmatched accuracy and reliability, designed to meet the diverse needs of various industries.

Discover Our Cutting-Edge Conveyor Metal Detectors : Food / Frozen / Dehydrated / Bakery Food Metal Detector, Packaging Metal Detector, Dairy Metal Detector, Cosmetics Metal Detector, Garment Metal Detector, and Metal Detector for Plastic / Vinyl Industry.

Main Points

- *High-speed detection and rejection of contaminated packets at 80 - 100 packets / Min*
- *4.3" Touch Screen TFT LCD Display for Seamless operations with hardware supports of 2 No's USB ports, 2 No's RS-232/RS-485 and IP65 rating.*

Why Choose A & Y Company?

- *Comprehensive Solutions: We specialize in designing and manufacturing complete solutions for metal detection, rejection, counting, and automation.*
- *In-House Expertise : Our Pune - based facility integrates mechatronics, embedded electronics, mechanical systems, electrical drives, material handling equipment, sensors, and software-all under one roof.*
- *Innovation & Excellence: Our R&D center is a testament to our commitment to innovation.*
- *ISO 9001:2015 Certified: Since 2013, with over 10 years of service, we have proudly served a diverse range of industries.*
- *Expertise in Different Product Applications: With over 10 years of research and development in Metal Detector applications, our experts know the right reject options for a variety of different products.*
- *Built with Filling Machines in mind: Metal Detector is designed to be compatible with various types of filling machine brands such as Risco, Handtmann and Vemag.*

Maintains

High Stability

**Stable**

High Sensitivity

**On Screen**

Validation



Achieve advanced quality control

**Pressing Times**
 > 10,000,000**IP65 Rating****User-Friendly****Operating Temperature**
 0°C - 50°C



CONVEYOR METAL DETECTOR

Technology that Aids in the Manufacture of Top-Quality Products : The detection and removal of Metal contaminants during the production and processing of food, pharmaceuticals, chemical products, and clothing are crucial for compliance with product liability laws and the HACCP system.

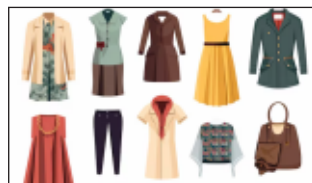
SALIENT FEATURES :

1. Customized aperture sizes are available for all types of products with models such as
 - a. AMD (All Metal Detection): Detects Ferrous, Non-Ferrous, and Stainless Steel metals.
 - b. FMD (Ferrous Metal Detection): Detects Ferrous Metal in metallized (aluminium) film packaging.
 - c. FAMD (Ferrous – All Metal Detection) (Dual Mode): Detects Ferrous Metal in metallized (aluminium) film packaging and Ferrous, Non-Ferrous, & Stainless Steel metals in All Metal Mode.
2. Reject Options: Pneumatic Flap, Air Jet, Diverter Arm, Belt Retracting, Pusher Type, Belt Stop, Drop Down, PFC Contacts for Interlocking or Audio / Visual Indication, Belt Auto Reverse mechanisms, selected based on the application or as per requirement.
3. Features: Fast detection and 100% rejection with minimized wastage, and easy installation.
4. Balanced coil technology ensures more accurate detection of foreign metal particles.
5. Operating Temperature: 0°C to 50°C at Ambient Humidity 10% to 55% RH
6. Advanced Human-Machine Interface: 4.3" Touch Screen WQVGA 65k Colors TFT LCD Display, 2 USB 2.0 ports, 2 RS-232/RS-485 hardware supports, and IP65 rating.
7. User-Friendly Operation : Intuitive operation interface and simple operating structure suitable for harsh environments.



APPLICATION :

- Sea Food • Frozen Food • Dehydrated Food • Organic Food • Dairy Products
- Food Processing Industries • Bakery Products • Confectionery • Plastic Recycle
- Rubber • Vinyl • FIBC Bags • Cosmetics • Soap • Garment & Textile Industries



GRAVITY FEED METAL DETECTOR

Technology that Aids in the Manufacture of Top-Quality Products: The detection and removal of Metal contaminants during the production and processing of food, pharmaceuticals, chemical products, and clothing are crucial for compliance with product liability laws and the HACCP system.

SALIENT FEATURES :

- 1 Customized aperture sizes available for all types of products with models such as:
 - a) AMD (All Metal Detection): Detects Ferrous, Non-Ferrous, and Stainless Steel metals.
- 2 Reject options: Pneumatic Flap, PFC Contacts for Interlocking or Audio / Visual Indication as per requirement
- 3 Features: Fast detection and 100% rejection with minimized wastage, and easy installation.
- 4 Balanced Coil Technology ensures more accurate detection of contaminated Metal.
- 5 Operating Temperature: 0°C ~ 50°C @ Ambient Humidity 10% ~ 55% RH
- 6 Advanced Human-Machine Interface: 4.3" Touch Screen WQVGA65k ColorsTFT LCD Display, 2 USB 2.0 ports, 2 RS-232/RS-485 hardware supports, and IP65 rating to protect the HMI from rain and dust.
- 7 User-Friendly Operation: Intuitive operation interface and simple operating structure suitable for harsh environments.



APPLICATION :

- Milk Powder ● Granules ● Nuts ● Dairy Products ● Food Processing Industries
- Rice ● Plastic recycle ● Organic food ● Sugar ● Soya Flakes ● Namkeens
- Plastic Recycle ● Rubber ● Vinyl ● Spices ● Pulses





TABLET METAL DETECTOR

MODEL		TABLET METAL DETECTOR	
APERTURE SIZE		100 mm X 30 mm	
CLEAR SPACE FOR PRODUCT		95 mm X 25 mm	
DETECTION SENSITIVITY	► FE	Ø 0.3 mm (Analog)	Ø 0.25 mm (Digital)
	► NFE	Ø 0.5 mm (Analog)	Ø 0.5 mm (Digital)
	► SS	Ø 0.6 mm (Analog)	Ø 0.5 mm (Digital)
DISPLAY		4.3" Touch Screen TFT Display	
PRESET MEMORY		99 PRODUCT	
PRODUCT		TABLETS , CAPSULES	
PROCESSING CAPACITY		100000 TABLETS / CAPSULES / HOUR	
CONTAMINATED PRODUCT REJECTION		MOTORISED FLAP UP TYPE REJECTION SYSTEM	
POWE		110 / 240 V AC $\pm 10\%$ SINGLE PHASE 50 / 60 Hz	
ENVIRONMENT COND R SUPPLY		120 VA MAX	
POWER CONSUMPTION		60 KG	
WEIGHT TIONS		TEMPERATURE 0°C TO 40°C	
		HUMIDITY 30% TO 85% Non Condensing	
Protection class		Ip 65	
Components	Non-Contact Part:	Detection Head, Rejection Unit, Base & Stand, Control Unit SS-304	
	Contact Part:	Rejection Flap Delrin, Product chute & Product Cover PC,	
DATA OUTPUT		USB Port, Ethernet (Optional)	

- Maximum detection sensitivity within detection area. Detection sensitivity for actual use may vary depending on the type of contamination, Physical properties of product (Temperature, Moisture, Shape, Weight) and the environmental condition. Detection sensitivity also depends on the product size.

SALIENT FEATURES :

- Aperture size 100mm W x 30mm H, for Pharmaceutical products with models such as
 - AMD (All Metal Detection): Detects Ferrous, Non-Ferrous, and Stainless Steel metals.
- Reject Options: Motorised Flap.
- Features: Fast detection and 100% rejection with minimized wastage, and easy installation.
- Balanced coil technology ensures more accurate detection of foreign metal particles.
- Operating Temperature: 0°C to 50°C at Ambient Humidity 10% to 55% RH
- Advanced Human-Machine Interface: 4.3" Touch Screen WQVGA 65k Colors TFT LCD Display, 2 USB 2.0 ports, 2 RS-232/RS-485 hardware supports, and IP65 rating.
- User-Friendly Operation : Intuitive operation interface and simple operating structure suitable for harsh environments.

APPLICATION :

• Tablet • Capsul



Tablet Deburring & Dedusting (Viibro) Machine

Features



- * For cleaning the du duster can be disassembled easily and without tools by a single person
- ** Low maintenance
- ** Power supply for 230 / 50 Hz

- * Technical data
- * Output 5,000 to 250,000 Tablet/ Hr.
- ** Main Electric motor - 0.25 hp
- ** Max Tablet Diameter 25 mm
- ** Min. Tablet diameter 5 mm

Design

- *Constructed according to GMP specifications
- *Downward conveying of Tablet/Capsules generated by adjustable vibration.
- *The inlet can be rotated 360 independent of the outlet . De duster is easily adjustable to various tablet press discharge configurations

Debarring and De Dusting

- *Dust agitation system efficiently removes dust particles from tablet

We are county's directing manufacture, trader and supplier company offering The most distinct range of automatic storage systems & metal detector since 2013 last four year. Our range of product is quality certified and favored for the accurate dimensions. We are provide the AMC , SPARE MATERIAL to all required industries.

PULSE METAL DETECTOR

OVERVIEW

A & Y Company Metal Detectors detect the presence of metal-both magnetic and nonmagnetic in moving bulk material. Tramp metal affects many Industries, and presents quality control problems or a hazard to processing equipment's i.e. Crushers, Ball Mills and Conveyor Belts etc. A & Y Company Metal Detectors meet the requirements of a wide spectrum of industries like Iron Ore, Metallic ore, Cement, Coal, etc. A & Y Company Metal Detectors, with rugged design and continuous heavy-duty usage, are field proven. A & Y Company's R & D and Time to Time innovations ensure the performance and reliability of metal detectors.

Principle of operation :

- * principle of Eddy Current induced Imbalance in a set of mutually balanced coils. A frequency of 20 KHz to 100 KHz is used to generate an electromagnetic field in the aperture area.
- * work effectively when a tramp metal is to be detected in the presence of magnetic and conductive ores
- * Detects ferrous and non-ferrous metal.
- * Completely solid state using latest technology, ruggedly built to give years of trouble free operation.
- * Easy installation: search coil can be installed around an endless belt.
- * Suitable for ambient temperature up to 55°C and humidity 100%.
- * Audio-visual Alarm to draw the attention of the operator.
- * Reliable Sand Bag Marker and External Hooter can be coupled to the system.

APPLICATIONS:

- | | |
|--|--------------------------------|
| 1. Coal Handling Plants | 6. Glass Manufacturing Units |
| 2. Cement Plants | 7. Plastics |
| 3. Mining (Coal, Lignite, Ores) | 8. Paper Mills |
| 4. Thermal Power Plants PULSE METAL DETECTOR | 9. Plywood Manufacturing Units |
| 5. Chemical Plants | 10. Rubber Processing Unit |

FEATURES OF ANALOG BASED METED DETECTOR

1. Bar Graph Signal Indication (Analog Needle based Voltmeter)
2. Adjustable Sensitivity (0 - 10 V DC Variable) - Potentiometer with Display Parameter
3. Trip and Totalizing Counters (0 to 9,99,999 Count) - 6 Digit Display
4. Trip and Totalizing Counters Reset
5. Visual LED Indicationsa)Main Power ONb)MD Healthy / SETc)MD Detect and Resetd)By-Pass
6. Metal Detector Reset Push Button
7. Metal Detector By-Pass Mode
8. Potential Free Contact
9. Audio-Visual alarm Indication on each Metal Detection



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Split Type Metal Detector (Stone, Coal, & Wood Chipper Industries)



1. It allows its installation without cutting conveyor belt
2. Metal Detector is extremely robust construction wise, which allows its installation in difficult environments
3. Highly sensitive to all magnetic and non magnetic metals including stainless steel
4. Low power consumption
5. Self diagnostic testing for minimum breakdown situation.



Orange Coil Type Metal Detector

1. The Metal Detector System Comprises Detector Coil, Amplifier Unit and Power Isolation Unit.
2. The unit is unaffected by environmental conditions like dirt, temperature fluctuations or from vibrations, however it has to be mounted clear from metal beams and rollers
3. Unwanted metal is sensed only when it is in motion, giving an output contact for monitoring or control.
4. It can Sense Pieces of Metal Like Tools, Metal Paneling, Teeth, Excavator, Bucket etc.

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Vertical Storage System

Controller

- The PLC-controlled platform known as vertical carousel is similar to a lift, moves up and down to locate a particular tray while storing the material. The desired tray is brought to the operating window located at ergonomic level for easy loading or unloading of material.
- In this system, trays are stationary while the retrieving mechanism is moving, which increases load capacity per shelf (up to 500 kg per tray).

Features

- Vertical carousel mechanism or platform is fitted to vertical chain loops at four corners of the platform which give upward and downward motion to the platform.
- System offers higher flexibility to accommodate a variety of items to be stored.
- The pitch between two trays can be variable, allowing storage of items with variable dimensions.
- Very easy to operate and maintain and allows full utilization of the available height.

Optimum utilization of vertical space

Optimum utilization of vertical space is a highlight of our systems. They are designed to use maximum vertical space. This spaces horizontal space for other functions in the modern day space starved environment. Very easy to operate and maintain and allows full utilization of the available height.

Customer Benefits

Quick Retrieval : The system is faster as compared to the vertical carousel. In this system, only the retriever is moving and not all the trays, ensuring faster retrieval.

Space Saving : Utilizes complete height and saves horizontal space up to 80%.

Optimum Storage Capacity : This system allows larger tray dimensions compared to vertical carousel and also varying pitch is possible, allowing storage of material of different shapes and sizes in the same system.

Higher Load Capacity : Shelves are stationary and can be designed for 1MT load capacity (per shelf).

Safety Of Material : Totally enclosed system, avoids damage to material from external influences and protects material from theft.

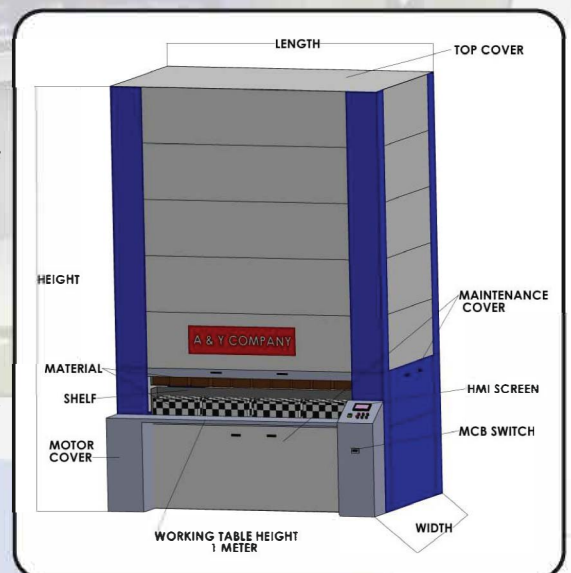
Manpower Saving : High degree of automation reduces manpower requirement.

Effective Inventory Control : Material can be accessed only after entering the part number and quantity, in turn ensuring timely update of record. This allows precise inventory control.

User-Friendly System : Very easy to operate and maintain after brief training.

Smooth Operation : Only the retriever is moving up and down with the help of a chain and sprocket mechanism, thus ensuring very low noise and jerk-free material handling.

Operator Safety : Curtain sensors at the opening window ensures the operator's safety during operation and prevents accidents. The emergency switch at the front allows instantaneous halting during operation in case of an emergency.



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A & Y - AY-HHMD-07 Hand Held Metal detector



Technical specifications

- Unit Dimension: 295(L)* 68(W)* 28(H) mm
- Power voltage: standard 9V battery
- Operating voltage: 7V-12V
- Working frequency: 22 KHZ
- Standby current: <5mA
- Configuration: one hand held metal detector
- Net weight: 180g (without battery)
- Working temperature: -10 °C to 65 °C
- Housing material: ABS- black

High sensitivity

- A. Pin: 30-50mm
- B. 64-Pistol : 200mm
- C. 6 inch Knife: 250mm
- D. Steel ball with 20mm diameter: 120mm

Use domain

Security detecting: Prevent taking contraband, such as: knife, gun and so on.
Factory: Prevent the loss of valued objects
Education area: Prevent taking cheat-tool, such as: telephone, electronic dictionary, and so on.

**A & Y COMPANY**

OUR HONORABLE CLIENT

Government Sector



Domestic customer



International Customers



We are county's directing manufacture, trader and supplier company offering The most distinct range of Vertical Carousel storage systems & metal detector since 2013. Our range of product is quality certified and favored for the accurate dimensions. We are provide the AMC, SERVICE & SPARE MATERIAL to all required industries.

**A & Y COMPANY**

Plot No. 15 /7, Gat No. 679 /2 /2, Chakan-Alandi Road, Alandi Fata, Kurali,
Pune - Nashik Highway, Chakan - 410 501, Dist Pune, Maharashtra (INDIA)
Email : marketing@aandycompany.com / ajay.khete@aandycompany.com
Webside : www.aandyindia.com / www.aandycompany.com

Cell : +91 87939 33011, 88799 29321, 87939 33022