



ULTRA SEARCH METAL DETECTOR (USMD)

Siva Systems Pvt. Ltd. is known in the national & international markets for customized quality metal detectors for more than three decades now. By creating a benchmark in metal detection solutions, we served almost every industry now like, food (ready-to-eat products, sea food etc), agro, pharma, mining, textile, thermal plants etc.



❖ SALIENT FEATURES

- ◆ User friendly design for quick and easy operation.
- ◆ Highly reliable product. 100% detection of \varnothing 1mm Ferrous. Even broken needles are not missed.
- ◆ Detectors available for all-metals and also only for Ferrous.
- ◆ Uniquely designed to switch between Ferrous and all-metals.
- ◆ Sensitivity of detection can be adjusted to up to 1mm \varnothing Ferrous.
- ◆ Automatic balancing.
- ◆ Detectors are also available for the belt to retract upon detection
- ◆ Sophisticated integrated system is incorporated in USMD.
- ◆ Rust free stainless steel for better durability
- ◆ Modular plug in card system





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❖ Principle

The machine works on 3 coil balanced Eddy Current principle and hence the detection will be stable throughout the aperture, which makes the machine more reliable and fool proof.

❖ Sensitivity

The sensitivity achieved is uniform throughout, as the machine works on electro-magnetic induction principle, detecting particles less than 1mm diameter depending on the size of the aperture.

❖ Dual Mode: Ferro + All metal

This unique machine has 2 circuits incorporated into one. And through a single switch, the client can switch from Ferro Check mode to All-metal Check mode. This gives an advantage to the client to pass both types of products through the same machine, i.e., one with metal film and the other without it.

❖ Efficiency Levels

Any broken needle or foreign metal of about \varnothing 1mm detected by the machine in the cloth causes a disturbance in the EMF and the resultant signal stops or reverses the conveyer belt and triggers an audio-visual alarm

<u>Specifications</u>	<u>Ferro Check Detector</u>	<u>Ferro + All-Metal Detector</u>
Model	USMD- FM	USMD- FM + AM
Detection	FE Metal only	FE (Ferro mode) + FE/N FE/SS (All metal mode)
Detection Method	Electro Magnetic Induction	Electro Magnetic Induction
Detection Ability	\varnothing 2mm iron balls/ broken needles	1.2mm Fe + \varnothing 1.6 mm nFe + \varnothing 2.0 SS
Detection Width	600mm	600mm
Detection Height	100mm	100mm
Alarm	Audio & Visual	Audio & Visual
Belt Speed	30 mts. per min.	30 mts. per min.
Counter	Standard (Optional)	Standard (Optional)

HEAD OFFICE:

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