

Metalarm 6600 Metal Detector



The 6600 Metal Detector for installation on inclined conveyors provides a solution to many metal detection problems.

Applications

Any industry with conveyors used to feed granulators with tops and tails, sprues, etc

Benefits

- Prevention of damage to machinery resulting in lower repair costs and downtime
- Increase in recycled product value
- Quick pay-back on capital investment

Features

- Low cost
- Easy to install
- Small, lightweight control unit
- Directly attaches to lightweight conveyors
- Detects both ferrous and non-ferrous metals
- Fail safe electronics
- Plug-in search coils
- Sensing height of detector covers whole belt width
- Complies with CE-EMC regulations
- Reduced susceptibility to electrical noise
- Surface Mount Technology (SMT) for improved reliability
- Fully removable PCB for easy maintenance



Search coils

The Metalarm 6600 Control Unit can be operated with any of the Metalarm 6000 Range of Search Coils.

There are two groups of plate type search coils, the 'S' series for the standard sensitivity and the 'SW' series for high sensitivity.

The 'S' series is manufactured in high density polyethylene and the 'SW' in polypropylene. Both types of coil can be supplied with grooves down their centres for conveyor belts that have underbelt tracking ribs. These are designated by the letter 'C'.

In addition to the standard plate coils, the 'SW' circular aperture type search coil (shown right) is available in any size up to 300mm diameter for free fall applications. It is often favoured where metal-free space is limited.

Sensitivity

This is determined by the adjustment of the electronics and is dependent upon the width of the search coil, the height of the product and the type and size of the metal being detected. Eriez Pulse Technology will supply sensitivity estimates on request for your application.

Range of control units

The METALARM 6600 Control Unit is a universal control unit and can be used with any of the above search coils.

It employs a single plug-in printed circuit board for ease of replacement, all connections being via the plug-in connectors.

The Surface Mount Technology (SMT) is used wherever possible to increase the reliability of the detector. The MA6600 also incorporates the latest circuitry to combat electrical interference from adjacent machinery.

Specifications

Mechanical

Housing	IP66
Dimensions	260 x 140 x 83mm
Weight	1.79 Kg

Electronics

110 or 220V, 50 or 60 Hz operation - switchable	
Two changeover relay contacts output rated at 5A/250V	
Visual alarm - metal detected	
Reset switch	
Power 'on' indicator	
Search Coil cable	1 metre long URM76/RG58 coaxial type, incorporating an IP65 plug to connect it to the search coil



Other Metal Detectors

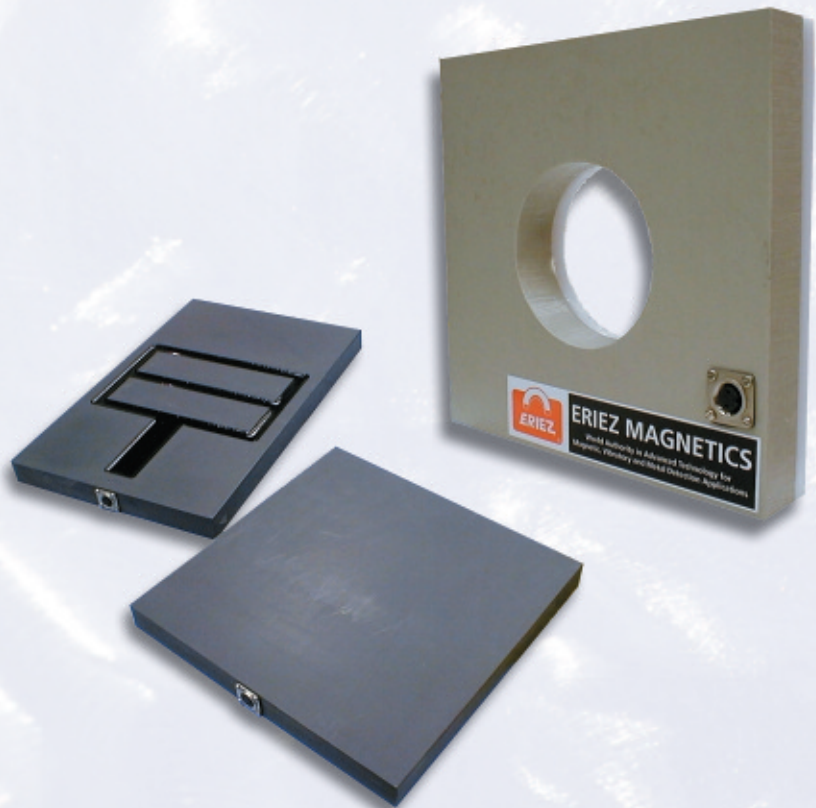
Metalarm 3000 Range For inspection of mouldings for metal contamination.

Balanced Coil Range For checking plastic containers prior to use in the food industry.

Metalarm 7000 For checking plastic sheet materials.

Metalarm HandyTec® Hand-Held Metal Detector For pinpointing the position of metal in sheet materials.

Eriez also offers a range of grate magnets for installation in hoppers prior to metal detectors to reduce the incidence of the metal detector tripping and to increase recovery of ferrous metals.



Eriez Magnetics Europe Limited
European Manufacturing, Design and Test Laboratory Headquarters
Greenway, Bedwas House Industrial Estate, Bedwas, Caerphilly CF83 8YG, UK

T: +44 (0)29 2086 8501
F: +44 (0)29 2085 1314
E: eriez@eriezeurope.co.uk
www.eriez.com

MANUFACTURING AFFILIATES IN:
AUSTRALIA BRAZIL CHINA INDIA JAPAN
MEXICO SOUTH AFRICA USA